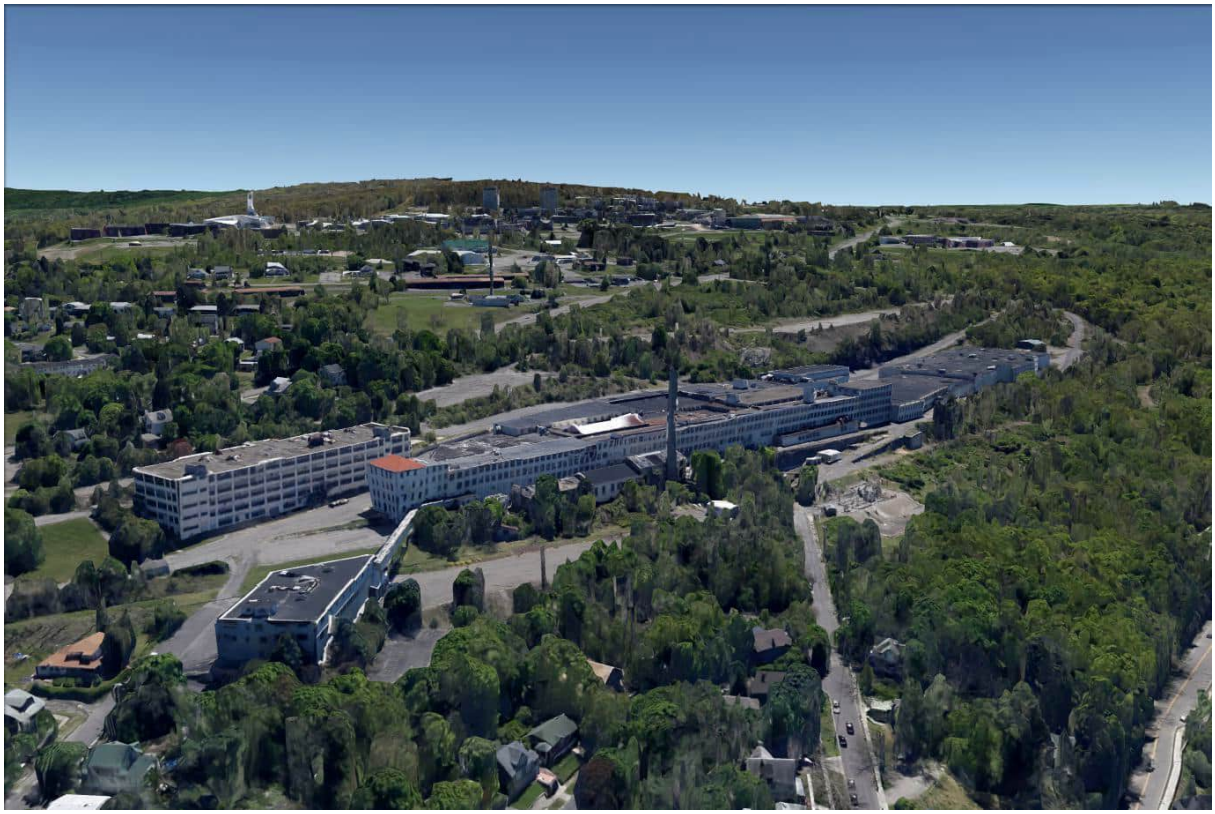
EMERSON ELECTRIC CO.

PERIODIC REVIEW REPORT - REVISED

FORMER EMERSON POWER TRANSMISSION, TOMPKINS COUNTY, ITHACA, NEW YORK – SITE NO. 7-55-010

SEPTEMBER 01, 2023



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EMERSON ELECTRIC CO.

PROJECT NO.: 31405608.001
DATE: SEPTEMBER 2023

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1 EXECUTIVE SUMMARY

WSP USA Inc. (WSP) is submitting this Periodic Review Report (PRR) on behalf of Emerson Electric Co. (Emerson) for the former Emerson Power Transmission (EPT) site at 620 S. Aurora Street in Ithaca, New York (Site, Figure 1). This PRR has been prepared in accordance with the New York State Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation's (DER's) DER-10 *Technical Guidance for Site Investigation and Remediation*, dated May 2010, the Interim Site Management Plan (ISMP), dated August 19, 2022, and NYSDEC correspondence to Emerson, dated October 7, 2022. This PRR covers the reporting period from October 7 through December 31, 2022.

The Site is currently in the New York State (NYS) Superfund Program, Site No. 755010, which is administered by NYSDEC. Emerson and EPT entered into an Order on Consent (No. A7-0125-87-09), on July 12, 1987, with the NYSDEC to remediate the Site. Based on results obtained during additional investigations conducted at the Site, the NYSDEC issued a December 1994 Record of Decision (ROD), a June 2009 ROD Amendment, and a 2021 ROD Amendment (AROD). In December 2014, EPT transferred the property to EMERSUB 15, LLC, a wholly owned subsidiary of Emerson, in anticipation of the sale of its Power Transmissions Solutions business, of which EPT was a part. In connection with this transaction, the Consent Order was amended to make Emerson the sole respondent responsible for the remediation. In addition, in October 2018 the NYSDEC approved a boundary modification for the Site decreasing the Site size from 94.3 acres to approximately 60 acres (includes Operable Unit [OU]– 1 and OU-2). A figure showing the Site location and boundaries of this Site is provided in Figure 2. The boundaries of the Site are more fully described in the metes and bounds site description that is part of the Environmental Easement provided in Appendix A.

The former manufacturing plant complex is referred to as OU-2; the former Fire Water Reservoir (FWR) located immediately west of the main plant is referred to as OU-1 (see Figure 2). The owners of the Site parcels at the time of issuance of this PRR are:

1. OU-1 – EMERSUB 15, LLC, a wholly owned subsidiary of Emerson.
2. OU-2 – As of December 2022, L ENTERPRISES, LLC or a related entity.

The specific responsibilities of the owner of OU-2 and the Remedial Party with respect to OU-1 are set forth in Appendix B.

1.1 SITE SUMMARY

Investigations documented in the Phase II Supplemental Remedial Investigation Report (SRI) performed at the Site from 1987 through 2017 identified the following:

- Affected soil containing chlorinated volatile organic compounds (CVOCs), barium, chromium, cadmium, copper, nickel, arsenic, lead, mercury, cyanide, polychlorinated biphenyls, polycyclic aromatic hydrocarbons (PAHs)
- Affected groundwater containing CVOCs, barium, and cyanide
- Groundwater seeps containing CVOCs
- Sub-slab vapor and indoor air containing CVOCs
- Non-aqueous phase liquid (NAPL)

The selected remedy described in the Feasibility Study (FS) required the following actions:

- Site-wide contaminants of concern (COCs) in soil – Source removal and cap/cover installation as Soil Interim Remedial Measures (IRM)
- Site-wide CVOCs in groundwater – Semi-annual groundwater monitoring
- Area of Concern (AOC) 1 CVOCs in groundwater – Expansion of existing DPE system into AOC 1
- Site-wide barium in groundwater – Semi-annual groundwater monitoring
- Site-wide cyanide in groundwater – Semi-annual groundwater monitoring
- Seep COCs – Collection and treatment or rerouting seeps – Building 24, Weir Box Seeps, and Retaining Wall Sump
- Site-wide NAPL – Monitoring and active/passive recovery

- Soil vapor intrusion – Mitigation based on future occupancy of the buildings

Remediation and monitoring activities completed at the Site include the following:

- Soil IRM activities
- Installation and ongoing operation of a Dual Phase Extraction (DPE) System for vapor and groundwater in bedrock
- Quarterly monitoring and passive recovery of NAPL

Future remediation activities planned for the Site include the following:

- Expansion of existing DPE System to address CVOCs in AOC 1
- Active or passive recovery of Site-wide NAPL
- Collection and treatment or rerouting of the three seeps – Building 24, Weir Box Seeps, and Retaining Wall Sump
- Soil vapor intrusion mitigation based on future occupancy of the buildings

Ongoing monitoring activities planned for the Site and documented in the ISMP include the following:

- Semi-annual groundwater monitoring for Site-wide CVOCs in groundwater
- Semi-annual groundwater monitoring for Site-wide barium in groundwater
- Semi-annual groundwater monitoring for Site-wide cyanide in groundwater
- NAPL monitoring in areas of the Site where NAPL has been identified
- DPE system monitoring in accordance with the Operations and Maintenance (O&M) Plan

On completion of the activities described above, remaining contamination on the property will consist of the following:

- CVOCs, arsenic, barium, and PAHs in soil onsite
- CVOCs, barium, and cyanide in Site-wide groundwater
- CVOCs in seeps and AOC 1 groundwater
- CVOCs in sub-slab soil gas
- NAPL in Site wells

Institutional Controls and Engineering Controls (ICs and ECs) have been incorporated into the remedy for the Site to control exposure to remaining contamination and ensure protection of public health and the environment. An Environmental Easement (Appendix A) recorded with the Tompkins County Clerk, requires the property owner to comply with the ISMP and all ICs and ECs placed on the Site until the Environmental Easement is extinguished.

1.2 EFFECTIVENESS OF THE REMEDIAL PROGRAM

1.2.1 SOIL IRM ACTIVITIES

Soil IRM activities were performed in 2018 and 2019 in accordance with an IRM Work Plan. Source removal was specified for nine AOCs (AOCs 26, 27, 28, 29, 30, 31, 32, 34, 35A, 35C, 35D, 35G, 35H, 35K and 35L) followed by soil cover installation where soil containing COC concentrations above applicable Soil Cleanup Objectives (SCOs) remained on site (AOCs 28, 29, 30, 31, 32, 34, 35A, 35D, 35H, 35K, and 35L). Source containment (capping) was performed in AOC 1 after source removal to a depth of 3 feet.

The cap and cover system continue to prevent direct contact with contaminated soil, prevent inhalation of contaminants volatilizing from the soil, and prevent migration of contaminants that could result in groundwater or surface water contamination.

1.2.2 DUAL PHASE EXTRACTION SYSTEM

Active remediation at the Site consists of operating and maintaining a DPE System consisting of 10 wells, 9 are aligned in a north-south direction downgradient of and below the FWR to the west, and 1 well is located just south of the FWR. Four wells were installed in the highly fractured B-zone and the upper C-zone. The remaining six DPE wells were installed in the C-zone primarily to intercept and contain impacted groundwater in the lower portion of the C-zone. Additional investigations in OU-1 found that the high concentrations of CVOCs in groundwater within two bedding plane fractures underlying the reservoir at 550 and 544 feet above mean sea level (amsl) and a deeper bedding plane fracture at 515 feet amsl, were the primary migration pathways for affected groundwater. Based on these findings, three new recovery wells targeting these bedding plane fractures were added to the DPE System in 2015. After one of the recovery wells was abandoned, the DPE System currently consists of a total of 12 extraction wells.

The existing DPE system continues to operate to reduce the mass of VOCs in groundwater. Two additional extraction wells, EW-13 and EW-14, were installed in November 2022 as part of the DPE system expansion into AOC 1.

1.2.3 NON-AQUEOUS PHASE LIQUID RECOVERY

NAPL monitoring began in December 2009 and recovery began in January 2010. Passive NAPL recovery using absorbents is conducted quarterly for groundwater wells that contain free product. Since initiation approximately 63 gallons of NAPL has been recovered through December 31, 2022. Recovered NAPL and associated sorbents are placed in 55-gallon Department of Transportation (DOT) compliant steel drums for offsite disposal.

The existing NAPL recovery activities continue to reduce the volume of NAPL present in Site wells. Additional NAPL monitoring with recovery if necessary is planned in 2023 in four new wells along the basement wall in Buildings 3 and 4.

1.3 COMPLIANCE

No deficiencies were identified with respect to compliance with the ISMP for the Site; therefore, no corrective actions are required at this time.

1.4 RECOMMENDATIONS

WSP does not recommend changing the frequency of PRR submittals. In addition, no modifications are recommended to the ICs and ECs, or the O&M Plan.

2 SITE OVERVIEW

2.1 SITE LOCATION AND DESCRIPTION

The Site is located in Ithaca, Tompkins County, New York and is identified as Section 92 Block 8 and Lot P/O 106.-1-8 and Section 106 Block 1 and Lot 8 on the on the city of Ithaca Tax Map; and Section 40 Block 3 and Lot 3 on the town of Ithaca Tax Map. The Site is an approximately 60-acre area and is bounded by residential neighborhoods to the north, undeveloped, steep woodlands to the south, South Aurora Street to the east, and undeveloped, steep woodlands and ultimately West Spencer Street to the west (see Figure 2). The former manufacturing plant complex is referred to as OU-2; the former FWR located immediately west of the main plant is referred to as OU-1 (see Figure 2). The boundaries of the Site are more fully described in Appendix A – Environmental Easement. The owners of the Site parcels at the time of issuance of this PRR are:

1. OU-1 - EMERSUB 15, LLC, a wholly owned subsidiary of Emerson.
2. OU-2 – As of December 2022, L ENTERPRISES, LLC or a related entity.

2.2 SITE HISTORY

The facility was founded in 1906 by Morse Industrial Corporation, manufacturer of steel roller chain for the automobile industry. Morse operated the facility until approximately 1928 when it was bought by Borg-Warner Corporation, manufacturer of automotive components and power transmission equipment. In 1983, Emerson acquired Morse from Borg-Warner. As a result, the Ithaca facility eventually became part of the former EPT, a wholly owned subsidiary of Emerson and part of Emerson's Power Transmission Solutions business. EPT continued to manufacture industrial roller chain, bearings, and clutching for the power transmission industry until operations ceased in 2009. The facility was subsequently decommissioned and has been vacant since 2011. In December 2014, Emerson transferred the property to EMERSUB 15, LLC, a wholly owned subsidiary of Emerson, in anticipation of the sale of Emerson Power Transmission Solutions business.

Up until the late 1970s, Borg-Warner used trichloroethene (TCE), a common solvent at the time, for cleaning and degreasing metal parts. An estimated sixty metal piercing and clanking machines were in operation from the early 1950s to 1977. Additional operations included metal finishing, plating, pickling, and salt bath quenching utilizing barium chloride and cyanide salts.

2.3 SUMMARY OF INVESTIGATION AND REMEDIATION ACTIVITIES

The following narrative provides a brief summary of the investigation and remediation history for the Site.

In 1987, groundwater containing elevated concentrations of volatile organic compounds (VOCs), specifically CVOCs, was discovered, originating from the FWR (OU-1) in the western portion of the property. Subsequent to reporting these findings to NYSDEC, Emerson and EPT entered into a Consent Order with the NYSDEC (Index No. A7-0125-87-09) requiring Emerson to develop and implement a Remedial Investigation and Feasibility Study (RI/FS) followed by a remedial program to address the release of hazardous substances to the environment. The RI Report was completed by Radian Corporation (later Radian International LLC) in 1990. A groundwater pump and treat system was installed as an IRM to address VOC-affected groundwater near the FWR; operation began in late 1991. In 1994, the FS completed by Radian proposed a dual-phase groundwater extraction and treatment system as the remedial alternative based on testing that indicated such a system would outperform the existing IRM. The alternative was approved by NYSDEC and detailed in the 1994 ROD. The DPE System and treatment system began operating in 1996.

Based on the results of a SRI and Alternatives Analysis performed between 2004 and 2008, NYSDEC issued a ROD Amendment in 2009. The limits of OU-1 and OU-2 are shown in Figure 2. Descriptions of OU-1 and OU-2 and their regulatory status are summarized below.

2.3.1 OU-1

Subsequent to the 2009 ROD Amendment, a variety of activities have occurred in OU-1 including decommissioning the FWR; evaluating the potential presence of NAPL below the FWR; removal of NAPL since 2010; and upgrading the DPE and treatment system. EMERSUB 15, LLC retained ownership of that portion of the property coterminous with OU-1.

The existing DPE System (as upgraded in 2009) consisted of 10 wells, 9 of which were aligned in a north-south direction downgradient of the FWR to the west, and 1 well was immediately south of the FWR (EW-9-86C). Of the 10 DPE wells, four wells (EW-4-25B, EW-5-25B, EW-7-25B, and EW-10-25B) were installed in the highly fractured B-zone and the upper C-zone. The remaining six DPE wells (EW-1-62C, EW-2-62C, EW-3-60C, EW-6-60C, EW-8-62C, and EW-9-86C) were installed in the C-zone primarily to intercept and contain impacted groundwater in the lower portion of the C-zone. The OU-1 Groundwater DPE System is a component of the final remedy for the Site.

Following the 2009 ROD Amendment, several additional investigations were completed in OU-1. The findings indicated that the highest concentrations of CVOCs in groundwater occurred within two bedding plane fractures underlying the reservoir at 550 and 544 feet amsl. These bedding plane fractures, as well as a deeper bedding plane fracture at 515 feet amsl, were identified as the primary migration pathways for affected groundwater. The pre-2009 system largely addressed these same intervals. In June 2015, the DPE and treatment system was modified and enhanced to include 12 extraction points (abandoning EW-9-86C and installing EW-9R-72C, EW-11-43C, and EW-12-45C targeting the bedding plane fractures).

2.3.2 OU-2

OU-2 includes several AOCs, including AOC 1, the Former Department 507 Degreaser in Building 4, where soil and groundwater affected by CVOCs were identified and delineated over the course of several investigations. At the request of NYSDEC, WSP's Phase II SRI Report, dated August 5, 2016, included summary information on this area. Much of the remainder of OU-2 was subject to soil, soil vapor, and groundwater investigations as part of the Phase II SRI. WSP's IRM Work Plan, dated August 8, 2018, was developed to address shallow soil via excavation with offsite disposal in the former degreaser area as well as other AOCs in OU-2 to reduce potential migration of COCs to groundwater. Ownership of OU-2 was conveyed to L ENTERPRISES, LLC in December 2022.

A sanitary sewer line was initially constructed across a portion of the Site to serve the former NCR facility to the south. The line extends approximately 2,700 feet from the southern property boundary to the north-northeast across OU-2 and connects to the main city sewer line on South Aurora Street (Figure 2). The line lies within two easements previously granted to NCR by Morse Chain Company. Another easement for a lateral to the NCR sewer line benefits Ithaca College. The original easements extended 10 feet from the center line, for a total width of 20 feet.

In October 2018, the NYSDEC approved a proposal by Emerson to remove 34.34 acres of undeveloped land in the southern portion of the property from the area subject to the Order on Consent, the Administrative ROD, and the Registry of Inactive Hazardous Waste Sites. A condition to the boundary modification was the filing of a deed restriction requiring soil vapor assessments prior to any habitable structures being connected to or being constructed within 40 feet from the centerline on either side of the sewer running from the former NCR property and the Ithaca College lateral (Appendix C). The New York State Department of Health (NYSDOH) requested the restriction to account for potential vapor intrusion. The deed restriction was filed and recorded on September 6, 2018. As shown in Figure 2, the southern portion of the sewer, sewer lateral, and undeveloped land are no longer within the limits of Site No. 755010.

Residual source materials were removed from several sanitary sewer manholes and two trench systems within the buildings in 2017. The cleanout was accomplished by physical means (shovel, breaker bars, scrapers, etc.) followed by final removal by high vacuum. The use of water to remove solid residuals from manholes was minimized by temporary plugging to prevent solid residuals and wash water from being discharged to the sanitary sewer system. As described below, additional sewer line investigation and removal of sewer residuals, sewer lines, and manholes was performed as part of the Soil IRM activities in 2018 and 2019.

The final IRM Work Plan for soils was submitted to and approved by the NYSDEC in August 2018. The primary objectives of the work plan were to remediate soil in OU-2 to meet applicable SCOs and to facilitate future use of the property consistent with L Enterprises, LLC redevelopment plans. The IRM activities were completed in August 2019 and the Soil IRM Construction Completion Report was submitted to NYSDEC in October 2020. The OU-2 Soil IRM is a component of

the final remedy for the Site while providing for the removal of sources to groundwater contamination. The AOCs addressed during the Soil IRM activities and the SCOs (direct contact or protection of groundwater [PoG]) are summarized in Table 1.

Approximately 4,550 cubic yards of soil were excavated during the Soil IRM activities. The general components associated with the IRM included the following:

- Site preparation activities (e.g., utility locating, clearing, erosion and sedimentation controls, pavement removal)
- Excavation of affected soil (depths varied depending on the SCOs and depth to bedrock)
- Confirmation and documentation sampling
- Offsite disposal of excavated soil consistent with waste disposal characterization results
- Installation of demarcation layer where affected soil remains
- Backfilling excavations with clean fill from off-site sources
- Installation of an engineered cap at AOC 1 to reduce infiltration through affected soil that will remain in place
- Restoration of the cover consistent with historical cover or in anticipation of future use.

At the request of NYSDEC, the IRM work incorporated actions to further address portions of the sanitary sewer network inside the facility, including:

- investigation of soil conditions below the invert elevations of the sewer pipe at select locations
- removal of sewer lines and manholes in which barium was detected at concentrations above the PoG SCO
- vacuuming of residuals from the exposed bedrock pipe traces and manhole areas
- placing flowable fill in the excavation cavity and the sewer line trench to minimize infiltration.

2.4 REMEDIAL OBJECTIVES

The Remedial Action Objectives (RAOs) for the Site as listed in the AROD dated September 2021 are as follows:

Groundwater

RAOs for Public Health Protection

- Prevent ingestion of groundwater with contaminant levels exceeding drinking water standards.
- Prevent contact with, or inhalation of, volatiles from contaminated groundwater.

RAOs for Environmental Protection

- Restore ground water aquifer to pre-disposal/pre-release conditions, to the extent practicable.
- Remove the source of ground or surface water contamination.

Soil

RAOs for Public Health Protection

- Prevent ingestion/direct contact with contaminated soil.
- Prevent inhalation of or exposure from contaminants volatilizing from contaminants in soil.

RAOs for Environmental Protection

- Prevent migration of contaminants that would result in groundwater or surface water contamination.

Soil Vapor

RAOs for Public Health Protection

- Mitigate impacts to public health resulting from the potential for soil vapor intrusion into existing or future buildings at the site.

2.5 SELECTED REMEDY

The FS dated August 12, 2020, detailed the selected remedy for the Site that included the following components:

- Site-wide COCs in Soil – Address during execution of the Soil IRM activities by source removal (excavation and offsite disposal) in nine AOCs (AOCs 26, 27, 28, 29, 30, 31, 32, 34, and 35) and source containment (capping) in AOC 1
- Site-wide CVOCs in groundwater – Semi-annual groundwater monitoring
- AOC 1 CVOCs in groundwater – Expansion of existing DPE system into AOC 1
- Site-wide barium in groundwater – Semi-annual groundwater monitoring
- Site-wide cyanide in groundwater – Semi-annual groundwater monitoring
- Seep COCs – Collection and treatment or rerouting seeps – Building 24, Weir Box Seeps, and Retaining Wall Sump
- Site-wide NAPL – Monitoring and active/passive recovery
- Soil vapor intrusion – Mitigation based on future occupancy of the buildings

2.6 CHANGES TO THE SELECTED REMEDY

There were no changes to the selected remedy during the reporting period of October 7 through December 31, 2022.

3 EVALUATION OF REMEDY PERFORMANCE, EFFECTIVENESS, AND PROTECTIVENESS

Remediation at the Site consists of the completed Soil IRM activities and operating and maintaining the DPE System and passive NAPL recovery in monitoring wells. Progress was made toward achieving the RAOs as described in the following sections.

3.1 SOIL

The cap and cover system continue to prevent direct contact with contaminated soil, prevent inhalation of contaminants volatilizing from the soil, and prevent migration of contaminants that could result in groundwater or surface water contamination.

3.2 DPE SYSTEM

The existing DPE system continues to operate to reduce the mass of VOCs in groundwater:

- From July 1996 to August 27, 2008, the 2-Phase™ extraction system removed approximately 420 pounds of total VOCs.
- From January 20, 2009 and October 7, 2022, the IRM DPE System approximately removed 192.1 pounds of total CVOCs from the aqueous phase and 4,592.4 pounds of total CVOCs from the vapor phase.
- During the current reporting period (October 7 through December 31, 2022), the DPE System approximately removed 0.3 pounds of total CVOCs from the aqueous phase and 0.1 pounds of total CVOCs from the vapor phase.

3.3 NAPL

The existing NAPL recovery activities continue to reduce the volume of NAPL present in Site wells:

- Between December 2009 and October 7, 2022, approximately 61 gallons of NAPL were removed from Site wells.
- During the current reporting period (October 7 through December 31, 2022), approximately 2 gallons of NAPL were removed from Site wells.

4 IC/EC PLAN COMPLIANCE REPORT

4.1 REQUIREMENTS AND COMPLIANCE

Because contamination remains at the Site, ICs and ECs are required to protect human health and the environment. The IC/EC Plan describes the procedures for the implementation and management of all ICs and ECs at the site. The IC/EC Plan is a component of the ISMP and is subject to revision by the NYSDEC project manager.

This plan provides:

- A description of all IC/ECs on the Site;
- The basic implementation and intended role of each IC/EC;
- A description of the key components of the ICs set forth in the Environmental Easement;
- A description of the controls to be evaluated during each required inspection and periodic review;
- A description of plans and procedures to be followed for implementation of IC/ECs; and
- Any other provisions necessary to identify or establish methods for implementing the IC/ECs required by the site remedy, as determined by the NYSDEC project manager.

4.1.1 INSTITUTIONAL CONTROLS

A series of ICs is required by the AROD to: (1) implement, maintain and monitor Engineering Control systems; (2) prevent future exposure to remaining contamination; and (3) limit the use and development of the Site to restricted residential, commercial, and/or industrial uses only. Adherence to these ICs on the Site is required by the Environmental Easement and ISMP. ICs identified in the Environmental Easement may not be discontinued without an amendment to or extinguishment of the Environmental Easement.

- The property may be used for: restricted residential; commercial, and/or industrial uses as shown on Figure 3;
- All ECs must be operated and maintained as specified in the ISMP;
- All ECs must be inspected at a frequency and in a manner defined in the ISMP;
- The use of groundwater underlying the property is restricted as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH or the Tompkins County Department of Health;
- Groundwater and other environmental or public health monitoring must be performed as defined in the ISMP;
- Data and information pertinent to site management must be reported at the frequency and in a manner as defined in the ISMP;
- All future activities that will disturb remaining contaminated material must be conducted in accordance with the ISMP;
- Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in the ISMP;
- Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical component of the remedy shall be performed as defined in the ISMP;
- Access to the Site must be provided to agents, employees or other representatives of the State of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified by the Environmental Easement;
- The potential for soil vapor intrusion must be evaluated for any occupied buildings, existing or new, within the IC boundaries noted on Figure 4, and any potential impacts that are identified must be monitored or mitigated;
- Vegetable gardens shall be performed in raised beds following approval of the NYSDEC. Farming on the Site is prohibited, unless indoors such as a hydroponic growing operation;
- Should a building foundation or building slab be removed in the future, a cover system will be placed in any areas where the upper two feet of exposed surface soil exceed the applicable SCOs in the restricted residential area of the Site, and the upper 1 foot of exposed soil exceeds the applicable SCO in the commercial and industrial areas of the Site;

- Complete and submit to the NYSDEC a periodic certification of ICs and ECs in accordance with Part 375-1.8 (h)(3); and
- An evaluation shall be performed to determine the need for further investigation and remediation should large scale redevelopment occur, if any of the existing structures are demolished, or if the subsurface is otherwise made accessible. If new areas of contamination are identified after demolition of existing structures and/or removal of building slabs, the nature and extent of contamination in such areas where access was previously limited or unavailable will be immediately and thoroughly investigated pursuant to either an amended Excavation Work Plan or another NYSDEC-approved work plan. Citizen Participation Plan activities will continue, as necessary, through this process. Any required remediation will be completed prior to or in association with redevelopment.

A site-wide inspection was performed on April 11, 2023[1], to evaluate compliance with the ICs, including site use, to document the general site conditions at the time of the inspection and to evaluate compliance with requirements of the ISMP and the Environmental Easement. The results of the annual inspection are documented on the Annual Site-Wide Inspection Form (Appendix D).

Based on the results of the site inspection, the ICs are in place and have been complied with, including compliance with the Environmental Easement and the ISMP. No deficiencies were identified with respect to the ICs, and no changes to the ICs are recommended at this time.

4.1.2 ENGINEERING CONTROLS

The ECs included in the ISMP for the Site consist of cap and cover systems, DPE system, NAPL monitoring and recovery, sub-slab depressurization system(s), and re-routing and monitoring of groundwater seeps.

CAP AND COVER SYSTEMS

A cover system, installed in AOCs where soil remained above direct contact SCOs (restricted residential, commercial, industrial), is comprised of a minimum of 2 feet of clean fill in AOCs designated for future restricted residential use (AOCs 31, 32, 34, 35A, 35D, 35H, 35K, and 35L), and 1 foot of clean fill in AOCs designated for future commercial use (AOCs 28 and 29) and industrial use (AOC 30). The cover system is comprised of imported backfill (NYSDOT Item 4 gravel) installed to a depth of 6 inches below the original ground surface followed by imported topsoil to the original ground surface, with the exception of AOC 29 which did not receive topsoil based on plans for redevelopment as a paved parking lot. A demarcation layer was installed across the base of the excavations that were not excavated to bedrock before backfilling (AOCs 29, 30, 31, 32, 34, 35A, 35D, 35H, 35K, and 35L).

Portions of existing concrete and asphalt roadways serve as cover systems above remaining contamination in several AOCs. In AOCs 29, 31, 32, 34, 35A, and 35H, the asphalt roadway serves as a cover where documentation samples exceeded direct contact SCOs for metals, cyanide, or PAHs. In AOC 35C, the concrete slab in Building 11A serves as a cover where documentation samples exceeded the direct contact SCO for PAHs. In general, no excavation was performed below concrete or asphalt in which soil exceeded restricted residential, commercial, or industrial SCOs.

A low-permeability cap was installed in AOC 1 where soil remained at concentrations above the PoG SCO for CVOCs after excavation to a depth of 3 feet. The cap was designed to minimize infiltration and potential migration of CVOCs in deeper soils that could not be safely excavated during the Soil IRM activities due to the presence of active utilities (water, gas, electric, and storm/sanitary sewers). Following completion of excavation and sampling, a demarcation layer was installed across the base of the excavation in AOC 1 at a depth of 3 feet below ground surface (bgs). The excavation was backfilled with imported backfill (NYSDOT Item 4 gravel) that was placed and compacted to a depth of 1-foot bgs, followed by installation of a low-permeability cap consisting of a geosynthetic clay liner, 6 inches of aggregate base, and a 6-inch thickness of asphalt pavement. The asphalt consisted of 4 inches of asphalt base course and 2 inches of asphalt wearing course separated by a geotextile interlay to minimize the potential for cracking.

An annual site inspection was performed on April 11, 2023, to evaluate the continued effectiveness of the cap and cover systems. The results of the annual inspection are documented in Section 2A of the Annual Site-Wide Inspection Form (Appendix D). During the inspection, the topsoil/vegetation, gravel/riprap, and asphalt pavements comprising the cover

[1] The site-wide inspection could not be performed during the reporting period due to pandemic-related travel limitations and weather-related considerations (i.e., possibility of snow cover during the fall/winter 2022).

systems appeared to be in good condition. No cracks or other penetrations were observed in the asphalt that comprises the top layer of the AOC 1 cap. No excavation activities or evidence of other disturbance were observed within the cap or cover system areas during the reporting period.

The cap and cover systems continue to perform as designed and remain effective in protecting human health and the environment. No deficiencies were identified with respect to the cap and cover systems and no changes to the cap and cover systems are recommended at this time.

DPE SYSTEM

A DPE and treatment system began operating at the Site in OU-1 in January 2009, and was expanded in 2016, as an IRM to remove VOCs from vapor and groundwater below the former FWR, in OU-1 (Figure 5). The System was designed to meet the following objectives:

- intercept contaminated groundwater flow from the highly fractured and interconnected bedrock (B-zone) and from the horizontal bedding plane fractures at the base of the C-zone between 515 and 518 feet amsl.
- reduce the concentrations of VOCs in the subsurface by extracting both aqueous and vapor phases for treatment.

The system currently consists of 12 groundwater and vapor extraction wells containing pneumatic pumps to recover groundwater. An air compressor located in the treatment building supplies pressurized air to the pneumatic pumps that facilitates removal of groundwater from the extraction wells. The air exhaust tube is vented to the vapor recovery system within the extraction well. Groundwater pumped from the wells is conveyed to a 1,000-gallon equalization holding tank located inside the treatment building. Once the equalization tank fills to approximately 850 gallons, the water is pumped through a series of six bag filters to eliminate suspended solids. Following the bag filtration units, the water is conveyed to a low-profile tray air stripper equipped with a sump, discharge pump, and blower. After treatment by the low-profile tray air stripper, the water is pumped through two 250-pound liquid phase granular activated carbon (GAC) units. In addition, the vapor stream from the air stripper is treated by two vessels of vapor phase GAC in series before being discharged to the atmosphere. The treated water effluent is then discharged via a 4-inch diameter pipe to the weir box where it combines with Open Ditch 2 water and discharges to existing Outfall No. 001 in accordance with the State Pollutant Discharge Elimination System (SPDES) permit equivalent (Appendix E).

The groundwater remedy for AOC 1 CVOCs consists of additional extraction and expansion of the existing OU-1 IRM DPE system into AOC 1. Two B-zone extraction wells (EW-13 and EW-14) were installed in November 2022. A conveyance system along with other ancillary components will be installed in 2023.

An annual site inspection was performed on April 11, 2023, to evaluate the continued effectiveness of the DPE System. The results of the annual inspection are documented in Section 2B of the Annual Site-Wide Inspection Form (Appendix D). Overall, the annual inspection indicated that the DPE System was performing as designed and appeared to be well-maintained.

NAPL MONITORING AND RECOVERY

NAPL monitoring is performed for groundwater wells that are known to contain free product which include MW-8B, MW-50-160D (replacement of HISTWELL-1), LBA-MW-39, and LBA-MW-35. Passive free product recovery is performed in wells where NAPL was identified. Free product surveillance monitoring in AOC 1 wells MW-47A-AOC-1, MW-48A-AOC-1, and MW-49A-AOC-1 began in October 2019. No free product was detected in these wells until the week of September 19, 2022 (before the current PRR reporting period), when free product was detected in MW-47A-AOC-1 while evaluating water levels. After NYSDEC notification, surveillance monitoring of MW-47A-AOC-1 resumed and passive recovery was initiated using absorbent socks.

A NAPL monitoring and recovery system is currently being evaluated for Building 4.

SUB-SLAB DEPRESSURIZATION SYSTEM

While there are no existing active sub-slab depressurization systems operating at the Site, the AROD requires mitigation of impacts from the potential for soil vapor intrusion into existing or future buildings onsite before they become occupied. Between October 7 and December 31, 2022, no buildings were occupied.

GROUNDWATER SEEPS

A pre-design study has been performed to develop the final remedy to address the groundwater seeps. The pre-design study report with recommendations for the final remedy will be issued in 2023.

4.2 GENERATED WASTES

Waste generated at the Site during this reporting period includes:

- 1 drum of personal protective equipment and plastic tubing from groundwater sampling activities

The hazardous waste manifest and land disposal restriction notification form are included in Appendix F.

4.3 IC/EC CERTIFICATION

The IC/EC Certification Form is provided in Appendix G.

5 MONITORING PLAN COMPLIANCE REPORT

5.1 MONITORING PLAN COMPONENTS

Monitoring activities were completed during the reporting period in accordance with the ISMP, with any exceptions discussed under Section 5.2. A summary of the monitoring program is presented below:

Monitoring Program	Frequency	Monitored
Site-wide Inspection	Annually	Overall Site Conditions and IC and EC Compliance
DPE System	Monthly and Quarterly	O&M on the DPE System is performed monthly and the DPE system is sampled quarterly
NAPL monitoring and recovery	Quarterly	MW-8B, LBA-MW-39, LBA-MW-35, MW-47A-AOC-1
Site-wide groundwater monitoring	Semi-Annual	ISMP Appendix J
SPDES Permit Equivalent Outfalls	Monthly and Quarterly	ISMP Appendix I

5.2 MONITORING COMPLETED DURING REPORTING PERIOD

5.2.1 SITE-WIDE INSPECTION

As discussed under the IC/EC Compliance Report (Section 4 of this PRR), a site-wide inspection was performed on April 11, 2022, to verify compliance with the ICs and to evaluate the continued effectiveness of the ECs. The results of the annual inspection are described under Section 4 of this PRR and are documented on the Annual Site-Wide Inspection Form (Appendix D).

5.2.2 DPE SYSTEM

MONITORING AND MAINTENANCE

General operation of the DPE System is monitored daily by WSP through a remote telemetry system. The remote telemetry system allows WSP to immediately act if there is a DPE System upset condition where non-routine maintenance is required. In addition, the DPE System is maintained monthly by a subcontractor in accordance with the ISMP DPE System O&M Plan. Monthly maintenance activities occurred on:

- October 7, 2022
- November 14, 2022
- December 7, 2022

The level of performance of the DPE System is determined from the DPE System operations and on the results of influent and effluent water and vapor sampling and analysis. The results of the quarterly performance samples collected on October 24, 2022 are discussed in the following subsections. The DPE System operational issues and corrective measures implemented during the reporting period are also discussed below.

OPERATING RESULTS

Operational parameters including system uptime and influent and effluent mass loadings are calculated using flow rates, motor hour readings, and sample results. These parameters are used to determine system effectiveness and efficiency. The following bullets summarize system performance for the reporting period of October 7 through December 31, 2022:

- System maintenance was required during the reporting period and the vapor phase portion of the DPE System was operational for 99 percent of the reporting period (Table 2).
- The vapor phase portion operated for a total of 2,040 hours with 13 hours of downtime for planned/unplanned maintenance and sampling activities during the reporting period (Table 2).
- The system extracted a total of 31,611 gallons of groundwater at an average pumping rate of 0.36 gallons per minute (approximately 518 gallons per day) over the reporting period (Table 3). The total estimated VOC mass removal from the aqueous phase was approximately 0.31 pounds (Table 3) over the reporting period.
- Four site-related CVOCs were detected in influent water samples during the reporting period including Vinyl Chloride, TCE, trans-1,2-Dichloroethene (DCE), and cis-1,2-DCE (Table 4).
- The system extracted an estimated total of 3.18×10^7 standard cubic feet of vapor based on an average system flow capacity of 260 standard cubic feet per minute over the operating duration. The total estimated VOC mass removal from the vapor phase (sum of individual VOC compounds detected in the vapor stream) for this reporting period was approximately 0.1 pounds (Table 5).
- Two site-related CVOCs were detected in the influent vapor samples during the reporting period including cis-1,2-DCE and TCE (Table 6).
- Since the start of the ISMP DPE System on October 7, 2022, approximately 0.41 pounds of VOCs have been removed from the combined aqueous and vapor phases. To date, approximately 0.31 pounds have been removed from aqueous phase extraction and 0.1 pounds from vapor phase extraction.
- The analytical laboratory reports are included in Appendix H.

PREVENTIVE MAINTENANCE

Planned operational shutdowns included routine O&M conducted by subcontractor Groundwater and Environmental Services, Inc. (GES) and WSP which corresponded to a total planned downtime of approximately 3 hours (Table 2).

DPE SYSTEM CORRECTIVE MAINTENANCE AND UNPLANNED SHUTDOWNS

During the reporting period, one unplanned shutdown required corrective maintenance to the DPE System and resulted in a total of 10 hours of unplanned system downtime (Table 1). The corrective maintenance was performed by GES under the direction of WSP. The maintenance activities include:

- On November 1, the DPE System air compressor low-pressure alarm was activated which shut down the DPE System. The air compressor was reset and tested, resulting in a total of 10 hours of an unplanned shutdown.

DPE SYSTEM MONITORING RESULTS

AQUEOUS PHASE SAMPLING

Aqueous phase sampling is conducted on a quarterly basis at four locations along the treatment process – system influent, post-air stripper, mid-point between the two carbon vessels, and post-carbon treatment (effluent discharge location). During the PRR reporting period, only one quarterly event was conducted in October 2022. Of the four CVOCs detected in the influent aqueous sample, only cis-1,2-DCE (3.0 µg/l) was detected in the DPE System aqueous effluent sample (Table 4). Low levels of cis-1,2-DCE have been historically observed in the DPE System effluent samples.

VAPOR PHASE SAMPLING

Vapor phase sampling is conducted on a quarterly basis at two locations along the treatment process – influent and post-carbon treatment. CVOCs were detected in the DPE System vapor emissions (Table 6); however, the emissions were within the allowable NYSDEC emissions guidance (ISMP, Appendix H – O&M Plan, Appendix H – Guidance for Air Emissions Compliance). The CVOCs that were detected in the vapor effluent include cis-1,2-DCE (0.0064 part per million by volume (ppmv)), TCE (0.0095 ppmv), and Vinyl Chloride (0.0015 ppmv).

WSP used the EPA AERSCREEN model following NYSDEC guidance and selected TCE since it has the most stringent emissions controls. Based on the model, TCE emissions must be equal to or less than 4.4 ppmv from the discharge stack of the treatment system (after carbon treatment). Once the between carbon vessel concentration for TCE exceeds 4.4 ppmv, both vapor carbon vessels will be changed out with new virgin granular activated carbon. The carbon shall be immediately changed if the TCE emissions are equal to or greater than 44 ppmv.

DPE SYSTEM EFFECTIVENESS GROUNDWATER MONITORING

Semi-annual groundwater sampling to monitor DPE and treatment system effectiveness was performed in December 2022. Monitoring wells listed in the DPE O&M Sampling Plan instead of the ISMP were sampled during this event. Beginning in 2023, groundwater samples to monitor system effectiveness will be collected in accordance with Table 7 (which is a combination of Tables 2.1, 2.2, and 2.3 in the ISMP Monitoring and Sampling Plan Appendix J).

A summary of the December 2022 groundwater sampling event follows:

- Groundwater depth measurements taken during the sampling event (pumping conditions) are presented in Table 8, and groundwater elevations are shown on Figures 7, 8, and 9.
- Groundwater sample results are presented in Table 9 and shown on Figures 10, 11, and 12.
- The sampling results for new extraction wells EW-13 and EW-14 are also shown on Table 9.
- Historical CVOC results and metals/cyanide results are provided in Tables 10 and 11.
- The distribution of CVOC-affected groundwater is provided in updated plume diagrams on Figures 13, 14, and 15.
- Trend monitoring graphs (i.e., micromoles vs. time) that present groundwater results before the remedy implementation compared to the most current sampling results are included in Appendix I.
- The analytical laboratory reports are included in Appendix H, the Data Usability and Summary Reports are included in Appendix J, and monitoring well purge records are included in Appendix K.

The results of the December 2022 groundwater sampling event indicate that the plume of CVOC-affected groundwater is fully defined and is currently being captured and treated by the onsite hydraulic containment system. Results from MW-32B (29 µg/l CVOCs) indicate that the C-zone groundwater is discharging to the downgradient overlying B-zone; however, drawdown measurements (i.e., at EXB-07) collected during pumping conditions have historically shown C-zone capture within the C-zone to B-zone discharge area. Based on the groundwater sampling results, updated plume maps, and the trend analyses in Appendix I, the DPE System continues to be an effective remedy for groundwater in the vicinity of the former fire water reservoir by containing CVOC-affected groundwater in both the B-zone and C-zone and from the discharge zone located downgradient of the fire water reservoir.

5.2.3 NAPL MONITORING AND RECOVERY

NAPL thickness measurements were collected on December 12, 2022, at the following locations MW-8B, LBA-MW-35, LBA-MW-39, and MW-47A-AOC-1.

- MW-8B: No NAPL was detected during the December event, 0.43 gallons of NAPL was recovered.
- LBA-MW-35: No NAPL was detected during the December event, 0.49 gallons of NAPL was recovered.
- LBA-MW-39: NAPL was measures with an apparent thickness of 0.02-feet, 0.45 gallons of NAPL was recovered.
- MW-47A-AOC-1: NAPL was measures with an apparent thickness of 0.03-feet, 0.58 gallons of NAPL was recovered.

Between the period of October 7 and December 31, 2022, a total of 1.95 gallons of NAPL was recovered from the Site.

5.2.4 SITE-WIDE GROUNDWATER MONITORING

No site-wide groundwater monitoring activities were performed during this PRR reporting period. Beginning in 2023, site-wide groundwater samples will be collected in accordance with the ISMP Monitoring and Sampling Plan (Appendix J, Table 2.2). The ISMP site-wide groundwater sampling wells are presented in Figure 6.

During a recent sampling event, it was noted that well LBA-MW-19 had been previously abandoned and well LBA-MW-13 had been damaged. Both wells were originally included in the site-wide cyanide monitoring program described in the ISMP. A replacement well will be installed to replace LBA-MW-19 to monitor cyanide in groundwater downgradient of the former cyanide storage area. The NYSDEC has agreed that LBA-MW-13 does not need to be replaced; however, well WSP-MW-08B will be added to the cyanide monitoring program.

5.2.5 SPDES PERMIT EQUIVALENT OUTFALLS

Emerson began complying with the SPDES permit equivalent on September 7, 2022, which is the date when the existing SPDES permit for the Site (NY 0002933) was terminated by the NYSDEC, Division of Environmental Permits. In compliance with the SPDES permit equivalent (Appendix E), water discharge samples were collected from the following outfalls, which are shown on Figure 2:

Outfall No.	Description	Dates Sampled During PRR Reporting Period
01A	Internal outfall where treated groundwater is monitored	October 14, 2022 November 14, 2022 December 19, 2022
001	Stormwater, groundwater seepage, and treated groundwater	October 14, 2022 November 14, 2022 December 19, 2022
009	Stormwater and groundwater seepage	December 19, 2022
011	Stormwater and groundwater seepage	October 14, 2022 November 14, 2002

The results for each outfall sampled from October through December 2022 were provided to the NYSDEC in WSP correspondence, dated November 2 and December 16, 2022, and January 20, 2023. Depending on the parameter, samples were analyzed either in the field or by offsite laboratories accredited under the New York State's Environmental Laboratory Approval Program. Analytical methods were approved under Title 40 Code of Federal Regulations Part 136. The sample results for each outfall are summarized in Tables 12 through 15 and discussed below.

OUTFALL 01A

Outfall 01A is an internal outfall of the groundwater remediation treatment system located in OU-1 (Figure 2). Treated groundwater is batch discharged to Outfall 01A, which then discharges to Outfall 001. Monthly discharge samples were collected from Outfall 01A in October through December 2022, and analyzed for flow, pH, temperature, specific VOCs, and free cyanide. No discharge limits were exceeded during the reporting period (Table 12). The only compound detected in Outfall 01A samples during the reporting period was cis-1,2-DCE at concentrations ranging from 2.7 to 3.2 µg/l, which are below the discharge limit of 10 ug/l.

OUTFALL 001

Outfall 001, which is located in OU-1, receives treated groundwater from Outfall 01A, groundwater seepage from Building 18 via Outfall 004, and stormwater from the north central part of the Site and groundwater seepage via Outfall 005 (Figure 2). Outfall 001 discharges to a storm sewer and then to Six Mile Creek. Monthly discharge samples were collected in October through December 2022, and analyzed for flow, pH, total lead, tetrachloroethene (PCE), and TCE (Table 13). Samples were also analyzed for free cyanide in October and December 2022, and total barium in December 2022. No PCE or

TCE were detected in any of the samples. Barium, which does not have a discharge limit, was detected at a concentration of 57.1 µg/l. Lead was detected in one of the three samples at 12 µg/l, which exceeds the discharge limit of 7.4 µg/l. The source of the elevated lead is unknown. Lead concentrations in Outfall 001 samples collected from January through July 2023 have all been below the discharge limit.

OUTFALL 009

Outfall 009 is located in OU-2 (Figure 2). Discharges from Outfall 009 consist of groundwater seepage and stormwater from the south central part of the Site. Outfall 009 discharges to a storm sewer, then to an unnamed tributary, and then to Six Mile Creek. A quarterly sample was collected from Outfall 009 in December 2022 that was analyzed for free cyanide (Table 14). No free cyanide was detected in the sample.

OUTFALL 011

Outfall 011, which is located in OU-1, receives stormwater from the northeastern part of the Site and groundwater seepage via the "Open Ditch 1 Bypass"(Figure 2). Outfall 011 discharges to a storm sewer and then to Six Mile Creek. As required in the Schedule of Compliance for Cyanide in the SPDES permit equivalent, discharges from Outfall 011 were sampled monthly for free cyanide until three samples were collected starting in September 2022. Similar to the September 2022 sample, no free cyanide was detected in the samples collected from Outfall 011 in October and November 2022 (Table 15). In correspondence to the NYSDEC, dated January 17, 2023, WSP provided all three free cyanide results for Outfall 011. WSP indicated in the letter that Emerson met the requirements of the Schedule of Compliance for Cyanide as it pertains to Outfall 011, and therefore, no additional sampling of Outfall 011 was required to be conducted per the SPDES permit equivalent.

5.3 COMPARISONS WITH REMEDIAL OBJECTIVES

Evaluation of the performance and groundwater monitoring data indicates the IC/EC has demonstrated progress toward the attainment of the remedial objectives. As the complete achievement of the remedial objectives has not been reached, continued implementation of the IC/EC's will be necessary during 2023.

5.4 MONITORING DEFICIENCIES

No monitoring deficiencies were identified during the reporting period.

5.5 CONCLUSIONS AND RECOMMENDATIONS FOR CHANGES

Based on the monitoring completed during the reporting period, the DPE System and NAPL recovery efforts continue to be effective in removing CVOCs and NAPL from the subsurface. Therefore, no changes are recommended to the monitoring plan.

For future PRRs, the groundwater elevation contour maps specified in the ISMP will be replaced with drawdown maps to better represent groundwater containment.

6 O&M PLAN COMPLIANCE REPORT

6.1 O&M PLAN COMPONENTS

6.1.1 DPE SYSTEM

DPE System O&M consists of routine monthly, quarterly, semi-annual, annual, and biennial maintenance. In addition, specific equipment maintenance is spread out throughout the year to ensure equipment is properly maintained.

	January	February	March	April	May	June	July	August	September	October	November	December
Routine Monthly Maintenance	X	X	X	X	X	X	X	X	X	X	X	X
Specific Equipment Monthly Maintenance	X	X	X	X	X	X	X	X	X	X	X	X
Routine Quarterly Maintenance	X			X			X			X		
Routine Semi-Annual Maintenance		X						X				
Routine Annual Maintenance			X									
Routine Biennial Maintenance					X							
Specific Equipment Maintenance												
Air Compressor Quarterly			X			X			X			X
Air Compressor Semi-Annual	X						X					
Replace Bag Filters		X			X			X			X	
Vacuum Blower Semi-Annual					X						X	
Vacuum Blower Annual					X							
Equalization Tank Annual		X										
Equalization Tank Biennial		X										
Process and Discharge Flow Meters			X							X		
Clean Bag Filter Housing									X			
Clean Air Stripper Trays and Housing								X				
Well Vault Maintenance						X						
Building and Equipment Cleaning Semi-Annual							X					
Building Cleaning Biennial		X										

6.1.2 NAPL RECOVERY

The NAPL recovery consists of the removal of an oil-only absorbent sock, measurement of NAPL thickness and redeployment of an oil-only absorbent sock in each NAPL monitoring and recovery location. O&M activities consist of the following:

Location	Monitor	Activity	Frequency
MW-8B	NAPL	Spent Sorbent Removal	Quarterly
MW-8B	NAPL	NAPL Measurement	Quarterly
MW-8B	NAPL	Sorbent Deployment	Quarterly
LBA-MW-35	NAPL	Spent Sorbent Removal	Quarterly
LBA-MW-35	NAPL	NAPL Measurement	Quarterly
LBA-MW-35	NAPL	Sorbent Deployment	Quarterly
LBA-MW-39	NAPL	Spent Sorbent Removal	Quarterly
LBA-MW-39	NAPL	NAPL Measurement	Quarterly
LBA-MW-39	NAPL	Sorbent Deployment	Quarterly
MW-47A-AOC-1	NAPL	Spent Sorbent Removal	Quarterly
MW-47A-AOC-1	NAPL	NAPL Measurement	Quarterly
MW-47A-AOC-1	NAPL	Sorbent Deployment	Quarterly

6.2 O&M COMPLETED DURING REPORTING PERIOD

6.2.1 DPE SYSTEM

O&M visits were performed during the reporting period on October 7, November 14, and December 7, 2022, to ensure proper operation of the DPE System. The DPE System was operational during the reporting period except when it was turned off to perform maintenance. During each O&M visit, operating parameters associated with the DPE System equipment and extractions wells were recorded on an O&M checklist (Appendix L). DPE System maintenance was completed in accordance with the ISMP O&M Plan (ISMP Appendix H).

6.2.2 NAPL RECOVERY

O&M visits were performed during the reporting period on December 12, 2022, to monitor the thickness and perform NAPL recovery in monitoring locations MW-8B, LBA-MW-35, LBA-MW-39, and MW-47A-AOC-1.

6.3 EVALUATION OF REMEDIAL SYSTEMS

6.3.1 DPE SYSTEM

The operating parameters for the DPE system equipment and extraction wells were generally consistent with the optimal operating conditions specified in the O&M Plan. Overall, the DPE System operated as designed and continues to be effective.

6.3.2 NAPL RECOVERY

Passive NAPL recovery continues to be effective using oil-only absorbent socks deployed in the monitoring wells. Overall, the NAPL recovery efforts operated as designed and continues to be effective.

6.4 O&M DEFICIENCIES

Minor deficiencies with respect to the O&M plan were documented during the reporting period; however, these deficiencies did not affect the overall performance of the systems.

6.5 CONCLUSIONS AND RECOMMENDATIONS FOR IMPROVEMENTS

The DPE System and NAPL monitoring and recovery efforts are performing as designed and continue to be effective. No recommendations for improvements are suggested at this time.

7 OVERALL PRR CONCLUSIONS AND RECOMMENDATIONS

7.1 COMPLIANCE WITH ISMP

Based on the results of the annual site inspection and other data gathered during the reporting period, the requirements of the IC/EC, monitoring, and O&M plans were met.

7.2 PERFORMANCE AND EFFECTIVENESS OF REMEDY

Based on an evaluation of the information gathered during implementation of the ISMP, the DPE System and NAPL monitoring and recovery efforts are performing as designed.

7.3 FUTURE PRR SUBMITTALS

The next PRR will be submitted in April 2024. No changes to the PRR reporting schedule are recommended at this time.

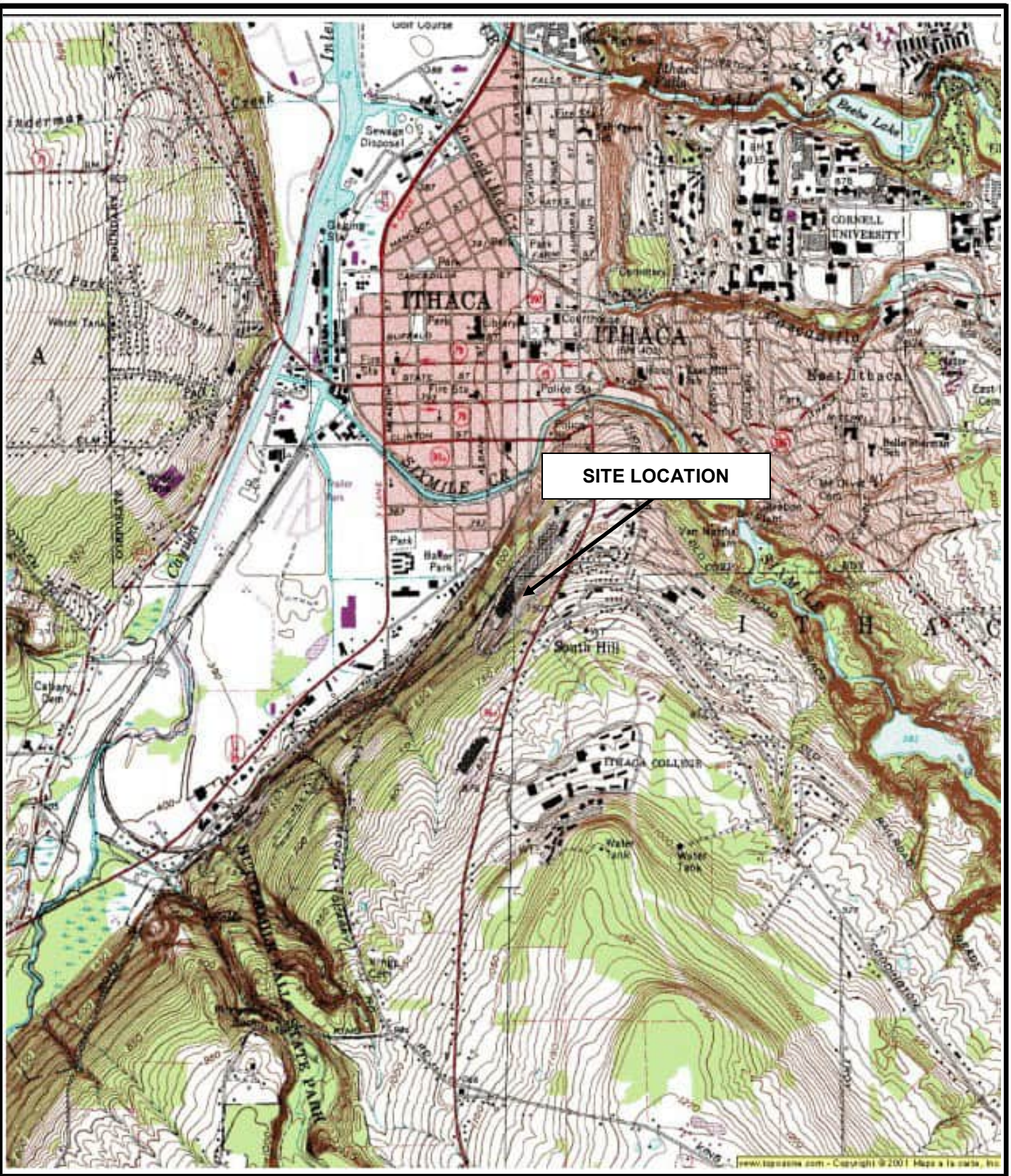
FIGURES

DWG. Name: 31401515.0001-Figure 1

Checked: JRB 10/18/21
Approved: BAP 10/18/21

Drawn By: RLD 10/15/21

A



REFERENCE:
7.5 MINUTE SERIES TOPOGRAPHIC QUADRANGLE
ITHACA, NEW YORK 1976
SCALE 1:24,000



QUADRANGLE LOCATION

N

0 1000 2000 4000

SCALE, FEET

WSP USA Inc.
13530 DULLES TECHNOLOGY DR.
SUITE 300
HERNDON, VA 20171
TEL: +1 703.709.6500

FIGURE 1

SITE LOCATION

FORMER EMERSON POWER TRANSMISSION
ITHACA, NEW YORK
PREPARED FOR
EMERSON

LEGEND

- A HYDROGEOLOGIC ZONE WELL
- A/B HYDROGEOLOGIC ZONES WELL
- B HYDROGEOLOGIC ZONE WELL
- B/C HYDROGEOLOGIC ZONES WELL
- C HYDROGEOLOGIC ZONE WELL
- D HYDROGEOLOGIC ZONE WELL
- EXTRACTION WELL
- PRODUCT SURVEILLANCE WELL
- ABANDONED WELL
- OUTFALL
- SEEP
- 34 BUILDING NUMBER
- PROPERTY BOUNDARY
- SIXMILE CREEK (INTERPRETATION BASED ON GOOGLE EARTH)
- INTERMITTENT FLOW
- IRM EXTRACTION AND CONVEYANCE PIPE
- IRM DISCHARGE PIPE

LEGEND

- W WATER LINE
- ST STORM SEWER LINE
- SANITARY SEWER LINE
- GAS GAS LINE
- FO FUEL OIL LINE
- OU-1 BOUNDARY
- OU-2 BOUNDARY
- AOC LIMITS

NCR SANITARY SEWER

LATERAL

STONE WALL

STONE WALL AND BARB WIRE FENCE

AOC 31

AOC 29
FORMER PROPANE STORAGE AREA

AOC 28

AOC 30

AOC 35L

AOC 35K

AOC 35D

AOC 35A

AOC 26 (INTERIOR)

AOC 26 (EXTERIOR)

AOC 35C

AOC 34

AOC 27

AOC 1

AOC 32 (UPPER)

AOC 32 (LOWER)

AOC 35J

AOC 35H

AOC 32

OUTFALL 000

OUTFALL 001

OUTFALL 004

OUTFALL 005

OUTFALL 011

OUTFALL 014

TOWN OF ITHACA

CITY OF ITHACA

SOUTH AURORA STREET

SOUTH CAYUGA STREET

TURNER PLACE

LINDEN AVENUE

LINCOLN PLACE

WILLOW AVENUE

SOUTH ALBANY STREET

SOUTH TIOGA AVENUE

NORTH TIOGA AVENUE

SOUTH GEORGE STREET

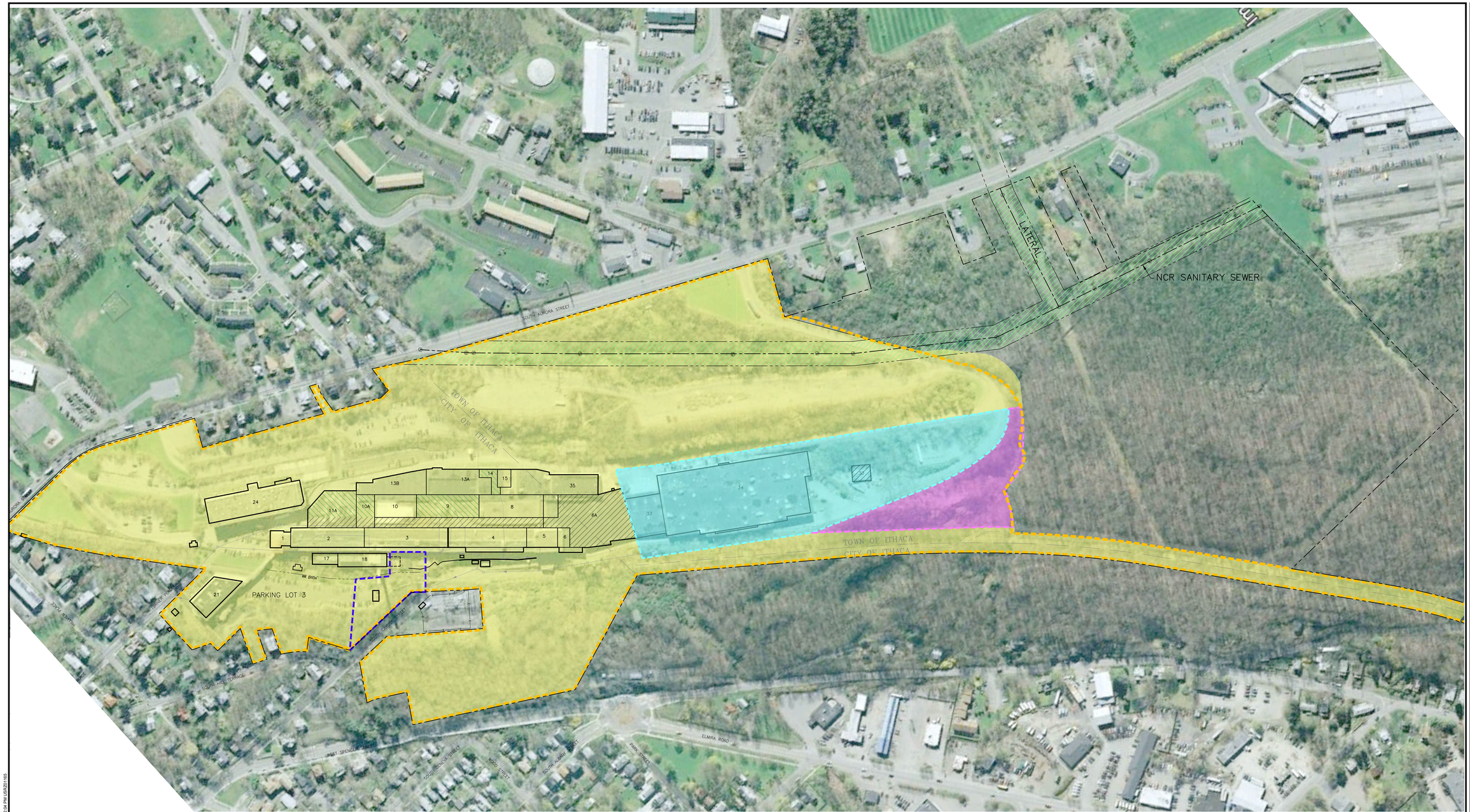
WOOD STREET

PARK STREET

ELMIRA ROAD

SIXMILE CREEK

MW-16C
MW-16B/C
MW-17B
MW-18B
MW-24B/SUP
MW-12C
MW-13C
MW-9B
MW-12B
MW-15C
MW-5-100
MW-5-45
MW-8B
MW-5-25
EW-12-45C/EXB-02
EW-14
MW-17A
EW-13
MW-8A
AOC 1
MW-11B
MW-49A
MW-50-110D
FWR-CRS
FWR-PZ
EW-11-43/MW-18C
MW-46-43C
MW-46-72C
MW-7B
MW-36B
EW-9R-72C
EXB-01
EW-9-60C /EXB-08
FORMER FIREWATER RESERVOIR
SUMP
18
OUTFALL 005
MW-3B
MW-34B
MW-35B
WOODEN SLUICE
HDPE PIPE
WEIR BOX SEEPS
CONCRETE WEIR BOX
OUTFALL 001
AOC 32
CORRUGATED PIPE
EW-5-25B
EW-6-60C/EW-03
EW-7-25B
EW-10-25B
MW-2B
MW-3-13
MW-3B
EW-9-62C/EXB-06
MW-3-100
EW-01B
EW-2-25B
EW-3-60C/EW-02
EW-1-62C/EXB-05
OUTFALL 011
OUTFALL 014
MW-1B
MW-1
EW-2-62C/EW-01
SEE SYSTEM TREATMENT BUILDING
MANHOLE
RETAINING WALL SUMP
RAILROAD FOOTBRIDGE
MW-4B
EXB-10
MW-6-100
MW-6B
MW-12B
MW-15
MW-16
MW-17
MW-18
MW-19
MW-20
MW-21
MW-22
MW-23
MW-24
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MW-34
MW-35
MW-36
MW-37
MW-38
MW-39
MW-40
MW-41
MW-42
MW-43
MW-44
MW-45
MW-46
MW-47
MW-48
MW-49
MW-50
MW-51
MW-52
MW-53
MW-54



LEGEND

34	BUILDING NUMBER
	EASEMENT FOR NCR SEWER
	SANITARY SEWER
	PROPERTY BOUNDARY
	BOUNDARY FOR OU–1 (RETAINED PROPERTY)
	BOUNDARY FOR OU–2

LEGEND

	AREA WHERE RESTRICTED RESIDENTIAL USE SOCs ARE APPLIED
	AREA WHERE COMMERCIAL USE SCOs ARE APPLIED
	AREA WHERE INDUSTRIAL USE SCOs ARE APPLIED
	PROPOSED DEMOLITION AREA FOR GREEN SPACE
	PROPOSED DEMOLITION AREA FOR ROADWAY/PARKING

N

150 0 150 300

SCALE, FEET

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REVISIONS

REV	DESCRIPTION	Date:	Appr.:
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2	Revised		
3	Revised		

SEAL

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CHECKED	JRB	5/31/2023
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ITHACA, NEW YORK

PREPARED FOR
EMERSON
ST. LOUIS, MISSOURI

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TEL: +1 412.604.1040

FIGURE 3

Drawing Number

314P5608.001–D23

NYSDOH
SOIL VAPOR / INDOOR AIR MATRICES
MAY 2017

MATRIX A: Trichloroethene (TCE), cis-1,2-Dichloroethene (cis-1,2-DCE), 1,1-Dichloroethene (1,1-DCE) Carbon Tetrachloride (CT)

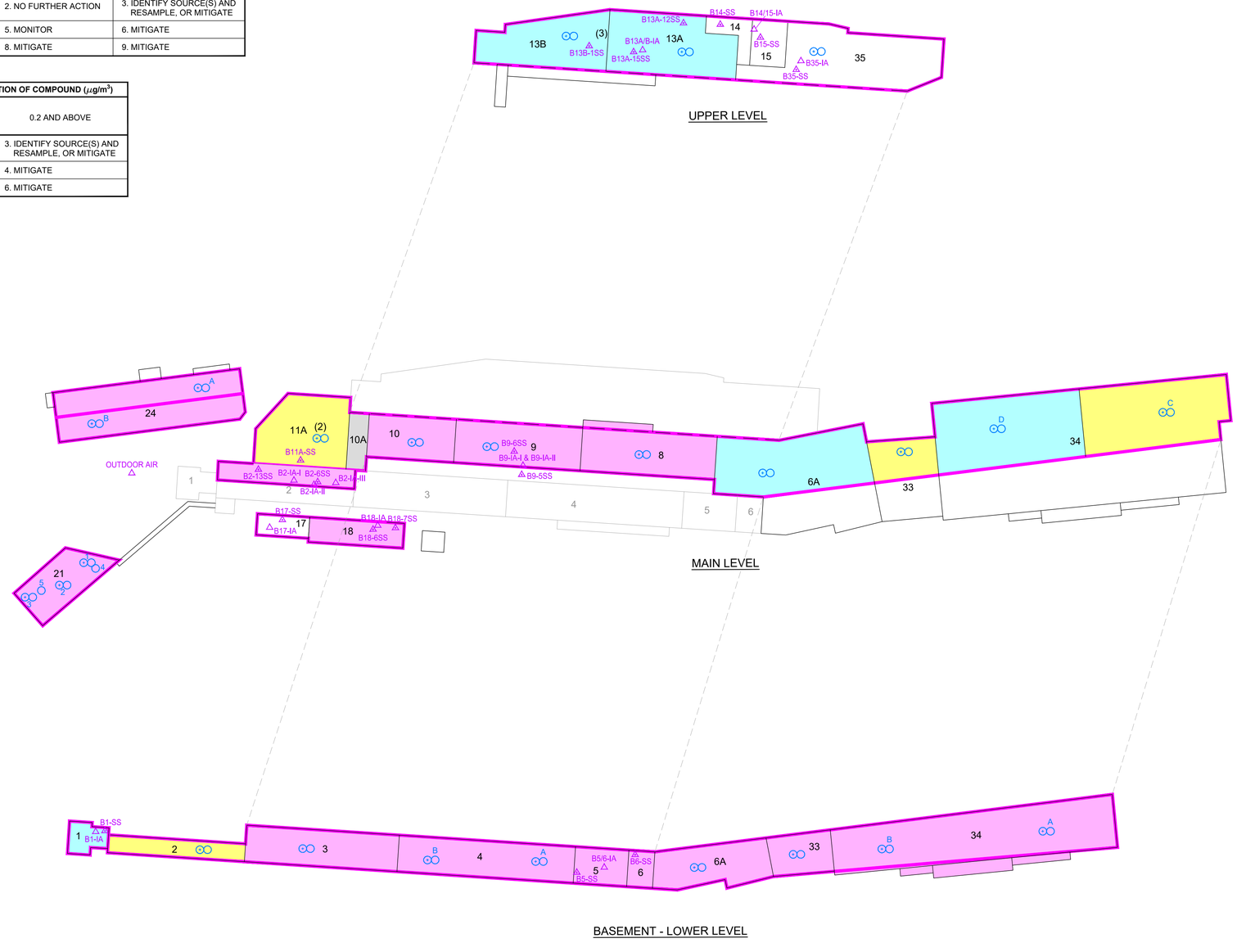
	INDOOR AIR CONCENTRATION OF COMPOUND ($\mu g/m^3$)		
SUB-SOIL VAPOR CONCENTRATION OF COMPOUND (mcg/m^3)	< 0.2	0.2 to < 1	1 AND ABOVE
< 6	1. NO FURTHER ACTION	2. NO FURTHER ACTION	3. IDENTIFY SOURCE(S) AND RESAMPLE, OR MITIGATE
6 to < 60	4. NO FURTHER ACTION	5. MONITOR	6. MITIGATE
60 AND ABOVE	7. MITIGATE	8. MITIGATE	9. MITIGATE

MATRIX B: Tetrachloroethene (PCE), 1,1,1-Trichloroethane (1,1,1-TCA), Methylene Chloride

	INDOOR AIR CONCENTRATION OF COMPOUND ($\mu g/m^3$)		
SUB-SOIL VAPOR CONCENTRATION OF COMPOUND (mcg/m^3)	< 3	3 to < 10	10 AND ABOVE
< 100	1. NO FURTHER ACTION	2. NO FURTHER ACTION	3. IDENTIFY SOURCE(S) AND RESAMPLE, OR MITIGATE
100 to < 1,000	4. NO FURTHER ACTION	5. MONITOR	6. MITIGATE
1,000 AND ABOVE	7. MITIGATE	8. MITIGATE	9. MITIGATE

MATRIX C: Vinyl Chloride

	INDOOR AIR CONCENTRATION OF COMPOUND ($\mu g/m^3$)	
SUB-SOIL VAPOR CONCENTRATION OF COMPOUND (mcg/m^3)	< 0.2	0.2 AND ABOVE
< 6	1. NO FURTHER ACTION	3. IDENTIFY SOURCE(S) AND RESAMPLE, OR MITIGATE
6 to < 60	4. MONITOR	4. MITIGATE
60 AND ABOVE	5. MITIGATE	6. MITIGATE



LEGEND

- WSP INDOOR AIR SAMPLE
- WSP SUB–SLAB SOIL GAS SAMPLE
- LABELLA INDOOR AIR SAMPLE
- LABELLA SUB–SLAB SOIL GAS SAMPLE
- 11A FACILITY BUILDING NUMBER
- SLAB ON GRADE
- NOT TESTED
- NO FURTHER ACTION
- IDENTIFY SOURCES AND RESAMPLE, OR MITIGATE
- MONITOR
- MITIGATE

NOTES:

1. POTENTIAL VAPOR MITIGATION HAS BEEN PRELIMINARILY IDENTIFIED FOR BUILDINGS 3, 4, 6A, 8, 10, 21, 24, 33, AND 34, DESPITE THE ABSENCE OF SUCH NEED PURSUANT TO THE MATRICES AT BUILDING 6A MAIN (IDENTIFY SOURCES AND RESAMPLE, OR MITIGATE), BUILDING 33 MAIN (MONITOR), AND BUILDING 34 MAIN (MONITOR). ADDITIONAL TESTING WILL BE UNDERTAKEN IN THESE AND OTHER BUILDINGS TO MORE THOROUGHLY CHARACTERIZE CONDITIONS PRIOR TO CONFIRMING THE NEED FOR AND DESIGN OF ANY MITIGATION SYSTEMS.

2. IN THE ABSENCE OF INDOOR AIR DATA WITH WHICH TO EVALUATE LABELLA'S SUB–SLAB SAMPLE RESULTS, THE HIGHEST CONSTITUENT CONCENTRATIONS REPORTED FOR INDOOR AIR SAMPLES COLLECTED IN BUILDING 2 WERE USED WITH THE MATRICES.

BUILDING 11A IS CURRENTLY SLATED FOR DEMOLITION AND SUBSEQUENT USE OF ITS FOOTPRINT FOR GREEN SPACE.

3. THE LABELLA DATA FOR BUILDING 13 SUGGEST THE NEED FOR "MONITORING". HOWEVER, THE WSP DATA FOR BUILDING 13A (WEST) INDICATE "NO FURTHER ACTION", WHILE DATA FOR BUILDING 13B (EAST) INDICATE THE NEED TO "MITIGATE". ADDITIONAL TESTING WILL BE PERFORMED IN THESE AREAS TO DETERMINE THE APPROPRIATE ACTION.

4. THE INDOOR AIR DATA FOR SAMPLES COLLECTED FROM LOCATIONS 4 AND 5 WERE USED IN CONJUNCTION WITH SUB–SLAB VAPOR DATA FOR LOCATIONS 1 AND 3.

DATA FOR INDOOR AIR SAMPLES COLLECTED FROM THE FIRST FLOOR ARE NOT PRESENTED BECAUSE THERE IS A BASEMENT ACROSS THE ENTIRE FOOTPRINT OF THE BUILDING.

100 0 100 200
SCALE, FEET

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1	Revised:	Appr.: Chkd:
2	Revised:	Appr.: Chkd:
3	Revised:	Appr.: Chkd:

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CHECKED: JRB 02/15/2023
APPROVED: SMR 02/15/2023

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INDOOR AIR AND SUB–SLAB EXCEEDENCES PRE–DECEMBER 31, 2022

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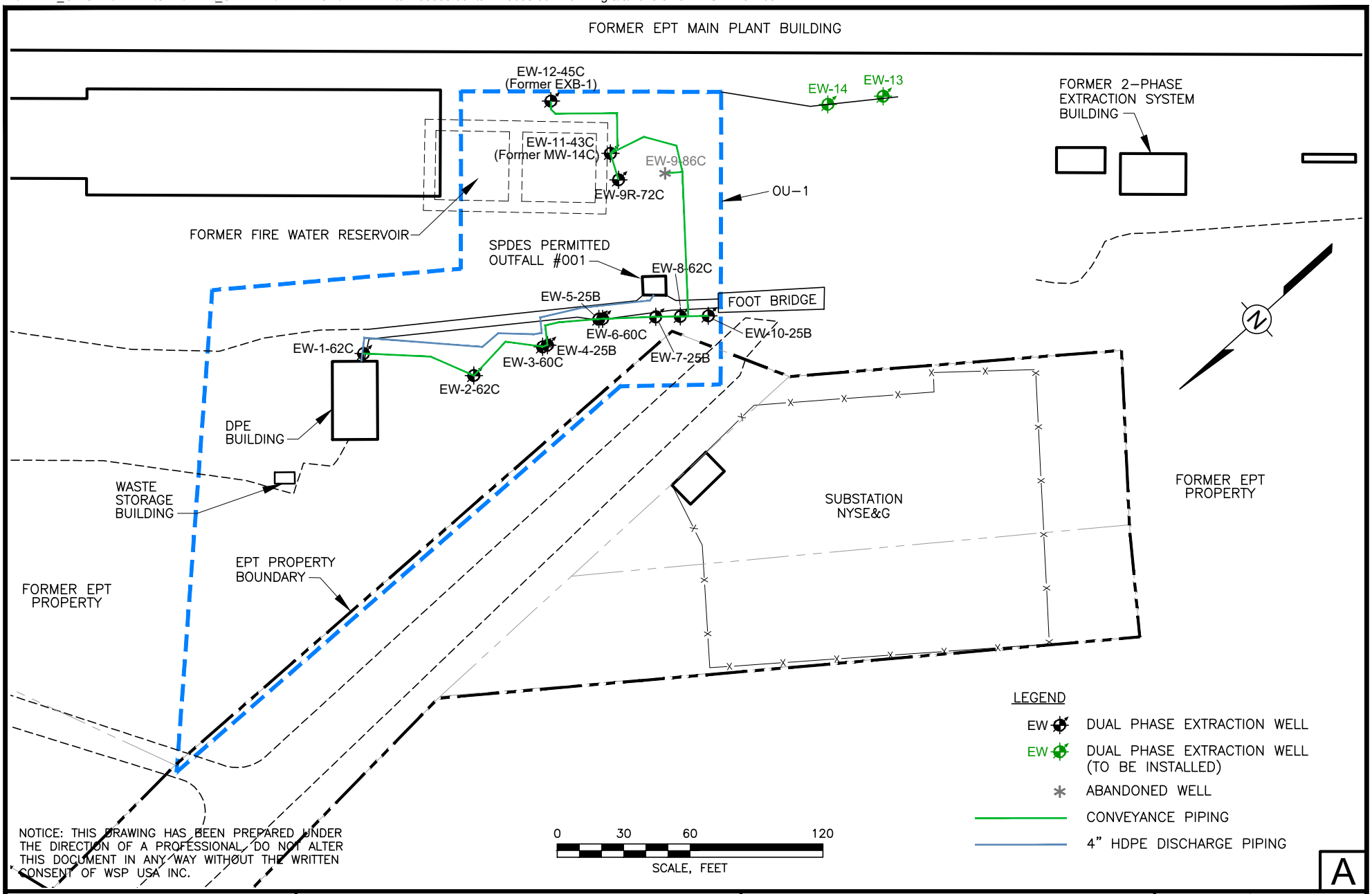
FIGURE 4

Drawing Number
314P5608.001–D24

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FIGURE 5

DPE TREATMENT AREA

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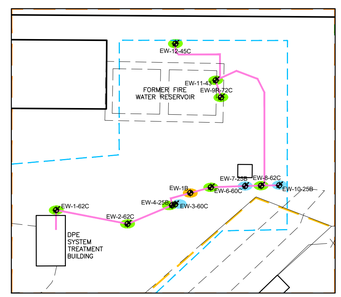
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Drawn By: RAZ 03272023
Checked: JRB 08082023
Approved: DAR 08082023
DWG No.: 314P5608.001-A01

LBA-MW-18
LBA-MW-35
LBA-MW-43N
LBA-MW-43S
LBA-MW-08
EPT MAIN PLANT BUILDING
MW-40T
WSP-MW-04B
WSP-MW-08B
WSP-MW-06C
LBA-MW-34N
SEE ENLARGEMENT ON THIS SHEET
LBA-MW-23
MW-5-100
MW-5-40
MW-8B
EW-14
EW-13
MW-50-160D
MW-46-43C
MW-46-72C
MW-7B
MW-12B
LBA-MW-39
LBA-MW-26
FORMER FIRE WATER RESERVOIR
EW-5-25B
MW-44T
MW-3B
MW-2B
MW-4B
MW-6B
DPE SYSTEM TREATMENT BUILDING
MW-1B
EW-6-60C
MW-5B
EXB-10
LBA-MW-30
FORMER R&D BUILDING
EXB-9
WASTE STORAGE BUILDING
NYSE&G SUBSTATION
EXB-11
OU–1
EXB-7
MW-16-100
MW-7-40
MW-20B
MW-8-40
MW-32B
MW-31B
MW-30B
MW-22B
SOUTH HILL TERRACE
SOUTH CAYUGA STREET
WEST SPENCER STREET
MW-18A
SOUTH GENEVA STREET
SOUTH ALBANY STREET
ELMIRA ROAD
PARK STREET

LEGEND

- B–ZONE MONITORING WELL
- B–ZONE EXTRACTION WELL
- B–ZONE ELEVATION WELL
- C–ZONE MONITORING WELL
- C–ZONE EXTRACTION WELL
- C–ZONE ELEVATION WELL
- D–ZONE MONITORING WELL
- IRM EXTRACTION AND CONVEYANCE LAYOUT
- PROPERTY BOUNDARY
- EDGE OF PAVEMENT
- OU–1 BOUNDARY
- OU–2 BOUNDARY



ENLARGEMENT

0 50 100
SCALE, FEET

80 40 0 80 160
SCALE, FEET

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FIGURE 6

Drawing Number
314P5608.001–D25

LBA-MW-18 [NM]
LBA-MW-35 [NM]
LBA-MW-43N [NM]
LBA-MW-08 [NM]
LBA-MW-19 [NM]
LBA-MW-13 [NM]
WSP-MW-04B [NM]
FORMER EPT MAIN PLANT BUILDING
[NM] MW-40T
LBA-MW-34N [NM]
LBA-MW-23 [NM]
[555.94] MW-5-40
[577.16] MW-8B
MW-7B [573.87]
EW-5-25B [NM]
MW-5B [549.01]
EW-7-25B [NM]
[549.75] MW-3B
[554.22] MW-2B
MW-4B [543.63]
EW-10-25B [NM]
LBA-MW-39 [564.20]
MW-06B [NM]
BUILDING FORMER R&D
[554.32] MW-1B
LBA-MW-30 [NM]
EW-1 [NM]
EW-1B [NM]
EW-4-28B [NM]
WASTE STORAGE BUILDING
NYSE&G SUBSTATION
MW-7-40
[503.80] MW-20B
MW-8-40 [480.40]
MW-32B [508.25]
MW-31B [NM]
MW-30B [517.51]
MW-22B [476.63]
SOUTH HILL TERRACE
SOUTH CAYUGA STREET
WEST SPENCER STREET
MW-18A [NM]
ELIMIRA ROAD
PARK STREET
SOUTH GENEVA STREET
SOUTH ALBANY STREET
WOOD STREET

LEGEND

- MONITORING WELL
- EXTRACTION WELL
- [517.51] ELEVATION IN FT–MSL
- FT–MSL FEET ABOVE MEAN SEA LEVEL
- OU–1 BOUNDARY
- OU–2 BOUNDARY
- [NM] NOT MEASURED

NOTE:

WATER LEVELS WERE COLLECTED DURING PUMPING CONDITIONS. STATIC WATER LEVELS WERE NOT COLLECTED DURING THIS SAMPLING EVENT. THEREFORE, NO DRAWDOWN CONTOURS ARE SHOWN.

0 80 160 320
SCALE, FEET

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FIGURE 7

GROUNDWATER ELEVATIONS B ZONE

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FORMER EPT MAIN
PLANT BUILDING

LBA-MW-43S
[NM]

EW-12-45C
[NM]

EW-14

EW-13

EW-11-43C
[NM]

MW-46-43C [553.63]

MW-46-72C [514.65]

EW-9R-72C
[NM]

LBA-MW-26
[NM]

WSP-MW-06C
[NM]

MW-44T
[532.46]

EW-6-60C
[NM]

EW-8-62C
[NM]

EXB-10
[515.75]

EW-1-62C
[NM]

EW-3-60C
[NM]

EW-2-62C
[NM]

EXB-09
[514.94]

WASTE STORAGE BUILDING

NYSE&G
SUBSTATION

EXB-11
[NM]

EXB-07
[520.90]

SOUTH CAYUGA STREET

WEST SPENCER STREET

ELIMIRA ROAD

PARK STREET

LEGEND

- MONITORING WELL
- EXTRACTION WELL
- [517.51] ELEVATION IN FT–MSL
- FT–MSL FEET ABOVE MEAN SEA LEVEL
- OU–1 BOUNDARY
- OU–2 BOUNDARY
- [NM] NOT MEASURED

NOTE:

WATER LEVELS WERE COLLECTED DURING PUMPING CONDITIONS. STATIC WATER LEVELS WERE NOT COLLECTED DURING THIS SAMPLING EVENT. THEREFORE, NO DRAWDOWN CONTOURS ARE SHOWN.

0 100 200
SCALE, FEET

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FIGURE 8

GROUNDWATER ELEVATIONS C–ZONE

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FORMER EPT MAIN
PLANT BUILDING

MW-5-100
[491.78]
MW-50-160D
[458.33]

WASTE STORAGE BUILDING

NYSE&G
SUBSTATION

MW-16-100
[455.34]

SOUTH CAYUGA STREET

WEST SPENCER STREET

ELIMIRA ROAD

PARK STREET

LEGEND

- MONITORING WELL
- [458.33] ELEVATION IN FT-MSL
- FT-MSL FEET ABOVE MEAN SEA LEVEL
- OU-1 BOUNDARY
- OU-2 BOUNDARY

NOTE:

WATER LEVELS WERE COLLECTED DURING PUMPING CONDITIONS. STATIC WATER LEVELS WERE NOT COLLECTED DURING THIS SAMPLING EVENT. THEREFORE, NO DRAWDOWN CONTOURS ARE SHOWN.

0 100 200
SCALE, FEET

B

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FIGURE 9

GROUNDWATER ELEVATIONS
D-ZONE

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EPT MAIN PLANT BUILDING

FORMER R&D BUILDING

FORMER FIRE WATER RESERVOIR

DPE SYSTEM TREATMENT BUILDING

WASTE STORAGE BUILDING

NYSE&G SUBSTATION

OU–1

SOUTH HILL TERRACE

SOUTH CAYUGA STREET

WEST SPENCER STREET

SOUTH GENEVA STREET

SEE ENLARGEMENT ON THIS SHEET

(LBA–MW–13 IS 850' SW OF THIS LOCATION)

(WSP–MW–04B IS 700' SW OF THIS LOCATION)

MW-5-40	
12/14/2022	
1,1-DCE	13.7
c-DCE	7,780
t-DCE	66.3
PCE	ND
TCE	1,720
VC	1,060
Total SR	10,630

MW-8B	
12/13/2022	
1,1-DCE	ND
c-DCE	0.51 J
t-DCE	ND
PCE	ND
TCE	ND
VC	ND
Total SR	1

MW-7B	
12/13/2022	
1,1-DCE	ND
c-DCE	1.2
t-DCE	ND
PCE	ND
TCE	ND
VC	ND
Total SR	1

MW-1B	
12/14/2022	
1,1-DCE	ND
c-DCE	0.63 J
t-DCE	ND
PCE	ND
TCE	ND
VC	ND
Total SR	1

MW-3B	
12/14/2022	
1,1-DCE	8.3
c-DCE	4,990
t-DCE	27.1
PCE	ND
TCE	1,170
VC	133
Total SR	6,328

MW-5B	
12/14/2022	
1,1-DCE	ND
c-DCE	195
t-DCE	2.3
PCE	1.1
TCE	569
VC	ND
Total SR	769

MW-4B	
12/14/2022	
1,1-DCE	ND
c-DCE	0.95 J
t-DCE	ND
PCE	ND
TCE	ND
VC	10.5
Total SR	11

MW-32B	
12/14/2022	
1,1-DCE	ND
c-DCE	4.8
t-DCE	ND
PCE	ND
TCE	24.1
VC	ND
Total SR	28.9

LEGEND

- MONITORING WELL
- EXTRACTION WELL (INSTALLED NOVEMBER 2022)
- DPE SYSTEM EXTRACTION AND CONVEYANCE LAYOUT
- PROPERTY BOUNDARY
- EDGE OF PAVEMENT
- OU–1 BOUNDARY
- OU–2 BOUNDARY

MW-3B	WELL IDENTIFICATION
12/14/2022	SAMPLING DATE
1,1-DCE 8.3	
c-DCE 4,990	RESULTS IN µg/l – BOLD BLUE
t-DCE 27.1	INDICATES RESULT EXCEEDS CRITERIA
PCE ND	
TCE 1,170	
VC 133	
Total SR 6,328	TOTAL SITE–RELATED CONSTITUENTS

1,1–DCE 1,1–DICHLOROETHENE
c–DCE cis–1,2–DICHLOROETHENE
t–DCE trans–1,2–DICHLOROETHENE
PCE TETRACHLOROETHENE
TCE TRICHLOROETHENE
VC VINYL CHLORIDE
J ESTIMATED VALUE
ND NON DETECTABLE
NS NOT SAMPLED

SCALE, FEET

ENLARGEMENT

SCALE, FEET

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1	Revised:		
2	Revised:		
3	Revised:		

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DRAWN BY MK LESSLIE
CHECKED JRB CROSLEY
APPROVED SJR CROSLEY

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GROUNDWATER MONITORING WELL LOCATIONS – B ZONE

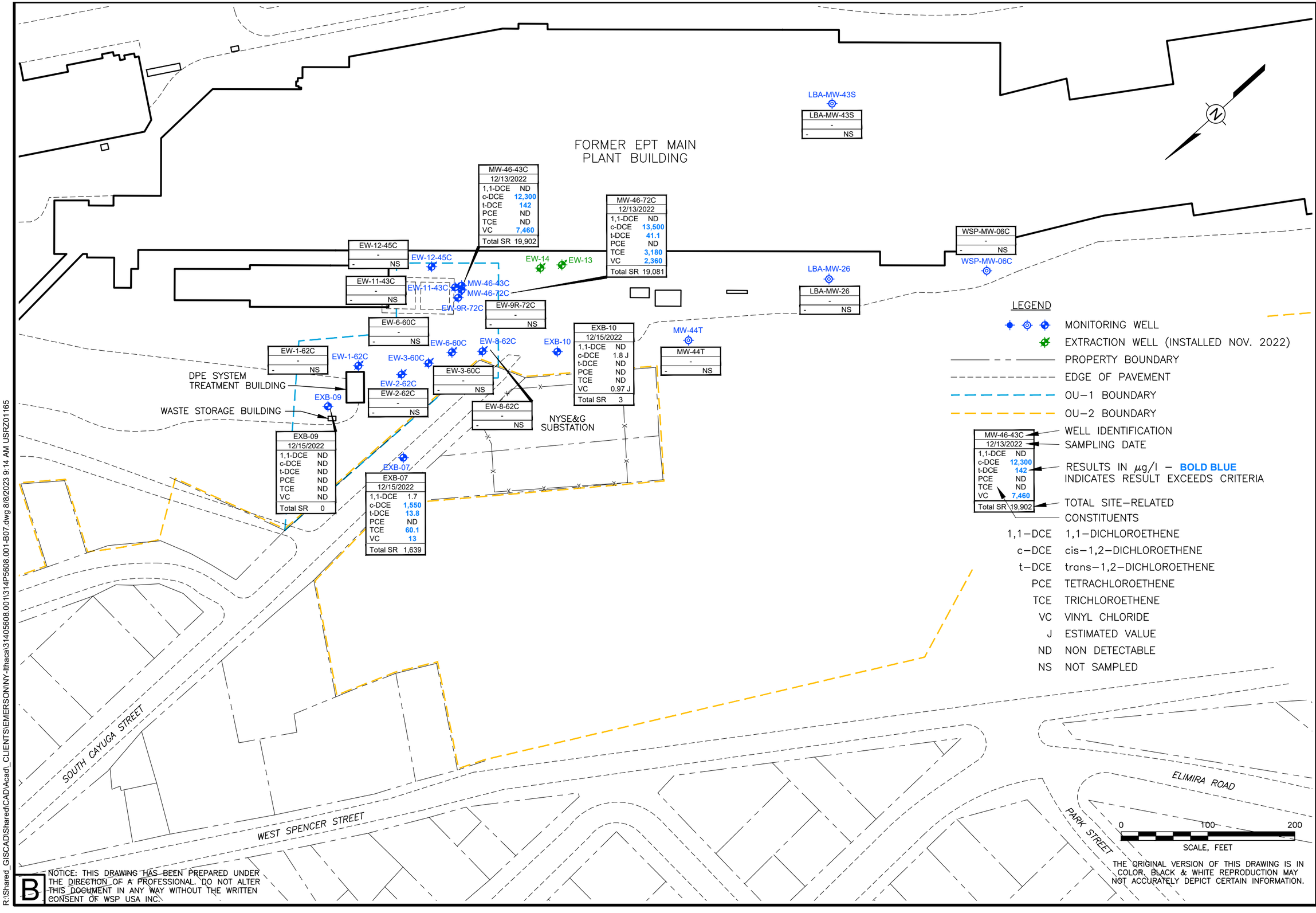
FORMER EMERSON POWER TRANSMISSION
ITHACA, NEW YORK

PREPARED FOR
EMERSON
ST. LOUIS, MISSOURI

WSP USA Inc.
11 STANWIX STREET, SUITE 950
PITTSBURGH, PA 15222
TEL: +1 412.604.1040

FIGURE 10

Drawing Number
314P5608.001–D26



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Approved: DAR 08/08/2023
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FIGURE 11

GROUNDWATER MONITORING WELL LOCATIONS – C ZONE

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FORMER EPT MAIN
PLANT BUILDING

MW-5-100	
12/14/2022	
1,1-DCE	ND
c-DCE	20.1
t-DCE	ND
PCE	ND
TCE	ND
VC	21.6
Total SR	42

MW-5-100

MW-50-160D

MW-50-160D	
12/14/2022	
1,1-DCE	ND
c-DCE	2,910
t-DCE	ND
PCE	ND
TCE	ND
VC	1,040
Total SR	3,950

DPE SYSTEM
TREATMENT BUILDING

WASTE STORAGE BUILDING

NYSE&G
SUBSTATION

MW-16-100

MW-16-100	
-	
-	NS

SOUTH CAYUGA STREET

WEST SPENCER STREET

ELIMIRA ROAD

PARK STREET

LEGEND

- MONITORING WELL
- PROPERTY BOUNDARY
- EDGE OF PAVEMENT
- OU–1 BOUNDARY
- OU–2 BOUNDARY

MW-50-160D	WELL IDENTIFICATION
12/14/2022	SAMPLING DATE
1,1-DCE ND	
c-DCE 3,150	
t-DCE 17.1	RESULTS IN µg/l – **BOLD BLUE** INDICATES RESULT EXCEEDS CRITERIA
PCE ND	
TCE 23	
VC 1,120	
Total SR 4,310	TOTAL SITE–RELATED CONSTITUENTS

1,1–DCE	1,1–DICHLOROETHENE
c–DCE	cis–1,2–DICHLOROETHENE
t–DCE	trans–1,2–DICHLOROETHENE
PCE	TETRACHLOROETHENE
TCE	TRICHLOROETHENE
VC	VINYL CHLORIDE
J	ESTIMATED VALUE
ND	NON DETECTABLE
NS	NOT SAMPLED

0 100 200
SCALE, FEET

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ST. LOUIS, MISSOURI

FIGURE 12

GROUNDWATER MONITORING WELL LOCATIONS – D ZONE

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EPT MAIN PLANT BUILDING

MW-40T [NS]

LBA-MW-34N [NS]

LBA-MW-23 [NS]

LBA-MW-39 [NS]

LBA-MW-13 [NS]

WSP-MW-04B [NS]

FORMER FIRE WATER RESERVOIR

DPE SYSTEM TREATMENT BUILDING

WASTE STORAGE BUILDING

NYSE&G SUBSTATION

TURNER ROAD

FOWLER BUILDING

OU-1

OU-2

MW-20B [NS]

MW-22B [NS]

MW-18A [NS]

SOUTH HILL TERRACE

SOUTH CAYUGA STREET

WEST SPENCER STREET

534

524

80 40 0 80 160

SCALE, FEET

LEGEND

- MONITORING WELL
- EXTRACTION WELL
- [16] TOTAL CVOCs
- TOTAL CVOCs <100
- DPE SYSTEM EXTRACTION AND CONVEYANCE LAYOUT
- PROPERTY BOUNDARY
- EDGE OF PAVEMENT
- OU-1 BOUNDARY
- OU-2 BOUNDARY
- C-ZONE TO B-ZONE DISCHARGE ZONE

TOTAL CVOCs (INCLUDEDS ALL CVOCs):

- 100 to 1,000
- >1,000 to 10,000
- >10,000

CVOCs CHLORINATED VOLATILE ORGANIC COMPOUNDS – REPORTED AS MICROGRAMS PER LITER (µg/l)

NS NOT SAMPLED

NOTE:

HISTORICAL DATA MAY HAVE BEEN USED TO DEVELOP THE ISOCONCENTRATION LAYOUT WHERE NEEDED.

[1] MW-5-25

MW-7B [1]

FORMER FIRE WATER RESERVOIR

MW-2B [NS]

[NS] EW-5-25B

EW-7-25B

EW-10-25B

MW-3B [6.329]

MW-5B [729]

EW-4-25B

MW-4B [11.5]

DPE SYSTEM TREATMENT BUILDING

MW-1B [1]

WASTE STORAGE BUILDING

NYSE&G SUBSTATION

MW-32B [29]

MW-31B [NS]

BLOW-UP AREA

0 15 30 60

SCALE, FEET

D

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REVISIONS

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1	Revised	Chkd:	Appr.:
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DRAWN BY RAL 05/08/2015

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APPROVED SMR 05/08/2015

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DISTRIBUTION OF CVOCs IN B HYDROGEOLOGIC ZONE (FIRE WATER RESERVOIR AREA)

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FIGURE 13

Drawing Number
314P5608.001-D27

EPT MAIN PLANT BUILDING

[10,630] MW-5-40
EW-12-45C [NS]
[27,362]
EW-14 [69]
EW-13 [31]
EW-11-43C [559]
MW-46-43C
MW-46-72C [19,081]
EW-9R-72C [NS]
FORMER FIRE WATER RESERVOIR
DPE SYSTEM TREATMENT BUILDING
[NS] EW-1-62C
EW-6-60C [NS]
EW-8-62C [NS]
EXB-10 [3]
EW-3-60C [NS]
EW-2-62C [NS]
EXB-9 [ND]
WASTE STORAGE BUILDING
OU-1
EXB-7 [1,639]
MW-7-40 [NS]
NYSE&G SUBSTATION
534
524
MW-32B [29]
MW-31B [NS]
MW-8-40 [NS]
SOUTH HILL TERRACE
SOUTH CAYUGA STREET
WEST SPENCER STREET

LEGEND

- MONITORING WELL
- EXTRACTION WELL
- [16] TOTAL CVOCs
- TOTAL CVOCs <100
- DPE SYSTEM EXTRACTION AND CONVEYANCE LAYOUT
- OU-1 BOUNDARY
- OU-2 BOUNDARY
- PROPERTY BOUNDARY
- EDGE OF PAVEMENT
- C-ZONE TO B-ZONE DISCHARGE ZONE

TOTAL CVOCs (INCLUDES ALL CVOCs):

- 100 to 1,000
- >1,000 to 10,000
- >10,000

CVOCs CHLORINATED VOLATILE ORGANIC COMPOUNDS – REPORTED AS MICROGRAMS PER LITER (µg/l)
ND NOT DETECTED
NS NOT SAMPLED

NOTES:

1. HISTORICAL DATA MAY HAVE BEEN USED TO DEVELOP THE ISOCONCENTRATION LAYOUT WHERE NEEDED.
2. B-ZONE WELLS MW-31B AND MW-32B ARE SHOWN AS MONITORING WELLS WITHIN OR DOWNGRADIENT OF THE C-ZONE DISCHARGE AREA.

0 40 80 160
SCALE, FEET

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FORMER EMERSON POWER TRANSMISSION
ITHACA, NEW YORK
PREPARED FOR
EMERSON
ST. LOUIS, MISSOURI

FIGURE 14

DISTRIBUTION OF CVOCs IN C HYDROGEOLOGIC ZONE (FIRE WATER RESERVOIR AREA)

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B

EPT MAIN PLANT BUILDING

[47] MW-5-100

MW-50-160D
[3,950]

FORMER FIRE
WATER RESERVOIR

DPE SYSTEM
TREATMENT BUILDING

WASTE STORAGE BUILDING

OU–1

NYSE&G
SUBSTATION

MW-16-100
[NS]

SOUTH HILL TERRACE

SOUTH CAYUGA STREET

WEST SPENCER STREET

B

LEGEND

- MONITORING WELL
- EXTRACTION WELL
- [16] TOTAL CVOCs
- TOTAL CVOCs <100
- DPE SYSTEM EXTRACTION AND CONVEYANCE LAYOUT
- OU–1 BOUNDARY
- OU–2 BOUNDARY
- PROPERTY BOUNDARY
- EDGE OF PAVEMENT

TOTAL CVOCs (INCLUDES ALL CVOCs):

- 100 to 1,000
- >1,000 to 10,000
- >10,000

CVOCs CHLORINATED VOLATILE ORGANIC COMPOUNDS – REPORTED AS MICROGRAMS PER LITER (µg/l)

NS NOT SAMPLED

NOTE:

HISTORICAL DATA MAY HAVE BEEN USED TO DEVELOP THE ISOCONCENTRATION LAYOUT WHERE NEEDED.

0 40 80 160
SCALE, FEET

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FIGURE 15

DISTRIBUTION OF CVOCs IN
D HYDROGEOLOGIC ZONE
(FIRE WATER RESERVOIR AREA)

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TABLES

Table 1

Areas of Concern and Soil Cleanup Objectives
Former Emerson Power Transmission Facility
Ithaca, New York (a)

	Exceeded Soil Cleanup Objective Driving Interim Remedial Measure			
	Direct Contact			
Area of Concern	Restricted Residential	Commercial	Industrial	Protection of Groundwater
AOC 1 - Former Department 507 Degreaser	-	-	-	X
AOC 26 - Building 24 Area	-	-	-	X
AOC 27 - Former Salt Baths Area	X	-	-	X
AOC 28 - Building 30/Oil Shed Area	-	X	-	X
AOC 29 - Former Propane Storage Area	-	X	-	-
AOC 30 - Rice Paddy	-	-	X	-
AOC 31 - Upper Parking Lot 6 Area	X	-	-	-
AOC 32 - Former Spray Pond Area	X	-	-	-
AOC 34 - Area East of Buildings 13A and 14	X	-	-	X
AOC 35A - East of Building 24	X	-	-	-
AOC 35C - Building 11A	X	-	-	X
AOC 35D - Near Parking Lot 4	X	-	-	-
AOC 35G - South of Parking Lot 3	X	-	-	-
AOC 35H - Parking Lot 3	X	-	-	-
AOC 35K - Former Railway Right-of-Way	X	-	-	-
AOC 35L - Former Railway Right-of-Way	X	-	-	-

Table 2

Vapor Phase Extraction System Operational Time
Former Emerson Power Transmission Facility
Ithaca, New York

Reporting Period	Reading Date (a)	Hour Meter Reading	Total Allowable Operational Time (hours)	Downtime due to Planned System Maintenance (hours)	Downtime due to Unplanned System Maintenance (hours) (b)	Total Downtime (hours)	Operational Efficiency (%)
Start Date	10/7/2022	39,562	--			--	--
October	10/31/2022	40,147	576	0	0	0	100.0%
November	11/30/2022	40,854	720	3	10	13	98.3%
December	12/31/2022	41,601	744	0	0	0	100.0%
	Total Over Reporting Period :		**2,040**	**3**	**10**	**13**	**99%**

a/ Reading date reflects remote telemetry reading of hour meter for B-201.

b/ Unplanned downtime due to system component malfunctions (See Report Text).

Table 3

Aqueous Phase VOC Mass Removed
Former Emerson Power Transmission Facility
Ithaca, New York (a)

Sampling Period	Reading Date (b)	Total VOC Influent Concentration (µg/l)	Total VOC Effluent Concentration (µg/l)	Effluent Water Meter Reading (gallons) (b, c)	Volume of Water Extracted (gallons)	VOC Mass Removed (lbs)	Cumulative Mass Removed Since 1/20/2009 (lbs)
Start Date	10/7/2022	--	--	3,264,254	--	--	192.0
Fourth Quarter 2022	12/7/2022	1,166	3.0	3,295,865	31,611	0.31	192.3
			Total Volume Over Reporting Period:		**31,611**	**0.31**	**192.3**
			Total Days in Reporting Period:		**61**		
			Average gallons per day:		**518**		
			Average gallons per minute:		**0.36**		

a/ Abbreviations: VOC = volatile organic compound; µg/l = micrograms per liter; lbs = pounds.

b/ Reading date reflects onsite reading of the discharge flow totalizer at Outfall 01A.

c/ Recorded as the total cumulative flow since startup on January 20, 2009 from the discharge flow totalizer.

Table 4

Aqueous Phase Sampling Results
Former Emerson Power Transmission Facility
Ithaca, New York (a, b)

Sample ID:	WINF	
Location:	System Influent	
Sample Date:	10/24/22	
VOCs (µg/l)		
Acetone	10	U
Benzene	0.50	U
Bromodichloromethane	1.0	U
Bromoform	1.0	U
Bromomethane	2.0	U
2-Butanone (MEK)	10	U
Carbon disulfide	2.0	U
Carbon tetrachloride	1.0	U
Chlorobenzene	1.0	U
Chloroethane	1.0	U
Chloroform	1.0	U
Chloromethane	1.0	U
Cyclohexane	5.0	U
1,2-Dibromo-3-chloropropane	2.0	U
Dibromochloromethane	1.0	U
1,2-Dibromoethane	1.0	U
1,2-Dichlorobenzene	1.0	U
1,3-Dichlorobenzene	1.0	U
1,4-Dichlorobenzene	1.0	U
Dichlorodifluoromethane	2.0	U
1,1-Dichloroethane	1.0	U
1,2-Dichloroethane	1.0	U
1,1-Dichloroethene	1.0	U
cis-1,2-Dichloroethene	735	
trans-1,2-Dichloroethene	4.4	
1,2-Dichloropropane	1.0	U
cis-1,3-Dichloropropene	1.0	U
trans-1,3-Dichloropropene	1.0	U
Ethylbenzene	1.0	U
Freon 113	5.0	U
2-Hexanone	5.0	U
Isopropylbenzene	1.0	U
Methyl Acetate	5.0	U
Methylcyclohexane	5.0	U
Methyl Tert Butyl Ether	1.0	U
4-Methyl-2-pentanone(MIBK)	5.0	U
Methylene chloride	2.0	U
Styrene	1.0	U
1,1,2,2-Tetrachloroethane	1.0	U
Tetrachloroethene	1.0	U
Toluene	1.0	U
1,2,4-Trichlorobenzene	1.0	U
1,1,1-Trichloroethane	1.0	U
1,1,2-Trichloroethane	1.0	U
Trichloroethene	421	
Trichlorofluoromethane	2.0	U
Vinyl chloride	5.7	
Xylene (total)	1.0	U
Total VOCs (µg/l)	**1,166**	

Table 4

Aqueous Phase Sampling Results
Former Emerson Power Transmission Facility
Ithaca, New York (a, b)

Sample ID:	**WAS**	
Location:	**Post Air-Stripper/Pre-Carbon**	
Sample Date:	10/24/22	
VOCs (µg/l)		
Acetone	10	U
Benzene	0.50	U
Bromodichloromethane	1.0	U
Bromoform	1.0	U
Bromomethane	2.0	U
2-Butanone (MEK)	10	U
Carbon disulfide	2.0	U
Carbon tetrachloride	1.0	U
Chlorobenzene	1.0	U
Chloroethane	1.0	U
Chloroform	1.0	U
Chloromethane	1.0	U
Cyclohexane	5.0	U
1,2-Dibromo-3-chloropropane	2.0	U
Dibromochloromethane	1.0	U
1,2-Dibromoethane	1.0	U
1,2-Dichlorobenzene	1.0	U
1,3-Dichlorobenzene	1.0	U
1,4-Dichlorobenzene	1.0	U
Dichlorodifluoromethane	2.0	U
1,1-Dichloroethane	1.0	U
1,2-Dichloroethane	1.0	U
1,1-Dichloroethene	1.0	U
cis-1,2-Dichloroethene	2.4	
trans-1,2-Dichloroethene	1.0	U
1,2-Dichloropropane	1.0	U
cis-1,3-Dichloropropene	1.0	U
trans-1,3-Dichloropropene	1.0	U
Ethylbenzene	1.0	U
Freon 113	5.0	U
2-Hexanone	5.0	U
Isopropylbenzene	1.0	U
Methyl Acetate	5.0	U
Methylcyclohexane	5.0	U
Methyl Tert Butyl Ether	1.0	U
4-Methyl-2-pentanone(MIBK)	5.0	U
Methylene chloride	2.0	U
Styrene	1.0	U
1,1,2,2-Tetrachloroethane	1.0	U
Tetrachloroethene	1.0	U
Toluene	1.0	U
1,2,4-Trichlorobenzene	1.0	U
1,1,1-Trichloroethane	1.0	U
1,1,2-Trichloroethane	1.0	U
Trichloroethene	0.68	J
Trichlorofluoromethane	2.0	U
Vinyl chloride	1.0	U
Xylene (total)	1.0	U
Total VOCs (µg/l)	3.1	

Table 4

Aqueous Phase Sampling Results
Former Emerson Power Transmission Facility
Ithaca, New York (a, b)

Sample ID:	**WMID GAC**	
Location:	**Between Aqueous Carbon Vessels**	
Sample Date:	10/24/22	
VOCs (µg/l)		
Acetone	10	U
Benzene	0.50	U
Bromodichloromethane	1.0	U
Bromoform	1.0	U
Bromomethane	2.0	U
2-Butanone (MEK)	10	U
Carbon disulfide	2.0	U
Carbon tetrachloride	1.0	U
Chlorobenzene	1.0	U
Chloroethane	1.0	U
Chloroform	0.56	J
Chloromethane	1.0	U
Cyclohexane	5.0	U
1,2-Dibromo-3-chloropropane	2.0	U
Dibromochloromethane	1.0	U
1,2-Dibromoethane	1.0	U
1,2-Dichlorobenzene	1.0	U
1,3-Dichlorobenzene	1.0	U
1,4-Dichlorobenzene	1.0	U
Dichlorodifluoromethane	2.0	U
1,1-Dichloroethane	1.0	U
1,2-Dichloroethane	1.0	U
1,1-Dichloroethene	1.0	U
cis-1,2-Dichloroethene	8.1	
trans-1,2-Dichloroethene	1.0	U
1,2-Dichloropropane	1.0	U
cis-1,3-Dichloropropene	1.0	U
trans-1,3-Dichloropropene	1.0	U
Ethylbenzene	1.0	U
Freon 113	5.0	U
2-Hexanone	5.0	U
Isopropylbenzene	1.0	U
Methyl Acetate	5.0	U
Methylcyclohexane	5.0	U
Methyl Tert Butyl Ether	1.0	U
4-Methyl-2-pentanone(MIBK)	5.0	U
Methylene chloride	2.0	U
Styrene	1.0	U
1,1,2,2-Tetrachloroethane	1.0	U
Tetrachloroethene	1.0	U
Toluene	1.0	U
1,2,4-Trichlorobenzene	1.0	U
1,1,1-Trichloroethane	1.0	U
1,1,2-Trichloroethane	1.0	U
Trichloroethene	1.0	U
Trichlorofluoromethane	2.0	U
Vinyl chloride	1.0	U
Xylene (total)	1.0	U
Total VOCs (µg/l)	**8.7**	

Table 4

Aqueous Phase Sampling Results
Former Emerson Power Transmission Facility
Ithaca, New York (a, b)

Sample ID:	WPOST GAC
Location:	Post-Carbon (System Discharge)
Sample Date:	10/24/22
VOCs (µg/l)	
Acetone	10 U
Benzene	0.50 U
Bromodichloromethane	1.0 U
Bromoform	1.0 U
Bromomethane	2.0 U
2-Butanone (MEK)	10 U
Carbon disulfide	2.0 U
Carbon tetrachloride	1.0 U
Chlorobenzene	1.0 U
Chloroethane	1.0 U
Chloroform	1.0 U
Chloromethane	1.0 U
Cyclohexane	5.0 U
1,2-Dibromo-3-chloropropane	2.0 U
Dibromochloromethane	1.0 U
1,2-Dibromoethane	1.0 U
1,2-Dichlorobenzene	1.0 U
1,3-Dichlorobenzene	1.0 U
1,4-Dichlorobenzene	1.0 U
Dichlorodifluoromethane	2.0 U
1,1-Dichloroethane	1.0 U
1,2-Dichloroethane	1.0 U
1,1-Dichloroethene	1.0 U
cis-1,2-Dichloroethene	3.0
trans-1,2-Dichloroethene	1.0 U
1,2-Dichloropropane	1.0 U
cis-1,3-Dichloropropene	1.0 U
trans-1,3-Dichloropropene	1.0 U
Ethylbenzene	1.0 U
Freon 113	5.0 U
2-Hexanone	5.0 U
Isopropylbenzene	1.0 U
Methyl Acetate	5.0 U
Methylcyclohexane	5.0 U
Methyl Tert Butyl Ether	1.0 U
4-Methyl-2-pentanone(MIBK)	5.0 U
Methylene chloride	2.0 U
Styrene	1.0 U
1,1,2,2-Tetrachloroethane	1.0 U
Tetrachloroethene	1.0 U
Toluene	1.0 U
1,2,4-Trichlorobenzene	1.0 U
1,1,1-Trichloroethane	1.0 U
1,1,2-Trichloroethane	1.0 U
Trichloroethene	1.0 U
Trichlorofluoromethane	2.0 U
Vinyl chloride	1.0 U
Xylene (total)	1.0 U
Total VOCs (µg/l)	**3.0**

a/ Abbreviations: VOC = volatile organic compound; µg/l = micrograms per liter; J = estimated concentration below reporting limit; U = compound not detected; ND = no compounds detected.

Table 5

Vapor Phase VOC Mass Removed
Former Emerson Power Transmission Facility
Ithaca, New York (a)

Sampling Period	Reading Date (b)	Total VOC Influent Concentration (mg/m^3)	Vacuum Blower Meter Reading (hrs) (b)	Sampling Period Vacuum Blower Run Time (hrs)	TCE mass flux (lbs/hr)	1,2-DCE mass flux (lbs/hr)	PCE mass flux (lbs/hr)	1,1-DCE mass flux (lbs/hr)	VC mass flux (lbs/hr)	Quarterly Average Air Flow (m^3/hr)	Total VOC mass flux (lbs/hr) (c)	VOC Mass Removed (lbs)	Cumulative Mass Removed Since 1/20/2009 (lbs)
Start Date	10/7/2022	--	39,562	--	--	--	--	--			--	--	4,592.4
Fourth Quarter 2022	12/31/2022	0.0	41,601	2,039	0.000	0.000	ND	ND	ND	441	0.000	0.1	4,592.5
										Total Over Reporting Period:		**0.1**	**4,592.5**

a/ Abbreviations: VOC = volatile organic compound; mg/m^3 = milligrams per cubic meter; hrs = hours; lbs = pounds; lbs/hr = pounds per hour; m^3/hr = cubic meters per hour; TCE = Trichloroethene; 1,2-DCE = cis/trans-1,2-Dichloroethene; PCE = Tetrachloroethene; 1,1-DCE = 1,1-Dichloroethene; VC = Vinyl chloride; ND = non detect.

b/ Reading date reflects remote telemetry reading of hour meter for B-201.

c/ Mass flux calculations based on an average monthly field measurement of system flow capacity over the operating period.

Table 6

Vapor Phase Sampling Results
Former Emerson Power Transmission Facility
Ithaca, New York (a)

Sample ID:	Molecular Weight	VINF	
Sample Date:		10/24/22	
Units:	(g/mol)	(ppmv)	(mg/m^3)
VOCs			
1,1-Dichloroethene	96.9	0.00016 U	0.00063 U
cis-1,2-Dichloroethene	96.9	0.0073	0.029
trans-1,2-Dichloroethene	96.9	0.0008 U	0.0032 U
Tetrachloroethene	165.8	0.00016 U	0.0011 U
Trichloroethene	131.4	0.0031	0.017
Vinyl Chloride	62.5	0.00016 U	0.00041 U
	Total VOCs:	**0.01**	**0.05**

Sample ID:	Molecular Weight	VPOST GAC	
Sample Date:		10/24/22	
Units:	(g/mol)	(ppmv)	(mg/m^3)
VOCs			
1,1-Dichloroethene	96.9	0.00016 U	0.00063 U
cis-1,2-Dichloroethene	96.9	0.0064	0.025
trans-1,2-Dichloroethene	96.9	0.0008 U	0.0032 U
Tetrachloroethene	165.8	0.00016 U	0.0011 U
Trichloroethene	131.4	0.0095	0.051
Vinyl Chloride	62.5	0.0015	0.0038
	Total VOCs:	**0.02**	**0.08**

a/ Abbreviations: VOC = volatile organic compound; g/mol = grams per mole; ppmv = parts per million by volume; mg/m^3 = milligrams per cubic meter; U = compound not detected

Table 7

Well Construction Details and Monitoring Program
Former Emerson Power Transmission Facility
Ithaca, New York (a)

Well ID		Installation Date	State Plane Coordinates Easting	Northing	Elevations (feet AMSL) Ground Surface	Top of Casing	Total Depth (feet bgs)	(feet AMSL)	Diameter (inches)	Screened Interval (feet bgs)	(feet AMSL)		Monitored Zone	Sampling Frequency (b)	Parameters	Sampling Method
EW-01B		09/2005	843106.18	886208.09	564.92	564.54	17.5	547.42	2	7 - 17	557.9 - 547.9		B	Annual	Water Level Only	-
EW-1-62C	(c)	08/2007	843159.95	886285.60	566.59	565.34	62	504.59	6	18.7 - 62.7	547.9 - 503.9	(b)	C	Annual	VOCs	Bailer/Tap Grab
EW-2-62C	(c)	-	843119.30	886255.15	565.33	563.93	60.5	504.82	2.75	18.7 - 62.7	546.6 - 502.6	(b)	C	Annual	VOCs	Bailer/Tap Grab
EW-3-60C	(c)	-	843108.21	886223.35	565.12	563.28	60.6	504.52	-	19.2 - 60.6	545.9 - 504.5	(b)	C	Annual	VOCs	Bailer/Tap Grab
EW-4-25B		10/2008	843107.29	886221.29	564.04	562.90	25.5	538.54	-	15 - 25	549.0 - 539.0		B	Annual	VOCs	Bailer/Tap Grab
EW-5-25B		09/2008	843100.60	886196.14	564.49	563.37	25.2	539.29	-	15 - 25	549.5 - 539.5		B	Annual	VOCs	Bailer/Tap Grab
EW-6-60C		-	843099.51	886194.81	564.49	563.84	54	510.51	-	19.2 - 60.6	545.3 - 503.9	(b)	C	Annual	VOCs	Bailer/Tap Grab
EW-7-25B		09/2008	843084.17	886176.33	563.28	561.76	25	538.28	-	15 - 25	548.3 - 538.3		B	Annual	VOCs	Bailer/Tap Grab
EW-8-62C		08/2007	843076.90	886167.91	562.94	561.82	61.5	501.44	-	23.5 - 61.5	539.4 - 501.4	(b)	C	Annual	VOCs	Bailer/Tap Grab
EW-9R-72C		06/2019	843141.55	886147.62	586.13	585.19	79.3	506.83	4	55 - 79.3	531.1 - 506.8	(b)	C	Annual	VOCs	Bailer/Tap Grab
EW-10-25B		09/2008	843068.65	886158.34	563.04	561.82	25	538.04	-	15 - 25	548.0 - 538.0		B	Annual	VOCs	Bailer/Tap Grab
EW-11-43C	(c)	03/2011	843153.00	886142.06	586.80	586.2	45	541.80	4	25 - 45	561.8 - 541.8	(b)	C	Annual	VOCs	Bailer/Tap Grab
EW-12-45C	(c)	08/2007	843188.42	886146.63	587.05	586.47	45	542.05	4	25 - 45	562.1 - 542.1	(b)	C	Annual	VOCs	Bailer/Tap Grab
EW-13													C	Annual	VOCs	Bailer/Tap Grab
EW-14													C	Annual	VOCs	Bailer/Tap Grab
EXB-07		08/2007	843046.56	886317.64	529.19	529.06	25	504.19	-	5 - 25	524.2 - 504.2	(b)	C	Annual	VOCs	Low Flow
EXB-09		05/2008	843148.53	886342.70	565.83	565.19	64	501.83	-	-	-	(b)	C	Semiannual	VOCs	Low Flow
EXB-10		05/2008	843018.96	886104.16	560.34	560.07	64	496.34	-	-	-	(b)	C	Semiannual	VOCs	Low Flow
EXB-11		05/2008	843046.16	886295.68	532.82	532.43	80	452.82	-	-	-	(b)	C	Semiannual	Water Level Only	-
MW-1B		07/2004	843143.24	886274.67	566.40	566.34	20	546.60	4	14.8 - 20	551.6 - 547		B	Semiannual	VOCs	Bailer
MW-2B		10/2003	843116.22	886211.86	564.74	564.00	20.5	544.24	4	10.5 - 20.5	554.2 - 544.2		B	Semiannual	VOCs	Bailer
MW-3B		10/2003	843101.31	886199.75	564.46	564.24	25	539.46	4	15 - 25	549.5 - 539.5		B	Semiannual	VOCs	Bailer Purge
MW-4B		07/2004	843025.61	886110.77	561.36	563.83	23	538.36	4	15 - 20	546.4 - 541.4		B	Semiannual	VOCs	Bailer Purge
MW-5B		10/2003	843087.01	886183.36	563.35	563.22	21	542.35	4	11 - 21	552.4 - 542.4		B	Semiannual	VOCs	Bailer Purge
MW-5-40		07/1988	843192.04	886147.65	587.03	586.43	40.3	546.73	3	17.3 - 40.3	569.7 - 546.7	(b)	B	Semiannual	VOCs	Bailer Purge
MW-5-100		08/1989	843188.52	886143.83	587.03	586.23	99	488.03	2	79 - 99	508.0 - 488.0		D	Semiannual	VOCs	Bailer Purge
MW-6B		10/2003	843468.17	886629.39	560.01	559.59	20	540.01	4	10 - 20	550.0 - 540.0		B	Semiannual	Water Level Only	-
MW-7B		08/2007	843133.79	886125.10	587.53	587.26	21	566.53	4	10 - 20	577.5 - 567.5		B	Semiannual	VOCs	Bailer Purge
MW-7-40		07/1988	842994.20	886304.99	531.11	533.00	38	493.11	3	18 - 38	513.1 - 493.1	(b)	B	Annual	VOCs	Low-Flow
MW-8B		08/2007	843183.09	886137.66	587.12	586.64	21.3	565.82	4	10 - 20	577.1 - 567.1		B	Semiannual	Water Level Only	-
MW-8-40		07/1988	843130.89	886507.35	518.27	517.98	43.2	475.07	3	17.1 - 43.2	501.2 - 475.1	(b)	B	Annual	VOCs	Bailer
MW-12B		03/2011	843047.28	886050.95	555.66	555.20	15.4	540.26	2	5.4 - 15.4	550.3 - 540.3		B	Semiannual	Water Level Only	-
MW-16-100		08/1988	843001.02	886309.73	530.86	533.47	100	430.86	2	80 - 100	450.9 - 430.9		D	Annual	VOCs	Low-Flow
MW-18A		02/2005	842535.84	886413.92	396.38	396.13	20	376.38	2	10 - 20	386.4 - 376.4	(b)	B	Annual	VOCs	Bailer
MW-20B		03/2005	843121.55	886496.75	517.53	516.09	20.2	497.33	2	15.2 - 20.2	502.3 - 497.3		B	Annual	VOCs	Bailer
MW-22B		03/2005	843247.83	886844.08	490.95	489.46	16.5	474.45	2	11.5 - 16.5	479.5 - 474.5		B	Annual	VOCs	Bailer
MW-30B		08/2005	842868.03	886178.14	532.55	534.64	24.5	508.05	2	17.5 - 24.5	515.1 - 508.1		B	Semiannual	Water Level Only	-
MW-31B		08/2005	842942.15	886296.68	532.52	533.45	24.5	508.02	2	17.5 - 24.5	515.0 - 508.0		B	Annual	Barium, VOCs	Low-Flow
MW-32B		08/2005	843045.08	886412.97	514.49	512.78	11	503.49	2	5 - 11	509.5 - 503.5		B	Annual	VOCs	Bailer
MW-40T		09/2007	843129.42	886129.65	593.30	592.97	30.6	562.70	2	9 19	584.3 - 574.3		B	Annual	VOCs	Bailer
MW-44T		09/2007	842927.90	885982.86	558.67	558.22	50.0	508.67	2	41 46	517.7 - 512.7		C	Annual	Barium, Cyanide	Low-Flow
MW-46-43C		07/2017	843149.02	886135.40	586.83	586.55	50	536.58	2	40 - 50	546.8 - 536.8		C	Semiannual	VOCs	Bailer Purge
MW-46-72C		07/2017	843141.52	886138.55	586.04	585.10	84	502.24	2	68.6 - 83.6	517.4 - 502.4		C	Semiannual	VOCs	Bailer Purge
MW-50-160D		06/2021	843157.05	886127.02	-	-	163.7	-	4	84 160	- -		D	Semiannual	VOCs	Low Flow Purge
WSP-MW-04B		11/2015	842307.23	884980.93	593.85	593.57	41.2	552.65	2	26.2 - 41.2	567.7 - 552.7		B	Annual	Metals, Cyanide, VOCs	Low-Flow
WSP-MW-06C		12/2015	842757.85	885673.66	585.06	584.72	66.0	519.06	2	55.8 - 65.8	529.3 - 519.3		C	Annual	Barium	Low-Flow
WSP-MW-08B		12/09/15	842060.00	884842.62	534.58	536.52	21.0	513.58	2	11 - 21	523.6 - 513.6		B	Annual	Cyanide	Low-Flow
LBA-MW-08		2013	843020.84	885709.05	599.55	600.06	18.4	581.15	2	3.4 18.4	596.2 - 581.2		B	Annual	Cyanide	Low-Flow
LBA-MW-18		2013	843185.61	885790.13	612.46	615.23	13.4	599.06	2	3.4 - 13.4	609.1 - 599.1		B	Annual	Barium	Low-Flow
LBA-MW-23		2013	843590.27	886615.29	578.44	580.39	22.8	555.64	2	7.8 - 22.8	570.6 - 555.6		B	Annual	VOCs	Bailer
LBA-MW-26		2013	842872.44	885815.25	581.86	581.57	44	537.86	2	34 - 44	547.9 - 537.9		C	Annual	Barium	Low-Flow
LBA-MW-30		12/2023	843234.05	886389.37	566.77	566.43	25	541.77	2	15 - 25	551.8 - 541.8		B	Annual	Barium, Cyanide	Low-Flow
LBA-MW-34N		12/2023	843366.49	886275.74	587.63	587.35	21	566.63	4	4 - 21	583.6 - 566.6		B	Annual	VOCs, Barium	Low-Flow
LBA-MW-35		12/2023	843182.73	885786.82	-	612.58	32	-	4	5.1 - 32	-		B	Annual	Barium, Cyanide	Low-Flow
LBA-MW-39		12/2023	842880.05	885810.29	583.06	582.61	25.5	557.56	4	14 - 25.5	569.1 - 557.6		B	Annual	VOCs, Cyanide	Low-Flow
LBA-MW-43N		01/2014	843023.26	885681.37	612.50	612.17	25	587.50	4	8 - 25	604.5 - 587.5		B	Annual	Cyanide	Low-Flow
LBA-MW-43S		01/2014	843020.13	885677.87	612.51	612.23	47	565.51	2	36 - 47	576.5 - 565.5		C	Annual	Barium, Cyanide	Low-Flow

a/ ID = identification; AMSL = above mean sea level; bgs = below ground surface; PVC = polyvinyl chloride; SS = stainless steel; NA = not applicable; "-" information not available.
b/ Open borehole.
c/ EW-1-62C (Formerly EXB-05); EW-2-62C (Formerly EW-01); EW-3-60C (Formerly EW-02); EW-11-43C (Formerly MW-14C); EW-12-45C (Formerly EXB-02)
Note: LBA-MW-19 was to be included for cyanide monitoring; however, the well was found to be abandoned and will be replaced in 2023. The new well will be added to the cyanide monitoring program.

Table 8

Semi-Annual Groundwater Elevation Measurements
Former Emerson Power Transmission Facility
Ithaca, New York
December 2022 (a)

Well ID	Top of casing Elevation (ft amsl)	DPE System On (December 22, 2022) Depth to Product (ft)	Depth to Groundwater (ft)	Groundwater Elevation (ft amsl)
EXB-7	529.06	-	8.16	520.90
EXB-9	565.19	-	50.25	514.94
EXB-10	560.07	-	44.32	515.75
MW-1B	566.34	-	12.02	554.32
MW-2B	564.00	-	9.78	554.22
MW-3B	564.24	-	14.49	549.75
MW-4B	563.83	-	20.20	543.63
MW-5-25	586.53	-	9.41	577.12
MW-5-40	586.43	-	30.49	555.94
MW-5-100	586.21	-	94.43	491.78
MW-5B	563.22	-	14.21	549.01
MW-7-40	533.00	-	17.49	515.51
MW-7B	587.26	-	13.39	573.87
MW-8-40	517.98	-	37.58	480.40
MW-8B	586.64	-	9.48	577.16
MW-12C	586.35	-	28.38	557.97
MW-13C	586.62	-	28.75	557.87
MW-15C	586.27	-	41.87	544.40
MW-16-100	533.47	-	78.13	455.34
MW-20B	516.09	-	12.29	503.80
MW-22B	489.46	-	12.83	476.63
MW-30B	533.48	-	15.97	517.51
MW-32B	512.78	-	4.53	508.25
MW-36B	586.38	-	16.13	570.25
MW-44T	558.22	-	25.76	532.46
MW-46-43C	586.55	-	32.92	553.63
MW-46-72C	586.21	-	71.56	514.65
MW-50-160D	587.42	-	129.09	458.33
EW-1-62C	565.34	-	10.90	554.44
EW-13	NA	-	36.63	NA
EW-14	NA	-	38.14	NA
LBA-MW-35	NA	-	5.66	NA
LBA-MW-39	582.61	18.36	18.41	564.20

a/ Abbreviations: ft = feet; amsl = above Mean Sea Level; "-" = no measureable thickness of free-phase petroleum product.

Table 9

Semi-Annual Site-Wide Groundwater Sampling Results (December 2022 Event)
Former Emerson Power Transmission Facility
Ithaca, New York (a)

Well ID:	**Evaluation**	**MW-1B**	**MW-3B**		**MW-4B**	**MW-5B**	**MW-5-25**	**MW-5-40**	**MW-5-100**	**MW-7B**	**MW-8B**	**MW-12C**	**MW-15C**	**MW-32B**	**MW-36B**	**MW-46-43C**	**MW-46-72C**
Sample ID:	**Criteria**	MW-1B	MW-3B	MW-1222A	MW-4B	MW-5B	MW-5-25	MW-5-40	MW-5-100	MW-7B	MW-8B	MW-12C	MW-15C	MW-32B	MW-36B	MW-46-43C	MW-46-72C
Date:	**(b)**	12/14/22	12/14/22	12/14/22	12/14/22	12/14/22	12/14/22	12/14/22	12/14/22	12/13/22	12/13/22	12/14/22	12/14/22	12/14/22	12/13/22	12/13/22	12/13/22
VOCs (µg/l)																	
Acetone	50	10 U	50 U	50 U	10 U	10 U	6.9 J	100 U	10 U	10 U	10 U	10 U	6.4 J	10 U	10 U	1,000 U	250 U
Benzene	1	0.5 U	2.5 U	2.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U	1 U	100 U	13 U
Carbon disulfide	60	2 U	10 U	10 U	2 U	2 U	2 U	20 U	2 U	2 U	1 U	2 U	2 U	2 U	2 UJ	100 U	50 U
Chloroethane	5	1 U	5 U	5 U	1 U	1 U	1 U	10 U	**5.5**	1 U	1 U	1 U	1 U	1 U	1 U	100 U	25 U
Chloroform	7	1 U	5 U	5 U	1 U	1 U	1 U	10 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	100 U	25 U
1,1-Dichloroethene	5	1 U	**8.3**	**8.2**	1 U	1 U	1 U	**13.7**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	100 U	25 U
cis-1,2-Dichloroethene	5	0.63 J	**4,990**	**4,990**	0.95 J	**198**	0.7 J	**7,780**	**20.1**	1.2	0.51 J	3.2	**347**	4.8	**7.5**	**12,300**	**13,500**
trans-1,2-Dichloroethene	5	1 U	**27.1**	**27.3**	1 U	2.3	1 U	**56.2**	1 U	1 U	1 U	1 U	0.91 J	1 U	1 U	**142**	**41.1**
Tetrachloroethene	5	1 U	5 U	5 U	1 U	1.1	1 U	10 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	100 U	25 U
1,1,1-Trichloroethane	5	1 U	5 U	5 U	1 U	1 U	1 U	10 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	100 U	25 U
Trichloroethene	5	1 U	**1,170**	**1,190**	1 U	**569**	1 U	**1,720**	1 U	1 U	1 U	1 U	**176**	**24.1**	1.8	100 U	**3,180**
Vinyl chloride	2	1 U	**133**	**140**	**10.5**	1 U	1 U	**1,060**	**21.6**	1 U	1 U	1 U	**35.1**	1 U	1 U	**7,460**	**2,360**
Total VOCs:	-	**1**	**6,328**	**6,463**	**11.5**	**770**	**8**	**10,630**	**47**	**1**	**1**	**3**	**565**	**29**	**9**	**59,706**	**19,081**
Total CVOCs:	-	**1**	**6,328**	**6,356**	**11.5**	**770**	**1**	**10,630**	**47**	**1**	**1**	**3**	**559**	**29**	**9**	**27,362**	**19,081**

Well ID:	**Evaluation**	**MW-50-160D**	**EXB-7**	**EXB-9**	**EXB-10**		**EW-13**	**EW-14**
Sample ID:	**Criteria**	MW-50-160D	EXB-7	EXB-9	EXB-10	MW-121522	EW-13	EW-14
Date:	**(b)**	12/14/22	12/15/22	12/15/22	12/15/22	12/15/22	12/14/22	12/15/22
VOCs (µg/l)								
Acetone	50	200 U	10 U	10 U	10 U	10 U	**11.6**	3.3 J
Benzene	1	10 U	0.5 U	1 U	0.91	0.93	0.5 U	0.5 U
Chloroform	7	20 U	1 U	1 U	1 U	1 U	**21.6**	**12.5**
Cyclohexane	-	100 U	5 U	5 U	0.8 J	1.8 J	5 U	5 U
Dibromochloromethane	50	20 U	1 U	1 U	1 U	1 U	0.91 J	0.68 J
1,1-Dichloroethane	5	20 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	5	20 U	1.7	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	**2,910**	**1,550**	1 U	1.8	1 U	**23.3**	**25.6**
trans-1,2-Dichloroethene	5	20 U	**13.8**	1 U	1 U	1 U	1 U	1 U
Methylcyclohexane	-	100 U	5 U	5 U	1.40 J	1.1 J	5 U	5 U
Toluene	5	20 U	1 U	1 U	1 U	1 U	1.7	0.61 J
1,1,1-Trichloroethane	5	20 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	20 U	**60.1**	1 U	1 U	1 U	4	**13.6**
Vinyl chloride	2	**1,040**	**13.4**	1 U	0.97 J	1.1	**3.6**	**29.8**
Total VOCs:	-	**3,950**	**1,639**	**ND**	**ND**	**ND**	**70**	**ND**
Total CVOCs:	-	**3,950**	**1,639**	**ND**	**2.8**	**ND**	**31**	**69**

a/ VOC = volatile organic compound; CVOC = chlorinated volatile organic compound; µg/l = micrograms per liter; U = analyte not detected above Reporting Limit; J = estimated concentration below the laboratory Reporting Limit or equal to or greater than the Method Detection Limit; ND = none detected.

b/ Concentrations highlighted and in bold text exceed evaluation criteria. Concentrations in bold text indicate the laboratory method detection limit exceeds evaluation criteria. Evaluation criteria are the New York State Ambient Water Quality Standards or Guidance Values for Class GA groundwater provided in the New York State Department of Environmental Conservation Division of Water Technical and Operational Guidance Series (1.1.1), dated June 1998, and the April 2000 Addendum.

c/ The blind duplicates MW-1222A and MW-121522 are for MW-3B and EXB-10, respectively.

Table 10

Historical Groundwater Sampling Results - CVOCs (ISMP Wells Only)
Former Emerson Power Transmission Facility
Ithaca, New York (a)

Well ID	Date	1,1-DCE		cis-1,2-DCE		trans-1,2-DCE		PCE		TCE		VC	
	Evaluation Criteria	5	µ/l	5	µ/l	5	µ/l	5		5	µ/l	2	µ/l
	Molecular Weight	96.94	µM	96.95	µM	96.95	µM	165.82	µM	131.38	µM	62.50	µM
EW-1-62C	9/11/07	**14**	0.14	**5,800 D**	60	**63**	0.6	**5.7**	0	**17,000 D**	129	**52**	0.8
	9/26/17	3.2 J	0.03	**1,750**	18	**16.8**	0.2	5 U	0	**1,600**	12	5 U	0.1
	7/24/20	10 U	0.1	**1,550**	16	**17.8**	0.2	10 U	0.1	**556**	4.2	**55.2**	0.9
	10/7/21	1 U	0.01	**379**	3.9	**8.6**	0.1	1 U	0	**49.9**	0.4	**15.5**	0.2
	9/22/22	1 U	0.01	**321**	3.3	3.2	0	1 U	0	**33.6**	0.3	**31.1**	0.5
EW-2-62C	11/5/03	400 U	4.13	**3,200**	33	400 U	4.1	400 U	2.4	**6,700**	51	400 U	6.4
	11/12/04	200 U	2.06	**3,500**	36	**54 J**	0.6	200 U	1.2	**5,100**	39	**88 J**	1.4
	9/26/17	20 U	0.21	**1,760**	18	**24.8**	0.3	20 U	0.1	**2,240**	17	20 U	0.3
	7/24/20	10 U	0.1	**2,020**	21	**35**	0.4	10 U	0.1	**2,350**	18	10 U	0.2
	10/7/21	4 U	0.04	**2,000**	21	**301**	3.1	4 U	0	**589**	4.5	**25**	0.4
	9/22/22	1 U	0.01	**403**	4.2	3.5	0	1 U	0	**70.8**	0.5	**24.4**	0.4
EW-3-60C	11/5/03	250 U	2.58	**3,000**	31	250 U	2.6	250 U	1.5	**7,200**	55	250 U	4
	11/12/04	500 U	5.16	**4,100**	42	500 U	5.2	500 U	3	**16,000**	122	500 U	8
	9/26/17	5 U	0.05	**503**	5.2	**14.5**	0.1	5 U	0	**1,800**	14	3.3 J	0.1
	7/24/20	10 U	0.1	**4,020**	41	**135**	1.4	10 U	0.1	**3,380**	26	**14.2**	0.2
	10/7/21	50 U	0.52	**7,480**	77	**42.2 J**	0.4	50 U	0.3	**1,300**	9.9	50 U	0.8
	9/22/22	1.6 J	0.02	**1,100**	11	**15.1**	0.2	2 U	0	**960**	7.3	**36.2**	0.6
EW-4-25B	9/26/17	100 U	1.03	**5,050**	52	**106**	1.1	100 U	0.6	**18,700**	142	100 U	1.6
	7/24/20	5 U	0.05	**521**	5.4	**7.9**	0.1	5 U	0	**761**	5.8	5 U	0.1
	10/7/21	20 U	0.21	**2,970**	31	**488**	5	20 U	0.1	**3,570**	27	20 U	0.3
	9/22/22	4 U	0.04	**772**	8	**8.4**	0.1	4 U	0	**867**	6.6	4 U	0.1
EW-5-25B	9/14/07	3.1	0.03	**2,500 D**	26	**8.5**	0.1	**5.6**	0	**4,500 D**	34	**21**	0.3
	9/25/09	3.2	0.03	**1,300 DJ**	13	**24 J**	0.2	1.3	0	**1,100 DJ**	8.4	**70 J**	1.1
	9/29/10	3.9	0.04	**1,290**	13	**30.7**	0.3	1.2	0	**793**	6	**231**	3.7
	10/3/11	3.3	0.03	**1,280**	13	**16.4**	0.2	1.3	0	**1,670**	13	**45.1**	0.7
	10/1/12	1 U	0.01	**134**	1.4	1.94	0	2.03	0	**1,040**	7.9	**5.28**	0.1
	10/18/13	3.1	0.03	**897**	9.3	**8.8**	0.1	3.2	0	**1,420**	11	**21.7**	0.3
	8/21/14	2.8 J	0.03	**863**	8.9	**14.7**	0.2	1.6	0	**761**	5.8	**61.7**	1
	8/24/15	3	0.03	**1,110**	11	**36.1**	0.4	1	0	**1,410**	11	**10.2**	0.2
	9/28/16	3.3	0.03	**1,650 J**	17	**94.2**	1	4.8	0	**2,280**	17	**11.1**	0.2
	9/26/17	20 U	0.21	**2,730**	28	**60.1**	0.6	20 U	0.1	**2,530**	19	**12.7 J**	0.2
	8/28/18	1.6	0.02	**897**	9.3	**14.4**	0.1	1 U	0	**839**	6.4	**5.8**	0.1
	9/19/19	5 U	0.05	**1,200**	12	**14.3**	0.1	5 U	0	**1,350**	10	**86**	1.4
	7/24/20	5 U	0.05	**1,040**	11	**33.3**	0.3	5 U	0	**962**	7.3	**8.2**	0.1
	10/7/21	4 U	0.04	**740**	7.6	**25.9**	0.3	4 U	0	**225**	1.7	4 U	0.1
	9/22/22	2 U	0.02	**673**	6.9	**5.5**	0.1	2 U	0	**386**	2.9	**8.4**	0.1
EW-6-60C	9/25/09	16 J	0.17	**8,600 DJ**	89	**150 J**	1.5	**41 J**	0.2	**47,000 DJ**	358	**4.8 J**	0.1
	9/29/10	**9.5**	0.1	**6,400**	66	**142**	1.5	**28.1**	0.2	**25,600**	195	**5.9**	0.1
	10/3/11	12 J	0.12	**12,400 J**	128	**180 J**	1.9	**13.7 J**	0.1	**12,500 J**	95	**3.9 J**	0.1
	10/1/12	**10**	0.1	**6,590**	68	500 U	5.2	**33.6**	0.2	**28,400**	216	**2.42**	0
	10/18/13	100 U	1.03	**15,400**	159	**55.9 J**	0.6	100 U	0.6	**23,000**	175	100 U	1.6
	8/21/14	**14.4 J**	0.15	**4,810**	50	**33.3**	0.3	**32.4**	0.2	**15,500**	118	0.8 J	0
	8/24/15	100 U	1.03	**5,710**	59	100 U	1	100 U	0.6	**31,500**	240	100 U	1.6
	9/28/16	**14.6**	0.15	**5,950 J**	61	**168**	1.7	**27.4**	0.2	**21,000 J**	160	**45.1**	0.7
	9/26/17	100 U	1.03	**6,970**	72	**76.5 J**	0.8	100 U	0.6	**24,300**	185	100 U	1.6
	9/19/19	10 U	0.1	**4,430**	46	**24.1**	0.2	10 U	0.1	**11,500**	88	**16.5**	0.3
	7/24/20	10 U	0.1	**1,190**	12	**10**	0.1	10 U	0.1	**1,820**	14	10 U	0.2
	10/7/21	5 U	0.05	**1,200**	12	**7.5**	0.1	5 U	0	**101**	0.8	**26.2**	0.4
	9/22/22	2 U	0.02	**880**	9.1	3.7	0	2 U	0	**142**	1.1	**4**	0.1

Table 10

Historical Groundwater Sampling Results - CVOCs (ISMP Wells Only)
Former Emerson Power Transmission Facility
Ithaca, New York (a)

Well ID	Date	1,1-DCE		cis-1,2-DCE		trans-1,2-DCE		PCE		TCE		VC	
Evaluation Criteria		5	µ/l	5	µ/l	5	µ/l	5		5	µ/l	2	µ/l
Molecular Weight		96.94	µM	96.95	µM	96.95	µM	165.82	µM	131.38	µM	62.50	µM
EW-7-25B	9/27/17	4.3 J	0.04	**2,480**	26	**29.1**	0.3	5 U	0	**44.1**	0.3	**539**	8.6
	7/24/20	20 U	0.21	**3,920**	40	**33.8**	0.3	20 U	0.1	**3,500**	27	**25.4**	0.4
	10/7/21	10 U	0.1	**2,400**	25	**89.4**	0.9	10 U	0.1	**15.3**	0.1	10 U	0.2
	9/22/22	3.6 J	0.04	**2,230**	23	**24.4**	0.3	5 U	0	**92.3**	0.7	**97.4**	1.6
EW-8-62C	9/27/17	**12.5 J**	0.13	**5,580**	58	**48.9**	0.5	25 U	0.2	**9,870**	75	**174**	2.8
	7/24/20	5 U	0.05	**1,270**	13	**6.3**	0.1	5 U	0	**857**	6.5	5 U	0.1
	10/7/21	10 U	0.1	**3,820**	39	**30.5**	0.3	10 U	0.1	**67**	0.5	**13.8**	0.2
	9/22/22	10 U	0.1	**3,080**	32	**15.8**	0.2	10 U	0.1	**296**	2.3	**48.5**	0.8
EW-9R-72C	7/24/20	12 U	0.12	**3,080**	32	**48.6**	0.5	18 U	0.1	**2,070**	16	16 U	0.3
	10/7/21	10 U	0.1	**2,610**	27	**21.1**	0.2	10 U	0.1	10 U	0.1	**1,140**	18
	9/22/22	5 U	0.05	**1,730**	18	**5**	0.1	5 U	0	**28.2**	0.2	**85.2**	1.4
EW-10-25B	9/27/17	1 U	0.01	**429**	4.4	**6.3**	0.1	1 U	0	**248**	1.9	0.64 J	0
	7/24/20	1 U	0.01	**236**	2.4	**6.3**	0.1	1 U	0	**98.2**	0.7	**2.4**	0
	10/7/21	1 U	0.01	**166**	1.7	4.3	0	1 U	0	**63.2**	0.5	1 U	0
	9/22/22	1 U	0.01	**343**	3.5	3.6	0	1 U	0	**124**	0.9	**4**	0.1
EW-11-43C	7/24/20	20 U	0.21	**3,620**	37	**59.3**	0.6	20 U	0.1	**6,420**	49	20 U	0.3
	10/7/21	100 U	1.03	**8,430**	87	100 U	1	100 U	0.6	**13,600**	104	100 U	1.6
	9/22/22	**49.9 J**	0.51	**21,900**	226	**124**	1.3	50 U	0.3	**26,600**	202	**587**	9.4
EW-12-45C	1/14/09	2	0.02	**2,900 D**	30	**11**	0.1	**6.1**	0	**10,000 D**	76	**10**	0.2
	6/9/09	2	0.02	**2,100 D**	22	**7.3**	0.1	2.4	0	**6,200 D**	47	**13**	0.2
	9/23/09	2	0.02	**2,300 D**	24	**20**	0.2	**7.2**	0	**9,300 J**	71	**7.6**	0.1
	12/17/09	3	0.03	**2,870 D**	30	**11.7**	0.1	**6.1**	0	**7,270 D**	55	**16.8 J**	0.3
	4/6/10	1 U	0.01	**2,210 D**	23	**21.8**	0.2	4.3	0	**5,110 D**	39	**14.5**	0.2
	6/29/10	**12.5**	0.13	**5,650**	58	**212 J**	2.2	2.2	0	**2,560**	19	**21**	0.3
	9/29/10	**8.3**	0.09	**4,750**	49	**189**	1.9	1 U	0	**1,680**	13	**30**	0.5
	12/28/10	**6**	0.06	**6,740**	70	**32.7**	0.3	4.1	0	**7,550**	57	**44.7**	0.7
	3/22/11	3.4	0.04	**6,680**	69	**22.4**	0.2	3.8	0	**8,310**	63	**9.2**	0.1
	6/22/11	4.6	0.05	**4,850**	50	**39.2**	0.4	3.8	0	**5,320**	40	**157**	2.5
	10/3/11	2.6 J	0.03	**8,080 J**	83	**20.1 J**	0.2	1.9 J	0	**6,810 J**	52	**81.1 J**	1.3
	12/13/11	1.3	0.01	**7,880**	81	**59.6**	0.6	1 U	0	**3,670**	28	**7.4**	0.1
	3/28/12	4.7	0.05	**5,500**	57	**55.2**	0.6	1 U	0	**3,470**	26	**44.4**	0.7
	6/27/12	4.7 J	0.05	**5,040**	52	**45.6 J**	0.5	2.3 J	0	**7,020**	53	**33.1 J**	0.5
	10/3/12	200 U	2.06	**9,760**	101	200 U	2.1	200 U	1.2	**308**	2.3	**807**	13
	12/4/12	3	0.03	**2,330**	24	**71.6**	0.7	1 U	0	**327**	2.5	**2070**	33
	4/4/13	1 U	0.01	**2,140**	22	**16.7**	0.2	1.3	0	**3,550**	27	**9.2**	0.1
	6/3/13	100 U	1.03	**23,300**	240	**214**	2.2	100 U	0.6	**14,400**	110	**235**	3.8
	10/16/13	**21.6**	0.22	**7,930**	82	**188**	1.9	1 U	0	**1,130**	8.6	**230**	3.7
	12/4/13	3.3	0.03	**6,730**	69	**68.6**	0.7	1 U	0	**2,720**	21	**90.4**	1.4
	3/24/14	40 U	0.41	**11,700**	121	**59**	0.6	40 U	0.2	**6,130**	47	**184**	2.9
	6/16/14	20 U	0.21	**5,890**	61	**37.5**	0.4	20 U	0.1	**5,270**	40	**60.5**	1
	8/19/14	20 U	0.21	**7,010**	72	**48.8**	0.5	20 U	0.1	**7,150**	54	**146**	2.3
	12/4/14	**15.5**	0.16	**12,300**	127	**54**	0.6	1 U	0	**4,260**	32	**209 J**	3.3
	3/11/15	50 U	0.52	**10,000**	103	**155**	1.6	50 U	0.3	**3,640**	28	**686 J**	11
	5/27/15	**18.6 J**	0.19	**11,500**	119	**94.1**	1	25 U	0.2	**890**	6.8	**844**	14
	7/24/20	5 U	0.05	**841**	8.7	5 U	0.1	5 U	0	**220**	1.7	5 U	0.1
	10/7/21	3.2 J	0.03	**2,100**	22	**6.4**	0.1	5 U	0	5 U	0	**150**	2.4
	9/22/22	5 U	0.05	**2,030**	21	4.7 J	0	5 U	0	**68.8**	0.5	**44.5**	0.7
EW-13	12/14/22	1 U	0.01	**23.3**	0.2	1 U	0	1 U	0	4	0	3.6	0.1

Table 10

Historical Groundwater Sampling Results - CVOCs (ISMP Wells Only)
Former Emerson Power Transmission Facility
Ithaca, New York (a)

Well ID	Date	1,1-DCE		cis-1,2-DCE		trans-1,2-DCE		PCE		TCE		VC	
	Evaluation Criteria	5	µ/l	5	µ/l	5	µ/l	5		5	µ/l	2	µ/l
	Molecular Weight	96.94	µM	96.95	µM	96.95	µM	165.82	µM	131.38	µM	62.50	µM
EW-14	12/15/22	1 U	0.01	**25.6**	0.3	1 U	0	1 U	0	**13.6**	0.1	**29.8**	0.5
EXB-07	9/14/07	**5.2**	0.05	**2,700 D**	28	**31**	0.3	1 U	0	**3,400 D**	26	**10**	0.2
	1/14/09	**13**	0.13	**7,500 D**	77	**55 DJ**	0.6	1 U	0	**230 D**	1.8	**57 DJ**	0.9
	6/9/09	**6.6**	0.07	**3,400 D**	35	**37**	0.4	1 U	0	**890 D**	6.8	**30**	0.5
	9/22/09	**9.2**	0.09	**5,000 D**	52	**78**	0.8	80 U	0.5	**560 D**	4.3	**26**	0.4
	12/17/09	**5.1 J**	0.05	**2,790 D**	29	**45.3**	0.5	1 U	0	**832 D**	6.3	**15.5 J**	0.2
	4/7/10	3.2	0.03	**2,120 D**	22	**31.1**	0.3	1 U	0	**1,430 D**	11	**11.8**	0.2
	6/29/10	**6.5**	0.07	**2,880**	30	**99.2 J**	1	1 U	0	**1,190**	9.1	**18.4**	0.3
	9/29/10	**7.8**	0.08	**4,760**	49	**105**	1.1	1 U	0	**360**	2.7	**26**	0.4
	12/28/10	**2.3**	0.02	**1,560**	16	**27.4**	0.3	1 U	0	**394**	3	**3.4**	0.1
	3/22/11	1.1	0.01	**1,080**	11	**11.7**	0.1	1 U	0	**327**	2.5	1.9	0
	6/22/11	2.1	0.02	**1,480**	15	**21.7**	0.2	1 U	0	**398**	3	**5**	0.1
	10/5/11	**7.8 J**	0.08	**3,940 J**	41	**65.9 J**	0.7	1 UR	0	**1,850 J**	14	**21.4 J**	0.3
	12/13/11	**9.0**	0.09	**4,220**	44	**115**	1.2	1 U	0	**22**	0.2	**38.5**	0.6
	3/27/12	1.2	0.01	**1,040**	11	**20**	0.2	1 U	0	**388**	3	**2.8**	0
	6/29/12	2.4	0.02	**1,500**	15	**30.1**	0.3	1 U	0	**903**	6.9	**5.3**	0.1
	10/2/12	50 U	0.52	**3,080**	32	50 U	0.5	50 U	0.3	**1,290**	9.8	50 U	0.8
	12/4/12	2.4	0.02	**1,540**	16	**38.1**	0.4	1 U	0	**1,020**	7.8	**3.6**	0.1
	4/3/13	5 U	0.05	**766**	7.9	**22.5**	0.2	5 U	0	**469**	3.6	5 U	0.1
	6/5/13	2.6	0.03	**1,180**	12	**20.7**	0.2	1 U	0	**890**	6.8	4	0.1
	10/16/13	**5.4**	0.06	**2,580**	27	**41.2**	0.4	1 U	0	**1,100**	8.4	**14.5**	0.2
	12/4/13	1 U	0.01	**2,290**	24	**32.9**	0.3	1 U	0	**89**	0.7	**9.5**	0.2
	3/25/14	1 U	0.01	**202**	2.1	**3.2**	0	1 U	0	**97**	0.7	0.72 J	0
	6/17/14	0.97 J	0.01	**368**	3.8	**8.5**	0.1	1 U	0	**45**	0.3	**6.6**	0.1
	8/19/14	10 U	0.1	**1,920**	20	**19.5**	0.2	10 U	0.1	**63**	0.5	10 U	0.2
	12/4/14	0.54 J	0.01	**617**	6.4	**17.8**	0.2	1 U	0	**4**	0	**15.5 J**	0.2
	3/11/15	2 U	0.02	**1,080**	11	**45.1**	0.5	2 U	0	**280**	2.1	**2 J**	0
	5/27/15	5 U	0.05	**1,100**	11	**36.6**	0.4	5 U	0	**1,170**	8.9	5 U	0.1
	8/24/15	1.7	0.02	**1,180**	12	**19.4**	0.2	1 U	0	**774**	5.9	**4.2**	0.1
	12/14/15	2.1	0.02	**1,420**	15	**22.3**	0.2	1 U	0	**416**	3.2	**3.4**	0.1
	4/13/16	5 U	0.05	**1,040**	11	**17.4**	0.2	5 U	0	**547**	4.2	**4.5 J**	0.1
	7/7/16	10 U	0.1	**1,040**	11	**18.1**	0.2	10 U	0.1	**482**	3.7	**11**	0.2
	9/27/16	5 U	0.05	**1,410 J**	15	**28.3**	0.3	5 U	0	**582**	4.4	**6.3**	0.1
	11/16/16	10 U	0.1	**1,930**	20	**33**	0.3	10 U	0.1	**735**	5.6	**11**	0.2
	3/28/17	5 U	0.05	**980**	10	**17.3**	0.2	5 U	0	**574**	4.4	**5.9**	0.1
	6/13/17	2 U	0.02	**985**	10	**25.8**	0.3	2 U	0	**486**	3.7	1.3 J	0
	9/26/17	3.1 J	0.03	**1,700**	18	**31.2**	0.3	5 U	0	**748 J**	5.7	**3.4 J**	0.1
	12/20/17	1.7	0.02	**1,240**	13	**23**	0.2	1 U	0	**513 J**	3.9	1	0
	3/21/18	5 U	0.05	**869**	9	**16.5**	0.2	5 U	0	**426**	3.2	5 U	0.1
	5/10/18	2.5 U	0.03	**908**	9.4	**12.6**	0.1	2.5 U	0	**430**	3.3	2.5 U	0
	3/21/18	5 U	0.05	**869**	9	**16.5**	0.2	5 U	0	**426**	3.2	5 U	0.1
	5/10/18	2.5 U	0.03	**908**	9.4	**12.6**	0.1	2.5 U	0	**430**	3.3	2.5 U	0
	8/28/18	3.8 J	0.04	**2,430**	25	**30.5**	0.3	5 U	0	**46**	0.4	**6.5**	0.1
	12/11/18	2.5 U	0.03	**1,200**	12	**29.9**	0.3	2.5 U	0	**355**	2.7	2.5 U	0
	3/7/19	5 U	0.05	**832**	8.6	**11.9**	0.1	5 U	0	**373**	2.8	5 U	0.1
	6/18/19	0.82 J	0.01	**636**	6.6	**11.7**	0.1	1 U	0	**334**	2.5	**2.5**	0
	9/18/19	0.73 J	0.01	**896**	9.2	**13.2**	0.1	1 U	0	**369**	2.8	1.1	0
	12/9/19	5 U	0.05	**962**	9.9	**16.1**	0.2	5 U	0	**347**	2.6	5 U	0.1
	3/23/20	2 U	0.02	**936**	9.7	**18.1**	0.2	2 U	0	**366**	2.8	2 U	0
	5/20/20	5 U	0.05	**1,080**	11	**25.7**	0.3	5 U	0	**726**	5.5	5 U	0.1
	8/13/20	5 U	0.05	**1,160**	12	**52.8**	0.5	5 U	0	**426**	3.2	**4.3 J**	0.1
	12/14/20	5 U	0.05	**1,140**	12	**27.5**	0.3	5 U	0	**402**	3.1	5 U	0.1
	3/23/21	5 U	0.05	**1,110**	11	**22.1**	0.2	5 U	0	**486**	3.7	5 U	0.1
	6/22/21	10 U	0.1	**1,210**	12	**32.1**	0.3	10 U	0.1	**365**	2.8	10 U	0.2

Table 10

Historical Groundwater Sampling Results - CVOCs (ISMP Wells Only)
Former Emerson Power Transmission Facility
Ithaca, New York (a)

Well ID	Date	1,1-DCE		cis-1,2-DCE		trans-1,2-DCE		PCE		TCE		VC	
Evaluation Criteria		5	µ/l	5	µ/l	5	µ/l	5		5	µ/l	2	µ/l
Molecular Weight		96.94	µM	96.95	µM	96.95	µM	165.82	µM	131.38	µM	62.50	µM
EXB-07	9/21/21	3.6 J	0.04	**1,700 J**	18	**61.2 J**	0.6	5 UJ	0	**349 J**	2.7	**4.3 J**	0.1
(continued)	12/15/21	10 U	0.1	**2,000**	21	**27.4**	0.3	10 U	0.1	**9 J**	0.1	**58.4**	0.9
	3/23/22	10 U	0.1	**1,310**	14	**21.1**	0.2	10 U	0.1	**393**	3	10 U	0.2
	6/15/22	5 U	0.05	**1,180**	12	**21.2**	0.2	5 U	0	**320**	2.4	**10.2**	0.2
	12/15/22	1.7	0.02	**1,550**	16	**13.8**	0.1		0	**60.1**	0.5	**13.4**	0.2
EXB-09	6/10/09	1 U	0.01	1 U	0	1 U	0	1 U	0	0.46 J	0	1 U	0
	9/22/09	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	12/17/09	1 U	0.01	3	0	1 U	0	1 U	0	1 U	0	1 U	0
	4/6/10	1 U	0.01	**12.5**	0.1	1 U	0	1 U	0	1.2	0	1 U	0
	6/29/10	1 U	0.01	**5.4**	0.1	1 UJ	0	1 U	0	1 U	0	1 U	0
	9/28/10	1 U	0.01	4.1	0	1 U	0	1 U	0	1 U	0	1 U	0
	12/28/10	1 U	0.01	2.6	0	1 U	0	1 U	0	1 U	0	1 U	0
	3/22/11	1 U	0.01	**5.5**	0.1	1 U	0	1 U	0	1.6	0	1 U	0
	6/22/11	1 U	0.01	1.2	0	1 U	0	1 U	0	1 U	0	1 U	0
	10/5/11	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	12/14/11	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	3/27/12	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	6/28/12	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	10/3/12	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	12/4/12	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	4/2/13	1 U	0.01	1 U	0	1 U	0	2.7	0	1 U	0	1 U	0
	6/3/13	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	10/16/13	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	12/5/13	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	3/25/14	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	6/17/14	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	8/19/14	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	12/3/14	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 UJ	0
	3/10/15	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 UJ	0
	5/28/15	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	8/24/15	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	4/12/16	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 UJ	0
	7/7/16	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	9/27/16	1 U	0.01	1 UJ	0	1 U	0	0.53 U	0	1 U	0	1 U	0
	11/16/16	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	3/28/17	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	6/13/17	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	9/26/17	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	12/19/17	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	3/21/18	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 UJ	0
	5/9/18	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	8/28/18	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	12/11/18	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	3/7/19	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	6/17/19	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	9/17/19	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	12/12/19	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	3/16/20	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	5/19/20	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	8/13/20	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	12/14/20	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	3/25/21	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	6/22/21	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	9/21/21	1 UJ	0.01	1 UJ	0	1 UJ	0	1 UJ	0	1 UJ	0	1 UJ	0

Table 10

Historical Groundwater Sampling Results - CVOCs (ISMP Wells Only)
Former Emerson Power Transmission Facility
Ithaca, New York (a)

Well ID	Date	1,1-DCE		cis-1,2-DCE		trans-1,2-DCE		PCE		TCE		VC	
	Evaluation Criteria	5	µ/l	5	µ/l	5	µ/l	5		5	µ/l	2	µ/l
	Molecular Weight	96.94	µM	96.95	µM	96.95	µM	165.82	µM	131.38	µM	62.50	µM
EXB-09	12/14/21	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
(continued)	3/22/22	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	6/15/22	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	8/19/22	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	12/15/22	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
EXB-10	1/14/09	1 U	0.01	**36**	0.4	1 U	0	1 U	0	1 U	0	1 U	0
	9/23/09	1 U	0.01	**32**	0.3	1 U	0	1 U	0	0.78 J	0	**2.9**	0
	12/17/09	1 U	0.01	**31.7**	0.3	1 U	0	1 U	0	1 U	0	**4.6**	0.1
	4/6/10	1 U	0.01	**13.7**	0.1	1 U	0	1 U	0	1.6	0	1.8	0
	6/29/10	1 U	0.01	**97.7**	1	1 UJ	0	1 U	0	1 U	0	1.2	0
	9/28/10	1 U	0.01	**16.7**	0.2	1 U	0	1 U	0	1 U	0	**5.9**	0.1
	12/28/10	1 U	0.01	**37.9**	0.4	1 U	0	1 U	0	1 U	0	1.3	0
	3/22/11	1 U	0.01	**55.4**	0.6	1 U	0	1 U	0	1 U	0	1 U	0
	6/22/11	1 U	0.01	**8.7**	0.1	1 U	0	1 U	0	1 U	0	1 U	0
	10/5/11	1 U	0.01	4.4	0	1 U	0	1 U	0	1 U	0	**2**	0
	12/14/11	1 U	0.01	**7.5**	0.1	1 U	0	1 U	0	1 U	0	**2.7**	0
	3/28/12	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	6/28/12	1 U	0.01	4.4	0	1 U	0	1 U	0	1 U	0	1 U	0
	10/2/12	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	12/4/12	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	4/3/13	1 U	0.01	1.5	0	1 U	0	1 U	0	1 U	0	1 U	0
	6/3/13	1 U	0.01	3.3	0	1 U	0	1 U	0	1 U	0	**2.3**	0
	10/16/13	1 U	0.01	2.8	0	1 U	0	1 U	0	1 U	0	**2.1**	0
	12/5/13	1 U	0.01	2.6	0	1 U	0	1 U	0	0.51 J	0	1.2	0
	3/25/14	1 U	0.01	3	0	1 U	0	1 U	0	1 U	0	1.2	0
	6/18/14	1 U	0.01	2.4	0	1 U	0	1 U	0	1 U	0	1.6	0
	8/19/14	1 U	0.01	2.2	0	1 U	0	1 U	0	1 U	0	**2.4**	0
	12/3/14	1 U	0.01	1.2	0	1 U	0	1 U	0	0.51 J	0	1 UJ	0
	3/11/15	1 U	0.01	3.1	0	1 U	0	1 U	0	0.51 J	0	2.8 J	0
	5/27/15	1 U	0.01	1.8	0	1 U	0	1 U	0	1 U	0	1.2	0
	8/24/15	1 U	0.01	1.4	0	1 U	0	1 U	0	1 U	0	1.1	0
	12/14/15	1 U	0.01	2.1	0	1 U	0	1 U	0	1 U	0	1.2	0
	4/12/16	1 U	0.01	1.7	0	1 U	0	1 U	0	1 U	0	1.6	0
	7/6/16	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	9/27/16	1 U	0.01	1.6 J	0	1 U	0	1 U	0	1 U	0	1.3	0
	11/15/16	1 U	0.01	1.3	0	1 U	0	1 UJ	0	1 U	0	1 UJ	0
	3/29/17	1 U	0.01	1.1	0	1 U	0	1 U	0	1 U	0	0.54 J	0
	6/13/17	1 U	0.01	1.8	0	1 U	0	1 U	0	1 U	0	1.8	0
	9/26/17	1 U	0.01	2.1	0	1 U	0	1 U	0	1 U	0	6.2	0.1
	12/19/17	1 U	0.01	1.6	0	1 U	0	1 U	0	1 U	0	0.97 J	0
	3/21/18	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	5/9/18	1 U	0.01	1.7	0	1 U	0	1 U	0	1 U	0	0.71 J	0
	8/28/18	1 U	0.01	1.7	0	1 U	0	1 U	0	1 U	0	1.3	0
	12/11/18	1 U	0.01	1.4	0	1 U	0	1 U	0	1 U	0	1.3	0
	3/6/19	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	6/18/19	1 U	0.01	0.64 J	0	1 U	0	1 U	0	1 U	0	1 U	0
	9/19/19	1 U	0.01	1	0	1 U	0	1 U	0	1 U	0	1.7	0
	12/12/19	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	3/23/20	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	5/19/20	1 UJ	0.01	1.1	0	1 U	0	1 U	0	1 U	0	1.4	0
	8/13/20	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	12/15/20	1 U	0.01	0.52 J	0	1 U	0	1 U	0	1 U	0	1 U	0
	3/25/21	1 U	0.01	0.52 J	0	1 U	0	1 U	0	1 U	0	1 U	0
	6/22/21	1 U	0.01	2.2	0	1 U	0	1 U	0	1 U	0	1 U	0

Table 10

Historical Groundwater Sampling Results - CVOCs (ISMP Wells Only)
Former Emerson Power Transmission Facility
Ithaca, New York (a)

Well ID	Date	1,1-DCE		cis-1,2-DCE		trans-1,2-DCE		PCE		TCE		VC	
	Evaluation Criteria	5	µ/l	5	µ/l	5	µ/l	5		5	µ/l	2	µ/l
	Molecular Weight	96.94	µM	96.95	µM	96.95	µM	165.82	µM	131.38	µM	62.50	µM
EXB-10	9/21/21	1 UJ	0.01	0.62 J	0	1 UJ	0	1 UJ	0	1 UJ	0	1 UJ	0
(continued)	12/15/21	1 U	0.01	0.77 J	0	1 U	0	1 U	0	1 U	0	1 U	0
	3/22/22	1 U	0.01	0.96 J	0	1 U	0	1 U	0	1 U	0	1	0
	6/15/22	1 U	0.01	0.95 J	0	1 U	0	1 U	0	1 U	0	0.91 J	0
	9/20/22	1 U	0.01	2.8	0	1 U	0	1 U	0	1 U	0	1 U	0
	12/15/22	1 U	0.01	1.8	0	1 U	0	1 U	0	1 U	0	0.97 J	0
MW-1B	12/16/05	1 U	0.01	**52**	0.5	1.5	0	4 U	0	**170 E**	1.3	1 U	0
	4/1/09	1 U	0.01	1 J	0	1 U	0	1 U	0	1.8	0	1 U	0
	6/8/09	1 U	0.01	0.87 J	0	1 U	0	1 U	0	1.6	0	1 U	0
	9/22/09	1 U	0.01	0.79 J	0	1 U	0	1 U	0	1.9	0	1 U	0
	12/18/09	1 U	0.01	1 U	0	1 U	0	1 U	0	1.8	0	1 U	0
	4/6/10	1 U	0.01	4.5	0	1 U	0	1 U	0	**9.9**	0.1	1 U	0
	6/29/10	1 U	0.01	1.4	0	1 UJ	0	1 U	0	1.7	0	1 U	0
	9/29/10	1 U	0.01	2.2	0	1 U	0	1 U	0	3.6	0	1 U	0
	12/29/10	1 U	0.01	1.9	0	1 U	0	1 U	0	2.5	0	1 U	0
	3/25/11	1 U	0.01	4.1	0	1 U	0	1 U	0	4.6	0	1 U	0
	6/22/11	1 U	0.01	1.1	0	1 U	0	1 U	0	1.6	0	1 U	0
	10/4/11	1 U	0.01	1.1	0	1 U	0	1 U	0	1	0	1 U	0
	12/14/11	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	3/27/12	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	6/29/12	1 U	0.01	4.3	0	1 U	0	1 U	0	**6.7**	0.1	1 U	0
	10/3/12	1 U	0.01	2.01	0	1 U	0	1 U	0	2.76	0	1 U	0
	12/5/12	1 U	0.01	1 U	0	1 U	0	1 U	0	1.1	0	1 U	0
	4/2/13	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	6/5/13	1 U	0.01	**20.3**	0.2	1 U	0	1 U	0	**28.9**	0.2	1 U	0
	10/18/13	1 U	0.01	0.67 J	0	1 U	0	1 U	0	1.5	0	1 U	0
	12/5/13	1 U	0.01	1.2	0	1 U	0	1 U	0	1.3	0	1 U	0
	3/27/14	1 U	0.01	0.83 J	0	1 U	0	1 U	0	1.1	0	1 U	0
	6/17/14	1 U	0.01	1 U	0	1 U	0	1 U	0	0.58 J	0	1 U	0
	8/20/14	1 U	0.01	1	0	1 U	0	1 U	0	1.6	0	1 U	0
	12/4/14	1 U	0.01	1 U	0	1 U	0	1 U	0	0.95 J	0	1 U	0
	3/12/15	1 U	0.01	1.6	0	1 U	0	1 U	0	1.1	0	1 U	0
	5/28/15	1 U	0.01	2.1	0	1 U	0	1 U	0	4.7	0	1 U	0
	8/24/15	0.84 J	0.01	**253**	2.6	1.9	0	1 U	0	**484**	3.7	**6.2**	0.1
	12/14/15	0.84 J	0.01	**200**	2.1	1.7	0	1 U	0	**321**	2.4	**2.5**	0
	4/12/16	1 U	0.01	0.7 J	0	1 U	0	1 U	0	1	0	1 U	0
	7/6/16	1.4 J	0.01	**665**	6.9	**6.2**	0.1	2 U	0	**1,210**	9.2	**13.8**	0.2
	9/28/16	3.5	0.04	**965 J**	10	**16.3**	0.2	1.1 U	0	**1,400**	11	**34.6**	0.6
	11/15/16	10 U	0.1	**404**	4.2	4.4 J	0	10 UJ	0.1	**462**	3.5	**5.1 J**	0.1
	3/28/17	1 U	0.01	**17.9**	0.2	1 U	0	1 U	0	**29.7**	0.2	1 U	0
	6/14/17	2.5 U	0.03	**416**	4.3	**8.4**	0.1	2.5 U	0	**769**	5.9	**7.2**	0.1
	9/26/17	10 U	0.1	**663**	6.8	**7.9 J**	0.1	10 U	0.1	**1,120**	8.5	**7.8 J**	0.1
	12/18/17	1.2	0.01	**434**	4.5	**5.4**	0.1	1 U	0	**699**	5.3	**9**	0.1
	3/21/18	1 U	0.01	0.78 J	0	1 U	0	1 U	0	0.9 J	0	1 U	0
	5/8/18	1 U	0.01	4.1	0	1 U	0	1 U	0	**8.5**	0.1	1 U	0
	8/29/18	1 U	0.01	7	0.1	1 U	0	1 U	0	**14**	0.1	1 U	0
	12/12/18	1 U	0.01	**72**	0.7	0.77 J	0	1 U	0	**115**	0.9	1 U	0
	3/5/19	1 U	0.01	**78.5 UJ**	0.8	0.72 J	0	1 U	0	**154 J**	1.2	1 U	0
	6/18/19	1 U	0.01	1 U	0	1 U	0	1 U	0	**0.67 J**	0	1 U	0
	9/18/19	1 U	0.01	**10.4**	0.1	1 U	0	1 U	0	**15.7**	0.1	1 U	0
	12/12/19	1 U	0.01	1 U	0	1 U	0	1 U	0	0.57 J	0	1 U	0
	3/18/20	1 U	0.01	1.3	0	1 U	0	1 U	0	1.7	0	1 U	0
	5/15/20	1 UJ	0.01	4.4	0	1 U	0	1 U	0	**6.5**	0	1 U	0
	8/12/20	1 U	0.01	**25.1**	0.3	1 U	0	1 U	0	**60**	0.5	1 U	0

Table 10

Historical Groundwater Sampling Results - CVOCs (ISMP Wells Only)
Former Emerson Power Transmission Facility
Ithaca, New York (a)

Well ID	Date	1,1-DCE		cis-1,2-DCE		trans-1,2-DCE		PCE		TCE		VC	
	Evaluation Criteria	5	µ/l	5	µ/l	5	µ/l	5		5	µ/l	2	µ/l
	Molecular Weight	96.94	µM	96.95	µM	96.95	µM	165.82	µM	131.38	µM	62.50	µM
MW-1B	12/18/20	1 U	0.01	0.76 J	0	1 U	0	1 U	0	0.56 J	0	1 U	0
(continued)	3/24/21	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	6/23/21	1 U	0.01	4.1	0	1 U	0	1 U	0	**7.3**	0.1	1 U	0
	9/22/21	1 UJ	0.01	31.1 J	0.3	1 UJ	0	1 UJ	0	**57.7 J**	0.4	1 U	0
	12/16/21	1 U	0.01	1 U	0	1 U	0	1 U	0	1.1	0	1 U	0
	3/22/22	1 U	0.01	0.96 J	0	1 U	0	1 U	0	1.5	0	1 U	0
	6/15/22	1 U	0.01	9.5	0.1	1 U	0	1 U	0	**15.4**	0.1	1 U	0
	9/22/22	1 U	0.01	1.7	0	1 U	0	1 U	0	2.5	0	1 U	0
MW-2B	11/5/03	2,500 U	25.8	**11,000**	113	2,500 U	26	2,500 U	15	**43,000**	327	2,500 U	40
	12/15/05	**27**	0.28	**14,000 D**	144	**150 E**	1.5	**48**	0.3	**64,000 D**	487	**100 E**	1.6
	4/1/09	**8.8**	0.09	**5,600 D**	58	**65**	0.7	**30**	0.2	**20,000 D**	152	**40**	0.6
	9/22/09	200 U	2.06	**6,400 D**	66	200 U	2.1	200 U	1.2	**21,000 D**	160	**82 D**	1.3
	4/6/10	**14**	0.14	**5,510 D**	57	**63.8**	0.7	**28.2**	0.2	**19,500 D**	148	**133**	2.1
	10/5/10	**19.7**	0.2	**7,560**	78	**122**	1.3	**30.8**	0.2	**18,100**	138	**50.1**	0.8
	3/24/11	**5.7**	0.06	**5,010**	52	**19.9**	0.2	**14.6**	0.1	**12,200**	93	**21.6**	0.3
	10/4/11	**28.7 J**	0.3	**9,500 J**	98	**63.8 J**	0.7	**32.4 J**	0.2	**23,200 J**	177	**199 J**	3.2
	3/27/12	**9.9**	0.1	**3,650**	38	**57.5**	0.6	**13.3**	0.1	**7,010**	53	**24.1**	0.4
	10/1/12	200 U	2.06	**5,900**	61	200 U	2.1	200 U	1.2	**13,800**	105	200 U	3.2
	4/3/13	**10.9**	0.11	**6,420**	66	**30.9**	0.3	**6**	0	**9,730**	74	**39.8**	0.6
	10/18/13	**19.1 J**	0.2	**9,420**	97	**65.8**	0.7	**14.1 J**	0.1	**19,800**	151	**118**	1.9
	3/27/14	40 U	0.41	**6,230**	64	**24.2 J**	0.2	40 U	0.2	**13,800**	105	**52.7**	0.8
	8/20/14	**15.8 J**	0.16	**5,780**	60	**48.7**	0.5	**12.4**	0.1	**11,700 J**	89	**115 J**	1.8
	3/12/15	**13.4**	0.14	**6,000**	62	**38.1**	0.4	**19.4**	0.1	**11,600**	88	**19.6**	0.3
	8/24/15	**15.9**	0.16	**6,820**	70	**37.5**	0.4	**16.3**	0.1	**15,700**	120	**69.2**	1.1
	4/12/16	50 U	0.52	**5,960**	61	**26.6 J**	0.3	50 U	0.3	**13,300**	101	**52**	0.8
	9/27/16	50 U	0.52	**6,050 J**	62	**32.2 J**	0.3	50 U	0.3	**9,730**	74	50 U	0.8
	3/28/17	50 U	0.52	**6,980**	72	**29.5 J**	0.3	**12.8 J**	0.1	**16,900**	129	50 U	0.8
	9/27/17	100 U	1.03	**5,970**	62	**58.8 J**	0.6	100 U	0.6	**15,100**	115	100 U	1.6
	3/21/18	50 U	0.52	**4,770**	49	**28.1 J**	0.3	50 U	0.3	**12,400**	94	50 U	0.8
	8/29/18	20 U	0.21	**4,580**	47	**32.3**	0.3	20 U	0.1	**9,400**	72	**48.3**	0.8
	3/5/19	20 U	0.21	**3,830**	40	**23**	0.2	20 U	0.1	**7,600**	58	20 U	0.3
	9/19/19	20 U	0.21	**3,680**	38	**20.8**	0.2	20 U	0.1	**7,100**	54	**76.8**	1.2
	3/18/20	**10.4**	0.11	**3,460**	36	**40.2**	0.4	**9.1**	0.1	**8,760**	67	**14.4**	0.2
	8/12/20	**13.8 J**	0.14	**6,260**	65	**27.8**	0.3	20 U	0.1	**1,700**	13	**149**	2.4
	3/24/21	20 U	0.21	**5,340**	55	**19.6 J**	0.2	20 U	0.1	**12,100**	92	**17 J**	0.3
	9/22/21	**12.3 J**	0.13	**5,190 J**	54	**34 J**	0.4	10 U	0.1	**8,740 J**	67	**142 J**	2.3
	3/22/22	50 U	0.52	**5,720**	59	**31.8 J**	0.3	50 U	0.3	**7,600**	58	**67.9**	1.1
	9/22/22	50 U	0.52	**5,720**	59	**31.8**	0.3	50 U	0.3	**7,600**	58	**67.9**	1.1
MW-3B	11/5/03	250 U	2.58	**9,800**	101	**53 J**	0.5	250 U	1.5	**3,700**	28	**600**	9.6
	12/15/05	**7.6**	0.08	**3,200 D**	33	**33**	0.3	**9.2**	0.1	**4,200 D**	32	**350 E**	5.6
	4/3/09	4.4	0.05	**1,900 D**	20	**35**	0.4	1.3	0	**1,300 D**	9.9	**210 D**	3.4
	9/22/09	20 U	0.21	**1,400 D**	14	**15 J**	0.2	20 U	0.1	**310 D**	2.4	**97 D**	1.6
	4/6/10	4	0.04	**1,190 D**	12	**17**	0.2	1.5	0	**1,500 D**	11	**181**	2.9
	10/5/10	3.3	0.03	**1,430**	15	**25.1**	0.3	1 U	0	**752**	5.7	**143**	2.3
	3/25/11	1 U	0.01	**749**	7.7	**10.6**	0.1	1 U	0	**77.2**	0.6	**146**	2.3
	10/4/11	**11.5 J**	0.12	**2,450 J**	25	**55.5 J**	0.6	1 U	0	**1,900 J**	14	**321 J**	5.1
	3/27/12	4.3	0.04	**994**	10	**30.7**	0.3	1 U	0	**456**	3.5	**200**	3.2
	10/1/12	20 U	0.21	**1,150**	12	**21.1**	0.2	20 U	0.1	**960 J**	7.3	**175**	2.8
	4/2/13	3	0.03	**337**	3.5	**9.2**	0.1	1 U	0	**180**	1.4	**93.2**	1.5
	10/18/13	2.2	0.02	**577**	6	**10.5**	0.1	1 U	0	**444**	3.4	**250**	4
	3/27/14	2 U	0.02	**377**	3.9	**8.6**	0.1	2 U	0	**69**	0.5	**83.5**	1.3
	8/19/14	1 J	0.01	**558**	5.8	**13.8**	0.1	1 U	0	**101**	0.8	**176 J**	2.8
	3/11/15	2.4	0.02	**723**	7.5	**16.9**	0.2	1 U	0	**222**	1.7	**199 J**	3.2

Table 10

Historical Groundwater Sampling Results - CVOCs (ISMP Wells Only)
Former Emerson Power Transmission Facility
Ithaca, New York (a)

Well ID	Date	1,1-DCE		cis-1,2-DCE		trans-1,2-DCE		PCE		TCE		VC	
	Evaluation Criteria	5	µ/l	5	µ/l	5	µ/l	5		5	µ/l	2	µ/l
	Molecular Weight	96.94	µM	96.95	µM	96.95	µM	165.82	µM	131.38	µM	62.50	µM
MW-3B	8/24/15	1.8	0.02	**512**	5.3	**16.8**	0.2	1 U	0	**97.2**	0.7	**247**	4
(continued)	4/12/16	2 U	0.02	**651**	6.7	**13.5**	0.1	2 U	0	**27.9**	0.2	**183**	2.9
	9/28/16	4 U	0.04	**957 J**	9.9	**18.4**	0.2	4 U	0	**849 J**	6.5	**21.8**	0.3
	3/28/17	0.85 J	0.01	**335**	3.5	**7.1**	0.1	1 U	0	**90.8**	0.7	**80.9**	1.3
	9/27/17	1.8	0.02	**766**	7.9	**12.9**	0.1	1 U	0	**319**	2.4	**153**	2.4
	3/21/18	0.81 J	0.01	**315**	3.2	**6**	0.1	1 U	0	**87.7**	0.7	**58.8**	0.9
	8/29/18	0.96 J	0.01	**339**	3.5	4.8	0	1 U	0	**175**	1.3	**91.9**	1.5
	3/5/19	1.2	0.01	**354**	3.7	**6.8**	0.1	1 U	0	**37.2**	0.3	**119**	1.9
	9/18/19	10 U	0.1	**2,550**	26	**33.8**	0.3	10 U	0.1	**1,690**	13	**213**	3.4
	3/18/20	3.8 J	0.04	**1,830**	19	**18.9**	0.2	5 U	0	**1,850**	14	**16.3**	0.3
	8/12/20	20 U	0.21	**4,160**	43	**34**	0.4	20 U	0.1	**3,750**	29	**192**	3.1
	3/24/21	10 U	0.1	**1,080**	11	**12.8**	0.1	10 U	0.1	**1,400**	11	10 U	0.2
	9/22/21	**10.3 J**	0.11	**4,160 J**	43	**40.5 J**	0.4	10 UJ	0.1	**5,020 J**	38	**58.2 J**	0.9
	12/16/21	10 U	0.1	**1,360**	14	**13.9**	0.1	10 U	0.1	**1,770**	13	**14.8**	0.2
	3/22/22	3.4	0.04	**1,120**	12	**10.9**	0.1	2 U	0	**1,100**	8.4	**4.3**	0.1
	6/16/22	10 U	0.1	**2,000**	21	**22.7**	0.2	10 U	0.1	**1,890**	14	**35.9**	0.6
	9/22/22	**16.8**	0.17	**7,150**	74	**149**	1.5	1.6	0	**4,730**	36	**110**	1.8
	12/14/22	**8.3**	0.09	**4,990**	51	**27.1**	0.3		0	**1,170**	8.9	**133**	2.1
MW-4B	12/15/05	1 U	0.01	1.1	0	1 U	0	1 U	0	1 U	0	**2.6**	0
	4/1/09	1 U	0.01	1 U	0	1 U	0	1 U	0	0.22 J	0	1 U	0
	6/8/09	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	9/24/09	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1.2	0
	12/18/09	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	**4.5**	0.1
	4/7/10	1 U	0.01	2.2	0	1 U	0	1 U	0	1.4	0	1 U	0
	6/30/10	1 U	0.01	1 U	0	1 UJ	0	1 U	0	1 U	0	1.6	0
	9/29/10	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	**4.1**	0.1
	12/29/10	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	**2.1**	0
	3/24/11	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	6/22/11	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	10/4/11	1 U	0.01	1.6 J	0	1 U	0	1 U	0	1.6 J	0	**8.3 J**	0.1
	12/14/11	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1.9	0
	3/27/12	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	6/29/12	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	**2.3**	0
	10/3/12	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	**6.16**	0.1
	12/5/12	1 U	0.01	1.4	0	1 U	0	1 U	0	1 U	0	**15.6**	0.2
	4/3/13	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	**4.2**	0.1
	6/5/13	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1.3	0
	10/18/13	1 U	0.01	1.3	0	1 U	0	1 U	0	1 U	0	**15.6**	0.2
	12/5/13	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	**2.5**	0
	3/27/14	1 U	0.01	0.62 J	0	1 U	0	1 U	0	1 U	0	**6.6**	0.1
	6/17/14	1 U	0.01	0.95 J	0	1 U	0	1 U	0	1 U	0	**25**	0.4
	8/19/14	1 U	0.01	0.89 J	0	1 U	0	1 U	0	1 U	0	**9.7**	0.2
	12/4/14	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	**2.4 J**	0
	3/12/15	1 U	0.01	0.95 J	0	1 U	0	1 U	0	1 U	0	**9.3**	0.1
	5/28/15	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	**2.7**	0
	8/24/15	1 U	0.01	0.38 J	0	1 U	0	1 U	0	1 U	0	**3.9**	0.1
	12/14/15	1 U	0.01	0.57 J	0	1 U	0	1 U	0	1 U	0	**4.1**	0.1
	4/12/16	1 U	0.01	0.6 J	0	1 U	0	1 U	0	1 U	0	**9.2**	0.1
	7/6/16	1 U	0.01	0.53 J	0	1 U	0	1 U	0	1 U	0	**4.5 J**	0.1
	9/28/16	1 U	0.01	0.91 J	0	1 U	0	1 U	0	1 U	0	**7.9**	0.1
	11/15/16	1 U	0.01	1.1	0	1 U	0	1 U	0	1 U	0	**11.3 J**	0.2
	3/28/17	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	**2**	0
	6/12/17	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	**3**	0
	9/27/17	1 U	0.01	0.54 J	0	1 U	0	1 U	0	1 U	0	**4.8**	0.1

Table 10

Historical Groundwater Sampling Results - CVOCs (ISMP Wells Only)
Former Emerson Power Transmission Facility
Ithaca, New York (a)

Well ID	Date	1,1-DCE		cis-1,2-DCE		trans-1,2-DCE		PCE		TCE		VC	
	Evaluation Criteria	5	µ/l	5	µ/l	5	µ/l	5		5	µ/l	2	µ/l
	Molecular Weight	96.94	µM	96.95	µM	96.95	µM	165.82	µM	131.38	µM	62.50	µM
MW-4B	12/18/17	1 U	0.01	0.54 J	0	1 U	0	1 U	0	1 U	0	**4.4**	0.1
(continued)	3/20/18	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	**4.4**	0.1
	5/9/18	1 U	0.01	0.69 J	0	1 U	0	1 U	0	1 U	0	**5.1**	0.1
	8/28/18	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	**2.2**	0
	12/12/18	1 U	0.01	0.56 J	0	1 U	0	1 U	0	1 U	0	**8**	0.1
	3/6/19	1 U	0.01	0.76 J	0	1 U	0	1 U	0	1 U	0	**9.7**	0.2
	6/18/19	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1.8	0
	9/19/19	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	**2.1**	0
	12/12/19	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	**2.7**	0
	3/19/20	1 U	0.01	2.1	0	1 U	0	1 U	0	1 U	0	**25.1**	0.4
	5/14/20	1 UJ	0.01	1.4	0	1 U	0	1 U	0	1 U	0	**14.6**	0.2
	8/12/20	1 U	0.01	1.2	0	1 U	0	1 U	0	1 U	0	**14.9**	0.2
	12/18/20	1 U	0.01	0.84 J	0	1 U	0	1 U	0	1 U	0	**10.2**	0.2
	3/24/21	1 U	0.01	1.2	0	1 U	0	1 U	0	1 U	0	**14.7**	0.2
	6/23/21	1 U	0.01	0.88 J	0	1 U	0	1 U	0	1 U	0	**9.6**	0.2
	9/22/21	1 UJ	0.01	1 UJ	0	1 UJ	0	1 UJ	0	1 UJ	0	**6.3 J**	0.1
	12/15/21	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1.4	0
	3/22/22	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	**5.3**	0.1
	6/15/22	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	**4.8**	0.1
	9/21/22	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1.4	0
	12/14/22	1 U	0.01	0.95 J	0	1 U	0	1 U	0	1 U	0	**10.5**	0.2
MW-5B	11/5/03	600 U	6.19	**32,000 E**	330	**320 J**	3.3	600 U	3.6	**25,000 E**	190	**2,000**	32
	12/15/05	**82**	0.85	**40,000 D**	413	**380 E**	3.9	**74**	0.4	**47,000 D**	358	**1,200 E**	19
	1/14/09	**43**	0.44	**19,000 D**	196	**800 D**	8.3	**89**	0.5	**52,000 D**	396	**700 DJ**	11
	9/23/09	80 U	0.83	**5,800 D**	60	**49 J**	0.5	80 U	0.5	**5,200 D**	40	**140 D**	2.2
	12/21/09	2.3	0.02	**1,210 D**	12	**24.1**	0.2	1.3	0	**657 D**	5	**52.9**	0.8
	4/6/10	**6.4**	0.07	**3,990 D**	41	**101**	1	**10.2**	0.1	**3,750 D**	29	**257**	4.1
	6/30/10	1.4 J	0.01	**1,410**	15	**20.3**	0.2	1.7	0	**781**	5.9	**10.3**	0.2
	9/29/10	**12.4**	0.13	**7,140**	74	**123**	1.3	**11.5**	0.1	**4,450**	34	**511**	8.2
	12/29/10	**17.7**	0.18	**10,400**	107	**81.3**	0.8	**15.1**	0.1	**6,660**	51	**491**	7.9
	3/25/11	1.5	0.02	**967**	10	**10.1**	0.1	3.8	0	**1,330**	10	**5.6**	0.1
	6/22/11	1 U	0.01	**407**	4.2	4.8	0	1 U	0	**297**	2.3	1 U	0
	10/4/11	2.8 J	0.03	**1,510 J**	16	**18.4 J**	0.2	1 U	0	**161 J**	1.2	1 U	0
	12/14/11	4.8	0.05	**2,480**	26	**29.3**	0.3	1 U	0	**399**	3	**89.7**	1.4
	3/27/12	**6**	0.06	**4,420**	46	**59.6**	0.6	3.5	0	**3,450**	26	**55**	0.9
	6/29/12	1.5	0.02	**713**	7.4	**11.8**	0.1	1 U	0	**338**	2.6	**116**	1.9
	10/3/12	20 U	0.21	**279**	2.9	20 U	0.2	20 U	0.1	**40.6**	0.3	**151**	2.4
	12/5/12	4.7	0.05	**1,250**	13	**38.6**	0.4	1 U	0	**261**	2	**314**	5
	4/3/13	5 U	0.05	**918**	9.5	**18.1**	0.2	5 U	0	**406**	3.1	**52.8**	0.8
	6/5/13	10 U	0.1	**1,130**	12	10 U	0.1	10 U	0.1	**512**	3.9	10 U	0.2
	10/18/13	5 U	0.05	**1,950**	20	**29.7**	0.3	5 U	0	**352**	2.7	**249**	4
	12/5/13	1 U	0.01	**975**	10	**10.8**	0.1	0.94 J	0	**347**	2.6	**12.7**	0.2
	3/27/14	2 U	0.02	**515**	5.3	**6.8**	0.1	2 U	0	**272**	2.1	**5.6**	0.1
	6/17/14	5 U	0.05	**507**	5.2	**6.7**	0.1	5 U	0	**1,160**	8.8	**29.8**	0.5
	8/20/14	2 U	0.02	**694**	7.2	**12.9**	0.1	2 U	0	**120**	0.9	105 J	1.7
	12/4/14	1.1	0.01	**527**	5.4	**9.1**	0.1	0.94 J	0	**542**	4.1	51 J	0.8
	3/11/15	2 U	0.02	**342**	3.5	**7**	0.1	1.3 J	0	**742**	5.6	1.7 J	0
	5/28/15	1.4 J	0.01	**760**	7.8	**14**	0.1	1.3 J	0	**727**	5.5	**6.4**	0.1
	8/24/15	2.2	0.02	**716**	7.4	**11.5**	0.1	2.7	0	**1,200**	9.1	**44.9**	0.7
	12/14/15	3	0.03	**880**	9.1	**13.7**	0.1	**5**	0	**1,560**	12	**25**	0.4
	4/12/16	2 U	0.02	**584**	6	**13.1**	0.1	1.3 J	0	**649**	4.9	**6.5**	0.1
	7/7/16	10 U	0.1	**705**	7.3	**9.6 J**	0.1	10 U	0.1	**875**	6.7	10 U	0.2
	9/28/16	4 U	0.04	**870 J**	9	**14.8**	0.2	1.8 U	0	**573**	4.4	**26.4**	0.4
	11/15/16	5 U	0.05	**791**	8.2	**12.5**	0.1	1.7 J	0	**682**	5.2	**15.4 J**	0.2

Table 10

Historical Groundwater Sampling Results - CVOCs (ISMP Wells Only)
Former Emerson Power Transmission Facility
Ithaca, New York (a)

Well ID	Date	1,1-DCE		cis-1,2-DCE		trans-1,2-DCE		PCE		TCE		VC	
	Evaluation Criteria	5	µ/l	5	µ/l	5	µ/l	5		5	µ/l	2	µ/l
	Molecular Weight	96.94	µM	96.95	µM	96.95	µM	165.82	µM	131.38	µM	62.50	µM
MW-5B	3/28/17	0.42 J	0	**226**	2.3	**5.4**	0.1	1.3	0	**591**	4.5	**2.3**	0
(continued)	6/14/17	2.5 U	0.03	**199**	2.1	**5.6**	0.1	2.1 J	0	**864**	6.6	**9.4**	0.2
	9/27/17	1.1 J	0.01	**521**	5.4	**8.1**	0.1	2.2	0	**961**	7.3	**8.8**	0.1
	12/19/17	0.64 J	0.01	**331**	3.4	**6.6**	0.1	0.83 J	0	**527**	4	1.1	0
	3/21/18	1 U	0.01	**223**	2.3	4.8	0	1 U	0	**143**	1.1	**29.2**	0.5
	5/9/18	1 U	0.01	**135**	1.4	3.8	0	0.62 J	0	**232**	1.8	**16.1**	0.3
	8/29/18	1 U	0.01	**88.4**	0.9	2.2	0	1 U	0	**248**	1.9	**19.1**	0.3
	12/12/18	1 U	0.01	**53.5**	0.6	1.2	0	1 U	0	**198**	1.5	1	0
	3/6/19	1 U	0.01	**104**	1.1	2.1	0	1 U	0	**478**	3.6	1 U	0
	6/19/19	1 U	0.01	**133 J**	1.4	2.7	0	0.99 J	0	**316**	2.4	1.3	0
	9/19/19	2.5 U	0.03	**454**	4.7	**5.6**	0.1	2.5 U	0	**479**	3.6	**4.4**	0.1
	12/12/19	5 U	0.05	**528**	5.4	**8**	0.1	5 U	0	**722**	5.5	5 U	0.1
	3/18/20	5 U	0.05	**644**	6.6	**17.8**	0.2	5 U	0	**575**	4.4	**5.4**	0.1
	5/15/20	5 UJ	0.05	**394**	4.1	**11.5**	0.1	5 U	0	**696**	5.3	5 U	0.1
	8/12/20	5 U	0.05	**898**	9.3	**18.7**	0.2	5 U	0	**924**	7	**16.3**	0.3
	12/18/20	1 U	0.01	**260**	2.7	**8.7**	0.1	1 U	0	**375**	2.9	1 U	0
	3/24/21	1 U	0.01	**298**	3.1	**9.9**	0.1	1 U	0	**491**	3.7	1.9	0
	6/23/21	0.81 J	0.01	**384**	4	**10.2**	0.1	1 U	0	**290**	2.2	**22.3**	0.4
	9/22/21	1.2 J	0.01	**393 J**	4.1	**8 J**	0.1	1.3 J	0	**552 J**	4.2	**3.2 J**	0.1
	12/16/21	5 U	0.05	**538**	5.5	**8.5**	0.1	5 U	0	**802**	6.1	**9.1**	0.1
	3/22/22	1 U	0.01	**118**	1.2	4.5	0	1.1	0	**375**	2.9	1.4	0
	6/15/22	1 U	0.01	**329**	3.4	**10.2**	0.1	1.2	0	**656**	5	**2.1**	0
	9/22/22	1.5 U	0.02	**795**	8.2	**11.7**	0.1	0.81	0	**554**	4.2	**27.7**	0.4
	12/14/22	1 U	0.01	**198**	2	2.3	0	1.1	0	**569**	4.3	1 U	0
MW-5-40	4/7/05	**37**	0.38	**19,000 E**	196	**150**	1.5	20 U	0.1	**14,000 E**	107	**350**	5.6
	6/29/06	**55**	0.57	**26,000 D**	268	**180 E**	1.9	**11**	0.1	**29,000 D**	221	**400 E**	6.4
	4/1/09	**22**	0.23	**12,000 D**	124	**92 DJ**	0.9	2	0	**11,000 D**	84	**510 D**	8.2
	9/22/09	200 U	2.06	**16,000**	165	200 U	2.1	200 U	1.2	**28,000 D**	213	**270**	4.3
	4/7/10	**23.2**	0.24	**13,400 D**	138	**177**	1.8	3.6	0	**6,540 D**	50	**390**	6.2
	10/4/10	**28.7**	0.3	**11,400**	118	**128**	1.3	**5.3**	0	**5,550**	42	**314**	5
	3/25/11	**5.7**	0.06	**18,000**	186	**111**	1.1	2.7	0	**6,390**	49	**774**	12
	10/4/11	**7.7 J**	0.08	**6,720 J**	69	**48.1 J**	0.5	3.8	0	**6,760 J**	51	**384 J**	6.1
	3/28/12	**11.2**	0.12	**10,200**	105	**89.1**	0.9	4	0	**6,600**	50	**314**	5
	10/4/12	200 U	2.06	**9,780**	101	200 U	2.1	200 U	1.2	**6,840**	52	**460**	7.4
	4/3/13	**21.6**	0.22	**8,470**	87	**149**	1.5	2.5	0	**4,050**	31	**452**	7.2
	10/18/13	**25.8**	0.27	**13,100**	135	**96.4**	1	20 U	0.1	**9,580**	73	**711**	11
	3/27/14	50 U	0.52	**10,900**	112	**101**	1	50 U	0.3	**6,080**	46	**657**	11
	8/20/14	20 U	0.21	**7,740**	80	**112**	1.2	20 U	0.1	**4,920**	37	**563 J**	9
	3/11/15	**20.2**	0.21	**6,820**	70	**151**	1.6	3	0	**2,320**	18	**565**	9
	8/24/15	**19.1**	0.2	**8,180**	84	**224**	2.3	4.8	0	**5,370**	41	**969**	16
	4/12/16	**17.7 J**	0.18	**12,700**	131	**237**	2.4	20 U	0.1	**1,550**	12	**1,140**	18
	9/27/16	50 U	0.52	**12,000 J**	124	**143**	1.5	50 U	0.3	**4,490**	34	**683**	11
	3/28/17	**22.5 J**	0.23	**12,300**	127	**192**	2	25 U	0.2	**4,430**	34	**505**	8.1
	6/14/17	**30**	0.31	**15,100**	156	**264**	2.7	25 U	0.2	**3,720**	28	**878**	14
	9/26/17	**47.3 J**	0.49	**19,000**	196	**284**	2.9	100 U	0.6	**4,600**	35	**939**	15
	12/19/17	**36.9**	0.38	**16,500**	170	**232**	2.4	10 U	0.1	**3,230**	25	**975**	16
	3/20/18	**29.6 J**	0.31	**15,400**	159	**270**	2.8	50 U	0.3	**2,500**	19	**1,190**	19
	5/9/18	**33.9 J**	0.35	**18,100**	187	**294**	3	50 U	0.3	**2,000**	15	**1,000**	16
	8/29/18	50 U	0.52	**16,500**	170	**256**	2.6	50 U	0.3	**3,780**	29	**733**	12
	12/12/18	50 U	0.52	**13,600**	140	**176**	1.8	50 U	0.3	**2,630**	20	**909**	15
	3/6/19	**22.5 J**	0.23	**9,840**	101	**226**	2.3	25 U	0.2	**3,910**	30	**852**	14
	6/19/19	**27.1**	0.28	**11,400**	118	**247**	2.5	1.8	0	**3,040**	23	**979**	16
	9/19/19	**24**	0.25	**12,200**	126	**325**	3.4	5 U	0	**1,310**	10	**1,010**	16
	12/10/19	25 U	0.26	**4,640**	48	**18.6 J**	0.2	25 U	0.2	**49.8**	0.4	**164**	2.6

Table 10

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Former Emerson Power Transmission Facility
Ithaca, New York (a)

Well ID	Date	1,1-DCE		cis-1,2-DCE		trans-1,2-DCE		PCE		TCE		VC	
	Evaluation Criteria	5	µ/l	5	µ/l	5	µ/l	5		5	µ/l	2	µ/l
	Molecular Weight	96.94	µM	96.95	µM	96.95	µM	165.82	µM	131.38	µM	62.50	µM
MW-5-40	3/20/20	**20.6**	0.21	**10,100**	104	**318**	3.3	20 U	0.1	**2,840**	22	**1,600**	26
(continued)	5/14/20	**20.6**	0.21	**9,130**	94	**233**	2.4	20 U	0.1	**2,790 J**	21	**884**	14
	8/12/20	**16.7 J**	0.17	**10,200**	105	**263**	2.7	25 U	0.2	**2,320**	18	**1,310**	21
	12/17/20	**6.9 J**	0.07	**3,760**	39	**133**	1.4	10 U	0.1	**1,020**	7.8	**1,150**	18
	3/24/21	**16.9**	0.17	**8,600**	89	**327**	3.4	10 U	0.1	**1,460**	11	**1,280**	20
	6/23/21	**21.1**	0.22	**8,370**	86	**158**	1.6	20 U	0.1	**54.6**	0.4	**2,400**	38
	9/22/21	100 U	1.03	**10,900 J**	112	**68.4 J**	0.7	100 U	0.6	**287 J**	2.2	**1,580 J**	25
	12/14/21	50 U	0.52	**10,800**	111	**155**	1.6	50 U	0.3	**307**	2.3	**6,750**	108
	3/23/22	**6.6 J**	0.07	**5,830**	60	**123**	1.3	10 U	0.1	**766**	5.8	**5,780**	92
	6/16/22	50 U	0.52	**6,260**	65	**58.6**	0.6	50 U	0.3	**3,030**	23	**1,500**	24
	9/20/22	10 U	0.1	**2,420**	25	**101**	1	10 U	0.1	**33**	0.3	**4,250**	68
	12/14/22	**13.7**	0.14	**7,780**	80	**56.2**	0.6	10 U	0.1	**1,720**	13	**1,060**	17
MW-5-100	11/12/04	1 U	0.01	0.49 J	0	1 U	0	1 U	0	0.97 J	0	1 U	0
	4/1/09	1 U	0.01	**17**	0.2	0.31 J	0	1 U	0	0.98 J	0	**5.9**	0.1
	6/10/09	1.5	0.02	**1,600 D**	17	25	0.3	0.74 J	0	**580 D**	4.4	1 U	0
	9/22/09	1 U	0.01	**23**	0.2	1 U	0	1 U	0	2.8	0	**5.2**	0.1
	4/7/10	1 U	0.01	**37.3**	0.4	1 U	0	1 U	0	4.7	0	**5.4**	0.1
	10/4/10	1 U	0.01	**39.9**	0.4	1 U	0	1 U	0	1.8	0	**13.1**	0.2
	3/25/11	1 U	0.01	**13.5**	0.1	1 U	0	1 U	0	2.2	0	**7.3**	0.1
	6/29/12	1 U	0.01	**7.1**	0.1	1 U	0	1 U	0	1 U	0	**5.8**	0.1
	10/4/12	1 U	0.01	3.72	0	1 U	0	1 U	0	2.95	0	**1.72**	0
	4/3/13	1 U	0.01	3.5	0	1 U	0	1 U	0	1 U	0	**3.7**	0.1
	10/18/13	1 U	0.01	2.5	0	1 U	0	1 U	0	1.4	0	**2.5**	0
	3/27/14	1 U	0.01	2	0	1 U	0	1 U	0	1 U	0	**3.3**	0.1
	8/19/14	1 U	0.01	2.5	0	1 U	0	1 U	0	2.6	0	**3.6 J**	0.1
	3/11/15	0.9 J	0.01	**20**	0.2	0.77 J	0	1 U	0	0.57 J	0	**42.9**	0.7
	8/24/15	1 U	0.01	3.2	0	0.79 J	0	1 U	0	0.41 J	0	**14.5**	0.2
	4/12/16	1 U	0.01	2.2	0	1 U	0	1 U	0	1 U	0	**4.5**	0.1
	9/28/16	1 U	0.01	2.1 J	0	1 U	0	1 U	0	0.54 J	0	1.5	0
	3/29/17	1 U	0.01	2	0	1 U	0	1 U	0	0.26 J	0	1.5	0
	9/27/17	1 U	0.01	2.3	0	1 U	0	1 U	0	0.53 J	0	**2.1**	0
	3/20/18	1 U	0.01	2.2	0	1 U	0	1 U	0	0.39 J	0	1.8	0
	8/29/18	1 U	0.01	2.5	0	1 U	0	1 U	0	1 U	0	1.8	0
	3/6/19	1 U	0.01	2.2	0	1 U	0	1 U	0	1 U	0	1.5	0
	9/19/19	1 U	0.01	2	0	1 U	0	1 U	0	1 U	0	1.4	0
	3/20/20	1 U	0.01	2	0	1 U	0	1 U	0	1 U	0	1.1	0
	8/12/20	1 U	0.01	2	0	1 U	0	1 U	0	1 U	0	1.5	0
	3/24/21	1 U	0.01	2.2	0	1 U	0	1 U	0	1 U	0	1.4	0
	9/21/21	0.68 J	0.01	**554 J**	5.7	2.7 J	0	1 UJ	0	4.6 J	0	**95.3 J**	1.5
	3/23/22	1 U	0.01	**70.4**	0.7	1 U	0	1 U	0	0.72	0	**16.1**	0.3
	6/16/22	1 U	0.01	**78.9**	0.8	1 U	0	1 U	0	0.99 J	0	**48**	0.8
	9/21/22	1 U	0.01	**33.4**	0.3	1 U	0	1 U	0	1 U	0	**35.4**	0.6
	12/14/22	1 U	0.01	**20.1**	0.2	1 U	0	1 U	0	1 U	0	**21.6**	0.3
MW-7B	3/11/15	1.7	0.02	**951**	9.8	**10.8**	0.1	1 U	0	3	0	**401**	6.4
	4/12/16	1 U	0.01	1.3 J	0	1 U	0	1 U	0	0.79 J	0	1 U	0
	9/27/16	1 U	0.01	1.3 J	0	1 U	0	1 U	0	0.79 J	0	1 U	0
	3/29/17	1 U	0.01	**5.1**	0.1	1 U	0	1 U	0	0.63 J	0	**2.4**	0
	6/13/17	1 U	0.01	**251**	2.6	1.7	0	1 U	0	**13.5**	0.1	**97.9**	1.6
	9/28/17	1 U	0.01	**11.8**	0.1	1	0	1 U	0	0.73 J	0	**76.2**	1.2
	12/19/17	1 U	0.01	1	0	1 U	0	1 U	0	1 U	0	**3.4**	0.1
	3/20/18	1 U	0.01	0.54 J	0	1 U	0	1 U	0	0.36 J	0	1.5	0
	5/8/18	1 U	0.01	**199**	2.1	1.1	0	1 U	0	**175**	1.3	**11.3**	0.2
	8/29/18	1 U	0.01	**25.4**	0.3	1 U	0	1 U	0	**11.5**	0.1	**2**	0

Table 10

Historical Groundwater Sampling Results - CVOCs (ISMP Wells Only)
Former Emerson Power Transmission Facility
Ithaca, New York (a)

Well ID	Date	1,1-DCE		cis-1,2-DCE		trans-1,2-DCE		PCE		TCE		VC	
Evaluation Criteria		5	µ/l	5	µ/l	5	µ/l	5		5	µ/l	2	µ/l
Molecular Weight		96.94	µM	96.95	µM	96.95	µM	165.82	µM	131.38	µM	62.50	µM
MW-7B	12/12/18	1 U	0.01	**17**	0.2	1 U	0	1 U	0	3.2	0	1 U	0
(continued)	3/5/19	1 U	0.01	**5.3**	0.1	1 U	0	1 U	0	0.84 J	0	1 U	0
	6/19/19	1 U	0.01	**8.9**	0.1	1 U	0	1 U	0	0.84 J	0	1 U	0
	9/17/19	1 U	0.01	**182**	1.9	1.6	0	1 U	0	**46.3**	0.4	**43**	0.7
	12/11/19	1 U	0.01	2.2	0	1 U	0	1 U	0	1 U	0	1 U	0
	3/19/20	1 U	0.01	**111**	1.1	0.74 J	0	1 U	0	**19.9**	0.2	**13.2**	0.2
	5/13/20	1 UJ	0.01	**29.4**	0.3	1 U	0	1 U	0	**10.1**	0.1	**2.9**	0
	8/12/20	1 U	0.01	**115**	1.2	0.87 J	0	1 U	0	4.5	0	**86.8**	1.4
	12/16/20	1 U	0.01	**51.6**	0.5	1 U	0	1 U	0	**12.2**	0.1	**7.9**	0.1
	3/23/21	1 U	0.01	**139**	1.4	0.78 J	0	1 U	0	**39.7**	0.3	**15.9**	0.3
	6/23/21	1 U	0.01	4	0	1 U	0	1 U	0	1 U	0	1 U	0
	9/21/21	2.5 U	0.03	**207 J**	2.1	1.4 J	0	2.5 U	0	**9.6** J	0.1	**40 J**	0.6
	12/14/21	0.72 J	0.01	**346**	3.6	1.5	0	1 U	0	**118**	0.9	**30.3**	0.5
	3/22/22	1 U	0.01	**9.5**	0.1	1 U	0	1 U	0	1.6	0	1.1	0
	6/16/22	1 U	0.01	1.3	0	1 U	0	1 U	0	1 U	0	1 U	0
	9/21/22	1 U	0.01	1.7	0	1 U	0	1 U	0	1 U	0	1 U	0
	12/23/22	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
MW-7-40	5/19/05	1 U	0.01	**100 E**	1	3.3	0	1 U	0	1 U	0	**35**	0.6
	12/14/05	2 U	0.02	**180**	1.9	3.1	0	2 U	0	2 U	0	**40**	0.6
	6/29/06	1 U	0.01	**120 E**	1.2	1.3	0	1 U	0	1 U	0	**23**	0.4
	4/2/09	1 U	0.01	**33**	0.3	1.5	0	1 U	0	1 U	0	**30**	0.5
	6/11/09	1 U	0.01	**140 D**	1.4	2.3	0	1 U	0	0.51 J	0	**4.1**	0.1
	9/23/09	1 U	0.01	**97**	1	2	0	1 U	0	1 U	0	**29**	0.5
	4/8/10	1 U	0.01	**227**	2.3	1.6	0	1 U	0	1 U	0	**8.2**	0.1
	10/6/10	1 U	0.01	**145**	1.5	1	0	1 U	0	1 U	0	**10.7**	0.2
	3/25/11	1 U	0.01	**150**	1.5	1 U	0	1 U	0	3.2	0	**17.7**	0.3
	10/4/11	1 U	0.01	**267**	2.8	2.9	0	1 U	0	1 U	0	**42.7**	0.7
	3/27/12	1 U	0.01	**206**	2.1	1.1	0	1 U	0	1 U	0	**38.3**	0.6
	10/4/12	5 U	0.05	**130**	1.3	5 U	0.1	5 U	0	5 U	0	**32.9**	0.5
	4/4/13	1 U	0.01	**155**	1.6	1.6	0	1 U	0	1 U	0	**33.4**	0.5
	3/26/14	1 U	0.01	**138**	1.4	1.4	0	1 U	0	1 U	0	**22.6**	0.4
	8/19/14	1 U	0.01	**218**	2.2	2.4	0	1 U	0	1 U	0	**31.9**	0.5
	3/12/15	1 U	0.01	**115**	1.2	0.85 J	0	1 U	0	1 U	0	**14.5**	0.2
	8/24/15	1 U	0.01	**161**	1.7	1.3	0	1 U	0	1 U	0	**33.2**	0.5
	4/14/16	1 U	0.01	**156**	1.6	1.1	0	1 U	0	1 U	0	**64.9**	1
	9/28/16	1 U	0.01	**133 J**	1.4	0.95 J	0	1 U	0	0.79 J	0	**39.4**	0.6
	3/31/17	1 U	0.01	**88.6**	0.9	1 U	0	1 U	0	1 U	0	**29.3**	0.5
	9/29/17	1 U	0.01	**88.2**	0.9	0.4 J	0	1 U	0	1 U	0	**38.9**	0.6
	3/23/18	1 U	0.01	**104**	1.1	0.76 J	0	1 U	0	1 U	0	**27.2**	0.4
	8/31/18	1 U	0.01	**179**	1.8	3.1	0	1 U	0	1 U	0	**23.2**	0.4
	3/7/19	1 U	0.01	**84.7**	0.9	1 U	0	1 U	0	1 U	0	**27.6**	0.4
	9/18/19	1 U	0.01	**75.6**	0.8	1 U	0	1 U	0	1 U	0	**30.3**	0.5
	3/23/20	1 U	0.01	**127**	1.3	0.83 J	0	1 U	0	1 U	0	1 U	0
	8/13/20	1 U	0.01	**82.8**	0.9	0.54 J	0	1 U	0	1 U	0	**22.2**	0.4
	3/23/21	1 U	0.01	**124**	1.3	0.84 J	0	1 U	0	1 U	0	0.81 J	0
	9/21/21	1 UJ	0.01	**85.6 J**	0.9	1.1 J	0	1 UJ	0	1 UJ	0	**15.2 J**	0.2
	3/24/22	1 U	0.01	1	0	1 U	0	1 U	0	1 U	0	1 U	0
	9/21/22	1 U	0.01	**150**	1.5	2.2	0	1 U	0	1 U	0	**41.5**	0.7
MW-8-40	5/19/05	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	12/14/05	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	6/29/05	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	4/3/09	1 U	0.01	1 U	0	1 U	0	1 U	0	0.74 J	0	1 U	0
	6/9/09	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0

Table 10

Historical Groundwater Sampling Results - CVOCs (ISMP Wells Only)
Former Emerson Power Transmission Facility
Ithaca, New York (a)

Well ID	Date	1,1-DCE		cis-1,2-DCE		trans-1,2-DCE		PCE		TCE		VC	
	Evaluation Criteria	5	µ/l	5	µ/l	5	µ/l	5		5	µ/l	2	µ/l
	Molecular Weight	96.94	µM	96.95	µM	96.95	µM	165.82	µM	131.38	µM	62.50	µM
MW-8-40	9/24/09	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
(continued)	4/8/10	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	10/7/10	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	3/23/11	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	10/4/11	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	3/27/12	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	10/3/12	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	4/3/13	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	10/28/13	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	3/27/14	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	8/19/14	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	3/16/15	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	8/24/15	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	4/14/16	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	9/27/16	1 U	0.01	1 UJ	0	1 U	0	1 U	0	1 U	0	1 U	0
	3/31/17	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	9/28/17	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	3/21/18	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	8/30/18	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	8/30/18	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	3/8/19	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	9/19/19	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	12/11/19	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	3/18/20	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	8/13/20	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	3/25/21	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	9/23/21	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	3/22/22	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	9/22/22	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
MW-15-40	4/1/09	**22**	0.23	**12,000 D**	124	**92 D**	0.9	2	0	**11,000 D**	84	**510 D**	8.2
	9/22/09	200 U	2.06	**16,000**	165	200 U	2.1	200 U	1.2	**28,000 D**	213	**270**	4.3
	4/7/10	**23.2**	0.24	**13,400 D**	138	**177**	1.8	3.6	0	**6,540 D**	50	**390**	6.2
	10/4/10	**28.7**	0.3	**11,400**	118	**128**	1.3	**5.3**	0	**5,550**	42	**314**	5
	3/25/11	**5.7**	0.06	**18,000**	186	**111**	1.1	2.7	0	**6,390**	49	**774**	12
	10/4/11	**7.7 J**	0.08	**6,720 J**	69	**48.1 J**	0.5	3.8	0	**6,760 J**	51	**384 J**	6.1
	3/28/12	**11.2**	0.12	**10,200**	105	**89.1**	0.9	4	0	**6,600**	50	**314**	5
	10/4/12	200 U	2.06	**9,780**	101	200 U	2.1	200 U	1.2	**6,840**	52	**460**	7.4
	4/3/13	**21.6**	0.22	**8,470**	87	**149**	1.5	2.5	0	**4,050**	31	**452**	7.2
	10/18/13	**25.8**	0.27	**13,100**	135	**96.4**	1	20 U	0.1	**9,580**	73	**711**	11
	3/27/14	50 U	0.52	**10,900**	112	**101**	1	50 U	0.3	**6,080**	46	**657**	11
	8/20/14	20 U	0.21	**7,740**	80	**112**	1.2	20 U	0.1	**4,920**	37	**563 J**	9
	3/11/15	**20.2**	0.21	**6,820**	70	**151**	1.6	3	0	**2,320**	18	**565**	9
	8/24/15	**19.1**	0.2	**8,180**	84	**224**	2.3	4.8	0	**5,370**	41	**969**	16
	4/12/16	**17.7 J**	0.18	**12,700**	131	**237**	2.4	20 U	0.1	**1,550**	12	**1,140**	18
	9/27/16	50 U	0.52	**12,000 J**	124	**143**	1.5	50 U	0.3	**4,490**	34	**683**	11
	3/28/17	**22.5 J**	0.23	**12,300**	127	**192**	2	25 U	0.2	**4,430**	34	**505**	8.1
	6/14/17	**30**	0.31	**15,100**	156	**264**	2.7	25 U	0.2	**3,720**	28	**878**	14
	9/26/17	**47.3 J**	0.49	**19,000**	196	**284**	2.9	100 U	0.6	**4,600**	35	**939**	15
	12/19/17	**36.9**	0.38	**16,500**	170	**232**	2.4	10 U	0.1	**3,230**	25	**975**	16
	3/20/18	**29.6 J**	0.31	**15,400**	159	**270**	2.8	50 U	0.3	**2,500**	19	**1,190**	19
	5/9/18	**33.9 J**	0.35	**18,100**	187	**294**	3	50 U	0.3	**2,000**	15	**1,000**	16
	8/29/18	50 U	0.52	**16,500**	170	**256**	2.6	50 U	0.3	**3,780**	29	**733**	12
	12/12/18	50 U	0.52	**13,600**	140	**176**	1.8	50 U	0.3	**2,630**	20	**909**	15
	3/6/19	**22.5 J**	0.23	**9,840**	101	**226**	2.3	25 U	0.2	**3,910**	30	**852**	14

Table 10

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Former Emerson Power Transmission Facility
Ithaca, New York (a)

Well ID	Date	1,1-DCE		cis-1,2-DCE		trans-1,2-DCE		PCE		TCE		VC	
Evaluation Criteria		5	µ/l	5	µ/l	5	µ/l	5		5	µ/l	2	µ/l
Molecular Weight		96.94	µM	96.95	µM	96.95	µM	165.82	µM	131.38	µM	62.50	µM
MW-15-40	6/19/19	**27.1**	0.28	**11,400**	118	**247**	2.5	1.8	0	**3,040**	23	**979**	16
(continued)	9/19/19	**24**	0.25	**12,200**	126	**325**	3.4	5 U	0	**1,310**	10	**1,010**	16
	12/10/19	25 U	0.26	**4,640**	48	**18.6 J**	0.2	25 U	0.2	**49.8**	0.4	**164**	2.6
	3/20/20	**20.6**	0.21	**10,100**	104	**318**	3.3	20 U	0.1	**2,840**	22	**1,600**	26
	5/14/20	**20.6**	0.21	**9,130**	94	**233**	2.4	20 U	0.1	**2,790 J**	21	**884**	14
	8/12/20	**16.7 J**	0.17	**10,200**	105	**263**	2.7	25 U	0.2	**2,320**	18	**1,310**	21
	12/17/20	**6.9 J**	0.07	**3,760**	39	**133**	1.4	10 U	0.1	**1,020**	7.8	**1,150**	18
	3/24/21	**16.9**	0.17	**8,600**	89	**327**	3.4	10 U	0.1	**1,460**	11	**1,280**	20
	6/23/21	**21.1**	0.22	**8,370**	86	**158**	1.6	20 U	0.1	**54.6**	0.4	**2,400**	38
	9/22/21	100 U	1.03	**10,900**	112	**68.4**	0.7	100 U	0.6	**287**	2.2	**1,580**	25
	12/14/21	50 U	0.52	**10,800**	111	**155**	1.6	50 U	0.3	**307**	2.3	**6,750**	108
	3/23/22	**6.6**	0.07	**5,830**	60	**123**	1.3	10 U	0.1	**766**	5.8	**5,780**	92
	6/16/22	50 U	0.52	**6,260**	65	**58.6**	0.6	50 U	0.3	**3,030**	23	**1,500**	24
	9/20/22	10 U	0.1	**2,420**	25	**101**	1	10 U	0.1	**33**	0.3	**4,250**	68
	12/14/2022	**13.7**	0.14	**7,780**	80	**56.2**	0.6	10 U	0.1	**1,720**	13	**1,060**	17
MW-16-100	12/14/05	1 U	0.01	**120 E**	1.2	2	0	1 U	0	2	0	**4**	0.1
	4/2/09	0.63 J	0.01	**600 D**	6.2	4.6	0	1 U	0	1.4	0	**56**	0.9
	6/9/09	1.1	0.01	**770 D**	7.9	3.6	0	1 U	0	0.91 J	0	**93**	1.5
	9/24/09	10 U	0.1	**780**	8	4.9 J	0.1	10 U	0.1	10 U	0.1	**76**	1.2
	4/6/10	1 U	0.01	**501 D**	5.2	1.6	0	1 U	0	2.8	0	**99.4**	1.6
	10/6/10	1 U	0.01	**65.3**	0.7	1 U	0	1 U	0	1 U	0	**28.3**	0.5
	10/6/11	1 U	0.01	**165 J**	1.7	1.9 J	0	1 U	0	1 U	0	**146 J**	2.3
	3/27/12	1 U	0.01	**293**	3	2.3	0	1 U	0	1 U	0	**84.5**	1.4
	10/4/12	1 U	0.01	**176**	1.8	1.28	0	1 U	0	**6.49**	0	**49.9**	0.8
	4/4/13	1 U	0.01	**162**	1.7	1 U	0	1 U	0	1 U	0	**33.1**	0.5
	10/18/13	1 U	0.01	**51**	0.5	1 U	0	1 U	0	1 U	0	**25.3 J**	0.4
	3/26/14	1 U	0.01	**137**	1.4	0.75 J	0	1 U	0	1 U	0	**23.5**	0.4
	8/20/14	1 U	0.01	**138**	1.4	1 U	0	1 U	0	2.3	0	**41**	0.7
	3/12/15	1 U	0.01	**80.9**	0.8	0.53 J	0	1 U	0	1 U	0	**34.2**	0.5
	8/24/15	1 U	0.01	**42.4**	0.4	1.3	0	1 U	0	1 U	0	**45.6**	0.7
	4/14/16	1 U	0.01	**47.1**	0.5	1 U	0	1 U	0	1 U	0	**48.8**	0.8
	9/27/16	1 U	0.01	**22.2 J**	0.2	1 U	0	1 U	0	1 U	0	**10.6**	0.2
	3/30/17	1 U	0.01	**54.9**	0.6	1 U	0	1 U	0	1 U	0	**21.6**	0.3
	9/29/17	1 U	0.01	**47.7**	0.5	1 U	0	1 U	0	1 U	0	**11.7**	0.2
	3/23/18	1 U	0.01	**37.7**	0.4	1 U	0	1 U	0	1 U	0	**21.9**	0.4
	8/31/18	1 U	0.01	**18.9**	0.2	1 U	0	1 U	0	1 U	0	**13**	0.2
	3/7/19	1 U	0.01	**32.8**	0.3	1 U	0	1 U	0	1 U	0	**19**	0.3
	9/17/19	1 U	0.01	**6.7**	0.1	1 U	0	1 U	0	1 U	0	**2.5**	0
	9/17/19	1 U	0.01	**8.2**	0.1	1 U	0	1 U	0	1 U	0	**2.9**	0
	3/24/20	1 U	0.01	**39.4**	0.4	1 U	0	1 U	0	1 U	0	**99.6**	1.6
	8/11/20	1 U	0.01	**22.3**	0.2	1 U	0	1 U	0	1 U	0	**114**	1.8
	3/23/21	1 U	0.01	**8.7**	0.1	1 U	0	1 U	0	1 U	0	**54.4**	0.9
	9/21/21	1 U	0.01	1.4 J	0	1 UJ	0	1 U	0	1 U	0	**17.1 J**	0.3
	3/23/22	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	9/21/22	1 U	0.01	4	0	1 U	0	1 U	0	1 U	0	**19**	0.3
MW-17-40	4/7/05	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	12/15/05	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	6/28/06	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	4/2/09	1 U	0.01	1 U	0	1 U	0	1 U	0	0.22 J	0	1 U	0
	6/9/09	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	9/22/09	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	4/7/10	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	10/6/10	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0

Table 10

Historical Groundwater Sampling Results - CVOCs (ISMP Wells Only)
Former Emerson Power Transmission Facility
Ithaca, New York (a)

Well ID	Date	1,1-DCE		cis-1,2-DCE		trans-1,2-DCE		PCE		TCE		VC	
Evaluation Criteria		5	µ/l	5	µ/l	5	µ/l	5		5	µ/l	2	µ/l
Molecular Weight		96.94	µM	96.95	µM	96.95	µM	165.82	µM	131.38	µM	62.50	µM
MW-17-40	3/24/11	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
(continued)	10/5/11	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	3/27/12	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	10/3/12	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	4/3/13	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	10/17/13	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	3/26/14	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	8/19/14	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	3/12/15	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	8/24/15	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	4/14/16	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	9/27/16	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	3/29/17	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	9/28/17	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	3/22/18	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	8/30/18	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	3/6/19	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	9/18/19	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	3/17/20	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	8/11/20	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	3/22/21	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	9/22/21	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	3/24/22	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	9/22/22	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
MW-18A	2/25/05	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	4/8/05	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	12/13/05	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	6/28/06	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	4/1/09	1 U	0.01	0.37 J	0	1 U	0	1 U	0	0.88 J	0	1 U	0
	9/24/09	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	4/7/10	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	10/7/10	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	3/24/11	1 U	0.01	4.8	0	1 U	0	1 U	0	4.5	0	1.2	0
	10/5/11	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	3/27/12	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	10/3/12	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	4/2/13	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	10/18/13	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	3/25/14	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	8/18/14	1 U	0.01	2.7	0	1 U	0	1 U	0	2	0	1 U	0
	3/12/15	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	8/24/15	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	4/12/16	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	9/26/16	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	3/29/17	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	9/28/17	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	3/22/18	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	8/29/18	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	3/8/19	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	9/19/19	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	3/17/20	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	8/13/20	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	3/25/21	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	9/23/21	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0

Table 10

Historical Groundwater Sampling Results - CVOCs (ISMP Wells Only)
Former Emerson Power Transmission Facility
Ithaca, New York (a)

Well ID	Date	1,1-DCE		cis-1,2-DCE		trans-1,2-DCE		PCE		TCE		VC	
	Evaluation Criteria	5	µ/l	5	µ/l	5	µ/l	5		5	µ/l	2	µ/l
	Molecular Weight	96.94	µM	96.95	µM	96.95	µM	165.82	µM	131.38	µM	62.50	µM
MW-18A	3/22/22	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
(continued)	9/22/22	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
MW-20B	4/7/05	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	12/14/05	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	6/28/06	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	4/1/09	1 U	0.01	1 U	0	1 U	0	1 U	0	0.25 J	0	1 U	0
	9/24/09	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	12/18/09	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	4/7/10	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	10/5/10	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	3/23/11	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	10/4/11	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	12/14/11	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
MW-20B	3/27/12	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	6/29/12	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	10/3/12	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	4/3/13	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	10/18/13	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	3/26/14	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	8/19/14	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	3/16/15	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	8/24/15	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	4/13/16	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 UJ	0
	9/26/16	1 U	0.01	1 UJ	0	1 U	0	1 U	0	1 U	0	1 U	0
	3/30/17	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	9/27/17	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	3/21/18	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	8/29/18	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	3/8/19	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	3/8/19	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	6/19/19	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	9/19/19	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	3/18/20	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	8/13/20	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	3/25/21	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	9/23/21	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	3/22/22	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	9/21/22	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
MW-22B	4/7/05	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	12/13/05	1 U	0.01	1 U	0	1 U	0	1 U	0	1.1	0	1 U	0
	6/28/06	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	4/2/09	1 U	0.01	0.65 J	0	0.71 J	0	1 U	0	0.36 J	0	1 U	0
	9/24/09	1 U	0.01	1.3	0	0.57 J	0	1 U	0	1 U	0	1.1	0
	4/8/10	1 U	0.01	1.6	0	1 U	0	1 U	0	1 U	0	1 U	0
	10/5/10	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	**3.1**	0
	3/23/11	1 U	0.01	2.3	0	1 U	0	1 U	0	1.1	0	1.8	0
	10/5/11	1 U	0.01	1.4	0	1 U	0	1 U	0	1 U	0	1 U	0
	3/27/12	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	10/3/12	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	4/2/13	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	10/18/13	1 U	0.01	0.68 J	0	1 U	0	1 U	0	0.71 J	0	1 U	0
	3/25/14	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	8/20/14	1 U	0.01	1 U	0	1 U	0	1 U	0	0.55 J	0	1 U	0

Table 10

Historical Groundwater Sampling Results - CVOCs (ISMP Wells Only)
Former Emerson Power Transmission Facility
Ithaca, New York (a)

Well ID	Date	1,1-DCE		cis-1,2-DCE		trans-1,2-DCE		PCE		TCE		VC	
	Evaluation Criteria	5	µ/l	5	µ/l	5	µ/l	5		5	µ/l	2	µ/l
	Molecular Weight	96.94	µM	96.95	µM	96.95	µM	165.82	µM	131.38	µM	62.50	µM
MW-22B	3/12/15	1 U	0.01	0.73 J	0	1 U	0	1 U	0	0.28 J	0	1.1	0
(continued)	8/24/15	1 U	0.01	1.1	0	1 U	0	1 U	0	1 U	0	1.3	0
	11/3/15	1 U	0.01	1.1	0	1 U	0	1 U	0	1 U	0	1.6	0
	1/6/16	1 U	0.01	0.86 J	0	1 U	0	1 U	0	1 U	0	**2.3**	0
	4/12/16	1 U	0.01	0.65 J	0	1 U	0	1 U	0	1 U	0	1.5	0
	9/26/16	1 U	0.01	1.1 J	0	1 U	0	1 U	0	1 U	0	2	0
	3/29/17	1 U	0.01	0.71 J	0	1 U	0	1 U	0	1 U	0	1.2	0
	9/28/17	1 U	0.01	1.1	0	1 U	0	1 U	0	1 U	0	1.6	0
	9/28/17	1 U	0.01	1.2	0	1 U	0	1 U	0	1 U	0	1.7	0
	3/21/18	1 U	0.01	0.61 J	0	1 U	0	1 U	0	1 U	0	1.7	0
	8/31/18	1 U	0.01	0.55 J	0	1 U	0	1 U	0	1 U	0	1.2	0
	3/8/19	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	9/19/19	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	3/17/20	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	8/13/20	1 U	0.01	0.68 J	0	1 U	0	1 U	0	1 U	0	1	0
	3/25/21	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	9/23/21	1 U	0.01	0.75 J	0	1 U	0	1 U	0	1 U	0	1 U	0
	3/22/22	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	9/22/22	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
MW-31B	8/18/05	1 U	0.01	1.3	0	1 U	0	1 U	0	**5.5**	0	1 U	0
	12/13/05	1 U	0.01	1 U	0	1 U	0	1 U	0	3.4	0	1 U	0
	3/23/22	2 U	0.02	0.9 J	0	1 U	0	1 U	0	**15**	0.1	2 U	0
MW-32B	8/18/05	1 U	0.01	1 U	0	1 U	0	1 U	0	200 D	1.5	1 U	0
	1/14/09	1 U	0.01	**200 D**	2.1	1.4	0	1 U	0	**140 D**	1.1	1 U	0
	4/1/09	1 U	0.01	**240 D**	2.5	2	0	1 U	0	**170 D**	1.3	1 U	0
	6/10/09	1 U	0.01	**190 D**	2	1.1	0	1 U	0	**160 D**	1.2	1 U	0
	9/24/09	2 U	0.02	**130**	1.3	0.84 J	0	2 U	0	**130**	1	2 U	0
	12/18/09	1 U	0.01	**73**	0.8	1 U	0	1 U	0	**95.9**	0.7	1 U	0
	4/6/10	1 U	0.01	**132**	1.4	1 U	0	1 U	0	**107**	0.8	1 U	0
	6/29/10	1 U	0.01	**94**	1	1 UJ	0	1 U	0	**80.2**	0.6	1 U	0
	10/5/10	1 U	0.01	**67.9**	0.7	1 U	0	1 U	0	**49.1**	0.4	1 U	0
	12/29/10	1 U	0.01	**78.9**	0.8	1 U	0	1 U	0	**46.4**	0.4	1 U	0
	3/23/11	1 U	0.01	**50.8**	0.5	1 U	0	1 U	0	**33.9**	0.3	1 U	0
	10/4/11	1 UR	0.01	**57 J**	0.6	1 UR	0	1 UR	0	**59.3 J**	0.5	1 UR	0
	12/14/11	1 U	0.01	**28.2**	0.3	1 U	0	1 U	0	**43.1**	0.3	1 U	0
	3/27/12	1 U	0.01	**51.1**	0.5	1 U	0	1 U	0	**60.9**	0.5	1 U	0
	6/29/12	1 U	0.01	**45.8**	0.5	1 U	0	1 U	0	**77.6**	0.6	1 U	0
	10/3/12	1 U	0.01	**37.3**	0.4	1 U	0	1 U	0	**30**	0.2	1 U	0
	12/5/12	1 U	0.01	**38.7**	0.4	1 U	0	1 U	0	**58.4**	0.4	1 U	0
	4/3/13	1 U	0.01	**44.4**	0.5	1	0	1 U	0	**60.8**	0.5	1 U	0
	6/3/13	1 U	0.01	**23.9**	0.2	1.9	0	1 U	0	**75**	0.6	1 U	0
	10/1/13	1 U	0.01	**31**	0.3	1 U	0	1 U	0	**75**	0.6	1 U	0
	10/18/13	1 U	0.01	**34.2**	0.4	0.7 J	0	1 U	0	**64.4**	0.5	1 U	0
	12/6/13	1 U	0.01	**13.4**	0.1	1 U	0	1 U	0	**38.3**	0.3	1 U	0
	3/26/14	1 U	0.01	**25.1**	0.3	0.56 J	0	1 U	0	**39.2**	0.3	1 U	0
	6/17/14	1 U	0.01	**15**	0.2	1 U	0	1 U	0	**53.3**	0.4	1 U	0
	8/19/14	1 U	0.01	**19.8**	0.2	1 U	0	1 U	0	**45.4**	0.3	1 U	0
	12/3/14	1 U	0.01	**15.2**	0.2	1 U	0	1 U	0	**32.8**	0.2	1 U	0
	3/11/15	1 U	0.01	**11.4**	0.1	1 U	0	1 U	0	**11.5**	0.1	1 U	0
	5/26/15	1 U	0.01	**16 J**	0.2	1 U	0	1 U	0	**50**	0.4	1 U	0
	8/24/15	1 U	0.01	**17.8**	0.2	1 U	0	1 U	0	**49.9**	0.4	1 U	0
	12/16/15	1 U	0.01	**8.6**	0.1	1 U	0	1 U	0	**34.6**	0.3	1 U	0
	4/13/16	1 U	0.01	**10.5**	0.1	1 U	0	1 U	0	**36.6**	0.3	1 U	0

Table 10

Historical Groundwater Sampling Results - CVOCs (ISMP Wells Only)
Former Emerson Power Transmission Facility
Ithaca, New York (a)

Well ID	Date	1,1-DCE		cis-1,2-DCE		trans-1,2-DCE		PCE		TCE		VC	
Evaluation Criteria		5	µ/l	5	µ/l	5	µ/l	5		5	µ/l	2	µ/l
Molecular Weight		96.94	µM	96.95	µM	96.95	µM	165.82	µM	131.38	µM	62.50	µM
MW-32B	7/6/16	1 U	0.01	**13.2**	0.1	1 U	0	1 U	0	**56.1**	0.4	1 U	0
(continued)	9/26/16	1 U	0.01	**13.4 J**	0.1	1 U	0	0.45 J	0	**53.9**	0.4	1 U	0
	11/15/16	1 U	0.01	**8**	0.1	1 U	0	0.37 U	0	**34.2**	0.3	1 U	0
	3/30/17	1 U	0.01	**8.7**	0.1	1 U	0	1 U	0	**27.2**	0.2	1 U	0
	6/14/17	1 U	0.01	**14.5**	0.1	0.47 J	0	1 U	0	**39.9**	0.3	1 U	0
	9/27/17	1 U	0.01	**10.3**	0.1	1 U	0	1 U	0	**49**	0.4	1 U	0
	12/20/17	1 U	0.01	**13**	0.1	1 U	0	1 U	0	**31.4**	0.2	1 U	0
	3/21/18	1 U	0.01	**14.2**	0.1	0.4 J	0	1 U	0	**25.8**	0.2	1 U	0
	5/10/18	1 U	0.01	**9.4**	0.1	0.52 J	0	1 U	0	**38.7**	0.3	1 U	0
	8/29/18	1 U	0.01	**13.5**	0.1	1 U	0	1 U	0	**58.2**	0.4	1 U	0
	12/12/18	1 U	0.01	**6.7**	0.1	1 U	0	1 U	0	**23.6**	0.2	1 U	0
	3/8/19	1 U	0.01	**11.8**	0.1	1 U	0	1 U	0	**24.4**	0.2	1 U	0
	6/18/19	1 U	0.01	**7.3**	0.1	1 U	0	1 U	0	**32.2**	0.2	1 U	0
	9/17/19	1 U	0.01	**10.3**	0.1	1 U	0	1 U	0	**41**	0.3	1 U	0
	5/15/20	1 U	0.01	**7.3**	0.1	1 U	0	1 U	0	**32.8**	0.2	1 U	0
	8/13/20	1 U	0.01	**12.3**	0.1	1 U	0	1 U	0	**56.5**	0.4	1 U	0
	12/17/20	1 U	0.01	**6.9**	0.1	1 U	0	1 U	0	**30.6**	0.2	1 U	0
	3/24/21	1 U	0.01	**9**	0.1	1 U	0	1 U	0	**23.4**	0.2	1 U	0
	9/23/21	1 U	0.01	**15.9 J**	0.2	1 U	0	1 U	0	**19.5 J**	0.1	1 U	0
	12/16/21	1 U	0.01	**7.1**	0.1	1 U	0	1 U	0	**23.4**	0.2	1 U	0
	3/22/22	1 U	0.01	**13.2**	0.1	1 U	0	1 U	0	**22.2**	0.2	1 U	0
	9/20/22	1 U	0.01	**7.8**	0.1	1 U	0	1 U	0	**35.1**	0.3	1 U	0
	12/14/22	1 U	0.01	4.8	0	1 U	0	1 U	0	**24.1**	0.2	1 U	0
MW-40T	10/16/07	5 U	0.05	**62**	0.6	0.77 J	0	5 U	0	**15**	0.1	**11**	0.2
	1/3/15	**10.8**	0.11	**2,800**	29	**36.8**	0.4	1 U	0	**102**	0.8	**199**	3.2
	1/7/16	**7.6**	0.08	**1,650**	17	**18**	0.2	**5.4**	0	**183**	1.4	**21.3**	0.3
MW-46-43C	8/17/17	50 U	0.52	**19,800**	204	**106**	1.1	50 U	0.3	**8,710**	66	**562**	9
	9/26/17	**30.3 J**	0.31	**17,900**	185	**112**	1.2	50 U	0.3	**7,900**	60	**589**	9.4
	12/19/17	**34.5**	0.36	**21,500**	222	**107**	1.1	25 U	0.2	**3,830**	29	**889**	14
	3/20/18	100 U	1.03	**16,200**	167	**96.5 J**	1	100 U	0.6	**8,470**	64	**987**	16
	5/8/18	**36.1 J**	0.37	**18,600**	192	**135**	1.4	50 U	0.3	**8,220**	63	**944**	15
	8/28/18	**41.1 J**	0.42	**29,700**	306	**173**	1.8	50 U	0.3	**9,900**	75	**1,260**	20
	12/12/18	100 U	1.03	**22,200**	229	**117**	1.2	100 U	0.6	**4,750**	36	**1,260**	20
	3/5/19	200 U	2.06	**24,200**	250	**155 J**	1.6	200 U	1.2	**6,720**	51	**1,250**	20
	6/19/19	**34.3**	0.35	**19,100**	197	**115**	1.2	25 U	0.2	**6,650**	51	**1,110**	18
	9/17/19	**52.8**	0.54	**25,700**	265	**148**	1.5	25 U	0.2	**5,140**	39	**1,740**	28
	12/10/19	**36.1 J**	0.37	**22,700**	234	**145**	1.5	50 U	0.3	**3,950**	30	**1,080**	17
	3/20/20	**38.1 J**	0.39	**22,300**	230	**136**	1.4	50 U	0.3	**5,340**	41	**1,490**	24
	5/13/20	100 U	1.03	**23,900**	247	**158 J**	1.6	100 U	0.6	**4,860 J**	37	**1,220 J**	20
	8/11/20	100 U	1.03	**25,200**	260	**143**	1.5	100 U	0.6	**4,140**	32	**1,650**	26
	12/17/20	**32.4 J**	0.33	**21,500**	222	**119**	1.2	50 U	0.3	**3,180**	24	**1,560**	25
	3/23/21	**37.7 J**	0.39	**25,200**	260	**115**	1.2	50 U	0.3	**4,370**	33	**1,590**	25
	6/22/21	39	0.4	**18,300 J**	189	**137 J**	1.4	25 U	0.2	**3,600 J**	27	**1,890 J**	30
	9/22/21	100 U	1.03	**6,740 J**	70	**85.1 J**	0.9	100 U	0.6	100 U	0.8	**13,400 J**	214
	12/14/21	20 U	0.21	**6,160**	64	**72.3**	0.7	20 U	0.1	20 U	0.2	**6,100**	98
	3/23/22	**22.5 J**	0.23	**13,000**	134	**99.5**	1	25 U	0.2	**144**	1.1	**5,670**	91
	6/15/22	100 U	1.03	**14,500**	150	**104**	1.1	100 U	0.6	**57.2 J**	0.4	**8,700**	139
	9/20/22	100 U	1.03	**14,600**	151	**112**	1.2	100 U	0.6	100 U	0.8	**8,960**	143
	12/13/22	100 U	1.03	**12,300**	127	**142**	1.5	100 U	0.6	100 U	0.8	**7,460**	119
MW-46-72C	8/17/17	100 U	1.03	**1,370**	14	100 U	1	**95.1 J**	0.6	**19,800**	151	100 U	1.6
	9/26/17	100 U	1.03	**3,160**	33	100 U	1	**95.2 J**	0.6	**17,900**	136	100 U	1.6
	12/19/17	**24.8**	0.26	**15,500**	160	**66.3**	0.7	**23.4**	0.1	**7,260**	55	**40.7**	0.7

Table 10

Historical Groundwater Sampling Results - CVOCs (ISMP Wells Only)
Former Emerson Power Transmission Facility
Ithaca, New York (a)

Well ID	Date	1,1-DCE		cis-1,2-DCE		trans-1,2-DCE		PCE		TCE		VC	
	Evaluation Criteria	5	µ/l	5	µ/l	5	µ/l	5		5	µ/l	2	µ/l
	Molecular Weight	96.94	µM	96.95	µM	96.95	µM	165.82	µM	131.38	µM	62.50	µM
MW-46-72C	3/20/18	50 U	0.52	**11,600**	120	**46.8 J**	0.5	**43.1 J**	0.3	**9,660**	74	50 U	0.8
(continued)	5/8/18	**20.8 J**	0.21	**9,780**	101	**57.9**	0.6	**18.2 J**	0.1	**6,850**	52	**62.9**	1
	8/28/18	**24.2 J**	0.25	**14,200**	146	**100**	1	25 U	0.2	**8,810**	67	**276**	4.4
	12/12/18	**15.5 J**	0.16	**7,940**	82	**41.7**	0.4	25 U	0.2	**7,570**	58	**815**	13
	3/5/19	100 U	1.03	**8,630**	89	100 U	1	100 U	0.6	**19,300**	147	**220**	3.5
	6/19/19	**20.1 J**	0.21	**14,700**	152	**55.5**	0.6	25 U	0.2	**15,700**	120	**201**	3.2
	9/18/19	25 U	0.26	**4,720**	49	**30.5**	0.3	**25.2**	0.2	**12,800**	97	**108**	1.7
	12/10/19	**27.5**	0.28	**24,700**	255	**165**	1.7	**25.9**	0.2	**20,500**	156	**285**	4.6
	3/20/20	50 U	0.52	**14,500**	150	**54.6**	0.6	50 U	0.3	**23,400**	178	**87.1**	1.4
	5/13/20	**20.4** J	0.21	**9,740**	100	**58.7**	0.6	25 U	0.2	**14,500**	110	**87.6**	1.4
	8/12/20	200 U	2.06	**12,200**	126	200 U	2.1	200 U	1.2	**48,200**	367	200 U	3.2
	12/16/20	**18.4 J**	0.19	**13,000**	134	**50.1**	0.5	25 U	0.2	**3,750**	29	**178**	2.8
	3/24/21	20 U	0.21	**9,140**	94	**33.7**	0.3	20 U	0.1	**4,570**	35	**199**	3.2
	6/23/21	**18.6 J**	0.19	**12,900**	133	**39.3**	0.4	25 U	0.2	**2,460**	19	**820**	13
	9/21/21	50 U	0.52	**16,400 J**	169	**133 J**	1.4	50 U	0.3	**1,610** J	12	**4,940 J**	79
	12/16/21	**98 J**	1.01	**59,800**	617	**412**	4.2	100 U	0.6	**4,870**	37	**2,680**	43
	3/23/22	**82 J**	0.85	**51,300**	529	**291**	3	100 U	0.6	**4,280**	33	**2,150**	34
	6/15/22	100 U	1.03	**22,200**	229	**119**	1.2	100 U	0.6	**1,570**	12	**1,310**	21
	9/20/22	20 U	0.21	**11,200**	116	**42**	0.4	20 U	0.1	**1,090**	8.3	**964**	15
	12/13/22	20 U	0.21	**13,500**	139	**41.1**	0.4	20 U	0.1	**3,180**	24	**2,360**	38
MW-50-160D		**7.5 J**	0.08	**5,010**	52	**27.5**	0.3	10 U	0.1	**117**	0.9	**1,300**	21
	3/23/22	25 U	0.26	**4,520**	47	**27.3**	0.3	25 U	0.2	**60.8**	0.5	**2,280**	36
	6/15/22	10 U	0.1	**2,600**	27	**15.5**	0.2	10 U	0.1	**49.5**	0.4	**785**	13
	9/20/22	10 U	0.1	**3,150**	32	**17.1**	0.2	10 U	0.1	**23**	0.2	**1,120**	18
	12/14/22	10 U	0.1	**2,910**	30	10 U	0.1	10 U	0.1	10 U	0.1	**1,040**	17
WSP-MW-04B	1/8/16	1.3	0.01	**345**	3.6	**55.8**	0.6	1 U	0	**110**	0.8	**46.7**	0.7
LBA-MW-23	9/16/13	5 U	0.05	**8.3**	0.1	5 U	0.1	5 U	0	5 U	0	5 U	0.1
	1/8/16	1 U	0.01	**18.2**	0.2	1 U	0	1.7	0	1.1	0	1.4	0
LBA-MW-34N	12/9/13	1 U	0.01	1 U	0	1 U	0	1 U	0	1 U	0	1 U	0
	12/22/13	1 U	0.01	**5.3**	0.1	1 U	0	1 U	0	2.3	0	1 U	0
	1/7/14	1 U	0.01	2.3	0	1 U	0	1 U	0	1.6	0	1 U	0
	7/23/14	0.98 J	0.01	**136**	1.4	1.5	0	1 U	0	**10.2**	0.1	**24.5**	0.4
LBA-MW-39	12/9/13	**58.7**	0.61	**20.4**	0.2	1 U	0	1 U	0	4.6	0	**7.4**	0.1
	4/15/14	**10**	0.1	3.9	0	1 U	0	1 U	0	1.3	0	1 U	0
	1/19/16	**30.6**	0.32	**11.9**	0.1	1 U	0	1 U	0	2.6	0	**3.6**	0.1

Notes:

1,1-Dichloroethene = 1,1-DCE; cis-1,2-Dichloroethene = cis-1,2-DCE; trans-1,2-Dichloroethene = trans-1,2-DCE;
Tetrachloroethene = PCE; Trichloroethene = TCE; Vinyl Chloride = VC

Bold = compound exceeds criteria

Table 11

Historical Groundwater Sampling Results
Barium and Cyanide (ISMP Wells Only)
Former Emerson Power Transmission Facility
Ithaca, New York (a) (mg/l)

Well ID	Date Sampled		Barium	Cyanide
		Evaluation Criteria:	1	0.2
MW-31B	11/4/15		0.043	--
	11/4/15	Duplicate	0.044	--
	1/6/16		0.057	--
MW-44T	6/16/2016		**2.38**	--
	6/16/2016	Duplicate	**2.37**	
	12/19/2016		**2.85**	
WSP-MW-04B	1/8/2016		--	**0.6**
WSP-MW-06C	1/7/2016		**4.65**	0.1
	10/16/2019		--	0.04
WSP-MW-08B	1/19/2016		--	0.04
LBA-MW-08	9/10/2013		0.76	**8**
	7/23/2014		--	**8.4**
	1/19/2016		--	0.04
	10/17/2019		--	**7.4**
LBA-MW-13	9/11/2013		0.17	**1.3**
	1/4/2016		--	**1.6**
LBA-MW-18	9/13/2013		**3.7**	**0.57**
	8/12/2014		**5.71**	**0.62**
LBA-MW-26	9/14/2013		**8.6**	0.053
	1/6/2016		**3.42**	--
	1/6/2016	Duplicate	**2.98**	--
	10/15/2019		--	0.13
LBA-MW-30	9/14/2013		--	0.11
	1/7/2016		**1.35**	--
LBA-MW-34N	12/22/2013		**10.8**	--
	1/5/2016		**8.11**	--
LBA-MW-35	12/4/2013		**61.6**	0.01 U
	1/16/2014		**3.8**	**0.59**
	1/5/2016		**2.12**	--
LBA-MW-39	12/9/2013		0.22	**0.29**
	1/15/2014		0.936	0.18
	10/15/2019		--	**0.22**

Table 11

Historical Groundwater Sampling Results
Barium and Cyanide (ISMP Wells Only)
Former Emerson Power Transmission Facility
Ithaca, New York (a) (mg/l)

Well ID	Date Sampled	Barium	Cyanide
	Evaluation Criteria:	1	0.2
LBA-MW-43N	1/15/2014	0.783	**2.3**
LBA-MW-43S	1/15/2014	**6.78**	**0.4**
	1/5/2016	**6.51**	--

a/ -- = well not sampled for analyte; U = analyte not detected at or above the reporting limit; mg/l = milligrams per liter

Bold = exceeds criteria

Table 12

SPDES Permit Equivalent Discharge Results - Outfall 01A
Former Emerson Power Transmission Facility
Ithaca, New York (a)

Parameter	Units (a)	Discharge Limit (b)	Outfall 01A Results (c)		
			10/14/2022	11/14/2022	12/19/2022
Flow	GPD	Monitor	**11,520 (d)**	**11,520 (d); 468 (e)**	**10,800 (d); 633 (e)**
pH (range)	SU	6.5 - 8.5	**8.12**	**8.09**	**7.88**
Temperature	deg F	Monitor	**64.8**	**64.4**	**64.9**
Tetrachloroethene	µg/l	1	ND (0.41)	ND (0.41)	ND (0.41)
Trichloroethene	µg/l	10	ND (0.43)	ND (0.43)	ND (0.43)
Sum of Dichlorobenzenes	µg/l	10	ND (1.3)	ND (1.3)	ND (1.3)
Bromoform	µg/l	10	ND (0.60)	ND (0.60)	ND (0.60)
Chlorobenzene	µg/l	5	ND (0.33)	ND (0.33)	ND (0.33)
Chlorodibromomethane	µg/l	10	ND (0.43)	ND (0.43)	ND (0.43)
Chloroform	µg/l	10	ND (0.50)	ND (0.50)	ND (0.50)
Free Cyanide	µg/l	Monitor (f)	ND (3)	ND (3)	ND (3)
Dichlorobromomethane	µg/l	10	ND (0.35)	ND (0.35)	ND (0.35)
1,1-Dichloroethane	µg/l	10	ND (0.42)	ND (0.42)	ND (0.42)
1,1-Dichloroethene	µg/l	10	ND (0.45)	ND (0.45)	ND (0.45)
Methylene chloride	µg/l	10	ND (0.41)	ND (0.41)	ND (0.41)
1,1,2,2-Tetrachloroethane	µg/l	10	ND (0.32)	ND (0.32)	ND (0.32)
Toluene	µg/l	50	ND (0.36)	ND (0.36)	ND (0.36)
trans-1,2-Dichloroethene	µg/l	10	ND (0.46)	ND (0.46)	ND (0.46)
cis-1,2-Dichloroethene	µg/l	10	**2.9**	**2.7**	**3.2**
1,1,1-Trichloroethene	µg/l	10	ND (0.43)	ND (0.43)	ND (0.43)
Xylenes, total	µg/l	10	ND (0.35)	ND (0.35)	ND (0.35)
Vinyl chloride	µg/l	10	ND (0.79)	ND (0.79)	ND (0.79)
Benzene	µg/l	1	ND (0.34)	ND (0.34)	ND (0.34)

a/ GPD = gallons per day; SU = standard units; deg F = degrees Fahrenheit; µg/1= micrograms per liter.

b/ Discharge limit specified in Emerson Electric Co. Project Site Remediation Wastewater Discharge SPDES Permit Equivalent, dated August 1, 2022, DER Site ID# 7-55-010.

c/ ND = not detected above method detection limit provided in parentheses.

d/ Estimated maximum flow rate during a batch discharge of the groundwater treatment system.
Because the discharge is not continuous, the actual maximum daily flow rate would be less than this value.

e/ Estimated average flow based on totalizer reading.

f/ Per Footnote 1 of SPDES Permit Equivalent, an interim limit of "Monitor Only" shall apply for free cyanide from August 1, 2022, until July 31, 2025. The water quality-based effluent limit of 5.2 µg/l Monthly Average and 22 µg/l Daily Maximum for free cyanide will become effective on August 1, 2025.

Bold means detected value

Table 13

SPDES Permit Equivalent Discharge Results - Outfall 001
Former Emerson Power Transmission Facility
Ithaca, New York

Parameter	Units (a)	Discharge Limit (b)	Outfall 001 Results (c)		
			10/14/2022	11/14/2022	12/19/2022
Flow	GPD	Monitor	**51,778 (d)**	**51,778 (d)**	**24,099 (d)**
pH (range)	SU	6.5 - 8.5	**8.1**	**8.0**	**8.0**
Total Barium	µg/l	Monitor	NS	NS	**57.1 J**
Total Lead	µg/l	7.4	ND (2.4)	ND (2.4)	**12.0**
Tetrachloroethene	µg/l	1	ND (0.41)	ND (0.41)	ND (0.41)
Trichloroethene	µg/l	10	ND (0.43)	ND (0.43)	ND (0.43)
Free Cyanide	µg/l	Monitor (e)	ND (3)	NS	ND (3)

a/ GPD = gallons per day; SU = standard units; µg/1= micrograms per liter.

b/ Discharge limit specified in Emerson Electric Co. Project Site Remediation Wastewater Discharge SPDES Permit Equivalent, dated August 1, 2022, DER Site ID# 7-55-010.

c/ ND = not detected above method detection limit provided in parentheses; J = estimated concentration; NS = not sampled because only required to be sampled quarterly. (If a duplicate sample was collected, the higher of the two concentrations is reported.)

d/ Estimated based on field measurement and V-notch (triangular) weir calculator (https://www.lmnoeng.com/Weirs/vweir.php).

e/ Per Footnote 1 of SPDES Permit Equivalent, an interim limit of "Monitor Only" shall apply for free cyanide from August 1, 2022, until July 31, 2025. The water quality-based effluent limit of 5.2 µg/l Monthly Average and 22 µg/l Daily Maximum for free cyanide will become effective on August 1, 2025.

= exceeds discharge limit; **Bold** means detected value

Table 14

SPDES Permit Equivalent Discharge Results - Outfall 009
Former Emerson Power Transmission Facility
Ithaca, New York (a)

Parameter	Units (a)	Discharge Limit (b)	Outfall 009 Result (c)
			12/19/2022
Free Cyanide	µg/l	Monitor (d)	ND (3)

a/ µg/1= micrograms per liter.

b/ Discharge limit specified in Emerson Electric Co. Project Site Remediation Wastewater Discharge SPDES Permit Equivalent, dated August 1, 2022, DER Site ID# 7-55-010.

c/ ND = not detected above method detection limit provided in parentheses.

d/ Per Footnote 1 of SPDES Permit Equivalent, an interim limit of Monitor Only shall apply from August 1, 2022, until July 31, 2025. The water quality-based effluent limit of 5.2 µg/l Monthly Average and 22 µg/l Daily Maximum for Cyanide will become effective on August 1, 2025.

Table 15

SPDES Permit Equivalent Discharge Results - Outfall 011
Former Emerson Power Transmission Facility
Ithaca, New York

Parameter	Units (a)	Discharge Limit	Outfall 011 Results (b)	
			10/14/2022	11/14/2022
Free Cyanide	µg/l	None specified	ND (3)	ND (3)

a/ µg/1= micrograms per liter.
b/ ND = not detected above method detection limit provided in parentheses.

APPENDIX

A ENVIRONMENTAL EASEMENT

ENVIRONMENTAL EASEMENT GRANTED PURSUANT TO ARTICLE 71, TITLE 36 OF THE NEW YORK STATE ENVIRONMENTAL CONSERVATION LAW

THIS INDENTURE made this 11th day of October, 2022 between Owner, Emersub 15 LLC, having an office at c/o Emerson Electric Co., 800 West Florissant Avenue, St. Louis, County of St. Louis, State of Missouri (the "Grantor"), and The People of the State of New York (the "Grantee"), acting through their Commissioner of the Department of Environmental Conservation (the "Commissioner", or "NYSDEC" or "Department" as the context requires) with its headquarters located at 625 Broadway, Albany, New York 12233,

WHEREAS, the Legislature of the State of New York has declared that it is in the public interest to encourage the remediation of abandoned and likely contaminated properties ("sites") that threaten the health and vitality of the communities they burden while at the same time ensuring the protection of public health and the environment; and

WHEREAS, the Legislature of the State of New York has declared that it is in the public interest to establish within the Department a statutory environmental remediation program that includes the use of Environmental Easements as an enforceable means of ensuring the performance of operation, maintenance, and/or monitoring requirements and the restriction of future uses of the land, when an environmental remediation project leaves residual contamination at levels that have been determined to be safe for a specific use, but not all uses, or which includes engineered structures that must be maintained or protected against damage to perform properly and be effective, or which requires groundwater use or soil management restrictions; and

WHEREAS, the Legislature of the State of New York has declared that Environmental Easement shall mean an interest in real property, created under and subject to the provisions of Article 71, Title 36 of the New York State Environmental Conservation Law ("ECL") which contains a use restriction and/or a prohibition on the use of land in a manner inconsistent with engineering controls which are intended to ensure the long term effectiveness of a site remedial program or eliminate potential exposure pathways to hazardous waste or petroleum; and

WHEREAS, Grantor, is the owner of real property located at the address of 620-640 Aurora Street South in the Town of Ithaca, County of Tompkins and State of New York, known and designated on the tax map of the County Clerk of Tompkins as tax map parcel number: Section 106 Block 1 Lot 8.2, being a portion of the property conveyed to Grantor by deed dated December 2, 2014 and recorded in the Tompkins County Clerk's Office in Instrument No. 2014-14695.

WHEREAS, Grantor, is the owner of real property located at the address of V/L South Aurora Street in the Town of Ithaca, County of Tompkins and State of New York, known and designated on the tax map of the County Clerk of Tompkins as tax map parcel number: Section 106 Block 1 Lot 8.1, being a portion of the property conveyed to Grantor by deed dated December 2, 2014 and recorded in the Tompkins County Clerk's Office in Instrument No. 2014-14695.

WHEREAS, Grantor, is the owner of real property located at the address of 810 Danbury Road in the City of Ithaca, County of Tompkins and State of New York, known and designated on

the tax map of the County Clerk of Tompkins as tax map parcel number: Section 40 Block 3 Lot 3, being a portion of the property conveyed to Grantor by deed dated December 2, 2014 and recorded in the Tompkins County Clerk's Office in Instrument No. 2014-14695.

WHEREAS, Grantor, is the owner of real property located at the address of Portion of Stone Quarry Road in the City of Ithaca, County of Tompkins and State of New York, known and designated on the tax map of the County Clerk of Tompkins as tax map parcel number: Section 40 Block 3 Lot 14.2, being a portion of the property conveyed to Grantor by deed dated December 2, 2014 and recorded in the Tompkins County Clerk's Office in Instrument No. 2014-14695.

WHEREAS, the property subject to this Environmental Easement (the "Controlled Property") comprises approximately 61.54 +/- acres, and is hereinafter more fully described in the Land Title Survey dated August 5, 2021 and last revised on August 11, 2022 prepared by Fagan Engineers & Land Surveyors PC (Mark E. Flora, License No. 051097), which will be attached to the Site Management Plan. The Controlled Property description is set forth in and attached hereto as Schedule A; and

WHEREAS, the Department accepts this Environmental Easement in order to ensure the protection of public health and the environment and to achieve the requirements for remediation established for the Controlled Property until such time as this Environmental Easement is extinguished pursuant to ECL Article 71, Title 36; and

NOW THEREFORE, in consideration of the mutual covenants contained herein and the terms and conditions of Order on Consent Index Number: A7-0125-87-09, Grantor conveys to Grantee a permanent Environmental Easement pursuant to ECL Article 71, Title 36 in, on, over, under, and upon the Controlled Property as more fully described herein ("Environmental Easement").

1. Purposes. Grantor and Grantee acknowledge that the Purposes of this Environmental Easement are: to convey to Grantee real property rights and interests that will run with the land in perpetuity in order to provide an effective and enforceable means of encouraging the reuse and redevelopment of this Controlled Property at a level that has been determined to be safe for a specific use while ensuring the performance of operation, maintenance, and/or monitoring requirements; and to ensure the restriction of future uses of the land that are inconsistent with the above-stated purpose.

2. Institutional and Engineering Controls. The controls and requirements listed in the Department approved Site Management Plan ("SMP") including any and all Department approved amendments to the SMP are incorporated into and made part of this Environmental Easement. These controls and requirements apply to the use of the Controlled Property, run with the land, are binding on the Grantor and the Grantor's successors and assigns, and are enforceable in law or equity against any owner of the Controlled Property, any lessees and any person using the Controlled Property.

A. (1) A 52.4-acre +/- portion of the Controlled Property, as described in Schedule B, may be used for:

Restricted Residential as described in 6 NYCRR Part 375-1.8(g)(2)(ii),

Commercial as described in 6 NYCRR Part 375-1.8(g)(2)(iii) and Industrial as described in 6 NYCRR Part 375-1.8(g)(2)(iv);

(2) A 7.16-acre +/- portion of the Controlled Property, as described in Schedule C, may be used for:

Commercial as described in 6 NYCRR Part 375-1.8(g)(2)(iii) and Industrial as described in 6 NYCRR Part 375-1.8(g)(2)(iv);

(3) A 2.00-acre +/- portion of the Controlled Property, as described in Schedule D, may be used for:

Industrial as described in 6 NYCRR Part 375-1.8(g)(2)(iv);

(4) All Engineering Controls must be operated and maintained as specified in the Site Management Plan (SMP);

(5) All Engineering Controls must be inspected at a frequency and in a manner defined in the SMP;

(6) The use of groundwater underlying the property is prohibited without necessary water quality treatment as determined by the NYSDOH or the Tompkins County Department of Health to render it safe for use as drinking water or for industrial purposes, and the user must first notify and obtain written approval to do so from the Department;

(7) Groundwater and other environmental or public health monitoring must be performed as defined in the SMP;

(8) Data and information pertinent to Site Management of the Controlled Property must be reported at the frequency and in a manner defined in the SMP;

(9) All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with the SMP;

(10) Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in the SMP;

(11) Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical components of the remedy shall be performed as defined in the SMP;

(12) Access to the site must be provided to agents, employees or other representatives of the State of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified by this Environmental Easement.

B. The 52.4-acre +/- portion of the Controlled Property described in Schedule B shall not be used for Residential purposes as defined in 6NYCRR 375-1.8(g)(2)(i), and the above-stated engineering controls may not be discontinued without an amendment or extinguishment of this Environmental Easement.

C. The 7.16-acre +/- portion of the Controlled Property described in Schedule C shall not be used for Residential or Restricted Residential purposes as defined in 6NYCRR 375-1.8(g)(2)(i) and (ii), and the above-stated engineering controls may not be discontinued without an amendment or extinguishment of this Environmental Easement.

D. The 2.00-acre +/- portion of the Controlled Property described in Schedule D shall not be used for Residential, Restricted Residential or Commercial purposes as defined in 6NYCRR 375-1.8(g)(i), (ii) and (iii), and the above-stated engineering controls may not be discontinued without an amendment or extinguishment of this Environmental Easement.

E. The SMP describes obligations that the Grantor assumes on behalf of Grantor, its successors and assigns. The Grantor's assumption of the obligations contained in the SMP which may include sampling, monitoring, and/or operating a treatment system, and providing certified reports to the NYSDEC, is and remains a fundamental element of the Department's determination that the Controlled Property is safe for a specific use, but not all uses. The SMP may be modified in accordance with the Department's statutory and regulatory authority. The Grantor and all successors and assigns, assume the burden of complying with the SMP and obtaining an up-to-date version of the SMP from:

Site Control Section
Division of Environmental Remediation
NYSDEC
625 Broadway
Albany, New York 12233
Phone: (518) 402-9553

F. Grantor must provide all persons who acquire any interest in the Controlled Property a true and complete copy of the SMP that the Department approves for the Controlled Property and all Department-approved amendments to that SMP.

G. Grantor covenants and agrees that until such time as the Environmental Easement is extinguished in accordance with the requirements of ECL Article 71, Title 36 of the ECL, the property deed and all subsequent instruments of conveyance relating to the Controlled Property shall state in at least fifteen-point bold-faced type:

This property is subject to an Environmental Easement held by the New York State Department of Environmental Conservation pursuant to Title 36 of Article 71 of the Environmental Conservation Law.

H. Grantor covenants and agrees that this Environmental Easement shall be incorporated in full or by reference in any leases, licenses, or other instruments granting a right to use the Controlled Property.

I. Grantor covenants and agrees that it shall, at such time as NYSDEC may require, submit to NYSDEC a written statement by an expert the NYSDEC may find acceptable certifying under penalty of perjury, in such form and manner as the Department may require, that:

(1) the inspection of the site to confirm the effectiveness of the institutional and engineering controls required by the remedial program was performed under the direction of the individual set forth at 6 NYCRR Part 375-1.8(h)(3).

(2) the institutional controls and/or engineering controls employed at such site:

(i) are in-place;

(ii) are unchanged from the previous certification, or that any identified changes to the controls employed were approved by the NYSDEC and that all controls are in the Department-approved format; and

(iii) that nothing has occurred that would impair the ability of such control to protect the public health and environment;

(3) the owner will continue to allow access to such real property to evaluate the continued maintenance of such controls;

(4) nothing has occurred that would constitute a violation or failure to comply with any site management plan for such controls;

(5) the report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

(6) to the best of his/her knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and

(7) the information presented is accurate and complete.

3. Right to Enter and Inspect. Grantee, its agents, employees, or other representatives of the State may enter and inspect the Controlled Property in a reasonable manner and at reasonable times to assure compliance with the above-stated restrictions.

4. Reserved Grantor's Rights. Grantor reserves for itself, its assigns, representatives, and successors in interest with respect to the Property, all rights as fee owner of the Property, including:

A. Use of the Controlled Property for all purposes not inconsistent with, or limited by the terms of this Environmental Easement;

B. The right to give, sell, assign, or otherwise transfer part or all of the underlying fee interest to the Controlled Property, subject and subordinate to this Environmental Easement;

5. Enforcement

A. This Environmental Easement is enforceable in law or equity in perpetuity by Grantor, Grantee, or any affected local government, as defined in ECL Section 71-3603, against the owner of the Property, any lessees, and any person using the land. Enforcement shall not be defeated because of any subsequent adverse possession, laches, estoppel, or waiver. It is not a defense in any action to enforce this Environmental Easement that: it is not appurtenant to an interest in real property; it is not of a character that has been recognized traditionally at common law; it imposes a negative burden; it imposes affirmative obligations upon the owner of any interest in the burdened property; the benefit does not touch or concern real property; there is no privity of estate or of contract; or it imposes an unreasonable restraint on alienation.

B. If any person violates this Environmental Easement, the Grantee may revoke the Certificate of Completion with respect to the Controlled Property.

C. Grantee shall notify Grantor of a breach or suspected breach of any of the terms of this Environmental Easement. Such notice shall set forth how Grantor can cure such breach or suspected breach and give Grantor a reasonable amount of time from the date of receipt of notice in which to cure. At the expiration of such period of time to cure, or any extensions granted by Grantee, the Grantee shall notify Grantor of any failure to adequately cure the breach or suspected breach, and Grantee may take any other appropriate action reasonably necessary to remedy any breach of this Environmental Easement, including the commencement of any proceedings in accordance with applicable law.

D. The failure of Grantee to enforce any of the terms contained herein shall not be deemed a waiver of any such term nor bar any enforcement rights.

6. Notice. Whenever notice to the Grantee (other than the annual certification) or approval from the Grantee is required, the Party providing such notice or seeking such approval shall identify the Controlled Property by referencing the following information:

County, NYSDEC Site Number, NYSDEC Brownfield Cleanup Agreement, State Assistance Contract or Order Number, and the County tax map number or the Liber and Page or computerized system identification number.

Parties shall address correspondence to:

Site Number: 755010
Office of General Counsel
NYSDEC
625 Broadway
Albany New York 12233-5500

With a copy to:

Site Control Section
Division of Environmental Remediation
NYSDEC
625 Broadway
Albany, NY 12233

All notices and correspondence shall be delivered by hand, by registered mail or by Certified mail and return receipt requested. The Parties may provide for other means of receiving and communicating notices and responses to requests for approval.

7. Recordation. Grantor shall record this instrument, within thirty (30) days of execution of this instrument by the Commissioner or her/his authorized representative in the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

8. Amendment. Any amendment to this Environmental Easement may only be executed by the Commissioner of the New York State Department of Environmental Conservation or the Commissioner's Designee, and filed with the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property

Law.

9. Extinguishment. This Environmental Easement may be extinguished only by a release by the Commissioner of the New York State Department of Environmental Conservation, or the Commissioner's Designee, and filed with the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

10. Joint Obligation. If there are two or more parties identified as Grantor herein, the obligations imposed by this instrument upon them shall be joint and several.

11. Consistency with the SMP. To the extent there is any conflict or inconsistency between the terms of this Environmental Easement and the SMP, regarding matters specifically addressed by the SMP, the terms of the SMP will control.

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IN WITNESS WHEREOF, Grantor has caused this instrument to be signed in its name.

Emersub 15 LLC:

By: Stph L. C

Print Name: Stephen L. Clarke

Title: President Date: 9/20/2022

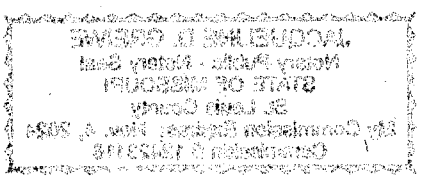
Grantor's Acknowledgment

STATE OF ~~NEW YORK~~ Missouri)
) ss:
COUNTY OF St. Louis)

On the 20th day of September in the year 2022, before me, the undersigned, personally appeared ~~Stephen L. Clarke~~, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.

Jacqueline D. Greiwe
Notary Public - State of ~~New York~~ Missouri

JACQUELINE D. GREIWE
Notary Public - Notary Seal
STATE OF MISSOURI
St. Louis County
My Commission Expires: Nov. 4, 2024
Commission # 12423116


JACQUELINE D. CREWS
Notary Public - Notary Seal
STATE OF MISSOURI
St. Louis County
My Commission Expires: Nov. 4, 2024
Commission # 18629116

THIS ENVIRONMENTAL EASEMENT IS HEREBY ACCEPTED BY THE PEOPLE OF THE STATE OF NEW YORK, Acting by and Through the Department of Environmental Conservation as Designee of the Commissioner,

By: _____
Andrew O. Guglielmi, Director
Division of Environmental Remediation

Grantee's Acknowledgment

STATE OF NEW YORK)
) ss:
COUNTY OF ALBANY)

On the 11th day of October, in the year 2022 before me, the undersigned, personally appeared Andrew O. Guglielmi, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within instrument and acknowledged to me that he/she/ executed the same in his/her/ capacity as Designee of the Commissioner of the State of New York Department of Environmental Conservation, and that by his/her/ signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

_____
Notary Public - State of New York

JENNIFER ANDALORO
Notary Public, State of New York
No. 02AN6098246
Qualified in Albany County
Commission Expires January 14, 2024

SCHEDULE "A" PROPERTY DESCRIPTION

All that tract or parcel of land, situate in the City and Town of Ithaca, County of Tompkins and State of New York, and being more particularly described as follows:

Beginning at the point of commencement at a point of the westerly line of lands of Frederick Beck, now or formerly, recorded in Tompkins County Clerk's Office in Book 840 and Page 334 of Deeds, said point being S 25°44'04" W a distance of 22.12' from the northwest corner of said lands;

THENCE following a centerline of a stream the following courses and distances.

S 75°53'05" W, 14.63 feet.
S 50°27'19" W, 37.02 feet.
S 58°52'40" W, 35.64 feet .
S 55°05'39" W, 31.38 feet.
S 61°42'00" W, 33.54 feet.
S 61°29'57" W, 84.94 feet.
S 56°30'06" W, 37.21 feet.
S 53°39'00" W, 48.73 feet.
S 55°58'58" W, 68.03 feet.
S 56°27'17" W, 48.08 feet.
S 59°36'59" W, 111.35 feet.
S 40°36'49" W, 24.76 feet.
S 72°37'22" W, 33.42 feet.
S 64°26'19" W, 33.35 feet.
S 69°13'58" W, 43.85 feet.
S 80°06'26" W, 43.31 feet.
N 80°11'22" W, 16.75 feet.
N 80°14'46" W, 52.83 feet.
N 57°58'51" W, 42.44 feet.
N 42°52'42" W, 41.41 feet.
N 36°34'25" W, 31.01 feet.
N 48°20'45" W, 16.75 feet.
N 76°30'43" W, 36.62 feet.
N 36°32'08" W, 33.22 feet.
N 05°36'15" W, 39.19 feet.
N 17°34'38" W, 42.13 feet.
N 12°26'27" W, 26.18 feet.
N 67°48'26" W, 27.63 feet.
N 69°06'25" W, 37.80 feet.
N 55°02'28" W, 33.46 feet.
N 49°31'27" W, 19.92 feet.
N 44°16'01" W, 25.01 feet.

THENCE along a curve to the right with a length of 21.31', a radius of 5102.88', a chord bearing of s 43°35'41.94" W and a chord length of 21.31' to a point;

THENCE along a curve to the right with a length of 471.36', a radius of 3547.44', a chord

bearing of S 47°31'16.01" W and a chord length of 471.01' to a point;

THENCE S 51°35'30" W, 436.97' to a point;

THENCE S 51°30'23" W, 306.88' to a point;

THENCE along a curve to the right with a length of 300.22', a radius of 2064.25', a chord bearing of S 55°40'44.41" W and a chord length of 299.96' to a point;

THENCE S 59°15'37" W, 173.94' to a point;

THENCE along the northern boundary of Stone Quarry Road the following courses and distances;

N 47°12'29" E, 60.51'
N 29°26'06" E, 52.69'
N 24°48'25" E, 43.66'

THENCE N 59°15'37" E, 56.57' to a point;

THENCE along a curve to the left with a length of 267.50', a radius of 1766.95', a chord bearing of N 54°55'24.27" E and a chord length of 267.24' to a point;

THENCE N 51°30'47" E, 743.49' to a concrete monument found;

THENCE along a curve to the left with a length of 462.53', a radius of 3261.76', a chord bearing of N 47°26'35.50" E and a chord length of 462.14' to a point;

THENCE along a curve to the left with a length of 38.95', a radius of 5635.72', a chord bearing of N 43°23'29.53" E and a chord length of 38.95' to a point;

THENCE on a curve to the left having a radius of 5635.72 feet and a length of 592.67 feet and a chord of N 40°10'19.18" E, 592.40 feet to a monument found.

THENCE N 37°06'36" E, 641.31' to a monument found;

THENCE N19°17'24" W, 427.60' to an iron pin found;

THENCE N 28°25'19" E, along the southeasterly road boundary of West Spencer Street a distance of 542.73' to a point;

THENCE S 60°31'42" E, a distance of 123.00' to an iron pin found;

THENCE N.29°28'18"E., a distance of 50.00 feet to an existing iron pipe;

THENCE N.60°31'42"W., a distance of 1.30 feet to a point;

THENCE N.29°28'18"E., a distance of 60.00 feet to an existing iron pipe;

THENCE N.20°16'18"E., a distance of 22.00 feet to a point;

THENCE S.58°01'42"E., a distance of 136.72 feet to its intersection with the westerly road boundary of South Cayuga Street;

THENCE S.01°44'18"E., along said westerly road boundary of South Cayuga Street, a distance of 118.54 feet to an existing iron pipe;

THENCE S.37°19'45"W., a distance of 318.10 feet to an existing iron pipe;

THENCE S.52°40'15"E., a distance of 131.48 feet to its intersection of said northeasterly line of said former Lehigh Valley Railroad;

THENCE N.37°10'20"E., along said northeasterly line of said former Lehigh Valley Railroad, a distance of 42.66 feet to an existing iron pipe at a point of curvature;

THENCE northeasterly, along a curve to the right, having a radius of 2187.09 feet an arc distance of 157.02 and a chord bearing of N 39°13'44" E, 156.99 feet to a point;

THENCE northeasterly, along a curve to the right, having a radius of 2187.09 feet an arc distance of 25.06 feet and a chord bearing of N 41°37'15.49" E, 25.06 feet to a point;

THENCE N.01°12'09"W., a distance of 279.41 feet to a point;

THENCE N.59°22'08"E., a distance of 142.00 feet to an existing iron pipe;

THENCE N.40°16'41"W., a distance of 47.38 feet to a point of curvature along the southeasterly road boundary of South Hill Terrace;

THENCE northeasterly, along a curve to the left, having a radius of 257.27 feet an arc distance of 84.00 feet and a chord bearing and distance of N35°37'08.35"E., 83.63 feet to a point;

THENCE S.68°10'44"E., a distance of 89.62 feet to a point;

THENCE N.36°10'17"E., a distance of 50.00 feet to a point;

THENCE N.67°17'10"W., a distance of 100.00 feet to its intersection with said southeasterly line of South Hill Terrace;

THENCE N.22°53'08"E., along said southeasterly road boundary of South Hill Terrace, a distance of 50.00 feet to an iron pipe;

THENCE S.67°06'52"E., a distance of 128.38 feet to a point;

THENCE N.01°05'38"E., a distance of 106.32 feet to a point;

THENCE N.88°14'20"E., a distance of 23.66 feet to a point;

THENCE N.22°35'04"E., a distance of 64.09 feet to a point;

THENCE N.87°40'07"E., a distance of 160.94 feet to its intersection with the westerly road boundary of Turner Place;

THENCE S.02°19'41"E., along said easterly road boundary of Turner Place, a distance of 214.20 feet to its intersection with said northeasterly line of said former Lehigh Valley Railroad;

THENCE N.50°10'21"E., along said northeasterly line of said former Lehigh Valley Railroad, a distance of 305.02 feet to an existing iron pipe;

THENCE N.82°08'58"E., a distance of 7.60 feet to an existing iron pipe;

THENCE N.00°00'04"W., a distance of 7.00 feet to an existing iron pipe;

THENCE N.53°53'26"E., continuing along said northeasterly line of said former Lehigh Valley Railroad, a distance of 13.44 feet to a point of curvature;

THENCE northeasterly, along a curve to the right, having a radius of 1825.61 feet an arc distance of 167.10 and a chord bearing and distance of N52°48'04.85"E., 167.04 feet to an existing railroad monument;

THENCE northeasterly, along a curve to the right, having a radius of 14500.77 feet an arc distance of 139.18 feet and a chord bearing and distance of N.58°10'52.85"E., 139.18 feet to a point of compound curvature;

THENCE northeasterly, along a curve to the right, having a radius of 411.32 feet an arc distance of 46.08' and a chord bearing and distance of N.61°39'26.85"E.,46.06' to a concrete monument found on the westerly road boundary of South Aurora Street (New York State Route 96B);

THENCE S.02°51'33"E., along said westerly road boundary of South Aurora Street, a distance of 72.42 feet to an angle point;

THENCE S.02°02'26"E., continuing along said westerly road boundary of South Aurora Street, a distance of 204.12 feet to a point of curvature;

THENCE southwesterly, along a curve to the right, having a radius of 370.00 feet an arc distance of 177.34 feet and a chord bearing and distance of S.11°41'25.81"W., 175.65 feet;

THENCE S.25°25'18"W., continuing along said westerly road boundary of South Aurora Street, a distance of 295.74 feet to an existing iron pipe;

THENCE N.63°50'28"W., a distance of 100.00 feet to a point;

THENCE S.26°09'32"W., a distance of 413.00 feet to a point;

THENCE S.74°58'28"E., a distance of 101.00 feet to its intersection said westerly road boundary of South Aurora Street;

THENCE S.26°09'32"W., along said westerly road boundary of South Aurora Street, a distance of 28.00 feet to a point;

THENCE N.63°54'22"W., a distance of 32.40 feet to an existing iron pipe,

THENCE N.85°05'42"W., a distance of 72.17 feet to an existing iron pipe;

THENCE S.26°54'14"W., a distance of 161.60 feet to an existing iron pipe;

THENCE S.03°30'29"E., a distance of 35.30 feet to an existing iron pipe;

THENCE S.84°53'19"E., a distance of 89.00 feet to its intersection with said westerly road boundary of South Aurora Street;

THENCE S.26°42'55"W., along said westerly road boundary of South Aurora Street, a distance of 48.00 feet to an angle point;

THENCE S.31°44'06"W., continuing along said westerly road boundary of South Aurora Street, a distance of 122.19 feet to the northeasterly corner of New York State Appropriation of State Highway 5043, Map No. 6, Parcel No. 6; thence westerly and southwesterly along said New York State Appropriation of State Highway 5043, Map No. 6, Parcel No. 6 the following courses and distances;

N.63°58'34"W., a distance of 17.00 feet to a point;
S.31°44'04"W., a distance of 100.50 to an angle point;
S.26°01'26"W., a distance of 600.13 feet to an angle point;
S.25°46'26"W., a distance of 483.13 feet to an existing granite monument;

THENCE N.64°11'56"W., a distance of 173.40 feet to a point;

THENCE S 25°44'04", 22.12 ' to the POINT OF BEGINNING and containing 61.56 acres of land.

SCHEDULE "B" – RESTRICTED RESIDENTIAL USE EASEMENT AREA

All that tract or parcel of land, situate in the City and Town of Ithaca, County of Tompkins, and State of New York, and being more particularly described as follows:

Beginning at the Point of Beginning (P.O.B), at the northerly most point of the parcel, along the western Right of Way line of NYS Route 96B (also known as South Aurora Street), said point being 30.16 feet south of the southern Right of Way line of Hillview Place;

THENCE following along the western Right of Way line of NYS Route 96B - South Aurora Street the following courses and distances.

S 2°51'33" E, 72.42';
S 2°02'26" E, 204.12';

Along a curve to the right with a length of 177.34', a radius of 370.00', a chord direction of S 11°41'25.81" W and a chord length of 175.65';

S 25°25'18" W, 295.74' to an iron pin found;

THENCE N 63°50'28" W, 100.00' to a point on the north-westerly corner of Tax Map Parcel 106-1-10;

THENCE S 26°09'32" W, 413.00' to a point on the south-westerly corner of Tax Map Parcel 106-1-15;

THENCE S 74°58'28" E, 101.00' to a point on the western Right of Way line of South Aurora Street and the south-easterly corner of Tax Map Parcel 106-1-15;

THENCE S 26°09'32" W, 28.00' along the western Right of Way line of South Aurora Street to a point on the north-easterly corner of Tax Map Parcel 106-1-16;

THENCE N 63°54'22" W, 32.40' to an iron pin found on the northern line of Tax Map Parcel 106-1-16; THENCE N 85°05'42" W, 72.17' to an iron pin found on the north-westerly corner of Tax Map Parcel 106-1-16;

THENCE S 26°54'14" W, 161.60' to an iron pin found on the western line of Tax Map Parcel 106-1-17;

THENCE S 3°30'29" E, 35.30' to an iron pin found on the south-western corner of Tax Map Parcel 106-1-17;

THENCE S 84°53'19" E, 89.00' to a point on the western Right of Way line of South Aurora Street and the south-eastern corner of Tax Map Parcel 106-1-17;

THENCE following along the western Right of Way line of NYS Route 96B – South Aurora Street the following courses and distances.

S 26°42'55 W, 48.00';
S 31°44'06" W, 122.19';

N 63°58'34" W, 17.00';
S 31°44'04" W, 100.50';
S 26°01'26" W, 600.13';
S 25°46'26" W, 483.13' to a granite monument found on the northern line of Tax Map Parcel 40-3-5;

THENCE N 64°11'56" W, 173.40' to a point on the northwest corner of Tax Map Parcel 40-3-5;

THENCE S 25°44'04" W, 22.12' to a point in the centerline of a stream on the western line of Tax Map Parcel 40-3-5;

THENCE along the centerline of the stream the following courses and distances.
S 75°53'05" W, 14.63' S 50°27'19" W, 37.02' S 58°52'40" W, 35.64' S 55°05'39" W, 31.38' S 61°42'00" W, 33.54' S 61°29'57" W, 84.94' S 56°30'06" W, 37.21' S 53°39'00" W, 48.73' S 55°58'58" W, 68.03' S 56°27'17" W, 48.08' S 59°36'59" W, 111.35' S 40°36'49" W, 24.76' S 72°37'22" W, 33.42' S 64°26'19" W, 33.35' S 69°13'58" W, 43.85' S 80°06'26" W, 43.31' N 80°11'22" W, 16.75'
N 80°14'46" W, 52.83' to a point in the centerline of the stream and on the northern line of Tax Map Parcel 40-3-3;

THENCE N 40°45'51" E, 40.21' to a point;

THENCE N 40°45'51" E, 38.05' to a point;

THENCE N 32°10'19" E, 548.74' to a point;

THENCE N 33°03'51" E, 612.29' to a point;

THENCE N 37°58'00" E, 110.15' to a point;

THENCE N 62°51'24" W, 273.76' to a point;

THENCE S 37°33'17" W, 173.78' to a point;

THENCE S 33°28'44" W, 458.06' to a point;

THENCE S 43°21.04 W, 610.49' to a point in the centerline of a stream and the northern line of Tax Map Parcel 40-3-3;

THENCE N 44°16'01" W, 25.01' along the centerline of a stream to a point;

THENCE along a curve to the right with a length of 21.31', a radius of 5102.88', a chord bearing of s 43°35'41.94" W and a chord length of 21.31' to a point;

THENCE along a curve to the right with a length of 471.36', a radius of 3547.44', a chord bearing of S 47°31'16.01" W and a chord length of 471.01' to a point;

THENCE S 51°35'30" W, 436.97' to a point;

THENCE S 51°30'23" W, 306.88' to a point;

THENCE along a curve to the right with a length of 300.22', a radius of 2064.25', a chord bearing of S 55°40'44.41" W and a chord length of 299.96' to a point;

THENCE S 59°15'37" W, 173.94' to a point;

THENCE along the northern boundary of Stone Quarry Road the following courses and distances;

N 47°12'29" E, 60.51'
N 29°26'06" E, 52.69'
N 24°48'25" E, 43.66'

THENCE N 59°15'37" E, 56.57' to a point;

THENCE along a curve to the left with a length of 267.50', a radius of 1766.95', a chord bearing of N 54°55'24.27" E and a chord length of 267.24' to a point;

THENCE N 51°30'47" E, 743.49' to a concrete monument found;

THENCE along a curve to the left with a length of 462.53', a radius of 3261.76', a chord bearing of N 47°26'35.50" E and a chord length of 462.14' to a point;

THENCE along a curve to the left with a length of 38.95', a radius of 5635.72', a chord bearing of N 43°23'29.53" E and a chord length of 38.95' to a point;

THENCE along a curve to the left with a length of 592.67', a radius of 5635.72' a chord bearing of N 40°10'19.18" E and a chord length of 592.40' to a concrete monument found on the southeastern line of Tax map Parcel 116-2-7;

THENCE N 37°06'36" E, 641.31' to an iron pin found on the eastern corner of Tax Map Parcel 105-8-1;

THENCE N 19°17'24" W, 427.60' to an iron pin found on the northern corner of Tax Map Parcel 105-8-1 and the eastern Right of Way line of West Spencer Street;

THENCE N 28°25'19" E, 542.73' along the eastern Right of Way line of West Spencer Street to a point; THENCE S 60°31'42" E, 123.00' to an iron pin found on the southern corner of Tax Map Parcel 93-7-7;

THENCE N 29°28'18" E, 50.00' to an iron pipe found;

THENCE N 60°31'42" W, 1.30' to a point;

THENCE N 29°28'18" E, 60.00' to an iron pipe found on the north-easterly corner of Tax Map Parcel 93-7-7;

THENCE N 20°16'18" E, 22.00' to a point on the south-western corner of Tax Map Parcel 106-1-2;

THENCE S 58°01'42" E, 136.72' to a point on the south-eastern corner of Tax Map Parcel 106-

1-2 and the western Right of Way line of South Cayuga Street;

THENCE S 1°44'18" E, 118.54' to an iron pin found on the western Right of Way line of South Cayuga Street;

THENCE S 37°19'45" W, 318.10' to an iron pin found on the western corner of lands now or formerly owned by New York State Electric & Gas and containing an electric power substation;

THENCE S 52°40'15" E, 131.48' to an iron pin found on the western corner of lands now or formerly owned by New York State Electric & Gas and containing an electric power substation;

THENCE N 37°10'20" E, 42.66' to a point;

THENCE along a curve to the right with a length of 157.02', a radius of 2187.09', a chord bearing of N 39°13'44" E and a chord length of 156.99' to a point;

THENCE continuing on a curve to the right with a length of 25.06', a radius of 2187.09', a chord bearing of N 41°37'15.49" E and a chord length of 25.06' to a point;

THENCE N 1°12'09" W, 279.41' to an iron pin found on the southern corner of Tax Map Parcel 106-1-7;

THENCE N 59°22'08" E, 142.00' to an iron pin found on the eastern corner of Tax Map Parcel 106-1-7;

THENCE N 40°16'41" W, 47.38' to an iron pin found on the northern corner of Tax Map Parcel 106-1-7 and the eastern Right of Way of South Hill Terrace;

THENCE along a curve to the left, and the eastern Right of Way line of South Hill Terrace, a length of 84.00', a radius of 257.27', a chord bearing of N 35°37'08.35" E and a chord length of 83.63' to a point on the western corner of Tax Map Parcel 92-9-10;

THENCE S 68°10'44" E, 89.62' to a point on the southern corner of Tax Map Parcel 92-9-10;

THENCE N 36°10'17" E, 50.00' to a point on the eastern corner of Tax Map Parcel 92-9-10;

THENCE N 67°17'10" W, 100.00' to a point on the northern corner of Tax Map Parcel 92-9-10 and the eastern Right of Way line of South Hill Terrace;

THENCE N 22°53'08" E, 50.00' along the eastern Right of Way line of South Hill Terrace to an iron pin found on the western corner of Tax Map Parcel 92-9-11;

THENCE S 67°06'52" E, 128.38' to a point on the southern corner of Tax Map Parcel 92-9-11;

THENCE N 1°05'38" E, 106.32' to a point on an eastern jog corner of Tax Map Parcel 92-9-13;

THENCE N 88°14'20" E, 23.66' to a point on an eastern jog corner of Tax Map Parcel 92-9-13;

THENCE N 22°35'04" E, 64.09' to a point on the eastern line of Tax Map Parcel 92-9-13 and the south-western corner of Tax Map Parcel 92-9-5;

THENCE N 87°40'07" E, 160.94' to a point on the south-east corner of Tax Map Parcel 92-9-5 and the western Right of Way line of Turner Place;

THENCE S 2°19'41" E, 214.20' along the western Right of Way line of Turner Place to a point;

THENCE N 50°10'21" E, 305.02' to an iron pipe found on the north-east Right of Way corner of Fountain Street and the southern line of Tax Map Parcel 92-8-14.2;

THENCE N 82°08'58" E, 7.60' to an iron pipe found on the south-east corner of Tax Map Parcel 92-8-14.2;

THENCE N 00°00'04" W, 7.00' to a pinch pipe found on the south-east corner of Tax Map Parcel 92-8-5.2;

THENCE N 53°53'26" E, 13.44' to a point on the southern line of Tax Map Parcel 92-8-5.2;

THENCE along a series of curves to the right with the following curve data;

A length of 167.10', a radius of 1825.61', a chord bearing of N 52°48'04.85" E and a chord length of 167.04' to a monument found on the southern line of Tax Map Parcel 92-8-7.2;

A length of 139.18', a radius of 14500.77', a chord bearing of N 58°10'52.85" E and a chord length of 139.18' to a point;

A length of 46.08', a radius of 411.32', a chord bearing of N 61°39'26.85" E and a chord length of 46.06' to the Point of Beginning and containing 52.4 acres of land.

SCHEDULE "C" COMMERCIAL USE EASEMENT AREA

All that tract or parcel of land, situate in the City and Town of Ithaca, County of Tompkins, and State of New York, and being more particularly described as follows:

Beginning at the Point of Beginning (P.O.B), at the northerly most point of the parcel;

THENCE S 62°51'24" E, 273.76' to a point;

THENCE S 37°58'00" W, 110.15' to a point;

THENCE S 33°03'51" W, 612.29' to a point;

THENCE S 32°10'19" W, 548.74' to a point;

THENCE S 40°45'51" W, 38.05' to a point;

THENCE along a series of curves to the right with the following curve data;

A length of 207.49', a radius of 184.47', a chord bearing of N 20°07'23.19" W and a chord length of 196.72';

A length of 91.20', a radius of 1044.76', a chord bearing of N 14°36'5.08" E and a chord length of 91.17';

A length of 108.30', a radius of 1491.35', a chord bearing of N 19°10'56.87" E and a chord length of 108.27' to a point;

THENCE N 21°15'46" E, 346.73' to a point;

THENCE N 33°28'44" E, 458.06' to a point;

THENCE N 37°33'17" E, 173.78' to the Point of Beginning and containing 7.16 acres of land.

SCHEDULE "D" INDUSTRIAL USE EASEMENT AREA

All that tract or parcel of land, situate in the City and Town of Ithaca, County of Tompkins, and State of New York, and being more particularly described as follows:

Beginning at the Point of Beginning (P.O.B), at the northerly most point of the parcel;

THENCE S 21°15'46" W, 346.73' to a point,

THENCE along a series of curves to the left with the following curve data;

A length of 108.30', a radius of 1491.35', a chord bearing of S 19°10'56.87" W and a chord length of 108.27';

A length of 91.20', a radius of 1044.76', a chord bearing of S 14°36'5.08" W and a chord length of 91.17';

A length of 207.49', a radius of 184.47', a chord bearing of S 20°07'23.19" E and a chord length of 196.72' to a point;

THENCE S 40°45'51" W, 40.21' to a point in the centerline of a stream;

THENCE along the centerline of the stream the following courses and distances;

N 57°58'51" W, 42.44';
N 42°52'42" W, 41.41';
N 36°34'25" W, 31.01';
N 48°20'45" W, 16.75';
N 76°30'43" W, 36.62';
N 36°32'08" W, 33.22';
N 05°36'15" W, 39.19';
N 17°34'38" W, 42.13';
N 12°26'27" W, 26.18';
N 67°48'26" W, 27.63';
N 69°06'25" W, 37.80';
N 55°02'28" W, 33.46';
N 49°31'27" W, 19.92' to a point;

THENCE N 43°21'04" E, 610.49' to the Point of Beginning and containing 2.00 acres of land.

TP-584.2 (10/96)



Recording Office Time Stamp

Real Estate Transfer Tax Return For Public Utility Companies' and Governmental Agencies' Easements and Licenses

This form may only be used by public utility companies regulated by the Public Service Commission and governmental agencies for the recording of easements and licenses where the consideration for the grant of such easement or license is $500.00 or less.

Name of grantee (public utility company or governmental agency)
The People of the State of New York

Federal employer identification number *(if applicable)*

Address of grantee
625 Broadway, Albany, New York 12233-1500

Name and telephone number of person to contact

Name(s) of Grantor Of Easement or License	Address of Property	Consideration Given For Easement or License
1. Emersub 15 LLC	620-40 Aurora Street S., Ithaca, NY 14850	$0.00
2. Emersub 15 LLC	V/L Aurora Street S. Ithaca, NY 14850	$0.00
3. Emersub 15 LLC	810 Danby Road, Ithaca, NY 14850	$0.00
4. Emersub 15 LLC	Portion of Stone Quarry Road, NY 14850	$0.00
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If more than fifteen conveyances are to be recorded, attach a schedule of such other conveyances.

Signature of Grantee

I certify that the grantee is a public utility regulated by the Public Service Commission or is a governmental agency and the grantee of the easements and/or licenses above; that it is true to the best knowledge of the grantee that the granting of each such easement and/or license is exempt from Real Estate Transfer Tax imposed by Article 31 of the Tax Law by reason that each such conveyance is for a consideration of five hundred dollars or less and/or the conveyance is being made to a governmental agency.

The People of the State of New York
Name of grantee

Jennifer Andrews
Signature of partner, officer of corporation, governmental official, etc.

NYSDEC Attorney
Title

TP-584.2 (10/96)

Recording Office Time Stamp

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Address of grantee
625 Broadway, Albany, New York 12233-1500

Name and telephone number of person to contact

Name(s) of Grantor Of Easement or License	Address of Property	Consideration Given For Easement or License
1. Emersub 15 LLC	620-40 Aurora Street S., Ithaca, NY 14850	$0.00
2. Emersub 15 LLC	V/L Aurora Street S. Ithaca, NY 14850	$0.00
3. Emersub 15 LLC	810 Danby Road, Ithaca, NY 14850	$0.00
4. Emersub 15 LLC	Portion of Stone Quarry Road, NY 14850	$0.00
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If more than fifteen conveyances are to be recorded, attach a schedule of such other conveyances.

Signature of Grantee

I certify that the grantee is a public utility regulated by the Public Service Commission or is a governmental agency and the grantee of the easements and/or licenses above; that it is true to the best knowledge of the grantee that the granting of each such easement and/or license is exempt from Real Estate Transfer Tax imposed by Article 31 of the Tax Law by reason that each such conveyance is for a consideration of five hundred dollars or less and/or the conveyance is being made to a governmental agency.

The People of the State of New York
Name of grantee

Jennifer Andaloro
Signature of partner, officer of corporation, governmental official, etc.

NYSDEC Attorney
Title

APPENDIX

B SITE RESPONSIBILITIES

Site Management Plan: Responsibilities of OU-2 Owner and Remedial Party

The former Emerson Power Transmission ("EPT") facility contains two Operable Units ("OU-1" and "OU-2"). Whereas a corporate affiliate of the Responsible Party ("RP") shall retain ownership of OU-1, the present and future owners of OU-2 (individually and collectively, the "OU-2 Owner") shall be parties unaffiliated to the RP. The responsibilities for implementing the Site Management Plan ("SMP") with respect to OU-2, are divided between the RP and OU-2 Owner as set forth below. For purposes of this Appendix only "Site" shall mean OU-2.

OU-2 Owner Responsibilities:

The OU-2 Owner is responsible for:

1. Following the SMP provisions as they relate to excavation, grading or other disturbances of the ground surface and below related to development, redevelopment and/or repairs at the Site except to the extent such actions are the responsibility of the RP.
2. Performing any future investigation, and/or remediation of soils and/or fill material (collectively, "soils") that may be required by this SMP (collectively, "Soil Remediation") in the areas of concern ("AOC") addressed to the satisfaction of NYSDEC as part of the RP's approved Interim Remedial Measure ("IRM") work, and as reflected in the IRM Construction Completion Report, dated October 23, 2020, except for future Soil Remediation associated with addressing contaminated soils beneath the oil shed in AOC 28, in the event that the oil shed is demolished, contaminated soils beneath the loading dock area within Building 11A, and contaminated soils beneath and inside the concrete "planter" located in the vicinity of AOC 32 (the "Additional Areas"); provided, however, that, once the RP performs the remediation of the Additional Areas to the extent required by NYSDEC for purposes of complying with the applicable soil cleanup objectives, the OU-2 owner will be responsible for any future Soil Remediation in these locations, as well.
3. Conducting any future Soil Remediation at areas of the Site besides the AOCs, to the extent that the need for such Soil Remediation is triggered by a change in land use designation from what appears in Exhibit H of the Amended and Restated Purchase and Sale Agreement between the Emersub 15, LLC and L Enterprises, LLC, dated May 9, 2017 ("Agreement") for the relevant portion of the Site, e.g. industrial to commercial or commercial to restricted residential.
4. Managing hazardous building materials and debris generated in connection with its demolition, renovation, or reconfiguration of existing buildings at the Site.
5. With respect to Site buildings in existence as of July 15, 2013, repairing or replacing any flooring following initial vapor mitigation system installation by the Responsible Party, except to the extent that such repair or replacement of the floor is part of the vapor mitigation system design, or otherwise necessary for proper operation of the system to ensure compliance with applicable indoor air quality standards (such as for purposes of example only where a drainboard may be used). For purposes of clarification, the OU-2 Owner's responsibility under this Item 5 shall extend to any openings in building floorings made in connection with the sewer test pit excavation that the RP undertook pursuant to Section 5.5.2 of the IRM Work Plan, as well as to any disturbed flooring, the restoration of which is not essential to the first OU-2 Owner's property redevelopment plans(e.g., disturbed flooring in a building that the first OU-2 Owner plans to demolish; any redevelopment activity undertaken by subsequent OU-2 Owners; etc.)
6. With respect to Site buildings erected after July 15, 2013, designing, constructing, and installing any vapor barriers or vapor mitigation systems that may be required to protect building occupants from soil vapor intrusion and the subsequent monitoring, operation and maintenance of same.
7. Maintaining drainage ditches, swales and permanent erosion controls such as riprap used for ditch lining, slope protection, and pipe outlet protection on OU-2 (specifically, at AOCs 32, 35G and 35L).

8. Refraining from any activity that may cause an exceedance of a water quality standard or otherwise trigger a new obligation on the part of the RP to perform remediation under the SPDES permit equivalent and taking all reasonable precautions to ensure that its affiliates, employees, agents, contractors, tenants, successors, and assigns (collectively, the "Affiliates") do the same.
9. Correcting any condition or exacerbation of a condition within OU-2 caused by OU-2 Owner or its Affiliates that may give rise to an exceedance of a water quality standard enforced through the SPDES permit equivalent or an obligation to perform remediation under the SPDES permit equivalent.
10. Complying with all Engineering Controls and Institutional Controls set forth in this SMP, the NCR Sewer Deed Restriction, and the Environmental Easement for the Site, except where compliance with those Engineering or Institutional Controls are the RP's responsibility, as set forth below, and to the extent that any such Engineering Controls are disturbed, unless by an act of the RP or its Affiliates, paying for or performing the repair and replacement of such Engineering Controls and managing any contamination that has been generated or disturbed as a result of such disturbance of the Engineering Controls.
11. Granting access to the Site to the RP and NYSDEC and its agents for the purposes of performing activities required under the SMP and assuring compliance with the SMP.
12. Not interfering, and requiring and taking steps to prohibit its Affiliates from interfering, with the components of active remedial systems located on the Site. In the event that damage to the components of active remedial systems is evident, the OU-2 Owner shall notify the RP and NYSDEC in accordance with the timeframes indicated in Section 1.3 - Notifications.
13. Notifying the RP and NYSDEC in accordance with the time frame indicated in Section 1.3 - Notifications in the event some action or inaction by the OU-2 Owner or its Affiliates adversely impacts the environmental condition of the Site and coordinating the performance of any necessary corrective actions with the RP and NYSDEC.
14. Notifying the RP and NYSDEC of any change in ownership of the Site or any portion thereof (identifying the tax map numbers in any correspondence) and providing contact information for the new owner of the Site property in accordance with the 6 NYCRR Part 375 (cf. https://www.dec.ny.gov/chemical/76250.html).
15. In accordance with a periodic time frame determined by NYSDEC, periodically certifying, in writing, that all Institutional Controls and Engineering Controls under the control of OU-2 Owner remain in place and continue to be complied with, and allowing the RP to include this certification in its periodic review report certifications to NYSDEC
16. Complying with the applicable provisions regarding tenant notification of indoor air contamination set forth at Environmental Conservation Law §27-2405, as may be amended.

Remedial Party Responsibilities:

The RP is responsible for:

1. Following the SMP provisions as they relate to any excavation, grading or other disturbance of the ground surface and below that it undertakes at the Site, and, except as set forth in this SMP, the Agreement or any other separate agreement with the OU-2 Owner, performing any activities specified in the Amended ROD dated September 2021 (e.g., seep collection, monitoring and/or treatment; site-wide groundwater monitoring; groundwater collection and treatment in AOC 1; and NAPL recovery).
2. Performing any Soil Remediation of the Additional Areas – but only to the extent required by NYSDEC for purposes of complying with the applicable soil cleanup objectives following the initial demolition of the pertinent improvements – and any future investigation and/or remediation of any other areas of the Site affected by releases predating the transfer of title to OU-2 to L

Enterprises, LLC (or an affiliate), to the extent set forth in the Agreement and not covered in the OU-2 Owner Responsibilities above.

3. Operating and maintaining the dual-phase extraction and treatment system specified in Appendix I to the SMP and performing the activities covered in the monitoring and sampling plan set forth in Appendix J to the SMP.
4. Constructing, operating, and performing maintenance on the final selected remediation alternative (subject to change based on the results of the pre-design studies) for the Building 24 Seep, Retaining Wall Sump, and the Weir Box seeps.
5. Designing, constructing, installing, and, to the extent required under NYSDOH regulations or recommended under NYSDOH guidance, performing startup testing of any vapor mitigation systems required for buildings at the Site that were in existence as of July 15, 2013. Such start up testing shall be consistent with NYSDOH regulation and guidance for the purpose of ensuring proper operation of the system at that time and may include but not be limited to indoor air testing and/or pressure field extension testing.
6. Complying with the requirements of the SPDES Permit equivalent.
7. Reporting to NYSDEC all activities required for remediation, operation, maintenance, monitoring, and reporting, including, but not limited to, submitting periodic review reports and certifications, electronic data deliverables, corrective action work plans and reports, and updated SMPs.
8. Providing the OU-2 Owner with advance notification before accessing the Site to undertake a specific activity in accordance with an access agreement between the two parties.
9. If the RP or NYSDEC determines that a modification to the SMP is necessary based on anticipated or actual changed Site conditions, updating the SMP, obtaining final approval from NYSDEC, and, within 5 business days after NYSDEC approval, submitting a copy of the approved SMP to the owner(s).
10. Periodically certifying, in writing, that all Engineering and Institutional Controls applicable to the Site are in place and that compliance with them continues (note: regarding OU-2, such certification will entail coordination with the OU-2 Owner).
11. Notifying NYSDEC and the OU-2 Owner of any changes in RP ownership and/or control and of any changes in the party/entity responsible for the operation, maintenance, and monitoring of and reporting with respect to any remedial system (Engineering Controls) in accordance with 6 NYCRR Part 375 (cf. http://www.dec.ny.gov/chemical/76250.html).
12. Notifying NYSDEC of any damage to or modification of the systems as required under Section 1.3 - Notifications of the SMP.
13. Contacting NYSDEC to discuss the need to update the SMP, NCR Sewer Deed Restriction, or Environmental Easement in connection with any anticipated or actual change in use, change in ownership, change in site classification (e.g., delisting), reduction or expansion of remediation, or other significant changes related to the Site that may necessitate an update to the SMP and/or updated legal documents. The RP shall contact the Department to discuss the need to update such documents and provide copies of any such correspondence to the OU-2 Owner.

Change in RP ownership and/or control and/or Site ownership does not affect the RP's obligations with respect to the Site unless a legally binding document executed by the NYSDEC releases the RP of its obligations.

Future site owners and RPs and their successors and assigns are required to carry out the activities set forth above.

APPENDIX

C NCR SEWER LINE DEED RESTRICTION

Tompkins County Clerk Recording Page

Return To

FIRST AMERICAN TITLE NCS ST. LOUIS
8182 MARYLAND AVE., STE 400
SAINT LOUIS, MO 63105

Maureen Reynolds, County Clerk
Tompkins County Clerk
320 North Tioga Street
Ithaca, NY 14850
(607) 274-5431

Document Type: **MISC**

Receipt Number: 18-207602

Party 1
EMERSUB 15 LLC

Party 2
EMERSUB 15 LLC

Fees	
Recording Fee	$20.00
Pages Fee	$95.00
State Surcharge	$20.00
Total Fees Paid:	$135.00

Instrument #: 2018-10180

State of New York
County of Tompkins

Filed on September 6th, 2018 at 12:56:14 PM
with a total page count of **19**.

Tompkins County Clerk

This sheet constitutes the Clerk's endorsement required by section 319 of the Real Property Law of the State of New York

MR

Do Not Detach

DECLARATION of COVENANTS and RESTRICTIONS

THIS DECLARATION (the "Declaration") is made the 6th day of September 2018, by **EMERSUB 15 LLC**, a Delaware limited liability company, having an office for the transaction of business at 8000 West Florissant Avenue, St. Louis, Missouri 63136 ("Owner").

WHEREAS, Owner is the owner of that certain real property located at 620 South Aurora Street and 810 Danby Road, in the Town of Ithaca, County of Tompkins and State of New York (the "State"), which is legally described on **Schedule A** attached to this declaration and made a part hereof, and is further known and designated on the tax map of the County Clerk of Tompkins as tax map parcel numbers: Section 106, Block 1, Lot 8, Section 40, Block 3, Lot 3, and a portion of Section 40, Block 3, Lot 14.2, being the same as that property conveyed to Owner by deeds recorded in the Tompkins County Clerk's Office in Liber 474, Page 68; Liber 556, Page 127; Liber 556, Page 1081; Liber 564, Page 91; Liber 567, Page 446; Liber 2512, Page 5758; and Instrument Number 555134-003 (the "Property"); and

WHEREAS, soil vapor contamination associated with the sewer lines serving the former National Cash Register site to the south of the Property and Ithaca College to the east of the Property was identified during past environmental investigations, which sewer lines comprise the main sanitary sewer trunk and the lateral sanitary sewer trunk and are located on a portion of the Property (collectively, the "NCR Sewer Line Area"); and

WHEREAS, the NCR Sewer Line Area comprises approximately +/- 2.983 acres, and is hereinafter more fully described in the Land Title Survey dated July 25, 2018, prepared by Richard M. Rybinski, and which is legally described on **Schedule B** attached to this declaration and made a part hereof; and

WHEREAS, the covenants and restrictions contained in this Declaration ensure the protection of public health and the environment.

NOW, THEREFORE, Owner, for itself, its assigns, and subsequent owners of the NCR Sewer Line Area covenants that:

First, the NCR Sewer Line Area subject to this Declaration is as shown on a map attached to this declaration as **Schedule B** and made a part hereof.

Second, prior to any construction activity that involves either connecting to the sewers located within the NCR Sewer Line Area or the erection of any occupied structure that lies partially or wholly within the NCR Sewer Line Area, Owner shall conduct an evaluation of soil vapor intrusion potential in accordance with the State's "Guidance for Evaluating Soil Vapor Intrusion in the State of New York" or equivalent and successor methodology or guidance thereto (collectively, the "Guidance"), and implement recommended actions in accordance with such Guidance ("Recommended Actions") if any, to address exposures related to soil vapor intrusion, or in the alternative, the owner may forego the soil vapor intrusion evaluation and install a soil

vapor intrusion mitigation system ("Engineering Controls") in any building on the Property intended for such occupation, as though the evaluation of soil vapor intrusion potential would have justified mitigation under the Guidance.

Third, all Engineering Controls shall be installed prior to occupancy of any structure that lies partially or wholly within the NCR Sewer Line Area or any structure served by a lateral that connects to the sewer located within the NCR Sewer Line Area.

Fourth, all Engineering Controls and Recommended Actions shall be performed, operated, maintained and monitored as specified in the Guidance.

Fifth, all Engineering Controls shall be inspected at a frequency and in a manner defined in the Guidance.

Sixth, data and information pertinent to the Recommended Actions and/or Engineering Controls shall be reported at the frequency and in a manner in accordance with the Guidance.

Seventh, access to the NCR Sewer Line Area shall be provided to agents, employees or other representatives of the State with reasonable prior notice to the Owner to assure compliance with the Guidance.

Eighth, the Recommended Actions and Engineering Controls shall be binding upon the Owner, its assigns, and subsequent owners of the NCR Sewer Line Area. The Recommended Actions and Engineering Controls may be modified in accordance with the State's statutory and regulatory authority. The Owner and all successors in title to the NCR Sewer Line Area, as well as their successors and assigns, assume the burden of complying with the Recommended Actions and Engineering Controls.

Owner shall provide all persons who acquire any interest in the NCR Sewer Line Area notice of the Recommended Actions and Engineering Controls along with any State approvals for the NCR Sewer Line Area.

Ninth, the Owner shall continue in full force and effect any Recommended Actions and Engineering Controls and maintain such controls, unless the Owner first obtains permission to discontinue such controls from the State.

Tenth, this Declaration is and shall be deemed a covenant that shall run with the land and shall be binding upon all future owners of the NCR Sewer Line Area, and shall provide that any such owner and its successors and assigns consent to enforcement by the State or other relevant agency of the prohibitions and restrictions set forth in this Declaration, and hereby covenant not to contest the authority of the State to seek enforcement. Nothing contained in this Declaration shall be deemed a gift or dedication of any portion of the NCR Sewer Line Area to the general public or for the general public or for any public purpose whatsoever nor shall anything contained in this Declaration confer any benefits, rights, privileges, claims, actions or remedies to any person or entity as a third-party beneficiary or otherwise

Eleventh, any lease, license, deed of conveyance, or other instrument conveying the NCR Sewer Line Area, or any portion thereof, shall recite, unless the State has consented to the termination of such covenants and restrictions, that said conveyance is subject to this Declaration.

[Signature Page to Follow]

IN WITNESS WHEREOF, the undersigned has executed this instrument the day written below.

EMERSUB 16 LLC

By: _____
Print Name: Stephen L. Clarke
Title: President Date: 8/9/2018

STATE OF MISSOURI)
) ss.:
COUNTY OF St. Louis)

On the 9th day of August, in the year 2018, before me, the undersigned, personally appeared Stephen L. Clarke, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.

_____
Notary Public State of Missouri

SHARON L. HYDE
Notary Public-Notary Seal
State of Missouri, St Louis County
Commission # 11535019
My Commission Expires Nov 21, 2019

Schedule A

The Property

ALL THAT CERTAIN PLOT, PIECE OR PARCEL OF LAND, SITUATE, LYING AND BEING IN THE COUNTY OF TOMPKINS AND STATE OF NEW YORK, AND DESCRIBED AS FOLLOWS, TO WIT:

PARCEL 1

ALL THAT PORTION OF SOUTH TIOGA STREET LYING SOUTH OF THE CAYUGA AND SUSQUEHANNA RAILWAY, AND EXTENDING TO THE SOUTH BOUNDARY OF THE SAID CITY OF ITHACA, AND

BEGINNING AT THE POINT OF INTERSECTION OF THE EAST LINE OF SOUTH CAYUGA STREET WITH THE SOUTH BOUNDARY LINE OF THE SAID CITY OF ITHACA; THENCE NORTH ALONG THE EASTERLY LINE OF CAYUGA STREET TO THE SOUTH BOUNDARY OF THE CAYUGA AND SUSQUEHANNA RAIL ROAD CO'S LAND NOW OR FORMERLY LEASED TO THE DELAWARE, LACKAWANNA & WESTERN RAIL ROAD CO., THENCE NORTHEASTERLY ALONG THE SOUTH BOUNDARY OF SAID RAIL ROAD CO'S LAND TO THE WEST LINE OF SOUTH TIOGA STREET EXTENDED; THENCE SOUTH ALONG THE WEST LINE OF SAID TIOGA ST. EXTENSION TO THE SOUTH BOUNDARY LINE OF THE CITY OF ITHACA; THENCE WEST ALONG THE SOUTH BOUNDARY LINE OF SAID CITY TO THE PLACE OF BEGINNING, AND

PART OF MILITARY LOT 94 IN SAID CITY BOUNDED AND DESCRIBED AS FOLLOWS: BEGINNING ON THE SOUTHEAST SIDE OF THE RIGHT OF WAY OF THE DELAWARE, LACKAWANNA AND WESTERN RAILROAD WEST OF AURORA STREET, AT THE NORTHWEST CORNER OF THE LOT WILLED TO JOSEPH WILLIS MCGRAW BY SARAH A. MCGRAW; THENCE ALONG THE SOUTHEAST LINE OF THE RIGHT OF WAY TO THE EAST LINE OF SOUTH TIOGA STREET, THENCE SOUTH ON THE EAST LINE OF SOUTH TIOGA STREET TO A POINT TWENTY-FIVE (25) FEET FROM THE CENTER LINE OF THE UPPER BRANCH OF THE TURNOUT BUILT BY THE SAID LACKAWANNA RAILROAD COMPANY FOR THE USE OF MORSE CHAIN COMPANY; THENCE NORTHEASTERLY AT A DISTANCE OF TWENTY-FIVE FEET FROM THE CENTER LINE OF SAID TURNOUT TO A POINT ON THE SOUTH LINE OF THE SAID JOSEPH MCGRAW LOT; THENCE WESTERLY ALONG THE SOUTH LINE OF SAID MCGRAW LOT TO THE PLACE OF BEGINNING, AND

THE PORTION OF THE EAST HALF OF SOUTH TIOGA STREET WHICH LIES BETWEEN THE LACKAWANNA RIGHT OF WAY AND THE LINE TWENTY-FIVE FEET EASTERLY FROM THE CENTER LINE OF THE TURNOUT ABOVE DESCRIBED, AND

BEGINNING AT THE POINT OF INTERSECTION OF THE SOUTH BOUNDARY LINE OF THE CITY OF ITHACA WITH THE WEST BOUNDARY LINE OF SOUTH CAYUGA STREET; THENCE WESTERLY ALONG SAID CITY LINE TO THE SOUTHERN BOUNDARY LINE OF LANDS OF THE CAYUGA AND SUSQUEHANNA RAILROAD, (NOW OR FORMERLY LEASED BY THE DELAWARE, LACKAWANNA AND WESTERN RAILROAD); THENCE NORTHEASTERLY ALONG SAID RAILROAD BOUNDARY LINE TO ITS INTERSECTION WITH THE WEST BOUNDARY LINE OF SOUTH CAYUGA STREET; THENCE SOUTHERLY ALONG SAID CAYUGA STREET LINE TO THE PLACE OF BEGINNING, AND

ALL THAT PORTION OF SOUTH CAYUGA STREET EXTENDING FROM THE SOUTHERLY LINE OF THE RIGHT OF WAY OF THE DELAWARE, LACKAWANNA & WESTERN RAILROAD COMPANY TO THE CITY LINE, AND

ON SOUTH HILL, DESIGNATED AS LOT 20 ON A MAP OF SOUTH HILL LANDS MADE BY KIRK P. CRANDALL, DATED MAY, 1905, AND FILED IN THE TOMPKINS COUNTY CLERK'S OFFICE ON THE 31ST DAY OF AUGUST, 1906, SAID LOT 20 BEING BOUNDED AS FOLLOWS: ON THE SOUTH BY THE RIGHT OF WAY OF THE D. L. & W. RAILROAD; ON

THE WEST BY SOUTH CAYUGA STREET, ON THE NORTH BY SOUTH HILL TERRACE AND LOT 21, AND ON THE EAST BY LAND FORMERLY BELONGING TO THE CITY WATER BOARD, AND

COMMENCING ON THE EAST LINE OF SOUTH AURORA STREET IN SAID CITY AT THE SOUTH-WEST CORNER OF LAND OWNED BY PHILIPP STEPHENS AT THE TIME OF HIS DEATH, AND RUNNING THENCE NORTH 26° AND 30' EAST ALONG THE EAST LINE OF SAID SOUTH AURORA STREET 353 ½ FEET TO THE SOUTH LINE OF LANDS DEVISED TO FITCH H. STEPHENS BY SAID PHILIPP STEPHENS BY HIS WILL ADMITTED TO PROBATE MAY 11, 1908, AND RECORDED IN BOOK C. C. OF WILLS AT PAGE 398 IN THE SURROGATE'S OFFICE OF SAID COUNTY OF TOMPKINS; THENCE NORTH 88° 45' EAST 703 FEET TO THE WEST LINE OF LANDS, WHICH BY THE TERMS OF SAID WILL, THE EXECUTOR THEREIN NAMED WAS EMPOWERED TO SELL; THENCE SOUTH 4° 15' WEST ALONG SAID WEST LINE OF SAID LANDS, WHICH SAID EXECUTOR WAS EMPOWERED TO SELL, 316 ½ FEET TO THE SOUTH LINE OF SAID PHILIPP STEPHENS' LAND; THENCE SOUTH 88° AND 15' WEST ALONG THE SOUTH LINE OF SAID LAND OWNED BY SAID STEPHENS AT THE TIME OF HIS DEATH 841 FEET TO THE EAST LINE OF SOUTH AURORA STREET, THE PLACE OF BEGINNING, EXCEPTING THEREFROM TWO LOTS OF 40 FEET BY 200 FEET DONATED BY SAID STEPHENS TO THE CONGREGATIONAL CHURCH AND A LOT 50 FEET BY 200 FEET SOLD BY SAID STEPHENS TO LEVI HOLLISTER AND BEING AND INTENDED TO BE THE SOUTHWEST LOT OF LAND ON SAID SOUTH AURORA STREET DEVISED BY SAID WILL OF PHILIPP STEPHENS, DECEASED, TO ELIZABETH BARTO. ALSO, COMMENCING AT A POINT ON THE EAST SIDE OF SOUTH AURORA STREET IN SAID CITY 110 FEET NORTHERLY FROM A POINT WHERE THE SOUTH LINE OF PREMISES FORMERLY OWNED BY PHILIPP STEPHENS JOINS THE EAST SIDE OF SAID SOUTH AURORA STREET, AND RUNNING FROM THENCE EAST 200 FEET; THENCE NORTHERLY PARALLEL WITH SOUTH AURORA STREET 50 FEET; THENCE WEST 200 FEET TO THE EAST SIDE OF SOUTH AURORA STREET; AND THENCE ALONG THE EAST SIDE OF SOUTH AURORA STREET 50 FEET TO THE PLACE OF BEGINNING. BEING 50 FEET ON SOUTH AURORA STREET BY 200 FEET DEEP EASTERLY AND WESTERLY, AND

ON SOUTH HILL DESCRIBED AS FOLLOWS: BEGINNING AT A POINT WHERE A PROLONGATION TO THE SOUTH OF THE WEST LINE OF TIOGA STREET WILL INTERSECT THE NORTH LINE OF THE DELAWARE, LACKAWANNA & WESTERN, RAILROAD; THENCE NORTH ALONG SAID WEST LINE OF SAID PROLONGATION OF TIOGA STREET, 170 FEET, THENCE WEST 210 FEET; THENCE SOUTH PARALLEL WITH SAID LINE ON TIOGA STREET TO THE NORTH LINE OF SAID RAILROAD; THENCE EASTERLY ALONG THE NORTH LINE OF SAID RAILROAD TO THE PLACE OF BEGINNING. BEING KNOWN AS THE SOUTH HILL RESERVOIR SITE, AND

A PART OF MILITARY LOT NO. 94 AND BEING A PART OF LANDS DEEDED TO SARAH MCGRAW BY ABEL BURRITT AND WIFE; RECORDED IN THE CLERK'S OFFICE OF TOMPKINS COUNTY IN LIBER 7 OF ITHACA DEEDS AT PAGE 519, BOUNDED AS FOLLOWS, TO WIT: BEGINNING AT THE INTERSECTION OF THE SOUTH LINE OF WALNUT STREET, WITH THE WEST LINE OF THE OLD OWEGO AND ITHACA TURNPIKE ROAD; THENCE WEST ALONG SAID SOUTH LINE OF WALNUT STREET TO THE EAST LINE OF TIOGA STREET; THENCE SOUTH ALONG TIOGA STREET TO THE LANDS DEVISED TO FRANK SEARS MCGRAW, UNDER THE TERMS OF THE LAST WILL AND TESTAMENT OF SARAH MCGRAW, TO WHICH MORE COMPLETE REFERENCE IS MADE HEREINAFTER; THENCE RUNNING EAST ALONG THE NORTH LINE OF SAID MCGRAW'S LAND TO THE OLD OWEGO AND ITHACA TURNPIKE ROAD; THENCE NORTHEASTERLY ALONG SAID ROAD TO THE PLACE OF BEGINNING, AND

BEGINNING AT THE INTERSECTION OF THE SOUTH LINE OF FOUNTAIN STREET, WITH THE WEST LINE OF THE OLD OWEGO AND ITHACA TURNPIKE ROAD; THENCE SOUTHERLY ON THE WEST LINE OF SAID TURNPIKE TO WALNUT STREET; THENCE WESTERLY ON THE NORTH LINE OF WALNUT STREET TO TIOGA STREET; THENCE NORTHERLY ON THE EAST LINE OF TIOGA STREET TO LANDS PREVIOUSLY DEEDED TO MORSE CHAIN COMPANY BY MARY CELESTIA GAUNTLETT AND GEORGIA MCGRAW CURTISS, AS IS RECORDED AT THE TOMPKINS COUNTY CLERK'S OFFICE IN LIBER 168 OF ITHACA DEEDS AT PAGE 169; THENCE NORTHEASTERLY ALONG SAID MORSE CHAIN COMPANY'S LAND TO THE SOUTH LINE OF FOUNTAIN STREET; THENCE EASTERLY ALONG THE SOUTH LINE OF FOUNTAIN STREET TO THE PLACE OF BEGINNING, AND

A PART OF MILITARY LOT NO. 94 AS FOLLOWS, TO WIT: ALL THAT PART OF WALNUT STREET AND FOUNTAIN STREET, BETWEEN THE OLD OWEGO AND ITHACA TURNPIKE ROAD AND SOUTH TIOGA STREET; AND ALL THAT PART OF SOUTH TIOGA STREET EXTENDING FROM THE NORTH SIDE OF FOUNTAIN STREET TO THE SOUTHWEST CORNER OF LANDS FORMERLY OWNED AND OCCUPIED BY SARAH MCGRAW. SAID WALNUT STREET, BEING THE SAME AS IS INDICATED BY A MAP OF THE BLOODGOOD ESTATE, FILED IN THE CLERK'S OFFICE OF TOMPKINS COUNTY, MARCH 21, 1837. SAID PORTION OF FOUNTAIN STREET AND SOUTH TIOGA STREET BEING THE SAME AS LAID OUT IN A MAP OF ITHACA, BY A.G. BARDIN, DATED 1872, AND

BEGINNING AT THE CENTER OF THE TURNPIKE LEADING FROM ITHACA TO OWEGO, AT A STAKE AND STONES, NOW A POINT IN THE EAST LINE OF SOUTH AURORA STREET, BEING THE SOUTHWEST CORNER OF A SMALL LOT SOLD BY JOHN SCOTT TO MRS. GEE; THENCE RUNNING NORTH 89° 30' EAST 8 CHAINS AND 25 LINKS TO A STAKE AND STONES; THENCE NORTH 22° 30' EAST 1 CHAIN AND 74 LINKS TO A STAKE AND STONES; THENCE SOUTH 89° 30' WEST 7 CHAINS AND 80 LINKS TO THE CENTER OF THE OLD OWEGO TURNPIKE, NOW AURORA STREET, THENCE SOUTH 28° WEST TO THE PLACE OF BEGINNING, EXCEPTING OUT OF THE SOUTH WEST PROPERTY BELONGING TO ABIGAL AND CATHARINE GEE, NOW OR FORMERLY, THE BALANCE HEREBY CONVEYED.

ALSO ALL THAT CERTAIN OTHER PIECE OR PARCEL OF LAND ADJOINING THE ABOVE AND DESCRIBED AS FOLLOWS, TO WIT: BEGINNING AT A CORNER FORMED BY THE CENTER OF THE OLD OWEGO AND ITHACA TURNPIKE ROAD AND ON THE LINE OF A BOARD FENCE, FROM THENCE NORTH 89° 30' EAST ALONG THE LINE OF JESSIE D. SMITH'S LAND 8 CHAINS AND 25 LINKS TO A POST; THENCE NORTH 22° 30' EAST ON THE LINE OF JAMES TRUESDALL'S LAND 180 TO A POST; THENCE SOUTH 89° 30' WEST 8 CHAINS TO THE CENTER OF SAID TURNPIKE ROAD; THENCE SOUTH 28° WEST TO THE PLACE OF BEGINNING.

ALSO ALL THAT CERTAIN PIECE OR PARCEL OF LAND BEING PART OF LOT NUMBER 3 OF A SUBDIVISION OF A PART OF MILITARY LOT NO. 94 OF THE TOWN OF ULYSSES, NOW ITHACA, MADE BY WILLIAM R. COLLINS AND DESCRIBED AS FOLLOWS, TO WIT: BEGINNING AT THE SOUTH WEST CORNER OF SAID SUBDIVISION NUMBER 3 ON THE EAST LINE OF THE OLD ITHACA AND OWEGO TURNPIKE, RUNNING THENCE NORTHERLY ALONG SAID TURNPIKE 3 RODS; THENCE NORTH 89° 30' EAST 6 RODS; THENCE SOUTHERLY ON A LINE PARALLEL WITH SAID TURNPIKE 3 RODS TO THE SOUTH LINE OF SAID SUBDIVISION NO. 3; THENCE WESTERLY ON SAID LINE 6 RODS TO THE PLACE OF BEGINNING. EXCEPTING AND RESERVING FROM THE PREMISES ABOVE DESCRIBED ALL THAT PIECE OR PARCEL OF LAND CONVEYED BY PATRICK WALL AND WIFE TO JAMES HILLICK, JR., AND MARY HILLICK, HIS WIFE, BY DEED DATED JUNE 28, 1911, AND RECORDED IN THE TOMPKINS COUNTY CLERK'S OFFICE IN LIBER 177 OF DEEDS AT PAGE 32, BEING LOT NO. 10 AS LAID OUT ON A MAP OF THE PREMISES ABOVE DESCRIBED.

ALSO ALL THAT TRACT OR PARCEL OF LAND BEGINNING AT THE NORTHEAST CORNER OF LOT NO. 85, OF THE TOWN OF ITHACA, NOW WITHIN THE CITY LIMITS, RUNNING THENCE NORTH ALONG THE EAST LINE OF SOUTH TIOGA STREET EXTENDING TO WHERE IT IS INTERSECTED, BY THE SOUTH LINE OF LANDS NOW OR FORMERLY OWNED BY FRANK E. BROWN AND STELLA BROWN, THENCE EAST ALONG SAID BROWN'S SOUTH LINE TO THE WEST LINE OF SOUTH AURORA STREET; THENCE SOUTHWESTERLY ALONG THE WEST LINE OF SOUTH AURORA STREET TO THE PLACE OF BEGINNING, AND

A PART OF MILITARY LOT NO. 94 AND BEING A PART OF LANDS DEEDED TO SARAH MCGRAW BY ABEL BURRITT AND WIFE, RECORDED IN THE CLERK'S OFFICE AT TOMPKINS COUNTY IN LIBER 7 OF ITHACA DEEDS AT PAGE 519; BOUNDED AS FOLLOWS, TO WIT: BEGINNING AT THE NORTHEAST CORNER OF LAND FORMERLY OWNED BY ABRAM MASTERS, JR.; THENCE NORTHEASTERLY ALONG THE WEST LINE OF THE OLD OWEGO AND ITHACA TURNPIKE ROAD TO THE LANDS DEVISED TO MARY CELESTIA GAUNTLETT AND GEORGIA MCGRAW CURTISS, UNDER THE TERMS OF THE LAST WILL AND TESTAMENT OF SARAH MCGRAW, TO WHICH MORE COMPLETE REFERENCE IS MADE HEREINAFTER, THENCE WEST ALONG THE SOUTH LINE OF SAID GAUNTLETT AND CURTISS LAND TO THE EAST LINE OF TIOGA STREET; THENCE SOUTH ALONG TIOGA STREET TO LAND NOW OR FORMERLY OWNED OR IN THE POSSESSION OF SARAH HITCHCOCK; RUNNING THENCE EAST ALONG THE NORTH LINE OF SAID LAND TO THE SOUTHWEST CORNER OF SAID ABRAM MASTER'S JR., LAND; THENCE NORTH ALONG THE WEST LINE OF SAID MASTER'S LAND 83 FEET; THENCE EAST ALONG THE NORTH LINE OF SAID MASTER'S LAND TO THE PLACE OF BEGINNING, AND

BEGINNING AT A POINT IN THE INTERSECTION OF THE WEST LINE OF SOUTH AURORA STREET AND THE SOUTH LINE OF THE CITY OF ITHACA, NEW YORK; THENCE SOUTHWESTERLY ALONG THE WEST LINE OF SOUTH AURORA STREET, 480 FEET; THENCE WEST, PARALLEL WITH THE CITY LINE TO A POINT IN THE EAST LINE OF CAYUGA STREET EXTENSION; THENCE NORTH ALONG THE EAST LINE OF CAYUGA STREET EXTENSION TO THE SOUTH LINE OF THE CITY OF ITHACA; THENCE EAST ALONG THE SOUTH LINE OF THE CITY OF ITHACA TO THE PLACE OF BEGINNING, AND

ALL THAT TRACT OR PARCEL OF LAND, NOW OR FORMERLY OWNED BY EBENEZER T. TURNER, A WIDOWER,

LYING WESTERLY OF THE EXTENSION OF SOUTH AURORA STREET (FORMERLY KNOWN AS THE OWEGO TURNPIKE), SOUTHEASTERLY O F THE D. L. & W. R. R. RIGHT OF WAY, SOUTH OF THE SOUTH CORPORATION LINE OF THE CITY OF ITHACA AND LANDS OF SUSAN WIGLEY, AND NORTHERLY OF THE BATES FARM, AND MORE PARTICULARLY DESCRIBED AS FOLLOWS: BEGINNING AT A POINT IN THE CENTER OF THE OWEGO TURNPIKE IN THE LINE BETWEEN THE LANDS NOW OR FORMERLY OF EBENEZER T. TURNER, WIDOWER, AND THE BATES FARM; RUNNING THENCE WESTERLY ALONG THE NORTH LINE OF THE SAID BATES FARM 84-1/4° WEST 1437 FEET TO A CORNER IN A STONE WALL; THENCE NORTH 7-1/2° EAST 770 FEET TO THE SOUTHEASTERLY LINE OF THE RIGHT OF WAY OF THE D. L. & W. RY.; THENCE NORTHEASTERLY ALONG THE RIGHT OF WAY OF THE SAID D. L. & W. RY. ABOUT 2205 FEET TO THE SOUTH CORPORATION LINE OF THE CITY OF ITHACA; THENCE SOUTH 84-1/4° EAST ALONG THE SOUTH CORPORATION LINE OF THE CITY OF ITHACA 396 FEET TO THE NORTHWEST CORNER OF LAND CONVEYED TO SUSAN WIGLEY BY DEED DATED JANUARY 29, 1907, AND RECORDED IN THE TOMPKINS COUNTY CLERK'S OFFICE IN BOOK 167 OF DEEDS AT PAGE 217; THENCE SOUTH 6-3/4° WEST ALONG THE WEST LINE OF SAID WIGLEY LOT 421 FEET TO THE SOUTHWEST CORNER OF SAID WIGLEY LOT; THENCE SOUTH 84-1/4° EAST ALONG THE SOUTH LINE OF THE SAID WIGLEY LOT 322 FEET, MORE OR LESS, TO THE WESTERLY LINE OF THE EXTENSION OF SOUTH AURORA STREET, KNOWN AS THE DANBY MACADAM ROAD; THENCE ON A CONTINUATION OF THE SAID LAST MENTIONED LINE 27 FEET TO THE CENTER OF SAID ROAD; THENCE SOUTH 33-3/4° WEST ALONG THE CENTER OF SAID MACADAM ROAD 1411 FEET, MORE OR LESS, THENCE SOUTH 23-3/4° WEST 682 FEET TO THE PLACE OF BEGINNING, ACCORDING TO A SURVEY MADE BY CARL CRANDALL, C. E., DATED JULY, 1917, AND,

BEGINNING IN THE EASTERLY LINE OF SPENCER STREET IN SAID CITY AT THE SOUTHWESTERLY CORNER OF LANDS CONVEYED TO EBENEZER T. TURNER TO DANIEL CROWLEY AND HELEN S. CROWLEY BY DEED DATED FEBRUARY 26, 1924, AND RECORDED IN THE TOMPKINS COUNTY CLERK'S OFFICE IN LIBER 196 OF DEEDS AT PAGE 227; RUNNING THENCE EASTERLY ALONG THE SOUTHERLY BOUNDARY OF LANDS OF CROWLEY 123 FEET TO THE SOUTHEASTERLY CORNER THEREOF; THENCE NORTHERLY ALONG THE EASTERLY BOUNDARY OF LANDS OF CROWLEY 22.5 FEET TO THE SOUTHWESTERLY CORNER OF A PARCEL OF LAND CONVEYED BY EBENEZER T. TURNER TO AUGUST KAMINSKY BY DEED DATED NOVEMBER 14, 1923 AND RECORDED IN LIBER 205 OF DEEDS AT PAGE 433; THENCE EASTERLY ALONG THE SOUTHERLY BOUNDARY OF KAMINSKY TO THE SOUTHEASTERLY CORNER OF SAID KAMINSKY IN THE WESTERLY LINE OF SOUTH CAYUGA STREET EXTENSION; THENCE SOUTHERLY ALONG THE WESTERLY LINE OF SOUTH CAYUGA STREET EXTENSION TO THE INTERSECTION WITH THE WESTERLY RIGHT OF WAY LINE OF THE DELAWARE, LACKAWANNA AND WESTERN RAILROAD NEAR THE UNDERPASS BRIDGE; THENCE SOUTHWESTERLY ALONG THE WESTERLY BOUNDARY OF LANDS OF SAID RAILROAD TO THE NORTH LINE OF THE OLD INCLINED PLANE AT A POINT 185 FEET NORTHEASTERLY ALONG THE RAILROAD BOUNDARY FROM ITS INTERSECTION WITH THE SOUTH CORPORATION LINE OF THE CITY OF ITHACA, THE NORTH LINE OF THE OLD INCLINED PLANE BEING THE NORTHERLY BOUNDARY OF THE SECOND PARCEL DESCRIBED IN A CONVEYANCE FROM WILLIAM SHEEHY TO JOHN SHEEHY, DATED NOVEMBER 21, 1921, AND RECORDED IN LIBER 201 OF DEEDS AT PAGE 442; THENCE WESTERLY ALONG THE NORTH LINE OF THE OLD INCLINED PLANE AND NORTHERLY BOUNDARY OF LANDS OF SAID SHEEHY TO THE INTERSECTION WITH THE EASTERLY LINE OF SPENCER STREET; THENCE NORTHERLY ALONG THE EASTERLY LINE OF SPENCER STREET TO THE PLACE OF BEGINNING. EXCEPTING ALL RIGHT, TITLE AND INTEREST OF THE CITY OF ITHACA IN AND TO A WATER MAIN RUNNING ACROSS THE WESTERLY PORTION OF SAID PREMISES AND ALONG THE ABANDONED LOCATION OF SPENCER ROAD, AND

ALL THAT TRACT, PIECE OR PARCEL OF LAND BOUNDED AND DESCRIBED AS FOLLOWS: ON THE NORTH AND WEST BY THE SOUTHERLY AND EASTERLY BOUNDARY LINE OF THE DELAWARE, LACKAWANNA & WESTERN R R. CO.; ON THE EAST AND SOUTH BY SOUTH AURORA STREET AND ITS EXTENSION SOUTHERLY KNOWN AS THE ITHACA-OWEGO TURNPIKE AND THE NORTHERLY LINE OF THE OLD JACOB BATES' FARM SITUATED ADJOINING THE WESTERLY SIDE OF THE SAID TURNPIKE, AND

BEGINNING AT AN IRON PIPE MARKING THE SOUTHEASTERLY CORNER OF LANDS CONVEYED BY MORSE CHAIN COMPANY TO WILLIAM P. RYAN BY DEED DATED APRIL 7, 1925, AND RECORDED IN THE TOMPKINS COUNTY CLERK'S OFFICE IN LIBER 206 OF DEEDS AT PAGE 330, SAID PIPE BEING 130 FEET EASTERLY AT RIGHT ANGLES FROM THE EASTERLY LINE OF SOUTH AURORA STREET AND ALSO BEING IN THE NORTH BOUNDARY OF LANDS NOW OR FORMERLY OF JULIA E. STARKINS; THENCE EAST ALONG THE NORTH BOUNDARY OF LANDS NOW OR FORMERLY OF JULLIA E. STARKINS, ABOUT 54 FEET TO THE NORTHEASTERLY

CORNER OF LANDS NOW OR FORMERLY OF JULIA E. STARKINS; THENCE SOUTHWESTERLY ALONG THE EASTERLY BOUNDARY OF LANDS NOW OR FORMERLY OF JULIA E. STARKINS ABOUT 77 FEET TO THE SOUTHEASTERLY CORNER OF LANDS NOW OR FORMERLY OF JULIA E. STARKINS 10 FEET NORTH OF THE PRESENT OR FORMER NORTH LINE OF A 40 FOOT STREET KNOWN AS WALL STREET; THENCE WEST ALONG A LINE 10 FEET NORTH OF AND PARALLEL WITH SAID NORTH LINE OF WALL STREET 24 FEET TO THE NORTHEASTERLY CORNER OF A 10 FOOT STRIP OF LAND CONVEYED BY MORSE CHAIN COMPANY TO JULIA E. STARKINS; THENCE NORTH 70 FEET IN A STRAIGHT LINE TO THE PLACE OF BEGINNING, AND

BEGINNING AT AN IRON PIPE MARKING THE INTERSECTION OF THE NORTH LINE OF WALL STREET WITH THE EASTERLY LINE OF SOUTH AURORA STREET AND THE SAME POINT OF BEGINNING DESCRIBED IN A CONVEYANCE OF A 10 FOOT STRIP OF LAND BY MORSE CHAIN COMPANY TO JULIA E. STARKINS BY DEED DATED JANUARY 2, 1926; THENCE EAST ALONG THE NORTH LINE OF WALL STREET (40 FEET WIDE) A DISTANCE OF 25 FEET; THENCE NORTHWESTERLY AND NORTHERLY ALONG A CURVE TO THE RIGHT WITH A RADIUS OF 15 FEET FOR 30.9 FEET TO A POINT IN THE EASTERLY LINE OF SOUTH AURORA STREET; THENCE SOUTHWESTERLY ALONG THE EASTERLY LINE OF SOUTH AURORA STREET 25 FEET TO THE PLACE OF BEGINNING, AND

LOT NO. 21 AS LAID OUT ON A MAP OF SOUTH HILL LANDS OF S. B. AND E. T. TURNER, MADE BY KIRK P. CRANDALL DATED MAY, 1905, AND FILED IN THE TOMPKINS COUNTY CLERK'S OFFICE ON THE 31ST DAY OF AUGUST, 1906, AND IN MAP BK B1 PAGE 35.

LOT NO. 33 AS SHOWN ON A MAP OF THE PROPERTY OF S. B. AND E. T. TURNER OF SOUTH HILL MADE BY K.P. CRANDALL, C. E., MAY, 1905, FILED IN TOMPKINS COUNTY CLERK'S OFFICE AUGUST 31, 1906, AND FILED IN MAP BOOK B1 PAGE 33.

BEGINNING AT AN IRON PIPE IN THE NORTHWESTERLY LINE OF SOUTH AURORA STREET AT THE NORTHEASTERLY CORNER OF LANDS NOW OR FORMERLY OF CHARLES GUTENBERGER; THENCE NORTHWESTERLY AT RIGHT ANGLES WITH SOUTH AURORA STREET 100 FEET TO AN IRON PIPE; THENCE NORTHEASTERLY PARALLEL WITH SOUTH AURORA STREET 50 FEET TO AN IRON PIPE; THENCE SOUTHEASTERLY AT RIGHT ANGLES WITH SOUTH AURORA STREET 100 FEET TO AN IRON PIPE SET IN THE NORTHWESTERLY LINE OF SAID STREET; THENCE SOUTHWESTERLY ALONG THE LINE OF SAID STREET 50 FEET TO THE PLACE OF BEGINNING, AND

BEGINNING AT THE SOUTHEAST CORNER OF THE PARCEL CONVEYED BY MORSE CHAIN COMPANY TO ALLEN WALES ADDING MACHINE CORPORATION BY DEED DATED AUGUST 27,1947 AND RECORDED SEPTEMBER 2, 1947 IN LIBER 302 OF DEEDS AT PAGE 170, SAID POINT OF BEGINNING BEING IN THE WEST LINE OF SOUTH AURORA STREET ABOUT 135 FEET NORTHEASTERLY ALONG SAID LINE FROM ITS INTERSECTION WITH THE SOUTH LINE OF THE CITY OF ITHACA; RUNNING THENCE NORTH 81° 33' WEST (MAGNETIC 1947) ALONG THE SOUTH LINE OF SAID PARCEL 272 FEET TO A PIPE; RUNNING THENCE NORTH 37° 30' EAST ALONG A WESTERLY LINE OF SAID PARCEL 389.2 FEET TO A PIPE; RUNNING THENCE SOUTHEASTERLY ABOUT 138 FEET TO A PIPE (PIPE A) AT THE NORTHWESTERLY CORNER OF THE PARCEL KNOWN AS 764 SOUTH AURORA STREET CONVEYED BY THE NATIONAL CASH REGISTER COMPANY TO FRANK J. AND ALICE J. RAPONI, HUSBAND AND WIFE, BY DEED DATED MAY 7, 1956 AND RECORDED JUNE 4, 1956 IN LIBER 387 OF DEEDS AT PAGE 531; RUNNING THENCE SOUTH 36° 24' WEST ALONG THE WESTERLY LINE OF SAID RAPONI PARCEL 40 FEET TO A PIPE; CONTINUING THENCE SOUTH 36° 24' WEST 121.5 FEET TO A PIPE; RUNNING THENCE SOUTH 09° 37' WEST 35.3 FEET TO A POINT; RUNNING THENCE SOUTH 75° EAST 89 FEET TO A PIPE IN THE WEST LINE OF SOUTH AURORA STREET (THE PRECEDING THREE COURSES BEING ALONG LINES OF THE PREMISES KNOWN AS 766 SOUTH AURORA STREET CONVEYED BY THE NATIONAL CASH REGISTER COMPANY TO JOHN R. AND NORMA E. CAPOZZI BY DEED DATED AUGUST 28, 1953 AND RECORDED SEPTEMBER 3,1953 IN LIBER 361OF DEEDS AT PAGE 269); RUNNING THENCE SOUTH 36° 24' WEST ALONG THE WEST LINE OF SOUTH AURORA STREET 48 FEET TO THE POINT OR PLACE OF BEGINNING. TOGETHER WITH A RIGHT OF WAY, IN COMMON WITH OTHERS, ENTITLED NOW OR HEREAFTER TO USE THE SAME, FOR PEDESTRIANS AND VEHICLES FROM THE NORTHEASTERLY CORNER OF THE ABOVE-DESCRIBED PARCEL EASTERLY TO AURORA STREET OVER A STRIP OF LAND DESCRIBED AS FOLLOWS: BEGINNING AT SAID PIPE A; RUNNING THENCE SOUTHEASTERLY ALONG THE NORTH LINE OF SAID RAPONI PARCEL 72.3 FEET; RUNNING THENCE SOUTHEASTERLY AT A SLIGHT ANGLE TO THE RIGHT ALONG THE NORTH LINE OF SAID RAPONI PARCEL 32

FEET TO A PIPE IN THE WEST LINE OF SOUTH AURORA STREET; RUNNING THENCE NORTH 36° 24' EAST ALONG THE WEST LINE OF SOUTH AURORA STREET 28 FEET TO A PIPE; RUNNING THENCE NORTH 64° 44' WEST ALONG THE SOUTHERLY LINE OF THE PARCEL CONVEYED BY THE NATIONAL CASH REGISTER COMPANY TO JOSEPH AND MARIE W. POKERWINSKI BY DEED DATED JANUARY 12, 1954 AND RECORDED JANUARY 26, 1954 IN LIBER 365 OF DEEDS AT PAGE 165,101 FEET TO THE SOUTHWESTERLY CORNER OF SAID POKERWINSKI PARCEL; RUNNING THENCE WESTERLY ABOUT 40 FEET TO A POINT IN THE NORTHERLY LINE OF THE ABOVE DESCRIBED PARCEL (THE 138 FOOT COURSE); RUNNING THENCE SOUTHEASTERLY ALONG SAID NORTH LINE 35 FEET TO PIPE A, AND

LOT NO. 26 AS LAID OUT ON A MAP OF SOUTH HILL LANDS OF S.B. AND E.T. TURNER, MADE BY KIRK P. CRANDALL, DATED MAY, 1905, AND FILED IN THE TOMPKINS COUNTY CLERK'S OFFICE ON AUGUST 31, 1906, AND

ALSO, ALL THAT TRACT OR PARCEL OF LAND SITUATE IN THE TOWN AND CITY OF ITHACA, COUNTY OF TOMPKINS AND STATE OF NEW YORK, BOUNDED AND DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT IN THE PRESENT CENTER LINE OF STONE QUARRY ROAD (ONCE KNOWN AS TEERS ROAD), SAID POINT OF BEGINNING BEING THE INTERSECTION OF THE PRESENT CENTER LINE OF STONE QUARRY ROAD AND THE NORTHERLY RIGHT OF WAY LINE OF LANDS OF LEHIGH VALLEY RAILROAD (FORMERLY THE DELAWARE, LACKAWANNA AND WESTERN RAILROAD), SAID POINT OF BEGINNING ALSO BEING LOCATED THIRTY-THREE (33) FEET NORTHERLY FROM THE CENTER LINE STATIONS THIRTEEN THOUSAND SIX HUNDRED FORTY-FOUR PLUS NINETY FOUR (13644 + 94) ± AS SHOWN ON MAP ENTITLED "RIGHT OF WAY AND TRACK MAP - ITHACA BRANCH - ITHACA YARD TRACKS - LEHIGH VALLEY R.R. COMPANY", DATED DECEMBER 6, 1956.

RUNNING THENCE (1) ALONG THE NORTHERLY RIGHT OF WAY LINE OF SAID RAILROAD NORTH 67° 52' 50" EAST FIFTY-SIX AND FIFTY-SEVEN HUNDREDTHS (56.57) FEET TO A PIPE, SAID PIPE MARKING THE INTERSECTION OF THE NORTHERLY RIGHT OF WAY LINE OF SAID RAILROAD AND THE EASTERLY HIGHWAY LINE OF STONE QUARRY ROAD;

RUNNING THENCE (2) ON A CURVE TO THE LEFT ALONG THE LANDS REPUTEDLY OF HOLLISTER A DISTANCE OF TWO HUNDRED SIXTY-SEVEN AND FIFTY HUNDREDTHS (267.50) FEET TO A CONCRETE MONUMENT, SAID CURVE HAVING A CHORD BEARING AND DISTANCE OF NORTH 63° 32' 37" EAST TWO HUNDRED SIXTY-SEVEN AND TWENTYFOUR HUNDREDTHS (267.24) FEET;

RUNNING THENCE (3) NORTH 60° 08' 00" EAST ALONG THE REMAINS OF AN OLD FENCE LINE AND CONTINUING ALONG THE LANDS REPUTEDLY OF HOLLISTER, RUNSEY, AND ROEDEL, A TOTAL DISTANCE OF SEVEN HUNDRED FORTY-THREE AND FORTY-NINE HUNDREDTHS (743.49) FEET TO A CONCRETE MONUMENT;

RUNNING THENCE (4) ON A CURVE TO THE LEFT ALONG LANDS REPUTEDLY OF ROEDEL, LUCENTE, WHITING, AND O'NEIL A DISTANCE OF FOUR HUNDRED SIXTY-TWO AND FIFTY-THREE HUNDREDTHS (462.53) FEET, SAID CURVE HAVING A CHORD BEARING AND DISTANCE OF NORTH 56° 03' 51" EAST FOUR HUNDRED SIXTY-TWO AND FOURTEEN HUNDREDTHS (462.14) FEET;

RUNNING THENCE (5) ON A CURVE TO THE LEFT AND ALONG THE LANDS REPUTEDLY OF O'NEIL AND CONSOLIDATED GAS SUPPLY CORPORATION A TOTAL DISTANCE OF SIX HUNDRED FIFTEEN AND SIXTY-FOUR HUNDREDTHS (615.64) FEET TO A CONCRETE MONUMENT, SAID CURVE HAVING A CHORD BEARING AND DISTANCE OF NORTH 48° 54' 32" EAST SIX HUNDRED FIFTEEN AND THIRTY-THREE HUNDREDTHS (615.33) FEET;

RUNNING THENCE (6) NORTH 45° 43' 49" EAST ALONG LANDS REPUTEDLY OF CONSOLIDATED GAS SUPPLY CORPORATION, NEW YORK STATE NATURAL GAS CORPORATION, BORG-WARNER CORPORATION AND NEW YORK STATE ELECTRIC AND GAS CORPORATION A TOTAL DISTANCE OF ONE THOUSAND TWO HUNDRED FOUR AND SIXTY-FIVE HUNDREDTHS (1204.65) FEET TO A POINT;

RUNNING THENCE (7) ON A CURVE TO THE RIGHT ALONG LANDS REPUTEDLY OF NEW YORK STATE ELECTRIC

AND GAS CORPORATION AND BORG-WARNER CORPORATION A TOTAL DISTANCE OF FOUR HUNDRED NINETY-FOUR AND ONE HUNDREDTHS (494.01) FEET TO A POINT, SAID CURVE HAVING A CHORD BEARING AND DISTANCE OF NORTH 52° 15' 05" EAST FOUR HUNDRED NINETY-TWO AND NINETY-SIX HUNDREDTHS (492.96) FEET;

RUNNING THENCE (8) NORTH 58° 44' 17" EAST ALONG THE NORTHERLY RIGHT OF WAY LINE OF SAID RAILROAD AND ALONG LANDS REPUTEDLY OF BORG-WARNER CORP. FOUR HUNDRED THIRTY-SEVEN AND NINETY-ONE HUNDREDTHS (437.91) FEET TO A PIPE, SAID PIPE MARKING THE INTERSECTION OF THE RAILROAD RIGHT OF WAY AND THE EAST STREET LINE OF TURNER PLACE, THENCE CONTINUING ON SAID COURSE ONE HUNDRED SIXTY-ONE AND EIGHT TENTHS (161.8) FEET TO A PIPE, SAID LINE BEING ALONG PREMISES REPUTEDLY OF ANDREWS, AND SAID PIPE MARKING THE INTERSECTION OF THE RAILROAD RIGHT OF WAY AND THE SOUTH LINE OF FOUNTAIN STREET (AN UNOPENED STREET); THENCE CONTINUING ALONG SAID COURSE EIGHTY AND TWO TENTHS (80.2) FEET TO A PIPE MARKING THE INTERSECTION OF THE RAILROAD RIGHT OF WAY LINE AND THE NORTHERLY LINE OF FOUNTAIN STREET;

RUNNING THENCE (9) SOUTH 89° 17' 06" EAST ALONG THE NORTHERLY LINE OF FOUNTAIN STREET A DISTANCE OF SEVEN AND SIXTY HUNDREDTHS (7.60) FEET TO A PIPE, SAID PIPE MARKING THE SOUTHWEST CORNER OF LANDS CONVEYED TO THE CAYUGA AND SUSQUEHANNA RAILROAD BY GEORGE TALMAN (DEEDS BOOK 63, PAGE 18);

RUNNING THENCE (10) NORTH 08° 33' 52" EAST ALONG THE WEST LINE OF LANDS CONVEYED BY TALMAN A DISTANCE OF SEVEN AND NO HUNDREDTHS (7.00) FEET TO A PIPE, SAID PIPE MARKING THE INTERSECTION OF THE NORTHERLY LINE OF THE RAILROAD RIGHT OF WAY AND THE WEST LINE OF TALMAN, SAID PIPE ALSO MARKING THE SOUTHWEST CORNER OF LANDS REPUTEDLY OF VARAK;

RUNNING THENCE (11) NORTH 62° 27' 22" EAST ALONG THE RAILROAD RIGHT OF WAY THIRTEEN AND FORTY-FOUR HUNDREDTHS (13.44) FEET TO A PIPE;

RUNNING THENCE (12) ON A CURVE TO THE RIGHT, ALONG THE LANDS REPUTEDLY OF VARAK, LEDGER AND SNOWDEN, A DISTANCE OF ONE HUNDRED SIXTY-SEVEN AND TEN HUNDREDTHS (167.10) FEET TO A CONCRETE MONUMENT, SAID CURVE HAVING A CHORD BEARING AND DISTANCE OF NORTH 61° 22' 01" EAST, ONE HUNDRED SIXTY-SEVEN AND FOUR HUNDREDTHS (167.04) FEET;

RUNNING THENCE (13) ON A CURVE TO THE RIGHT, ALONG THE LANDS REPUTEDLY OF SNOWDEN, CHACONA, HEAVNER AND STERLING, A DISTANCE OF ONE HUNDRED THIRTY-NINE AND EIGHTEEN HUNDREDTHS (139.18) FEET TO A POINT, SAID POINT HAVING A CHORD BEARING AND DISTANCE OF NORTH 66° 44' 49" EAST, ONE HUNDRED THIRTY-NINE AND EIGHTEEN HUNDREDTHS (139.18) FEET;

RUNNING THENCE (14) ON A CURVE TO THE RIGHT, ALONG THE LANDS REPUTEDLY OF STERLING, A DISTANCE OF FORTY-SIX AND EIGHT HUNDREDTHS (46.08) FEET TO A CONCRETE MONUMENT LOCATED IN THE WESTERLY STREET LINE OF SOUTH AURORA STREET, SAID CURVE HAVING A CHORD BEARING AND DISTANCE OF NORTH 70° 13' 23 " EAST, FORTY-SIX AND SIX HUNDREDTHS (46.06) FEET;

RUNNING THENCE (15) SOUTH 05° 42' 23" WEST ALONG THE WESTERLY STREET LINE OF SOUTH AURORA STREET A DISTANCE OF SEVENTY-TWO AND FORTY-TWO HUNDREDTHS (72.42) FEET TO A PIPE, SAID PIPE MARKING THE SOUTHERLY RAILROAD RIGHT OF WAY;

RUNNING THENCE (16) ON A CURVE TO THE LEFT A DISTANCE OF SEVEN AND FIFTY-EIGHT HUNDREDTHS (7.58) FEET TO A PIPE, SAID CURVE HAVING A CHORD BEARING AND DISTANCE OF SOUTH 68° 35' 49" WEST, SEVEN AND FIFTY-EIGHT HUNDREDTHS (7.58) FEET;

RUNNING THENCE (17) ON A CURVE TO THE LEFT, PASSING THROW A CONCRETE MONUMENT AT TWO HUNDRED FIFTY-FOUR AND FIFTY-FOUR HUNDREDTHS (254.54) FEET ALONG THE PREMISES REPUTEDLY OF MARSDEN A TOTAL DISTANCE OF THREE HUNDRED AND FORTY HUNDREDTHS (300.40) FEET TO A POINT, SAID CURVE HAVING A CHORD BEARING AND DISTANCE OF SOUTH SIXTY-THREE DEGREES FIFTY-ONE MINUTES SEVENTEEN SECONDS WEST (S 63° 51' 17" W), THREE HUNDRED (300) FEET;

RUNNING THENCE (18) SOUTH FIFTY-EIGHT DEGREES FORTY-FOUR MINUTES SEVENTEEN SECONDS WEST (S 58° 44' 17" W) A DISTANCE OF SEVEN HUNDRED FOUR AND NINE HUNDREDTHS (704.09) FEET TO A POINT;

RUNNING THENCE (19) ON A CURVE TO THE LEFT A DISTANCE OF FOUR HUNDRED SEVENTY-NINE AND TEN HUNDREDTHS (479.10) FEET TO A POINT, SAID CURVE HAVING A CHORD BEARING AND DISTANCE OF SOUTH FIFTY-TWO DEGREES FIFTEEN MINUTES SIX SECONDS WEST (S 52° 15' 06" W) A DISTANCE OF FOUR HUNDRED SEVENTY-EIGHT AND FIVE HUNDREDTHS (478.05) FEET;

RUNNING THENCE (20) SOUTH FORTY-FIVE DEGREES FORTY-SIX MINUTES FIFTY SECOND WEST (S 45° 46' 50" W) A DISTANCE OF ONE THOUSAND TWO HUNDRED FOUR AND SIXTY-ONE HUNDREDTHS (1,204.61) FEET TO A CONCRETE MONUMENT;

RUNNING THENCE (21) ON A CURVE TO THE RIGHT A DISTANCE OF SIX HUNDRED TWENTY-TWO AND EIGHTY-FOUR HUNDREDTHS (622.84) FEET TO A CONCRETE MONUMENT, SAID CURVE HAVING A CHORD BEARING AND DISTANCE OF SOUTH FORTY-EIGHT DEGREES FORTY-EIGHT MINUTES FIFTY-ONE SECOND WEST (S 48° 48' 51" W), SIX HUNDRED TWENTY-TWO AND FIFTY-THREE HUNDREDTHS (622.53) FEET;

RUNNING THENCE (22) ON A CURVE TO THE RIGHT A DISTANCE OF FOUR HUNDRED SEVENTY-ONE AND EIGHTY-NINE HUNDREDTHS (471.89) FEET TO A CONCRETE MONUMENT, SAID CURVE HAVING A CHORD BEARING AND DISTANCE OF SOUTH FIFTY-SIX DEGREES SEVEN MINUTES FOUR SECONDS WEST (S 56° 07' 04" W), FOUR HUNDRED SEVENTY-ONE AND ONE HUNDREDTHS (471.01) FEET;

RUNNING THENCE (23) SOUTH SIXTY DEGREES SEVEN MINUTES THIRTY-SIX SECONDS WEST (S 60° 07' 36" W) ALONG THE LANDS REPUTEDLY OF BORG-WARNER AND BENJAMIN A TOTAL DISTANCE OF SEVEN HUNDRED FORTY-TWO AND NINETY HUNDREDTHS (742.90) FEET TO A CONCRETE MONUMENT;

RUNNING THENCE (24) ON A CURVE TO THE RIGHT AND ALONG THE LANDS REPUTEDLY OF BENJAMIN A DISTANCE OF THREE HUNDRED AND TWENTY-TWO HUNDREDTHS (300.22) FEET TO A CONCRETE MONUMENT, SAID CURVE HAVING A CHORD BEARING AND DISTANCE OF SOUTH SIXTY-FOUR DEGREES SEVENTEEN MINUTES FIFTY-SEVEN SECONDS WEST (S 64° 17' 57" W) TWO HUNDRED NINETY-NINE AND NINETY-SIX HUNDREDTHS (299.96) FEET;

RUNNING THENCE (25) SOUTH SIXTY-SEVEN DEGREES FIFTY-TWO MINUTES FIFTY SECONDS WEST (S 67° 52' 50" W) ALONG THE LANDS REPUTEDLY OF FARRELL, PASSING THROUGH A PIPE AT SEVENTY-THREE AND FORTY-FOUR HUNDREDTHS (73.44) FEET, SAID PIPE BEING NORTH SIXTY-SEVEN DEGREES FIFTY-TWO MINUTES FIFTY SECONDS EAST (N 67° 52' 50" E) TEN (10) FEET FROM THE INTERSECTION OF THE SOUTHERLY RAILROAD RIGHT OF WAY AND THE EASTERLY HIGHWAY LINE OF STONE QUARRY ROAD, A TOTAL DISTANCE OF ONE HUNDRED SEVENTY-THREE AND NINETY-FOUR HUNDREDTHS (173.94) FEET TO THE PRESENT CENTER LINE OF STONE QUARRY ROAD;

RUNNING THENCE (26) NORTHERLY ALONG THE PRESENT CENTER LINE OF STONE QUARRY ROAD THE FOLLOWING COURSES: NORTH FIFTY-FIVE DEGREES FORTY-NINE MINUTES FORTY-TWO SECONDS EAST (N 55° 49' 42" E) SIXTY AND FIFTY-ONE HUNDREDTHS (60.51) FEET; NORTH THIRTY EIGHT DEGREES THREE MINUTES NINETEEN SECOND EAST (N 38° 03' 19" E) FIFTY-TWO AND SIXTY-NINE HUNDREDTHS (52.69) FEET; NORTH THIRTY-THREE DEGREES TWENTY-FIVE MINUTES THIRTY-EIGHT SECONDS EAST (N 33° 25' 38" E) FORTY-THREE AND SIXTY-SIX HUNDREDTHS (43.66) FEET TO THE POINT OR PLACE OF BEGINNING.

ALSO, ALL THAT TRACT OR PARCEL OF LAND SITUATE IN THE CITY OF ITHACA, COUNTY OF TOMPKINS, STATE OF NEW YORK, AND MORE PARTICULARLY BOUNDED AND DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT IN THE WEST LINE OF SOUTH AURORA STREET AT ITS INTERSECTION WITH THE SOUTHERLY LINE OF THE RIGHT OF WAY OF THE FORMER LEHIGH VALLEY RAILROAD, NOW OWNED BY BORG WARNER CORPORATION (SEE LIBER 556 OF DEEDS AT PAGE 1081); THENCE SOUTHERLY ALONG THE WEST LINE OF SOUTH AURORA STREET 152.5 FEET, MORE OR LESS, TO OTHER LANDS OF BORG WARNER CORPORATION; THENCE WESTERLY ALONG A NORTHERLY LINE OF SAID LANDS OF BORG WARNER

CORPORATION 245 FEET, MORE OR LESS, TO THE SOUTHERLY LINE OF SAID RAILROAD RIGHT OF WAY; THENCE NORTHEASTERLY ALONG THE SAID SOUTHERLY LINE OF SAID RAILROAD RIGHT OF WAY TO THE POINT OR PLACE OF BEGINNING.

PARCEL 2

ALL THAT TRACT OR PARCEL OF LAND SITUATE IN THE CITY OF ITHACA, TOMPKINS COUNTY, NEW YORK, SHOWN ON A SURVEY MAP ENTITLED "BOUNDARY AND TOPOGRAPHIC MAP, NATIONAL CASH REGISTER CO. PROPERTY ON SOUTH AURORA ST., CITY OF ITHACA, TOMPKINS CO., N.Y.", BY THOMAS G. MILLER, ENGINEER AND SURVEYOR, ITHACA, NEW YORK, DATED FEBRUARY 7, 1974, REVISED OCTOBER 14, 1976, A COPY OF WHICH WAS FILED IN THE TOMPKINS COUNTY CLERK'S OFFICE ON FEBRUARY 23, 1977 IN ENVELOPE 144, BOUNDED AND DESCRIBED AS FOLLOWS:

BEGINNING AT A PIPE SET IN THE WESTERLY LINE OF SOUTH AURORA STREET (AT THE WESTERLY EDGE OF THE EXISTING CONCRETE SIDEWALK), SAID PIPE BEING A CHORD DISTANCE OF 114.6 FEET SOUTHERLY ALONG THE WEST LINE OF SOUTH AURORA STREET FROM AN IRON PIPE MARKING THE NORTHEAST CORNER OF PREMISES OF BORGWARNER CORPORATION (SAID LAST MENTIONED PIPE ALSO MARKING THE SOUTHEAST CORNER OF PREMISES DEEDED TO SARAH H. MARSDEN AT 285 DEEDS, PAGE 473);

RUNNING THENCE THE FOLLOWING COURSES AND DISTANCES (MERIDIAN 1947):

1. NORTH 83° 02' WEST A DISTANCE OF 190.5 FEET TO AN IRON PIPE;

2. SOUTH 62° 38' WEST A DISTANCE OF 120.2 FEET TO AN IRON PIPE;

3. NORTH 72° 48' WEST A DISTANCE OF 59.6 FEET TO AN IRON PIPE;

4. NORTH 46° 07' WEST A DISTANCE OF 45.0 FEET TO A NAIL SET;

5. SOUTH 47° 00' WEST A DISTANCE OF 99.0 FEET TO A FOUR INCH DIAMETER GALVANIZED IRON GATE POST;

6. SOUTH 38° 55' WEST A DISTANCE OF 172.3 FEET TO AN IRON PIN (SAID IRON PIN BEING 15.5 FEET FROM THE NORTHWESTERLY FACE OF THE NATIONAL CASH REGISTER BUILDING);

7. SOUTH 37° 08' WEST A DISTANCE OF 183.4 FEET TO AN IRON PIPE (SAID PIPE BEING 4.55 FEET FROM THE NORTHWESTERLY FACE OF THE NATIONAL CASH REGISTER BUILDING);

8. SOUTH 04° 00' EAST ALONG THE WESTERLY FACE OF A CONCRETE WALL A DISTANCE OF 70.00 FEET TO A POINT;

9. THENCE ON A CURVE TO THE RIGHT HAVING A CHORD BEARING OF SOUTH 27° 34' WEST A CHORD DISTANCE OF 60 FEET AND MIDDLE ORDINATE DISTANCE OF 6 FEET TO A POINT;

10. SOUTH 38° 30' EAST A DISTANCE OF 95 FEET TO A POINT ON AN EXISTING FENCE LINE;

11. SOUTH 31° 06' EAST IN PART ALONG SAID FENCE LINE A DISTANCE OF 137.4 FEET TO AN IRON PIPE AT THE NORTHWESTERLY CORNER OF A BLOCK WALL, SAID PIPE MARKING THE NORTHWESTERLY CORNER OF PREMISES REPUTEDLY OF RAPONI.

THE ABOVE COURSES AND DISTANCES ALL BEING ALONG THE SOUTHERLY AND EASTERLY BOUNDARY OF LANDS OF BORG-WARNER CORPORATION;

12. SOUTH 73° 35' EAST ALONG THE NORTHERLY LINE OF SAID RAPONI A DISTANCE OF 72.3 FEET TO AN IRON PIN;

13. SOUTH 55° 48' EAST ALONG THE NORTHERLY LINE OF SAID RAPONI A DISTANCE OF 32.0 FEET TO AN IRON PIN AT THE WESTERLY EDGE OF A CONCRETE WALK AND THE WESTERLY LINE OF SOUTH AURORA STREET;

14. NORTH 36° 24' EAST ALONG THE WESTERLY LINE OF SOUTH AURORA STREET A DISTANCE OF 28.0 FEET TO A POINT MARKING THE SOUTHEAST CORNER OF PREMISES OF POKERWINSKI (DEED BOOK 365 AT PAGE 165), SAID POINT BEING 1.4 FEET NORTHWEST OF AN EXISTING IRON PIN;

15. NORTH 64° 44' WEST ALONG THE SOUTHERLY LINE OF SAID POKERWINSKI A DISTANCE OF 101.0 FEET FROM THE SAID WESTERLY
LINE OF SOUTH AURORA STREET TO AN IRON PIPE AT THE SOUTHWESTERLY CORNER OF SAID POKERWINSKI;

16. NORTH 36° 24' EAST ALONG THE NORTHWESTERLY LINE OF PREMISES OF POKERWINSKI, PEARSON, STANLEY, DYER AND HOOVER, A TOTAL DISTANCE OF 413 FEET TO AN IRON FENCE POST AT THE MOST NORTHERLY CORNER OF SAID HOOVER PREMISES;

17. SOUTH 53° 36' EAST ALONG THE NORTHEASTERLY LINE OF HOOVER A DISTANCE OF 100 FEET TO AN IRON PIPE AT THE WEST EDGE OF THE EXISTING CONCRETE WALK AND THE WESTERLY LINE OF SOUTH AURORA STREET;

18. THENCE NORTHWESTERLY ALONG THE WESTERLY LINE OF SOUTH AURORA STREET AS MARKED BY THE WESTERLY EDGE OF THE EXISTING CONCRETE SIDEWALK AS IT CURVES TO THE LEFT A DISTANCE OF 411.6 FEET TO THE POINT OR PLACE OF BEGINNING.

EXCEPTING PREMISES APPROPRIATED BY THE PEOPLE OF THE STATE OF NEW YORK BY APPROPRIATION RECORDED MAY 10, 1966 IN LIBER 462 OF DEEDS, PAGE 564.

Schedule B

NCR Sewer Line Area

(see attached)

RICHARD M. RYBINSKI, L.S.
8236 Indian Hill Road, ~ Manlius, NY 13104
Phone (315)682-4852 ~ Fax (315)682-4852 ~ Email rmrls@twcny.rr.com

Legal Description:
Emerson Power Transmission Corporation
80 feet NCR AND Ithaca College
Sewer Line Area Easements
Within the Unrestricted Area
Ithaca, NY

80 feet Easement NCR Sewer Line Area
Main Sanitary Sewer Trunk

An 80 feet easement and right of way centered on the existing 20' sanitary sewer right of way recorded in the Tompkins County Clerk's Office in Book of Deeds 395 and Page 489 across and under its premises located on Military Lot 85 in the Town of Ithaca, County of Tompkins and State of New York being a portion of lands of Emerson Power Transmission Corporation recorded in the Tompkins County Clerk's Office in Book of Deeds 2014 and Page 14695 known as the 34.336 acres more or less parcel shown on a map titled ""NCR and Ithaca College Sewer Line Areas through the Unrestricted Lands of Emerson Power Transmission Corp." prepared by Richard M. Rybinski, L.S. dated November 26, 2010 and revised to show the NCR and Ithaca College Sewer Line Areas dated August 23, 2018. A reduced-sized copy of which is attached hereto and made a part hereof.

The centerline of the easement intended to be conveyed herein is more particularly described as follows: beginning at a point on the south line of lands of said Emerson Transmission Corp., said point being S 87°29'58" W and a distance of 30.64' from an iron pipe at the southeast corner of lands of said Emerson, said point also being N 15°32'20" E and a distance of 3.70' from sanitary manhole MH-12 on the lands of South Hill Business Campus, LLC recorded in the Tompkins County Clerk's Office in Book of Deeds 46586 and Page 9001; thence N 15°32'20" E a distance of 964.13' to manhole MH-7; thence N 35°27'06" E a distance of 308.59' to a point on a concrete raceway and a point on the boundary line of the said Unrestricted Area as shown on said map, said point being S 35°27'06" W a distance of 167.42' from manhole MH-6 and is the end point of the said 80 feet easement.

The right of way hereby granted is for a width of 40 feet on each side of the said existing center line of the sanitary sewer right of way with a total width of 80 feet containing 2.260 acres more or less.

Subject to easements, covenants and restrictions of record as the same may now be in force and effect. Bearings are related to NAD83 CNY Zone.

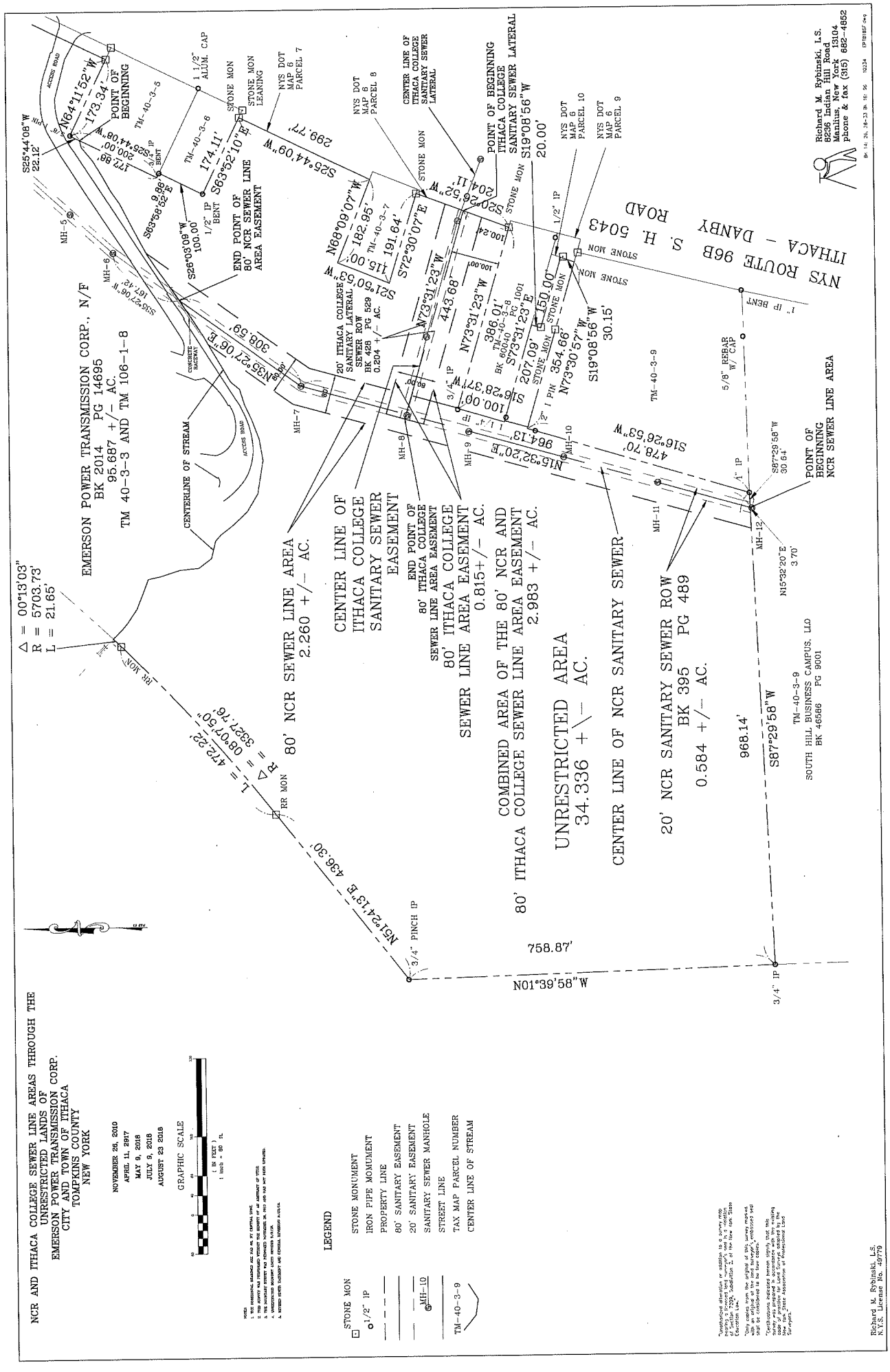
80 Feet Easement Ithaca College Sewer Line Lateral Area
Lateral Sanitary Sewer Trunk

An 80 feet easement and right of way centered on the existing 20' Ithaca College Lateral Sanitary Sewer right of way recorded in the Tompkins County Clerk's Office in Book of Deeds 428 and Page 529 across and under its premises located in the said Unrestricted Area of the said lands of Emerson Power Transmission Corp., the location of such 80 feet Lateral Area easement as shown on a map titled ""NCR and Ithaca College Sewer Line Areas through the Unrestricted Lands of Emerson Power Transmission Corp." prepared by Richard M. Rybinski, L.S. dated November 26, 2010 and revised to show the NCR and Ithaca College Sewer Line Areas dated August 23, 2018. A reduced-sized copy of which is attached hereto and made a part hereof.

The centerline of the easement intended to be conveyed herein is more particularly described as follows: beginning at a point on the northwesterly street line of NYS Route 96B (Ithaca – Danby Road), said point N 20°26'52" E a distance of 100.24' from the southwest corner of New York State Department of Transportation Map No. 6 Parcel 8 and also being a point on the northerly line of Town of Ithaca Tax Map Parcel 40-3-8 as recorded in Tompkins County Clerk's Office in Book 60040 Page 1001 marked by a stone monument; thence N 73°31'23" W parallel with and northerly 100' of the said north line of Tax Map Parcel 4-3-8 a distance of 443.68' through lands of said Emerson Transmission Corporation, now or formerly as recorded in Tompkins County Clerk's Office in Book 2014 Page 14695 to the westerly line of the NCR 20 feet sanitary sewer easement as recorded in Tompkins County Clerk's Office in Book 395 Page 489 and is the end point of the said 80 feet easement.

The right of way hereby granted is for a width of 40 feet on each side of the existing center line of the said sanitary sewer right of way with a total width of 80 feet containing 0.815 acres more or less.

Subject to easements, covenants and restrictions of record as the same may now be in force and effect. Bearings are related to NAD83 CNY Zone.


NCR AND ITHACA COLLEGE SEWER LINE AREAS THROUGH THE UNRESTRICTED LANDS OF EMERSON POWER TRANSMISSION CORP.
CITY AND TOWN OF ITHACA
TOMPKINS COUNTY
NEW YORK
NOVEMBER 25, 2010
APRIL 11, 2017
MAY 9, 2018
JULY 9, 2018
AUGUST 23 2018
GRAPHIC SCALE
(IN FEET)
1 inch = 60 ft.
LEGEND
STONE MON STONE MONUMENT
1/2" IP IRON PIPE MONUMENT
PROPERTY LINE
80' SANITARY EASEMENT
20' SANITARY EASEMENT
MH-10 SANITARY SEWER MANHOLE
STREET LINE
TM-40-3-9 TAX MAP PARCEL NUMBER
CENTER LINE OF STREAM
EMERSON POWER TRANSMISSION CORP., N/F
BK 2014 PG 14695
95.687 +/- AC.
TM 40-3-3 AND TM 106-1-8
POINT OF BEGINNING
TM-40-3-5
TM-40-3-6
TM-40-3-7
TM-40-3-8
TM-40-3-9
1 1/2" ALUM. CAP
STONE MON LEANING
NYS DOT MAP 6 PARCEL 7
NYS DOT MAP 6 PARCEL 8
NYS DOT MAP 6 PARCEL 10
NYS DOT MAP 6 PARCEL 9
CENTER LINE OF ITHACA COLLEGE SANITARY SEWER LATERAL
POINT OF BEGINNING ITHACA COLLEGE SANITARY SEWER LATERAL
END POINT OF 80' NCR SEWER LINE AREA EASEMENT
20' ITHACA COLLEGE SANITARY LATERAL SEWER ROW BK 2014 PG 529 0.204 +/- AC.
CENTERLINE OF STREAM
CONCRETE HEADWALL
ACCESS ROAD
RR MON
3/4" PINCH IP
3/4" IP BENT
1" IP BENT
1/2" IP
5/8" REBAR W/ CAP
3/4" IP
1" PIN
MH-5
MH-6
MH-7
MH-8
MH-9
MH-10
MH-11
MH-12
80' NCR SEWER LINE AREA 2.260 +/- AC.
CENTER LINE OF ITHACA COLLEGE SANITARY SEWER EASEMENT
END POINT OF 80' ITHACA COLLEGE SEWER LINE AREA EASEMENT
80' ITHACA COLLEGE SEWER LINE AREA EASEMENT 0.815+/- AC.
COMBINED AREA OF THE 80' NCR AND 80' ITHACA COLLEGE SEWER LINE AREA EASEMENT 2.983 +/- AC.
UNRESTRICTED AREA 34.336 +/- AC.
CENTER LINE OF NCR SANITARY SEWER
20' NCR SANITARY SEWER ROW BK 395 PG 489 0.584 +/- AC.
SOUTH HILL BUSINESS CAMPUS, LLC BK 46566 PG 9001
POINT OF BEGINNING NCR SEWER LINE AREA
NYS ROUTE 96B S. H. 5043 ITHACA - DANBY ROAD
Δ = 00°13'03"
R = 5703.73'
L = 21.65'
L = 472.22'
R = 3527.76'
Δ = 08°07'50"
N64°11'52"W 173.34'
S25°44'08"W 22.12'
S63°58'52"E 9.88'
S26°03'09"W 100.00'
S26°44'09"W 299.77'
N68°10'40"W 182.95'
S21°50'53"W 116.00'
S72°30'07"E 191.64'
S20°26'52"W 204.11'
S19°08'56"W 30.15'
S19°08'56"W 150.00'
S73°31'23"E 207.09'
N73°31'23"W 443.68'
N73°31'23"W 386.01'
N73°30'57"W 354.66'
S16°28'37"W 100.00'
N16°32'20"E 964.13'
S16°26'53"W 478.70'
S87°29'58"W 30.64'
N15°32'20"E 3.70'
S87°29'58"W 968.14'
N01°39'58"W 758.87'
N51°24'13"E 436.30'
S63°52'10"E 174.11'
S36°27'06"E 308.59'
N36°27'06"W 161.42'
Richard M. Rybinski, L.S.
8236 Indian Hill Road
Manlius, New York 13104
phone & fax (315) 682-4652
Richard M. Rybinski, L.S.
N.Y.S. License No. 49779

APPENDIX

D ANNUAL SITE-WIDE INSPECTION FORMS

ANNUAL SITE-WIDE INSPECTION FORM

Site Name:	Former Emerson Power Transmission Facility	**Site No.:**	755010		
Address	620 South Aurora Street	**City:**	Ithaca		
County:	Tompkins	**State:**	NY	**Zip:**	14850

Inspector's Contact Information

Name:	David Rykaczewski	**Affiliation:**	WSP				
E-mail	dave.rykaczewski@wsp.com	**Phone:**	412-375-0282				
Address:	11 Stanwix St., Suite 950	**City:**	Pittsburgh	**State:**	PA	**Zip:**	15222

Inspection Information

Type: ☒ Site-Wide Inspection (routine) ☐ Non-routine/Emergency

Date:	April 11, 2023	**Arrival Time:**	08:00	**Departure Time:**	15:30
Weather:	Sunny, low 55 / high 70				

Event Description (if non-routine or emergency):

First post-COVID annual inspection conducted in April 2023 to cover the reporting period from October 7 through December 31, 2022.

SECTION 1 – INSTITUTIONAL CONTROLS

Institutional Controls (ICs) in the Record of Decision Amendment (AROD) and Interim Site Management Plan (SMP) include:

- The property may be used for: restricted residential; commercial, and/or industrial uses as shown on Figure 10 of the Interim SMP
- All Engineering Controls (ECs) must be operated and maintained as specified in this Interim SMP;
- All ECs must be inspected at a frequency and in a manner defined in the Interim SMP;
- The use of groundwater underlying the property is restricted as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH or the Tompkins County Department of Health;
- Groundwater and other environmental or public health monitoring must be performed as defined in this Interim SMP;
- Data and information pertinent to site management must be reported at the frequency and in a manner as defined in this Interim SMP;
- All future activities that will disturb remaining contaminated material must be conducted in accordance with this Interim SMP;
- Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in this Interim SMP;
- Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical component of the remedy shall be performed as defined in this Interim SMP;
- Access to the Site must be provided to agents, employees or other representatives of the State of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified by the Environmental Easement;
- The potential for soil vapor intrusion (SVI) must be evaluated for any occupied buildings, existing or new, within the IC boundaries noted on Figure 8 of the Interim SMP, and any potential impacts that are identified must be monitored or mitigated;
- Vegetable gardens shall be performed in raised beds following approval of the NYSDEC. Farming on the Site is prohibited, unless indoors such as a hydroponic growing operation;
- Should a building foundation or building slab be removed in the future, a cover system will be placed in any areas where the upper two feet of exposed surface soil exceed the applicable SCOs in the restricted residential area of the Site, and the upper 1 foot of exposed soil exceeds the applicable SCO in the commercial and industrial areas of the Site;

ANNUAL SITE-WIDE INSPECTION FORM

- Complete and submit to the NYSDEC a periodic certification of institutional and engineering controls in accordance with Part 375-1.8 (h)(3); and
- An evaluation shall be performed to determine the need for further investigation and remediation should large scale redevelopment occur, if any of the existing structures are demolished, or if the subsurface is otherwise made accessible. If new areas of contamination are identified after demolition of existing structures and/or removal of building slabs, the nature and extent of contamination in such areas where access was previously limited or unavailable will be immediately and thoroughly investigated pursuant to either an amended Excavation Work Plan or another NYSDEC-approved work plan. Citizen Participation Plan activities will continue, as necessary, through this process. Any required remediation will be completed prior to or in association with redevelopment.

1. Is the property being used for purposes other than those allowed and where boundaries have been established? Yes ☐ No ☒
2. Are all engineering controls (see next section) in operation and maintained? Yes ☒ No ☐
3. Is the Site groundwater being used for any purpose other than remediation and monitoring? Yes ☐ No ☒
4. Are restricted vegetable gardens or other farm activities present? Yes ☐ No ☒
5. Is there evidence of building demolition, slab removal, soil excavation, or other land disturbance at the Site that were not addressed in accordance with the Interim SMP Appendix F - Excavation Work Plan? Yes ☐ No ☒
6. Is there occupancy of existing buildings or new buildings constructed within the IC boundaries that were not evaluated for soil vapor intrusion and mitigation? Yes ☐ No ☒

If the answer to any of the above questions is yes, notify NYSDEC immediately and describe below:

SECTION 2 – ENGINEERING CONTROLS

A. Cap and Cover System

a. Describe the general condition of the cap and cover system at the facility (See Interim SMP for locations of cap and cover system).

AOC 1 cap is performing as designed – no evidence of cracks in asphalt or openings in joints at the perimeter of the cap or at monitoring well surface mounts. Asphalt cover is in place at AOCs 28, 32, 34 Riprap/Gravel cover is in place at AOCs 27, 28 (lower), 29, 32 (ditches), 35C, 35G Soil cover and surface vegetation is in place at AOCs 28 (upper), 30, 31, 32, 34, 35A, 35D, 35H, 35K, 35L

b. Were there any excavations or breaches of the cap and cover system during the reporting period? Yes ☐ No ☒

i. If yes, please describe the excavation or breach :

ii. Date of excavation or breach : _____/_____/_____

iii. Was the NYSDEC notified? Yes ☐ No ☐

c. Is there any damage to the cap and cover system that could compromise its effectiveness? Yes ☐ No ☒

i. If yes, please describe

d. Were any openings or repair(s) made to the cap and cover system during the reporting period? Yes ☐ No ☒

i. If yes, please describe the openings/repair

ii. Was the NYSDEC notified? Yes ☐ No ☐

e. Are there any visible cracks, fissures, erosion or other damage to the cap and cover system that could compromise its effectiveness? Yes ☐ No ☒

i. If yes, please describe

B. Dual Phase Extraction and Treatment System

a. Describe the general condition of the dual phase extraction and treatment system.

System was operating and appeared to be good condition during the inspection

b. Is the dual phase extraction and treatment system performing as designed and does it continue to be protective of human health and the environment? Yes ☒ No ☐

i. If no, please describe the deviation (s) :

c. Is the dual phase extraction and treatment system being operated, maintained, and monitored in accordance with the Interim SMP? Yes ☒ No ☐

i. If no, please describe deviation(s):

d. Is all paperwork associated with operation of the dual phase extraction and treatment system up to date?

Yes ☒ No ☐

i. If no, please describe deviation(s):

C. Petroleum (NAPL) Recovery [Reserved – to be developed when petroleum recovery system installed]

D. Sub-slab Depressurization System [Reserved – to be developed when sub-slab depressurization system installed]

E. Re-route and Monitor Groundwater Seeps [Reserved – to be developed when re-route system installed]

SUMMARY OF GREEN REMEDIATION METRICS FOR SITE MANAGEMENT

Site Name:	Former Emerson Power Transmission Facility	**Site No.:**	755010		
Address	620 South Aurora Street	**City:**	Ithaca		
County:	Tompkins	**State:**	NY	**Zip:**	14850

Initial Report Period (Start Date of Period Covered by the Initial Report Submittal)

Start Date:	October 7, 2022	**To:**	December 31, 2022

Current Reporting Period

Period From:	October 7, 2022	**To:**	December 31, 2022

Preparer's Contact Information

Name:	David Rykaczewski	**Affiliation:**	WSP				
E-mail:	dave.rykaczewski@wsp.com	**Phone:**	412-375-0282				
Address:	11 Stanwix St., Suite 950	**City:**	Pittsburgh	**State:**	PA	**Zip:**	15222

I. Energy Usage: Quantify the amount of energy used directly on-site and the portion of that derived from renewable energy sources.

	Current Reporting Period	**Total to Date**
Fuel Type 1 (e.g. natural gas (cf))	0	0
Fuel Type 2 (e.g. fuel oil, propane (gals))	0	0
Electricity (kWh)	46,131	46,131
Of that Electric usage, provide quantity:		
Derived from renewable sources (e.g. solar, wind)	0	0
Other energy sources (e.g. geothermal, solar thermal (Btu))	0	0

Provide a description of all energy usage reduction programs for the site in the space provided on Page 3.

II. Solid Waste Generation: Quantify the management of solid waste generated on-site.

	Current Reporting Period (tons)	**Total to Date (tons)**
Total waste generated on-site		
OM&M generated waste	0.0175	0.0175
Of that total amount, provide quantity:		
Transported off-site to landfills	0.0175	0.0175
Transported off-site to other disposal facilities	0	0
Transported off-site for recycling/reuse	0	0
Reused on-site	0	0

Provide a description of any implemented waste reduction programs for the site in the space provided on Page 3.

SUMMARY OF GREEN REMEDIATION METRICS FOR SITE MANAGEMENT

III. Transportation/Shipping: Quantify the distances travelled for delivery of supplies, shipping of laboratory samples, and the removal of waste.

	Current Reporting Period (miles)	**Total to Date (miles)**
Standby Engineer/Contractor	180	180
Laboratory Courier/Delivery Service	0	0
Waste Removal/Hauling	635	635

Provide a description of all mileage reduction programs for the site in the space provided on Page 3. Include specifically any local vendor/services utilized that are within 50 miles of the site.

IV. Water Usage: Quantify the volume of water used on-site from various sources.

	Current Reporting Period (gal)	**Total to Date (gal)**
Total quantity of water used on-site	32,111	32,111
Of that total amount, provide quantity:		
Public potable water supply usage	500	500
Surface water usage	0	0
On-site groundwater usage (extracted groundwater for treatment)	31,611	31,611
Collected or diverted storm water usage (treated water discharge)	32,111	32,111

Provide a description of any implemented water consumption reduction programs for the site in the space provided on Page 3.

V. Land Use and Ecosystems: Quantify the amount of land and/or ecosystems disturbed and the area of land and/or ecosystems restored to a pre-development condition (i.e. Green Infrastructure).

	Current Reporting Period (acres)	**Total to Date (acres)**
Land disturbed	0	0
Land restored	0	0

Provide a description of any implemented land restoration/green infrastructure programs for the site in the space provided on Page 3.

SUMMARY OF GREEN REMEDIATION METRICS FOR SITE MANAGEMENT

Description of green remediation programs reported above (Attach additional sheets if needed)
Energy Usage: None
Waste Generation: None
Transportation/Shipping: None
Water usage: None
Land Use and Ecosystems: None
Other: None

CERTIFICATION BY CONTRACTOR
I, David Rykaczewski (Name), do hereby certify that I am a Professional Engineer (Title) of WSP USA Inc. (Contractor Name), which is responsible for the work documented on this form. According to my knowledge and belief, all of the information provided in this form is accurate and the site management program complies with the DER-10, DER-31, and CP-49 policies. 6/5/2023 _____ **Date** **Contractor**

APPENDIX

E SPDES PERMIT EQUIVALENT

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Division of Water, Bureau of Water Permits
625 Broadway, Albany, New York 12233
www.dec.ny.gov

Emerson Electric Co.

Project Site Remediation
Wastewater Discharge SPDES Permit Equivalent

DRAINAGE BASIN: **07 / 05**

DER Site No: 7-55-010
Effective Date: **August 1, 2022**
Expiration Date: **July 31, 2027**

Discharger Name and Address:

Emerson Electric Co.
ATTN: Steve Clarke
8000 W. Florissant Ave, Station 1963
(314) 553 1953
Contact Email Address: steve.clarke@emerson.com

is authorized to discharge from the facility described below:

Emerson Electric Co.
620 South Aurora St.
Ithaca, NY 14850

From the following outfall(s):

Outfall No.	Outfall Description	Location	Receiving Water	WIN *	Class
01A	Treated Remediation Wastewater	42°25'57.18"N 76°29'53.95"W	Tributary of Cayuga Lake	0-66-12-P296-75-6	C
001	Stormwater, Ground water seepage and treated remedial wastewater	42°25'56.03"N 76°29'54.85"W	Tributary of Cayuga Lake	0-66-12-P296-75-6	C
009	Stormwater and Groundwater Seepage	42°25'51.67"N 76°29'59.86"W	Tributary of Cayuga Lake	0-66-12-P296-75-6	C
011	Groundwater seepage	42°25'56.46"N 76°29'55.25"W	Tributary of Cayuga Lake	0-66-12-P296-75-6	C

* Water Index Number

The discharges from the treatment facility shall be limited and monitored by the operator as specified below:

Outfall No. and Parameter	CAS No.	Discharge Limitations		Units	Minimum Monitoring Requirements		FN
		Monthly Avg.	Daily Max		Measurement Frequency	Sample Type	
Outfall 01A - Treated Remediation Discharge							
Flow		Monitor	Monitor	GPD	Monthly	Totalizer	
pH (range)	NA	6.5 – 8.5		SU	Monthly	Grab	
Temperature	NA		Monitor	°F	Monthly	Grab	
Tetrachloroethylene	00127-18-4		0.001	mg/l	Monthly	Grab	
Trichloroethylene	-		0.01	mg/l	Monthly	Grab	
Sum of Dichlorobenzenes	-		0.01	mg/l	Monthly	Grab	
Bromoform	00075-25-2		0.01	mg/l	Monthly	Grab	
Chlorobenzene	00108-90-7		0.005	mg/l	Monthly	Grab	
Chlorodibromomethane	00124-48-1		0.01	mg/l	Monthly	Grab	
Chloroform	00067-66-3		0.01	mg/l	Monthly	Grab	
Cyanide, Free	-	5.2	22	ug/l	Monthly	Grab	1
Dichlorobromomethane	00075-27-4		0.01	mg/l	Monthly	Grab	

1,1 Dichloroethane	00075-34-3		0.01	mg/l	Monthly	Grab	
1,1 – Dichloroethylene	00075-35-4		0.01	mg/l	Monthly	Grab	
Methylene Chloride	00065-09-2		0.01	mg/l	Monthly	Grab	
1,1,2,2- Tetrachloroethane	00079-34-5		0.01	mg/l	Monthly	Grab	
Toluene	00108-88-3		0.05	mg/l	Monthly	Grab	
1,2-(trans)-Dichloroethylene	00156-60-5		0.01	mg/l	Monthly	Grab	
1.2-(cis)-Dichloroethylene	00156-59-2		0.01	mg/l	Monthly	Grab	
1,1,1-Trichloroethane	00071-55-6		0.01	mg/l	Monthly	Grab	
Xylenes, Total	00095-47-6 00108-38-3 00106-42-3		0.01	mg/l	Monthly	Grab	
Vinyl Chloride	00075-01-4		0.01	mg/l	Monthly	Grab	
Benzene	00071-43-2		0.001	mg/l	Monthly	Grab	

Outfall No. and Parameter	CAS No.	Discharge Limitations		Units	Minimum Monitoring Requirements		FN
		Monthly Avg.	Daily Max		Measurement Frequency	Sample Type	
Outfall 001 - Stormwater, Groundwater Seepage and Treated Groundwater							
Flow	NA		Monitor	GPD	Monthly	Estimate	
pH (range)	NA	6.5 – 8.5		SU	Monthly	Grab	
Total Barium	07440-39-3		Monitor	mg/l	Quarterly	Grab	
Total Lead	07439-92-1		7.4	ug/l	Monthly	Grab	
Mercury	07439-97-6		Monitor	ng/l	Quarterly	Grab	2
Tetrachloroethylene	00127-18-4		0.001	mg/l	Monthly	Grab	
Trichloroethylene	-		0.01	mg/l	Monthly	Grab	
Cyanide, Free		5.2	22	ug/l	Quarterly	Grab	1

Outfall No. and Parameter	CAS No.	Discharge Limitations		Units	Minimum Monitoring Requirements		FN
		Monthly Avg.	Daily Max		Measurement Frequency	Sample Type	
Outfall 009 – Stormwater and Groundwater Seepage							
Cyanide, Free	-	5.2	22	ug/l	Quarterly	Grab	1

Footnotes: (see on the next page)

1: Free Cyanide is the sum of HCN and CN, expressed as CN. The WQBEL of 5.2 ug/l Monthly Average and 22 ug/l Daily Max for Cyanide will become effective on August 1, 2025. An interim limit of Monitor Only shall apply from August 1, 2022, until July 31, 2025.

2. Mercury shall be analyzed using USEPA Method 1631

Schedule of Compliance for Cyanide: The permittee shall comply with the following schedule:

Outfall No.	Parameters	Compliance Action	Due Date
009	Cyanide	The permittee shall monitor for Free Cyanide at the frequency specified in the effluent limit tables.	August 1, 2022
		Following 2 years of monitoring, permittee shall submit a report summarizing free Cyanide trends and if the final effluent limits are exceeded, measures to be taken to meet final limits and a schedule to be made enforceable under this permit equivalent. The schedule to address free cyanide exceedances shall not exceed 18 months.	September 30, 2024
		The facility shall meet effluent discharge limitations for Cyanide.	November 1, 2025
011	Cyanide	The discharge from Outfall 011 shall be sampled for Free Cyanide. A sample shall be collected during the first discharge of each month from Outfall 011 until three (3) samples have been collected.	March 1, 2023
		Sampling results shall be submitted to the DER project engineer.	

Additional Conditions:

1. Discharge is not authorized until such time as an engineering submission showing the method

of treatment is approved by the Department. The discharge rate may not exceed the effective or design treatment system capacity. A summary of the monthly monitoring data shall be submitted to the Department twenty-eight (28) days following the end of each monthly monitoring period. All monitoring data, engineering submissions and modification requests must be submitted to:

Karen A Cahill
Division of Environmental Remediation
NYSDEC R7
615 Erie Blvd West
Syracuse, NY 13204-2400
Tel: 315-426-7432
Email: karen.cahill@dec.ny.gov

2. Samples and measurements, to comply with the monitoring requirements specified above, must be taken from the effluent side of the final treatment unit prior to discharge to the receiving water body unless otherwise noted above.

3. Monitoring and analysis shall be conducted using sufficiently sensitive test procedures approved under 40 CFR Part 136 unless other test procedures have been specified in this permit equivalent.

4. Only site generated wastewater is authorized for treatment and discharge.

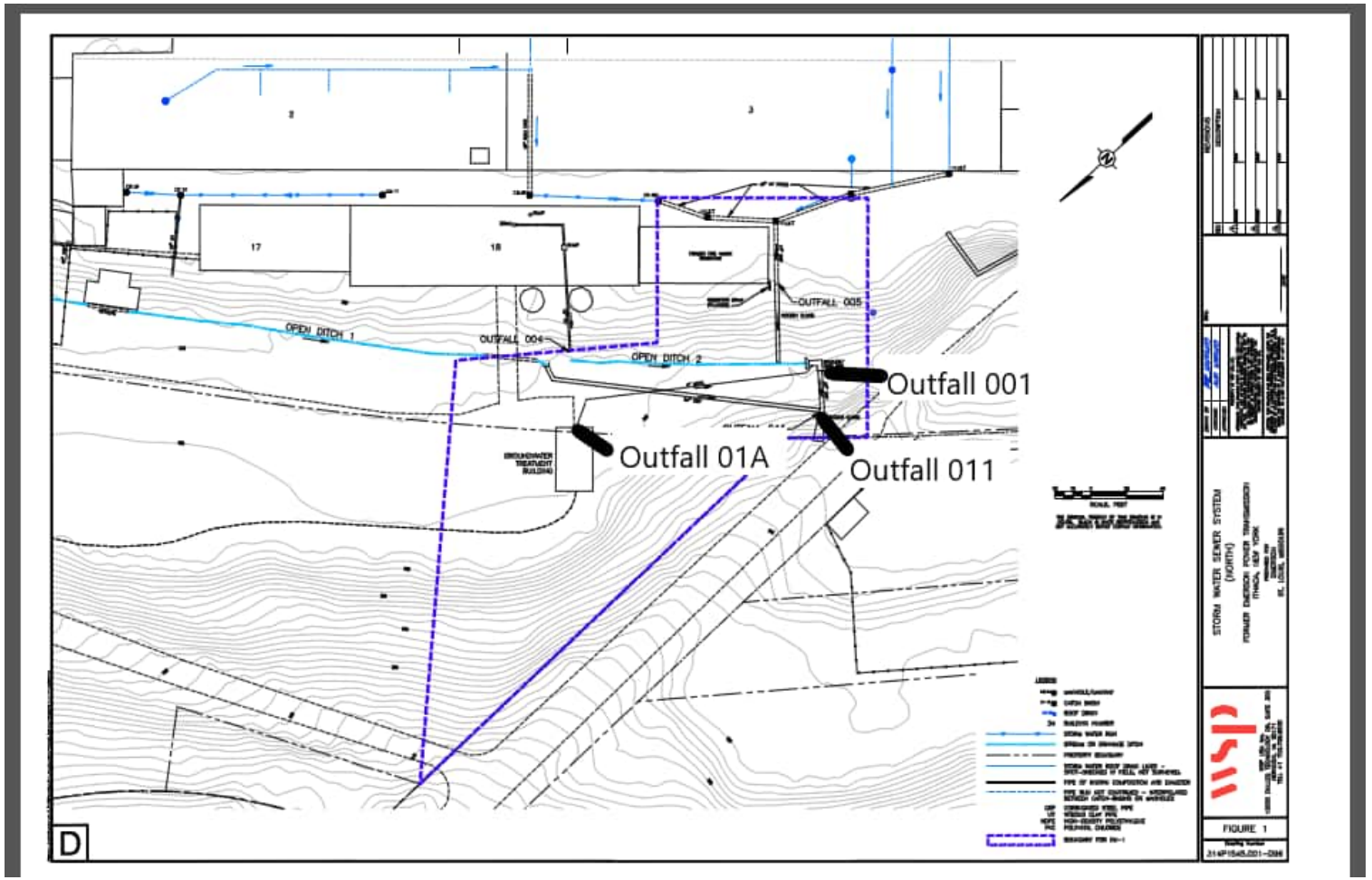
5. Authorization to discharge is valid only for the period noted above but may be renewed if appropriate. A request for renewal must be received 6 months prior to the expiration date to allow for a review of monitoring data and reassessment of monitoring requirements.

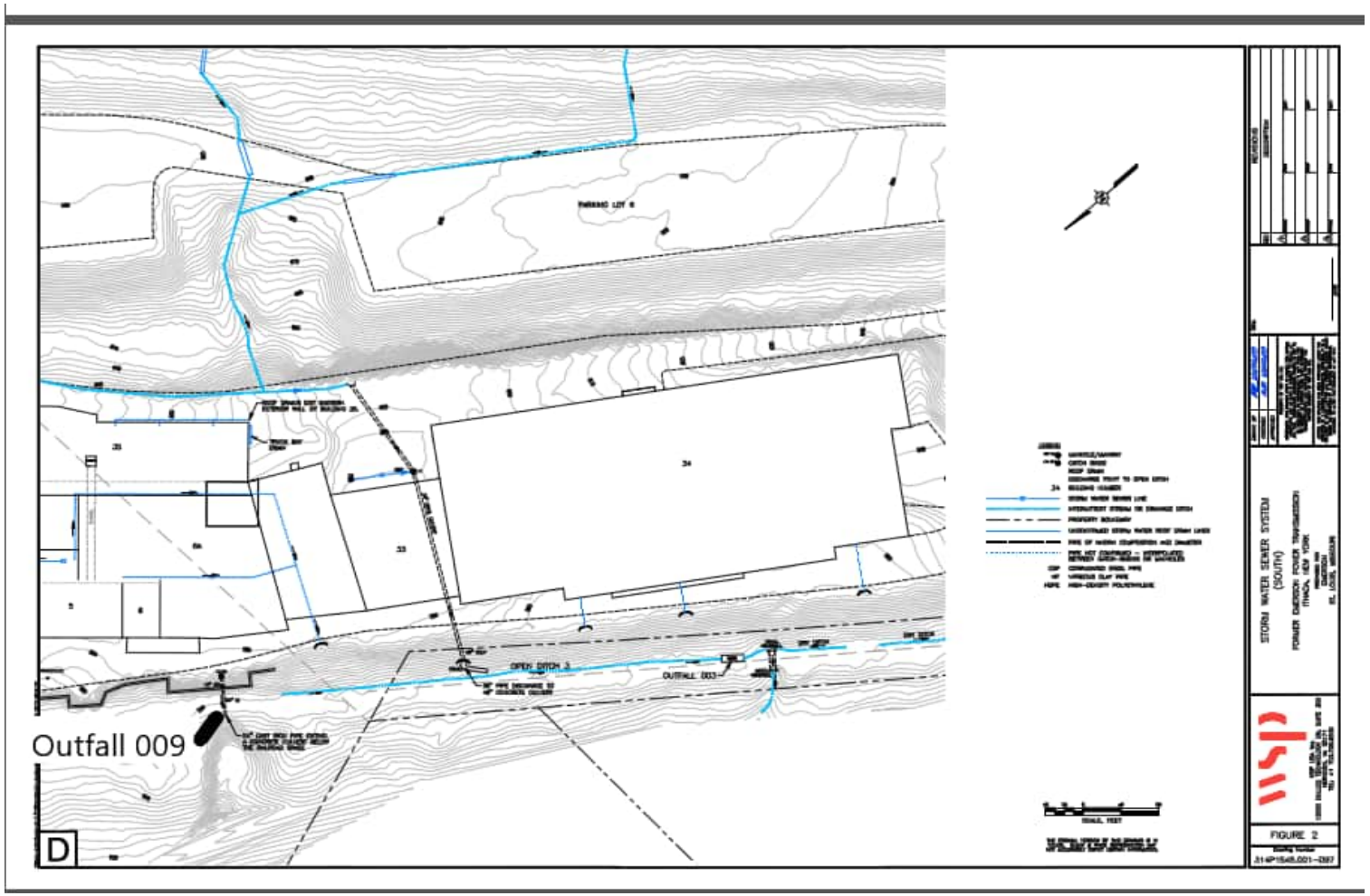
6. Any use of corrosion/scale inhibitors, biocidal-type compounds, or other water treatment chemicals used in the treatment process must be approved by the department prior to use.

7. This discharge and administration of this discharge must comply with the substantive requirements of 6NYCRR Part 750.

MONITORING LOCATIONS:

Outfall 001 and 01A




Outfall 009
D
STORM WATER SEWER SYSTEM (SOUTH)
FIGURE 2

APPENDIX

F WASTE DISPOSAL DOCUMENTATION

Land Disposal Restriction Notification Form

Printed Date :Nov 14, 2022

MANIFEST INFORMATION

Generator : Emersub 15 LLC

Address: 620 South Aurora Street
Ithaca,NY 14850

EPA ID#: NYD002228625

Manifest Tracking Info.

017218491FLE

Sales Order No: 2201532012

LINE ITEM INFORMATION

Line Item:	Page No:	Profile No:	Treatability Group:	LDR Disposal Category
1.	1	CH500303	NON-WASTEWATER	2 (This is subject to LDR.)

EPA Waste Code	EPA Waste SubCategory
D040 F001	NONE

LDR Chemical Data

Chemical	Underlying Hazardous Constituents	Constituents of Concern	Contaminants Subject to Treatment
TRICHLOROETHYLENE	Y	Y	N

Certification

	Applies to Manifest Line Items
Pursuant to 40 CFR 268.7(a), I hereby notify that this shipment contains waste restricted under 40 CFR Part 268.	1.

Waste analysis data, where available, is attached.

Signature : _____ Print Name : NATHANIEL WINSTEN

Title : Geologist Date : 11/16/22

Land Disposal Restriction Notification Form

Printed Date :Nov 14, 2022

MANIFEST INFORMATION

Generator : Emersub 15 LLC

Address: 620 South Aurora Street
Ithaca,NY 14850

EPA ID #: NYD002228625

Manifest Tracking Info.

017218491FLE

Sales Order No: 2201532012

LINE ITEM INFORMATION

Line Item:	Page No:	Profile No:	Treatability Group:	LDR Disposal Category
1.	1	CH5000303	NON-WASTEWATER	2 (This is subject to LDR.)

EPA Waste Code	EPA Waste SubCategory
D040 F001	NONE

LDR Chemical Data

Chemical	Underlying Hazardous Constituents	Constituents of Concern	Contaminants Subject to Treatment
TRICHLOROETHYLENE	Y	Y	N

Certification	Applies to Manifest Line Items
Pursuant to 40 CFR 268.7(a), I hereby notify that this shipment contains waste restricted under 40 CFR Part 268.	1.

Waste analysis data, where available, is attached.

Signature : _____ Print Name NATHANIEL L. JUSTEN

Title : Geologist Date : 11/16/22

Generator acknowledges that no material change has occurred either in the characteristics or in the process generating the material.

Please print or type. Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
NYD002228625	1	(800) 483-3718	017218491 FLE

GENERATOR

5. Generator's Name and Mailing Address
Emersub 15 LLC
620 South Aurora Street 7000 East Genesse Street Bld D 2nd F
Ithaca, NY 14850
Generator's Phone: (716) 866-1623 ATTN:Daniel Liwicki

Generator's Site Address (if different than mailing address)
620 South Aurora Street
Ithaca, NY 14850

6. Transporter 1 Company Name
Clean Harbors Environmental Services, Inc.

U.S. EPA ID Number
MAD039322250

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
Safety-Kleen Systems, Inc.
3700 LaGrange Road
Smithfield, KY 40068
Facility's Phone: (502) 845-2453

U.S. EPA ID Number
KYD053348108

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ, NA3077, HAZARDOUS WASTE, SOLID, N.O.S., (TRICHLOROETHENE), 9, PG III (F001)	01	DM	35	P	D040 F001
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1.CH500303 ERG#171 1x55

Contract retained by generator confers agency authority on initial transporter to add or substitute additional transporters on generator's behalf for purposes of transportation efficiency convenience or safety

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: ON BEHALF OF EMERSUB15, LLC Nathaniel Winston
Signature
Month 11 Day 16 Year 22

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Kyle McVey
Signature
Month 11 Day 16 Year 22

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H061			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name
Signature
Month Day Year

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete.

Clean Harbors has the appropriate permits for and will accept the waste the generator is shipping.

DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

72 2201532012 PPW

Clearwaters
ENVIRONMENTAL SERVICES

Land Disposal Restriction Notification Form

Printed Date :Nov 14, 2022

MANIFEST INFORMATION

Generator : Emersub 15 LLC

Address: 620 South Aurora Street
Ithaca,NY 14850

EPA ID #: NYD002228625

Manifest Tracking Info.

017218491FLE

Sales Order No: 2201532012

LINE ITEM INFORMATION

Line Item:	Page No:	Profile No:	Treatability Group:	LDR Disposal Category
1.	1	CH5000303	NON-WASTEWATER	2 (This is subject to LDR.)

EPA Waste Code	EPA Waste SubCategory
D040 F001	NONE

LDR Chemical Data

Chemical	Underlying Hazardous Constituents	Constituents of Concern	Contaminants Subject to Treatment
TRICHLOROETHYLENE	Y	Y	N

Certification	Applies to Manifest Line Items
Pursuant to 40 CFR 268.7(a), I hereby notify that this shipment contains waste restricted under 40 CFR Part 268.	1.

Waste analysis data, where available, is attached.

Signature : _____ Print Name Nathaniel L. Justen

Title : Geologist Date : 11/16/22

APPENDIX

G INSTITUTIONAL AND ENGINEERING CONTROLS CERTIFICATION FORM

INSTITUTIONAL AND ENGINEERING CONTROLS CERTIFICATION FORM
FORMER EMERSON POWER TRANSMISSION
SITE NO. 7-55-010
TOMPKINS COUNTY, ITHACA, NEW YORK
OCTOBER 7 THROUGH DECEMBER 31, 2022

I, David Alan Rykaczewski, certify that I am currently a New York State registered professional engineer as defined in 6 NYCRR Part 375 and that all of the following statements are true:

- This Periodic Review Report and all attachments were prepared under my direction on behalf of Emerson Electric Co. and are accurate and complete.
- To the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program and generally accepted engineering practices.
- The institutional and engineering control described in the Periodic Review Report and Site Inspection Form are unchanged from the date that the Interim Site Management Plan was submitted.
- Nothing has occurred that would impair the ability of the institutional and engineering controls to protect public health and the environment.
- Nothing has occurred that would constitute a violation or failure to comply with the Interim Site Management Plan for these controls.
- Access to the site will continue to be provided to the NYSDEC and NYSDOH to evaluate the remedy, including access to evaluate the continued maintenance of the controls.



6/5/2023

David Alan Rykaczewski, P.E.
Assistant Vice President
New York State P.E. No. 099287

Date

WSP USA Inc.
11 Stanwix Street, Suite 950
Pittsburgh, Pennsylvania 15222

APPENDIX

H LABORATORY ANALYTICAL REPORTS

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

WSP USA Environment & Infrastructure Inc

EPT, Ithaca, NY

31405608.00102LBR

SGS Job Number: JD54302

Sampling Date: 10/24/22



Report to:

WSP
13530 DULLES TECHNOLOGY DRIVE Suite 300
Herndon, VA 20171
Nathaniel.Winston@wsp.com; jeffrey.baker@wsp.com

ATTN: Nathaniel Winston

Total number of pages in report: 251

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

David Chastain
General Manager

Client Service contact: Tammy McCloskey 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA(68-00408), RI, SC, TX, UT, VA, WV

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Test results relate only to samples analyzed.

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Unauthorized modification of this report is strictly prohibited.
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Please share your ideas about
how we can serve you better at:
EHS.US.CustomerCare@sgs.com

Sections: 1 2 3 4 5 6 7

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SGS North America Inc.

Sample Summary

WSP USA Environment & Infrastructure Inc

Job No: JD54302

EPT, Ithaca, NY
Project No: 31405608.00102LBR

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
This report contains results reported as ND = Not detected. The following applies: Organics ND = Not detected above the MDL							
JD54302-1	10/24/22	11:15	NW	10/25/22	AQ	Ground Water	WPOST GAC
JD54302-2	10/24/22	11:20	NW	10/25/22	AQ	Ground Water	WMID GAC
JD54302-3	10/24/22	11:25	NW	10/25/22	AQ	Ground Water	WAS
JD54302-4	10/24/22	11:30	NW	10/25/22	AQ	Influent	WINF
JD54302-5	10/24/22	11:30	NW	10/25/22	AQ	Trip Blank Water	TRIP BLANK

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	WSP USA Environment & Infrastructure Inc	**Job No**	JD54302
Site:	EPT, Ithaca, NY	**Report Date**	11/2/2022 5:02:46 PM

On 10/25/2022, 4 Sample(s), 1 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of 3.1 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JD54302 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

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

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

MS Volatiles By Method SW846 8260D

Matrix: AQ **Batch ID:** V2A9619

- All samples were analyzed within the recommended method holding time.
- Sample(s) JD54302-4MS, JD54302-4MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike Recovery(s) for cis-1,2-Dichloroethene, Trichloroethene are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for cis-1,2-Dichloroethene, Trichloroethene are outside control limits. Outside control limits due to matrix interference.
- JD54302-5 for Vinyl chloride: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD54302-5 for Methylcyclohexane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD54302-5 for Methyl Acetate: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD54302-5 for Chloromethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD54302-5 for Carbon disulfide: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD54302-1 for 2-Butanone (MEK): Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD54302-5 for 2-Butanone (MEK): Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD54302-1 for Acetone: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD54302-5 for 1,2-Dichloroethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD54302-5 for Acetone: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD54302-1 for Carbon disulfide: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD54302-1 for Chloromethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD54302-1 for Methyl Acetate: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD54302-1 for Methylcyclohexane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD54302-1 for Vinyl chloride: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

MS Volatiles By Method SW846 8260D

Matrix: AQ **Batch ID:** V2A9619

- JD54302-1 for 1,2-Dichloroethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

Matrix: AQ **Batch ID:** VL10552

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD54108-4MS, JD54108-4MSD were used as the QC samples indicated.
- JD54302-2 for Acetone: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD54302-3 for Acetone: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD54302-4 for Cyclohexane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD54302-3 for Dichlorodifluoromethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD54302-4 for Acetone: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD54302-4 for Bromomethane: Associated CCV outside of control limits high, sample was ND.
- JD54302-2 for Cyclohexane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD54302-2 for Dichlorodifluoromethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD54302-3 for Bromomethane: Associated CCV outside of control limits high, sample was ND.
- JD54302-2 for Bromomethane: Associated CCV outside of control limits high, sample was ND.
- JD54302-3 for Cyclohexane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD54302-4 for Dichlorodifluoromethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

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

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

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

Summary of Hits

Job Number: JD54302
Account: WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY
Collected: 10/24/22

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD54302-1	**WPOST GAC**					
cis-1,2-Dichloroethene		3.0	1.0	0.51	ug/l	SW846 8260D
JD54302-2	**WMID GAC**					
Chloroform		0.56 J	1.0	0.50	ug/l	SW846 8260D
cis-1,2-Dichloroethene		8.1	1.0	0.51	ug/l	SW846 8260D
JD54302-3	**WAS**					
cis-1,2-Dichloroethene		2.4	1.0	0.51	ug/l	SW846 8260D
Trichloroethene		0.68 J	1.0	0.53	ug/l	SW846 8260D
JD54302-4	**WINF**					
cis-1,2-Dichloroethene		735	10	5.1	ug/l	SW846 8260D
trans-1,2-Dichloroethene		4.4	1.0	0.54	ug/l	SW846 8260D
Trichloroethene		421	10	5.3	ug/l	SW846 8260D
Vinyl chloride		5.7	1.0	0.52	ug/l	SW846 8260D
JD54302-5	**TRIP BLANK**					

No hits reported in this sample.

Sample Results

Report of Analysis

SGS North America Inc.

Report of Analysis

Client Sample ID:	WPOST GAC		
Lab Sample ID:	JD54302-1	**Date Sampled:**	10/24/22
Matrix:	AQ - Ground Water	**Date Received:**	10/25/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	EPT, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2A221308.D	1	10/28/22 08:44	NW	n/a	n/a	V2A9619
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	ND	10	3.1	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK) [a]	ND	10	2.7	ug/l	
75-15-0	Carbon disulfide [a]	ND	2.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane [a]	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.53	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane [a]	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	3.0	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113	ND	5.0	0.58	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	

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

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

Report of Analysis

Client Sample ID:	WPOST GAC		
Lab Sample ID:	JD54302-1	**Date Sampled:**	10/24/22
Matrix:	AQ - Ground Water	**Date Received:**	10/25/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	EPT, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate [a]	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane [a]	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.56	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride [a]	ND	1.0	0.52	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		80-120%
17060-07-0	1,2-Dichloroethane-D4	86%		80-120%
2037-26-5	Toluene-D8	99%		80-120%
460-00-4	4-Bromofluorobenzene	95%		82-114%

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

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

SGS North America Inc.

Report of Analysis

Client Sample ID:	WMID GAC		
Lab Sample ID:	JD54302-2	**Date Sampled:**	10/24/22
Matrix:	AQ - Ground Water	**Date Received:**	10/25/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	EPT, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L348816.D	1	10/29/22 17:24	BK	n/a	n/a	VL10552
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	ND	10	3.1	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane [b]	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.7	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	0.56	1.0	0.50	ug/l	J
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane [a]	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.53	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	8.1	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113	ND	5.0	0.58	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	

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

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

Report of Analysis

Client Sample ID:	WMID GAC		
Lab Sample ID:	JD54302-2	**Date Sampled:**	10/24/22
Matrix:	AQ - Ground Water	**Date Received:**	10/25/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	EPT, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.56	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.52	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		80-120%
17060-07-0	1,2-Dichloroethane-D4	110%		80-120%
2037-26-5	Toluene-D8	105%		80-120%
460-00-4	4-Bromofluorobenzene	99%		82-114%

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
(b) Associated CCV outside of control limits high, sample was ND.

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

SGS North America Inc.

Report of Analysis

Client Sample ID:	WAS		
Lab Sample ID:	JD54302-3	**Date Sampled:**	10/24/22
Matrix:	AQ - Ground Water	**Date Received:**	10/25/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	EPT, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L348817.D	1	10/29/22 17:48	BK	n/a	n/a	VL10552
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	ND	10	3.1	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane [b]	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.7	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane [a]	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.53	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	2.4	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113	ND	5.0	0.58	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	

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

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

Report of Analysis

Client Sample ID:	WAS		
Lab Sample ID:	JD54302-3	**Date Sampled:**	10/24/22
Matrix:	AQ - Ground Water	**Date Received:**	10/25/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	EPT, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.56	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	0.68	1.0	0.53	ug/l	J
75-69-4	Trichlorofluoromethane	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.52	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		80-120%
17060-07-0	1,2-Dichloroethane-D4	108%		80-120%
2037-26-5	Toluene-D8	104%		80-120%
460-00-4	4-Bromofluorobenzene	99%		82-114%

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
(b) Associated CCV outside of control limits high, sample was ND.

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

SGS North America Inc.

Report of Analysis

Client Sample ID:	WINF		
Lab Sample ID:	JD54302-4	**Date Sampled:**	10/24/22
Matrix:	AQ - Influent	**Date Received:**	10/25/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	EPT, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L348804.D	1	10/29/22 12:47	BK	n/a	n/a	VL10552
Run #2	2A221293.D	10	10/28/22 01:40	NW	n/a	n/a	V2A9619

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	ND	10	3.1	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane [b]	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.7	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane [a]	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.53	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	735 [c]	10	5.1	ug/l	
156-60-5	trans-1,2-Dichloroethene	4.4	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113	ND	5.0	0.58	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	

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

Report of Analysis

Client Sample ID:	WINF		
Lab Sample ID:	JD54302-4	**Date Sampled:**	10/24/22
Matrix:	AQ - Influent	**Date Received:**	10/25/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	EPT, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.56	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	421 [c]	10	5.3	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride	5.7	1.0	0.52	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%	98%	80-120%
17060-07-0	1,2-Dichloroethane-D4	107%	91%	80-120%
2037-26-5	Toluene-D8	103%	99%	80-120%
460-00-4	4-Bromofluorobenzene	98%	96%	82-114%

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
(b) Associated CCV outside of control limits high, sample was ND.
(c) Result is from Run# 2

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

SGS North America Inc.

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	JD54302-5	**Date Sampled:**	10/24/22
Matrix:	AQ - Trip Blank Water	**Date Received:**	10/25/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	EPT, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2A221292.D	1	10/28/22 01:11	NW	n/a	n/a	V2A9619
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	ND	10	3.1	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK) [a]	ND	10	2.7	ug/l	
75-15-0	Carbon disulfide [a]	ND	2.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane [a]	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.53	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane [a]	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113	ND	5.0	0.58	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	

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

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

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	JD54302-5	**Date Sampled:**	10/24/22
Matrix:	AQ - Trip Blank Water	**Date Received:**	10/25/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	EPT, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate [a]	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane [a]	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.56	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride [a]	ND	1.0	0.52	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		80-120%
17060-07-0	1,2-Dichloroethane-D4	90%		80-120%
2037-26-5	Toluene-D8	99%		80-120%
460-00-4	4-Bromofluorobenzene	97%		82-114%

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

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

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody

SGS

GW
TB

CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200
www.sgs.com/ehsusa

JD54302

Page 1 of 1

FED-EX Tracking #

Bottle Order Control # TS-112321-188

SGS Quote #

SGS Job #

Client / Reporting Information

Company Name: WSP USA
Street Address: 640 LaRiviere Dr
City: Buffalo State: NY Zip:
Project Contact: Jeffrey.Baker@wsp.com E-mail:
Phone #: 724-882-9723
Sampler(s) Name(s): Nate Winsted Phone #:

Project Information

Project Name: EPT, Ithaca, NY
Street: 1
City: Ithaca State: NY
Project #: 31405608.00107.WA
Client Purchase Order #:
Project Manager: Tammy McCluskey
Attention:

Billing Information (if different from Report to)

Company Name:
Street Address:
City State Zip:

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB - Field Blank; EB-Equipment Blank; RB - Rinse Blank; TB - Trip Blank

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Grab (G) Comp (C)	Source Chlorinated (Y/N)	Matrix	Number of Bottles # of bottles	HCl	NaOH	HNO_3	H_2SO_4	NONE	DI Water	MEOH	ENCORE	pH Check (Lab Use Only)	LAB USE ONLY
1	WPOST GAC		10/24/22	1115	NW	C	N	GW	3	X								X	V898
2	WMID GAC		"	1120	"	"	"	"	3	X								X	
3	WAS		"	1125	"	"	"	"	3	X								X	
4	WINF		"	1130	"	"	"	"	3	X								X	
5	TRIP BLANK		—	—	—	—	—	—	2	X								X	

WSP
EPT Ithaca, NY

TS-112321-188

Please place on the back of original (white copy of COC)
This will assist us in processing your samples
Thank You

Turn Around Time (Business Days)

Approved By (SGS PM) / Date:

- [ ] 10 Business Days
- [ ] 5 Business Days
- [ ] 3 Business Days*
- [ ] 2 Business Days*
- [ ] 1 Business Day*
- [x] Other 7-DAY

All data available via SGS Engage

* Approval needed for 1-3 BD TAT

Deliverable

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] NJ Reduced (Level 3)
- [ ] Full Tier I (Level 4)
- [ ] Commercial "C"
- [ ] NJ DKQP
- [x] NYASP Category A
- [ ] NYASP Category B
- [ ] MA MCP Criteria
- [ ] CT RCP Criteria
- [ ] State Forms
- [ ] EDD Format

Commercial "A" = Results only; Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

http://www.sgs.com/en/terms-and-conditions

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by:	Date / Time:	Received By:
1		1500 10/24/22	1 Fedex
2	Fedex	10/25/22 9:30	2
3			3
4			4
5			5 Initial Assessment IC, 3A

Custody Seal # ☐ Intact ☐ Not intact ☐ Absent

Therm ID: On Ice ☐ See Sample Receipt Summary ☐ Cooler Temp. °C

3.1

EHSA-QAC-0023-05 Rev.Date:8/5/22

Label Verification

SGS Sample Receipt Summary

Job Number: JD54302 **Client:** WSP **Project:** EPT, ITHACA, NY

Date / Time Received: 10/25/2022 9:30:00 AM **Delivery Method:** FEDEX **Airbill #'s:**

Cooler Temps (Raw Measured) °C: Cooler 1: (3.1);

Cooler Temps (Corrected) °C: Cooler 1: (3.1);

Cooler Security	Y	N		Y	N
1. Custody Seals Present:	☑	☐	3. COC Present:	☑	☐
2. Custody Seals Intact:	☑	☐	4. Smpl Dates/Time OK	☑	☐

Cooler Temperature	Y	N
1. Temp criteria achieved:	☑	☐
2. Cooler temp verification:		
3. Cooler media:	Ice (Bag)	
4. No. Coolers:	1	

Quality Control Preservation	Y	N	N/A
1. Trip Blank present / cooler:	☑	☐	☐
2. Trip Blank listed on COC:	☑	☐	☐
3. Samples preserved properly:	☑	☐	
4. VOCs headspace free:	☑	☐	☐

Sample Integrity - Documentation	Y	N
1. Sample labels present on bottles:	☑	☐
2. Container labeling complete:	☑	☐
3. Sample container label / COC agree:	☑	☐

Sample Integrity - Condition	Y	N
1. Sample recvd within HT:	☑	☐
2. All containers accounted for:	☑	☐
3. Condition of sample:	Intact	

Sample Integrity - Instructions	Y	N	N/A
1. Analysis requested is clear:	☑	☐	
2. Bottles received for unspecified tests	☐	☑	
3. Sufficient volume recvd for analysis:	☑	☐	
4. Compositing instructions clear:	☐	☐	☑
5. Filtering instructions clear:	☐	☐	☑

Test Strip Lot #s: pH 1-12: 231619 pH 12+: 203117A Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17

Internal Sample Tracking Chronicle

WSP USA Environment & Infrastructure Inc

Job No: JD54302

EPT, Ithaca, NY
Project No: 31405608.00102LBR

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD54302-1	Collected: 24-OCT-22 11:15 By: NW		Received: 25-OCT-22 By: KG			
WPOST GAC						
JD54302-1	SW846 8260D	28-OCT-22 08:44	NW			V8260TCL42
JD54302-2	Collected: 24-OCT-22 11:20 By: NW		Received: 25-OCT-22 By: KG			
WMID GAC						
JD54302-2	SW846 8260D	29-OCT-22 17:24	BK			V8260TCL42
JD54302-3	Collected: 24-OCT-22 11:25 By: NW		Received: 25-OCT-22 By: KG			
WAS						
JD54302-3	SW846 8260D	29-OCT-22 17:48	BK			V8260TCL42
JD54302-4	Collected: 24-OCT-22 11:30 By: NW		Received: 25-OCT-22 By: KG			
WINF						
JD54302-4	SW846 8260D	28-OCT-22 01:40	NW			V8260TCL42
JD54302-4	SW846 8260D	29-OCT-22 12:47	BK			V8260TCL42
JD54302-5	Collected: 24-OCT-22 11:30 By: NW		Received: 25-OCT-22 By: KG			
TRIP BLANK						
JD54302-5	SW846 8260D	28-OCT-22 01:11	NW			V8260TCL42

SGS Internal Chain of Custody

Job Number: JD54302
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY
Received: 10/25/22

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD54302-1.2	Nicholas Weigand	GCMS2A	10/27/22 17:02	Load on Instrument
JD54302-1.2	GCMS2A	Nicholas Weigand	10/31/22 17:36	Unload from Instrument
JD54302-1.2	Nicholas Weigand	Secured Storage	10/31/22 17:36	Return to Storage
JD54302-2.2	Nicholas Weigand	GCMS2A	10/27/22 17:02	Load on Instrument
JD54302-2.2	GCMS2A	Nicholas Weigand	10/31/22 17:36	Unload from Instrument
JD54302-2.2	Nicholas Weigand	Secured Storage	10/31/22 17:36	Return to Storage
JD54302-3.2	Nicholas Weigand	GCMS2A	10/27/22 17:02	Load on Instrument
JD54302-3.2	GCMS2A	Nicholas Weigand	10/31/22 17:36	Unload from Instrument
JD54302-3.2	Nicholas Weigand	Secured Storage	10/31/22 17:36	Return to Storage
JD54302-4.1	Secured Storage	Bridget Kelly	10/29/22 13:32	Retrieve from Storage
JD54302-4.1	Bridget Kelly	GCMSL	10/29/22 13:32	Load on Instrument
JD54302-4.1	GCMSL	Nicole Hornlien	11/01/22 11:11	Unload from Instrument
JD54302-4.1	Nicole Hornlien	Secured Storage	11/01/22 11:11	Return to Storage
JD54302-4.2	Nicholas Weigand	GCMS2A	10/27/22 17:02	Load on Instrument
JD54302-4.2	GCMS2A	Nicholas Weigand	10/31/22 17:36	Unload from Instrument
JD54302-4.2	Nicholas Weigand	Secured Storage	10/31/22 17:36	Return to Storage
JD54302-5.2	Nicholas Weigand	GCMS2A	10/27/22 17:02	Load on Instrument
JD54302-5.2	GCMS2A	Nicholas Weigand	10/31/22 17:36	Unload from Instrument
JD54302-5.2	Nicholas Weigand	Secured Storage	10/31/22 17:36	Return to Storage

MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries
- Run Sequence Reports

Method Blank Summary

Job Number: JD54302
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2A9619-MB	2A221291.D	1	10/28/22	NW	n/a	n/a	V2A9619

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD54302-1, JD54302-4, JD54302-5

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.1	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.7	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.53	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113	ND	5.0	0.58	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	

Method Blank Summary

Job Number: JD54302
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2A9619-MB	2A221291.D	1	10/28/22	NW	n/a	n/a	V2A9619

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD54302-1, JD54302-4, JD54302-5

CAS No.	Compound	Result	RL	MDL	Units	Q
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.56	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.52	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	97%	80-120%
17060-07-0	1,2-Dichloroethane-D4	90%	80-120%
2037-26-5	Toluene-D8	100%	80-120%
460-00-4	4-Bromofluorobenzene	95%	82-114%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Method Blank Summary

Job Number: JD54302
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL10552-MB	L348803.D	1	10/29/22	BK	n/a	n/a	VL10552

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD54302-2, JD54302-3, JD54302-4

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.1	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.7	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.53	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113	ND	5.0	0.58	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	

Method Blank Summary

Job Number: JD54302
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL10552-MB	L348803.D	1	10/29/22	BK	n/a	n/a	VL10552

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD54302-2, JD54302-3, JD54302-4

CAS No.	Compound	Result	RL	MDL	Units	Q
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.56	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.52	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	98%	80-120%
17060-07-0	1,2-Dichloroethane-D4	107%	80-120%
2037-26-5	Toluene-D8	107%	80-120%
460-00-4	4-Bromofluorobenzene	100%	82-114%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Blank Spike Summary

Job Number: JD54302
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2A9619-BS	2A221289.D	1	10/27/22	NW	n/a	n/a	V2A9619

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD54302-1, JD54302-4, JD54302-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	200	94.7	47	27-175
71-43-2	Benzene	50	43.3	87	80-115
75-27-4	Bromodichloromethane	50	44.8	90	82-119
75-25-2	Bromoform	50	59.1	118	77-135
74-83-9	Bromomethane	50	42.2	84	40-162
78-93-3	2-Butanone (MEK)	200	152	76	61-150
75-15-0	Carbon disulfide	50	40.0	80	64-130
56-23-5	Carbon tetrachloride	50	45.3	91	75-127
108-90-7	Chlorobenzene	50	47.3	95	80-115
75-00-3	Chloroethane	50	42.7	85	56-144
67-66-3	Chloroform	50	41.5	83	75-116
74-87-3	Chloromethane	50	25.5	51	41-153
110-82-7	Cyclohexane	50	41.6	83	66-129
96-12-8	1,2-Dibromo-3-chloropropane	50	57.5	115	69-134
124-48-1	Dibromochloromethane	50	54.2	108	81-123
106-93-4	1,2-Dibromoethane	50	52.1	104	67-138
95-50-1	1,2-Dichlorobenzene	50	46.8	94	81-117
541-73-1	1,3-Dichlorobenzene	50	45.6	91	81-115
106-46-7	1,4-Dichlorobenzene	50	45.7	91	80-114
75-71-8	Dichlorodifluoromethane	50	46.4	93	43-152
75-34-3	1,1-Dichloroethane	50	41.4	83	75-125
107-06-2	1,2-Dichloroethane	50	39.0	78	73-117
75-35-4	1,1-Dichloroethene	50	42.4	85	70-124
156-59-2	cis-1,2-Dichloroethene	50	43.3	87	80-120
156-60-5	trans-1,2-Dichloroethene	50	41.9	84	77-121
78-87-5	1,2-Dichloropropane	50	43.3	87	79-121
10061-01-5	cis-1,3-Dichloropropene	50	42.4	85	83-123
10061-02-6	trans-1,3-Dichloropropene	50	47.1	94	83-122
100-41-4	Ethylbenzene	50	44.1	88	78-116
76-13-1	Freon 113	50	43.5	87	68-134
591-78-6	2-Hexanone	200	169	85	66-136
98-82-8	Isopropylbenzene	50	44.0	88	78-121
79-20-9	Methyl Acetate	50	39.0	78	60-143
108-87-2	Methylcyclohexane	50	40.7	81	71-123
1634-04-4	Methyl Tert Butyl Ether	50	43.5	87	76-123
108-10-1	4-Methyl-2-pentanone(MIBK)	200	179	90	73-134

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD54302
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2A9619-BS	2A221289.D	1	10/27/22	NW	n/a	n/a	V2A9619

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD54302-1, JD54302-4, JD54302-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
75-09-2	Methylene chloride	50	42.9	86	73-123
100-42-5	Styrene	50	46.9	94	81-125
79-34-5	1,1,2,2-Tetrachloroethane	50	47.8	96	73-126
127-18-4	Tetrachloroethene	50	47.9	96	73-119
108-88-3	Toluene	50	46.3	93	79-116
120-82-1	1,2,4-Trichlorobenzene	50	53.3	107	68-135
71-55-6	1,1,1-Trichloroethane	50	43.6	87	76-124
79-00-5	1,1,2-Trichloroethane	50	49.5	99	83-117
79-01-6	Trichloroethene	50	43.8	88	80-118
75-69-4	Trichlorofluoromethane	50	46.1	92	67-134
75-01-4	Vinyl chloride	50	29.0	58	52-146
1330-20-7	Xylene (total)	150	136	91	80-119

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	98%	80-120%
17060-07-0	1,2-Dichloroethane-D4	87%	80-120%
2037-26-5	Toluene-D8	102%	80-120%
460-00-4	4-Bromofluorobenzene	94%	82-114%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD54302
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL10552-BS	L348801.D	1	10/29/22	BK	n/a	n/a	VL10552

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD54302-2, JD54302-3, JD54302-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	200	164	82	27-175
71-43-2	Benzene	50	42.7	85	80-115
75-27-4	Bromodichloromethane	50	45.2	90	82-119
75-25-2	Bromoform	50	42.2	84	77-135
74-83-9	Bromomethane	50	60.2	120	40-162
78-93-3	2-Butanone (MEK)	200	176	88	61-150
75-15-0	Carbon disulfide	50	42.4	85	64-130
56-23-5	Carbon tetrachloride	50	42.4	85	75-127
108-90-7	Chlorobenzene	50	43.8	88	80-115
75-00-3	Chloroethane	50	42.7	85	56-144
67-66-3	Chloroform	50	42.9	86	75-116
74-87-3	Chloromethane	50	42.7	85	41-153
110-82-7	Cyclohexane	50	37.8	76	66-129
96-12-8	1,2-Dibromo-3-chloropropane	50	46.7	93	69-134
124-48-1	Dibromochloromethane	50	43.3	87	81-123
106-93-4	1,2-Dibromoethane	50	45.5	91	67-138
95-50-1	1,2-Dichlorobenzene	50	45.9	92	81-117
541-73-1	1,3-Dichlorobenzene	50	46.6	93	81-115
106-46-7	1,4-Dichlorobenzene	50	45.6	91	80-114
75-71-8	Dichlorodifluoromethane	50	42.0	84	43-152
75-34-3	1,1-Dichloroethane	50	44.9	90	75-125
107-06-2	1,2-Dichloroethane	50	45.8	92	73-117
75-35-4	1,1-Dichloroethene	50	44.3	89	70-124
156-59-2	cis-1,2-Dichloroethene	50	43.4	87	80-120
156-60-5	trans-1,2-Dichloroethene	50	43.8	88	77-121
78-87-5	1,2-Dichloropropane	50	43.3	87	79-121
10061-01-5	cis-1,3-Dichloropropene	50	45.2	90	83-123
10061-02-6	trans-1,3-Dichloropropene	50	43.8	88	83-122
100-41-4	Ethylbenzene	50	40.3	81	78-116
76-13-1	Freon 113	50	45.4	91	68-134
591-78-6	2-Hexanone	200	164	82	66-136
98-82-8	Isopropylbenzene	50	42.5	85	78-121
79-20-9	Methyl Acetate	50	46.5	93	60-143
108-87-2	Methylcyclohexane	50	43.6	87	71-123
1634-04-4	Methyl Tert Butyl Ether	50	48.3	97	76-123
108-10-1	4-Methyl-2-pentanone(MIBK)	200	176	88	73-134

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD54302
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VL10552-BS	L348801.D	1	10/29/22	BK	n/a	n/a	VL10552

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD54302-2, JD54302-3, JD54302-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
75-09-2	Methylene chloride	50	45.1	90	73-123
100-42-5	Styrene	50	42.4	85	81-125
79-34-5	1,1,2,2-Tetrachloroethane	50	46.6	93	73-126
127-18-4	Tetrachloroethene	50	42.9	86	73-119
108-88-3	Toluene	50	41.8	84	79-116
120-82-1	1,2,4-Trichlorobenzene	50	52.4	105	68-135
71-55-6	1,1,1-Trichloroethane	50	43.8	88	76-124
79-00-5	1,1,2-Trichloroethane	50	45.6	91	83-117
79-01-6	Trichloroethene	50	44.8	90	80-118
75-69-4	Trichlorofluoromethane	50	44.9	90	67-134
75-01-4	Vinyl chloride	50	42.5	85	52-146
1330-20-7	Xylene (total)	150	126	84	80-119

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	98%	80-120%
17060-07-0	1,2-Dichloroethane-D4	100%	80-120%
2037-26-5	Toluene-D8	95%	80-120%
460-00-4	4-Bromofluorobenzene	103%	82-114%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD54302
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD54302-4MS	2A221296.D	10	10/28/22	NW	n/a	n/a	V2A9619
JD54302-4MSD	2A221297.D	10	10/28/22	NW	n/a	n/a	V2A9619
JD54302-4	2A221293.D	10	10/28/22	NW	n/a	n/a	V2A9619

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD54302-1, JD54302-4, JD54302-5

CAS No.	Compound	JD54302-4 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		2000	826	41	2000	821	41	1	22-134/19
71-43-2	Benzene	ND		500	395	79	500	404	81	2	49-137/12
75-27-4	Bromodichloromethane	ND		500	425	85	500	429	86	1	76-121/12
75-25-2	Bromoform	ND		500	568	114	500	592	118	4	70-133/13
74-83-9	Bromomethane	ND		500	385	77	500	385	77	0	27-164/38
78-93-3	2-Butanone (MEK)	ND		2000	1460	73	2000	1480	74	1	52-137/17
75-15-0	Carbon disulfide	ND		500	354	71	500	358	72	1	54-136/16
56-23-5	Carbon tetrachloride	ND		500	416	83	500	414	83	0	70-132/13
108-90-7	Chlorobenzene	ND		500	449	90	500	462	92	3	68-123/12
75-00-3	Chloroethane	ND		500	398	80	500	401	80	1	48-152/17
67-66-3	Chloroform	ND		500	386	77	500	382	76	1	68-120/13
74-87-3	Chloromethane	ND		500	233	47	500	226	45	3	35-156/18
110-82-7	Cyclohexane	ND		500	395	79	500	392	78	1	53-146/14
96-12-8	1,2-Dibromo-3-chloropropane	ND		500	565	113	500	586	117	4	63-134/16
124-48-1	Dibromochloromethane	ND		500	527	105	500	539	108	2	75-122/12
106-93-4	1,2-Dibromoethane	ND		500	491	98	500	507	101	3	63-134/12
95-50-1	1,2-Dichlorobenzene	ND		500	456	91	500	465	93	2	74-119/12
541-73-1	1,3-Dichlorobenzene	ND		500	436	87	500	449	90	3	75-117/12
106-46-7	1,4-Dichlorobenzene	ND		500	438	88	500	445	89	2	72-117/12
75-71-8	Dichlorodifluoromethane	ND		500	441	88	500	434	87	2	34-163/16
75-34-3	1,1-Dichloroethane	ND		500	377	75	500	375	75	1	68-129/13
107-06-2	1,2-Dichloroethane	ND		500	364	73	500	363	73	0	66-120/13
75-35-4	1,1-Dichloroethene	ND		500	372	74	500	378	76	2	59-133/15
156-59-2	cis-1,2-Dichloroethene	735		500	1030	206* [a]	500	1020	204* [a]	1	52-140/12
156-60-5	trans-1,2-Dichloroethene	9.7	J	500	380	76	500	388	78	2	70-125/13
78-87-5	1,2-Dichloropropane	ND		500	405	81	500	412	82	2	73-124/12
10061-01-5	cis-1,3-Dichloropropene	ND		500	409	82	500	413	83	1	75-125/13
10061-02-6	trans-1,3-Dichloropropene	ND		500	442	88	500	451	90	2	75-122/12
100-41-4	Ethylbenzene	ND		500	410	82	500	426	85	4	37-144/12
76-13-1	Freon 113	ND		500	391	78	500	395	79	1	61-142/14
591-78-6	2-Hexanone	ND		2000	1680	84	2000	1720	86	2	56-132/16
98-82-8	Isopropylbenzene	ND		500	417	83	500	429	86	3	71-126/13
79-20-9	Methyl Acetate	ND		500	357	71	500	353	71	1	51-139/18
108-87-2	Methylcyclohexane	ND		500	361	72	500	373	75	3	59-137/16
1634-04-4	Methyl Tert Butyl Ether	ND		500	405	81	500	405	81	0	66-124/12
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		2000	1770	89	2000	1780	89	1	65-135/14

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD54302
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD54302-4MS	2A221296.D	10	10/28/22	NW	n/a	n/a	V2A9619
JD54302-4MSD	2A221297.D	10	10/28/22	NW	n/a	n/a	V2A9619
JD54302-4	2A221293.D	10	10/28/22	NW	n/a	n/a	V2A9619

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD54302-1, JD54302-4, JD54302-5

CAS No.	Compound	JD54302-4 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
75-09-2	Methylene chloride	ND		500	399	80	500	399	80	0	66-125/14
100-42-5	Styrene	ND		500	447	89	500	462	92	3	71-133/12
79-34-5	1,1,2,2-Tetrachloroethane	ND		500	470	94	500	490	98	4	68-127/14
127-18-4	Tetrachloroethene	ND		500	435	87	500	458	92	5	58-132/13
108-88-3	Toluene	ND		500	430	86	500	442	88	3	46-139/12
120-82-1	1,2,4-Trichlorobenzene	ND		500	504	101	500	529	106	5	61-137/16
71-55-6	1,1,1-Trichloroethane	ND		500	397	79	500	397	79	0	67-132/13
79-00-5	1,1,2-Trichloroethane	ND		500	475	95	500	488	98	3	75-120/12
79-01-6	Trichloroethene	421		500	746	149* [a]	500	751	150* [a]	1	56-136/12
75-69-4	Trichlorofluoromethane	ND		500	430	86	500	433	87	1	61-145/16
75-01-4	Vinyl chloride	ND		500	267	53	500	266	53	0	41-156/16
1330-20-7	Xylene (total)	ND		1500	1280	85	1500	1310	87	2	38-147/12

CAS No.	Surrogate Recoveries	MS	MSD	JD54302-4	Limits
1868-53-7	Dibromofluoromethane	98%	97%	98%	80-120%
17060-07-0	1,2-Dichloroethane-D4	86%	86%	91%	80-120%
2037-26-5	Toluene-D8	101%	101%	99%	80-120%
460-00-4	4-Bromofluorobenzene	94%	95%	96%	82-114%

(a) Outside control limits due to matrix interference.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD54302
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD54108-4MS	L348811.D	50	10/29/22	BK	n/a	n/a	VL10552
JD54108-4MSD	L348812.D	50	10/29/22	BK	n/a	n/a	VL10552
JD54108-4 [a]	L348809.D	50	10/29/22	BK	n/a	n/a	VL10552

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD54302-2, JD54302-3, JD54302-4

CAS No.	Compound	JD54108-4 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		10000	7010	70	10000	7170	72	2	22-134/19
71-43-2	Benzene	62.0		2500	2300	90	2500	2260	88	2	49-137/12
75-27-4	Bromodichloromethane	ND		2500	2430	97	2500	2380	95	2	76-121/12
75-25-2	Bromoform	ND		2500	2240	90	2500	2260	90	1	70-133/13
74-83-9	Bromomethane	ND		2500	2340	94	2500	2260	90	3	27-164/38
78-93-3	2-Butanone (MEK)	ND		10000	8620	86	10000	9090	91	5	52-137/17
75-15-0	Carbon disulfide	ND		2500	2030	81	2500	1950	78	4	54-136/16
56-23-5	Carbon tetrachloride	ND		2500	2270	91	2500	2210	88	3	70-132/13
108-90-7	Chlorobenzene	ND		2500	2420	97	2500	2390	96	1	68-123/12
75-00-3	Chloroethane	ND		2500	1700	68	2500	1620	65	5	48-152/17
67-66-3	Chloroform	ND		2500	2310	92	2500	2260	90	2	68-120/13
74-87-3	Chloromethane	ND		2500	1490	60	2500	1410	56	6	35-156/18
110-82-7	Cyclohexane	ND		2500	1550	62	2500	1480	59	5	53-146/14
96-12-8	1,2-Dibromo-3-chloropropane	ND		2500	2360	94	2500	2490	100	5	63-134/16
124-48-1	Dibromochloromethane	ND		2500	2380	95	2500	2350	94	1	75-122/12
106-93-4	1,2-Dibromoethane	ND		2500	2450	98	2500	2450	98	0	63-134/12
95-50-1	1,2-Dichlorobenzene	ND		2500	2390	96	2500	2450	98	2	74-119/12
541-73-1	1,3-Dichlorobenzene	ND		2500	2430	97	2500	2480	99	2	75-117/12
106-46-7	1,4-Dichlorobenzene	ND		2500	2380	95	2500	2400	96	1	72-117/12
75-71-8	Dichlorodifluoromethane	ND		2500	1670	67	2500	1600	64	4	34-163/16
75-34-3	1,1-Dichloroethane	ND		2500	2370	95	2500	2270	91	4	68-129/13
107-06-2	1,2-Dichloroethane	ND		2500	2420	97	2500	2400	96	1	66-120/13
75-35-4	1,1-Dichloroethene	ND		2500	2240	90	2500	2100	84	6	59-133/15
156-59-2	cis-1,2-Dichloroethene	ND		2500	2300	92	2500	2250	90	2	52-140/12
156-60-5	trans-1,2-Dichloroethene	ND		2500	2250	90	2500	2150	86	5	70-125/13
78-87-5	1,2-Dichloropropane	ND		2500	2370	95	2500	2360	94	0	73-124/12
10061-01-5	cis-1,3-Dichloropropene	ND		2500	2470	99	2500	2450	98	1	75-125/13
10061-02-6	trans-1,3-Dichloropropene	ND		2500	2410	96	2500	2420	97	0	75-122/12
100-41-4	Ethylbenzene	190		2500	2340	86	2500	2290	84	2	37-144/12
76-13-1	Freon 113	ND		2500	2250	90	2500	2160	86	4	61-142/14
591-78-6	2-Hexanone	ND		10000	8740	87	10000	9000	90	3	56-132/16
98-82-8	Isopropylbenzene	ND		2500	2380	95	2500	2320	93	3	71-126/13
79-20-9	Methyl Acetate	ND		2500	2240	90	2500	2400	96	7	51-139/18
108-87-2	Methylcyclohexane	ND		2500	2320	93	2500	2210	88	5	59-137/16
1634-04-4	Methyl Tert Butyl Ether	ND		2500	2420	97	2500	2400	96	1	66-124/12
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		10000	9430	94	10000	9630	96	2	65-135/14

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD54302
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD54108-4MS	L348811.D	50	10/29/22	BK	n/a	n/a	VL10552
JD54108-4MSD	L348812.D	50	10/29/22	BK	n/a	n/a	VL10552
JD54108-4 [a]	L348809.D	50	10/29/22	BK	n/a	n/a	VL10552

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD54302-2, JD54302-3, JD54302-4

CAS No.	Compound	JD54108-4 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
75-09-2	Methylene chloride	ND		2500	2350	94	2500	2290	92	3	66-125/14
100-42-5	Styrene	33.1	J	2500	2340	92	2500	2310	91	1	71-133/12
79-34-5	1,1,2,2-Tetrachloroethane	ND		2500	2430	97	2500	2520	101	4	68-127/14
127-18-4	Tetrachloroethene	ND		2500	2420	97	2500	2350	94	3	58-132/13
108-88-3	Toluene	224		2500	2430	88	2500	2390	87	2	46-139/12
120-82-1	1,2,4-Trichlorobenzene	ND		2500	2740	110	2500	2770	111	1	61-137/16
71-55-6	1,1,1-Trichloroethane	ND		2500	2290	92	2500	2240	90	2	67-132/13
79-00-5	1,1,2-Trichloroethane	ND		2500	2440	98	2500	2430	97	0	75-120/12
79-01-6	Trichloroethene	ND		2500	2410	96	2500	2300	92	5	56-136/12
75-69-4	Trichlorofluoromethane	ND		2500	1980	79	2500	1930	77	3	61-145/16
75-01-4	Vinyl chloride	ND		2500	1590	64	2500	1520	61	5	41-156/16
1330-20-7	Xylene (total)	570		7500	7300	90	7500	7160	88	2	38-147/12

CAS No.	Surrogate Recoveries	MS	MSD	JD54108-4	Limits
1868-53-7	Dibromofluoromethane	99%	99%	96%	80-120%
17060-07-0	1,2-Dichloroethane-D4	100%	100%	109%	80-120%
2037-26-5	Toluene-D8	95%	96%	104%	80-120%
460-00-4	4-Bromofluorobenzene	101%	104%	102%	82-114%

(a) Sample analyzed outside the holding time.Dilution required due to high concentration of non target compound.

* = Outside of Control Limits.

Instrument Performance Check (BFB)

Job Number: JD54302
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample: V2A9596-BFB
Lab File ID: 2A220735.D
Instrument ID: GCMS2A
Injection Date: 10/13/22
Injection Time: 17:42

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	53573	22.3		Pass
75	30.0 - 60.0% of mass 95	110642	46.0		Pass
95	Base peak, 100% relative abundance	240298	100.0		Pass
96	5.0 - 9.0% of mass 95	15575	6.48		Pass
173	Less than 2.0% of mass 174	1954	0.81	(0.92) [a]	Pass
174	50.0 - 120.0% of mass 95	211797	88.1		Pass
175	5.0 - 9.0% of mass 174	15782	6.57	(7.45) [a]	Pass
176	95.0 - 101.0% of mass 174	210837	87.7	(99.5) [a]	Pass
177	5.0 - 9.0% of mass 176	14168	5.90	(6.72) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V2A9596-IC9596	2A220736.D	10/13/22	18:18	00:36	Initial cal 0.2
V2A9596-IC9596	2A220737.D	10/13/22	18:37	00:55	Initial cal 0.5
V2A9596-IC9596	2A220738.D	10/13/22	19:06	01:24	Initial cal 1
V2A9596-IC9596	2A220739.D	10/13/22	19:34	01:52	Initial cal 2
V2A9596-IC9596	2A220740.D	10/13/22	20:03	02:21	Initial cal 4
V2A9596-IC9596	2A220741.D	10/13/22	20:32	02:50	Initial cal 8
V2A9596-IC9596	2A220742.D	10/13/22	21:02	03:20	Initial cal 20
V2A9596-ICC9596	2A220743.D	10/13/22	21:30	03:48	Initial cal 50
V2A9596-IC9596	2A220744.D	10/13/22	22:00	04:18	Initial cal 100
V2A9596-IC9596	2A220745.D	10/13/22	22:28	04:46	Initial cal 200
V2A9596-ICV9596	2A220748.D	10/13/22	23:54	06:12	Initial cal verification 50
V2A9596-ICV9596	2A220749.D	10/14/22	00:22	06:40	Initial cal verification 50

Instrument Performance Check (BFB)

Job Number: JD54302
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample: V2A9619-BFB
Lab File ID: 2A221287.D
Instrument ID: GCMS2A
Injection Date: 10/27/22
Injection Time: 22:49

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	36341	17.0		Pass
75	30.0 - 60.0% of mass 95	94723	44.2		Pass
95	Base peak, 100% relative abundance	214251	100.0		Pass
96	5.0 - 9.0% of mass 95	14024	6.55		Pass
173	Less than 2.0% of mass 174	628	0.29	(0.29) [a]	Pass
174	50.0 - 120.0% of mass 95	213035	99.4		Pass
175	5.0 - 9.0% of mass 174	15475	7.22	(7.26) [a]	Pass
176	95.0 - 101.0% of mass 174	210667	98.3	(98.9) [a]	Pass
177	5.0 - 9.0% of mass 176	13250	6.18	(6.29) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V2A9619-CC9596	2A221287.D	10/27/22	22:49	00:00	Continuing cal 50
V2A9619-BS	2A221289.D	10/27/22	23:46	00:57	Blank Spike
V2A9619-MB	2A221291.D	10/28/22	00:43	01:54	Method Blank
JD54302-5	2A221292.D	10/28/22	01:11	02:22	TRIP BLANK
JD54302-4	2A221293.D	10/28/22	01:40	02:51	WINF
ZZZZZZ	2A221294.D	10/28/22	02:08	03:19	(unrelated sample)
ZZZZZZ	2A221295.D	10/28/22	02:37	03:48	(unrelated sample)
JD54302-4MS	2A221296.D	10/28/22	03:05	04:16	Matrix Spike
JD54302-4MSD	2A221297.D	10/28/22	03:33	04:44	Matrix Spike Duplicate
ZZZZZZ	2A221299.D	10/28/22	04:30	05:41	(unrelated sample)
ZZZZZZ	2A221300.D	10/28/22	04:58	06:09	(unrelated sample)
ZZZZZZ	2A221303.D	10/28/22	06:23	07:34	(unrelated sample)
ZZZZZZ	2A221306.D	10/28/22	07:48	08:59	(unrelated sample)
ZZZZZZ	2A221307.D	10/28/22	08:16	09:27	(unrelated sample)
JD54302-1	2A221308.D	10/28/22	08:44	09:55	WPOST GAC

Instrument Performance Check (BFB)

Job Number: JD54302
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample: VL10548-BFB
Lab File ID: L348707.D
Instrument ID: GCMSL
Injection Date: 10/27/22
Injection Time: 01:23

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	15976	17.9		Pass
75	30.0 - 60.0% of mass 95	43467	48.6		Pass
95	Base peak, 100% relative abundance	89389	100.0		Pass
96	5.0 - 9.0% of mass 95	6041	6.76		Pass
173	Less than 2.0% of mass 174	262	0.29	(0.36) [a]	Pass
174	50.0 - 120.0% of mass 95	72101	80.7		Pass
175	5.0 - 9.0% of mass 174	5774	6.46	(8.01) [a]	Pass
176	95.0 - 101.0% of mass 174	69016	77.2	(95.7) [a]	Pass
177	5.0 - 9.0% of mass 176	4622	5.17	(6.70) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VL10548-IC10548	L348708.D	10/27/22	01:55	00:32	Initial cal 0.2
VL10548-IC10548	L348709.D	10/27/22	02:18	00:55	Initial cal 0.5
VL10548-IC10548	L348710.D	10/27/22	02:41	01:18	Initial cal 1
VL10548-IC10548	L348711.D	10/27/22	03:04	01:41	Initial cal 2
VL10548-IC10548	L348712.D	10/27/22	03:27	02:04	Initial cal 4
VL10548-IC10548	L348713.D	10/27/22	03:50	02:27	Initial cal 8
VL10548-IC10548	L348714.D	10/27/22	04:14	02:51	Initial cal 20
VL10548-ICC10548	L348715.D	10/27/22	04:37	03:14	Initial cal 50
VL10548-IC10548	L348716.D	10/27/22	05:00	03:37	Initial cal 100
VL10548-IC10548	L348717.D	10/27/22	05:23	04:00	Initial cal 200
VL10548-ICV10548	L348720.D	10/27/22	06:33	05:10	Initial cal verification 50
VL10548-ICV10548	L348721.D	10/27/22	06:56	05:33	Initial cal verification 50

Instrument Performance Check (BFB)

Job Number: JD54302
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample: VL10552-BFB
Lab File ID: L348799.D
Instrument ID: GCMSL
Injection Date: 10/29/22
Injection Time: 10:33

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	14503	16.4		Pass
75	30.0 - 60.0% of mass 95	42040	47.5		Pass
95	Base peak, 100% relative abundance	88509	100.0		Pass
96	5.0 - 9.0% of mass 95	5804	6.56		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	67835	76.6		Pass
175	5.0 - 9.0% of mass 174	5932	6.70	(8.74) [a]	Pass
176	95.0 - 101.0% of mass 174	67064	75.8	(98.9) [a]	Pass
177	5.0 - 9.0% of mass 176	4290	4.85	(6.40) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VL10552-CC10548	L348799.D	10/29/22	10:33	00:00	Continuing cal 20
VL10552-BS	L348801.D	10/29/22	11:38	01:05	Blank Spike
VL10552-MB	L348803.D	10/29/22	12:24	01:51	Method Blank
JD54302-4	L348804.D	10/29/22	12:47	02:14	WINF
ZZZZZZ	L348805.D	10/29/22	13:10	02:37	(unrelated sample)
ZZZZZZ	L348806.D	10/29/22	13:33	03:00	(unrelated sample)
ZZZZZZ	L348807.D	10/29/22	13:57	03:24	(unrelated sample)
ZZZZZZ	L348808.D	10/29/22	14:20	03:47	(unrelated sample)
JD54108-4	L348809.D	10/29/22	14:43	04:10	(used for QC only; not part of job JD54302)
ZZZZZZ	L348810.D	10/29/22	15:06	04:33	(unrelated sample)
JD54108-4MS	L348811.D	10/29/22	15:29	04:56	Matrix Spike
JD54108-4MSD	L348812.D	10/29/22	15:52	05:19	Matrix Spike Duplicate
ZZZZZZ	L348814.D	10/29/22	16:38	06:05	(unrelated sample)
ZZZZZZ	L348815.D	10/29/22	17:01	06:28	(unrelated sample)
JD54302-2	L348816.D	10/29/22	17:24	06:51	WMID GAC
JD54302-3	L348817.D	10/29/22	17:48	07:15	WAS
ZZZZZZ	L348818.D	10/29/22	18:11	07:38	(unrelated sample)
ZZZZZZ	L348819.D	10/29/22	18:34	08:01	(unrelated sample)
ZZZZZZ	L348820.D	10/29/22	18:57	08:24	(unrelated sample)
ZZZZZZ	L348821.D	10/29/22	19:20	08:47	(unrelated sample)
ZZZZZZ	L348822.D	10/29/22	19:43	09:10	(unrelated sample)
ZZZZZZ	L348823.D	10/29/22	20:06	09:33	(unrelated sample)
ZZZZZZ	L348824.D	10/29/22	20:29	09:56	(unrelated sample)
ZZZZZZ	L348825.D	10/29/22	20:52	10:19	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JD54302
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample:	VL10552-BFB	**Injection Date:**	10/29/22
Lab File ID:	L348799.D	**Injection Time:**	10:33
Instrument ID:	GCMSL		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	L348826.D	10/29/22	21:15	10:42	(unrelated sample)
ZZZZZZ	L348827.D	10/29/22	21:39	11:06	(unrelated sample)
ZZZZZZ	L348828.D	10/29/22	22:02	11:29	(unrelated sample)
ZZZZZZ	L348829.D	10/29/22	22:25	11:52	(unrelated sample)

Internal Standard Area Summary

Job Number: JD54302
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Check Std:	V2A9619-CC9596	**Injection Date:**	10/27/22
Lab File ID:	2A221287.D	**Injection Time:**	22:49
Instrument ID:	GCMS2A	**Method:**	SW846 8260D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	323515	7.25	662808	9.51	900072	10.43	731213	13.56	377292	15.89
Upper Limit [a]	647030	7.75	1325616	10.01	1800144	10.93	1462426	14.06	754584	16.39
Lower Limit [b]	161758	6.75	331404	9.01	450036	9.93	365607	13.06	188646	15.39

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
V2A9619-BS	339350	7.25	690717	9.51	931670	10.43	743342	13.56	388243	15.89
V2A9619-MB	338300	7.24	695700	9.51	944877	10.43	772631	13.56	391363	15.89
JD54302-5	329182	7.24	680983	9.51	922186	10.43	758005	13.56	376768	15.89
JD54302-4	330645	7.24	662211	9.51	900265	10.43	739043	13.56	372515	15.89
ZZZZZZ	315270	7.25	644275	9.51	872829	10.43	708412	13.56	369291	15.89
ZZZZZZ	341577	7.24	692101	9.51	930962	10.43	761850	13.56	394099	15.89
JD54302-4MS	336992	7.25	692668	9.51	939455	10.43	757568	13.56	391814	15.89
JD54302-4MSD	352105	7.24	722243	9.51	968078	10.43	771344	13.56	397974	15.89
ZZZZZZ	307607	7.24	738365	9.51	990225	10.43	816299	13.56	409514	15.89
ZZZZZZ	346287	7.25	727331	9.51	978360	10.43	804734	13.56	401809	15.89
ZZZZZZ	373243	7.24	752234	9.51	1008516	10.43	828222	13.56	418668	15.89
ZZZZZZ	378631	7.25	797388	9.51	1068843	10.43	887910	13.56	452133	15.89
ZZZZZZ	378940	7.25	794948	9.51	1060502	10.43	867752	13.56	440191	15.89
JD54302-1	365080	7.24	769186	9.51	1031346	10.43	851185	13.56	430013	15.89

IS 1 = Tert Butyl Alcohol-D9
IS 2 = Pentafluorobenzene
IS 3 = 1,4-Difluorobenzene
IS 4 = Chlorobenzene-D5
IS 5 = 1,4-Dichlorobenzene-d4

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Internal Standard Area Summary

Job Number: JD54302
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Check Std:	VL10552-CC10548	**Injection Date:**	10/29/22
Lab File ID:	L348799.D	**Injection Time:**	10:33
Instrument ID:	GCMSL	**Method:**	SW846 8260D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	246849	3.06	242496	4.28	334022	4.85	312296	7.24	126617	9.43
Upper Limit [a]	493698	3.56	484992	4.78	668044	5.35	624592	7.74	253234	9.93
Lower Limit [b]	123425	2.56	121248	3.78	167011	4.35	156148	6.74	63309	8.93

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
VL10552-BS	227484	3.07	232878	4.28	328511	4.85	313175	7.24	123919	9.43
VL10552-MB	274853	3.07	274165	4.29	371986	4.85	326352	7.24	140271	9.43
JD54302-4	272742	3.06	235596	4.28	344342	4.85	312282	7.24	138323	9.43
ZZZZZZ	278356	3.06	266104	4.28	359642	4.85	320074	7.24	141419	9.43
ZZZZZZ	285171	3.06	252472	4.28	354421	4.85	303700	7.24	139867	9.43
ZZZZZZ	275507	3.06	267411	4.28	366405	4.85	321152	7.24	142072	9.43
ZZZZZZ	275688	3.06	268426	4.28	368578	4.84	322318	7.24	138462	9.43
JD54108-4	269924	3.06	262049	4.28	357488	4.85	321650	7.24	134099	9.43
ZZZZZZ	291113	3.06	264213	4.28	365486	4.85	321059	7.24	136364	9.43
JD54108-4MS	226681	3.06	219235	4.28	312116	4.85	298775	7.24	121679	9.43
JD54108-4MSD	240780	3.07	221872	4.28	316921	4.85	303090	7.24	119648	9.43
ZZZZZZ	286054	3.06	267636	4.28	362951	4.85	330400	7.24	144588	9.43
ZZZZZZ	261680	3.06	260780	4.28	366061	4.85	324258	7.24	140942	9.43
JD54302-2	290742	3.07	271794	4.28	376162	4.85	330864	7.24	146132	9.43
JD54302-3	286526	3.06	267608	4.28	368037	4.85	334322	7.24	143706	9.43
ZZZZZZ	279545	3.06	267904	4.28	374893	4.85	334166	7.24	146296	9.43
ZZZZZZ	249422	3.06	251557	4.28	341292	4.85	299117	7.24	133639	9.43
ZZZZZZ	275908	3.06	262252	4.29	363809	4.85	321517	7.24	142010	9.43
ZZZZZZ	268564	3.06	230406	4.28	324905	4.85	311728	7.24	132301	9.43
ZZZZZZ	264908	3.06	253310	4.28	350420	4.85	311702	7.24	137116	9.43
ZZZZZZ	260850	3.06	242716	4.28	336805	4.85	299240	7.24	135937	9.43
ZZZZZZ	255872	3.06	269092	4.28	368817	4.85	327090	7.24	140848	9.43
ZZZZZZ	266993	3.06	261680	4.28	349655	4.85	319475	7.24	140390	9.43
ZZZZZZ	254044	3.06	264819	4.28	364496	4.85	318495	7.24	138078	9.43
ZZZZZZ	244535	3.06	257048	4.28	357812	4.85	314211	7.24	134943	9.43
ZZZZZZ	260000	3.06	260642	4.28	364932	4.85	328795	7.24	140806	9.43
ZZZZZZ	235608	3.06	240035	4.28	353602	4.85	317816	7.24	137580	9.43

IS 1 = Tert Butyl Alcohol-D9
IS 2 = Pentafluorobenzene
IS 3 = 1,4-Difluorobenzene
IS 4 = Chlorobenzene-D5
IS 5 = 1,4-Dichlorobenzene-d4

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.

Internal Standard Area Summary

Job Number: JD54302
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Check Std:	VL10552-CC10548	**Injection Date:**	10/29/22
Lab File ID:	L348799.D	**Injection Time:**	10:33
Instrument ID:	GCMSL	**Method:**	SW846 8260D

Lab Sample ID	IS 1 AREA	IS 1 RT	IS 2 AREA	IS 2 RT	IS 3 AREA	IS 3 RT	IS 4 AREA	IS 4 RT	IS 5 AREA	IS 5 RT

(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Surrogate Recovery Summary

Job Number: JD54302
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Method: SW846 8260D **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JD54302-1	2A221308.D	95	86	99	95
JD54302-2	L348816.D	97	110	105	99
JD54302-3	L348817.D	100	108	104	99
JD54302-4	L348804.D	100	107	103	98
JD54302-4	2A221293.D	98	91	99	96
JD54302-5	2A221292.D	99	90	99	97
JD54108-4MS	L348811.D	99	100	95	101
JD54108-4MSD	L348812.D	99	100	96	104
JD54302-4MS	2A221296.D	98	86	101	94
JD54302-4MSD	2A221297.D	97	86	101	95
V2A9619-BS	2A221289.D	98	87	102	94
V2A9619-MB	2A221291.D	97	90	100	95
VL10552-BS	L348801.D	98	100	95	103
VL10552-MB	L348803.D	98	107	107	100

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	80-120%
S2 = 1,2-Dichloroethane-D4	80-120%
S3 = Toluene-D8	80-120%
S4 = 4-Bromofluorobenzene	82-114%

Initial Calibration Summary

Job Number: JD54302 **Sample:** V2A9596-ICC9596
Account: ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2A220743.D
Project: EPT, Ithaca, NY

Response Factor Report GCMS2A

Method : C:\MSDCHEM\1\METHODS\M2A9596.M (RTE Integrator)
Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 09:22:42 2022
Last Update : Fri Oct 14 09:22:42 2022
Response via : Initial Calibration

Calibration Files
4 =2A220740.D 8 =2A220741.D 0.5 =2A220737.D 50 =2A220743.D
100 =2A220744.D 1 =2A220738.D 200 =2A220745.D 20 =2A220742.D
2 =2A220739.D 0.2 =2A220736.D = =

Compound	4	8	0.5	50	100	1	200	20	2	0.2	Avg	%RSD
1) I tert butyl alcohol-d9	----------ISTD----------											
2) ethanol	0.102	0.095	0.087	0.098	0.111	0.096	0.120	0.094	0.104		0.101	9.93
3) tertiary butyl alcohol	1.324	1.221		1.248	1.328	1.207	1.293	1.191	1.429		1.280	6.22
4) 1,4-dioxane	0.071	0.075		0.078	0.084		0.083	0.074	0.058		0.075	11.70
5) I pentafluorobenzene	----------ISTD----------											
6) chlorodifluoromethane	0.723	0.723	0.689	0.680	0.691	0.715	0.632	0.690	0.764	0.637	0.694	5.75
7) dichlorodifluoromethane	0.527	0.553	0.474	0.527	0.551	0.514	0.512	0.520	0.567		0.527	5.26
8) chloromethane	0.777	0.789	0.914	0.744	0.763	0.826	0.697	0.714	0.846		0.786	8.67
9) vinyl chloride	0.626	0.619	0.585	0.601	0.631	0.602	0.583	0.589	0.642	0.530	0.601	5.34
10) 1,3-butadiene *This compound fails Initial Calibration criteria*	0.498	0.473		0.437	0.443		0.401	0.453	0.495		0.457	7.50
11) bromomethane	0.379	0.363	0.401	0.349	0.371	0.368	0.345	0.347	0.384		0.368	5.07
12) chloroethane	0.335	0.337	0.296	0.322	0.346	0.327	0.323	0.318	0.361	0.253	0.322	9.26
13) trichlorofluoromethane	0.656	0.665	0.569	0.663	0.697	0.590	0.655	0.644	0.685		0.647	6.48
14) ethyl ether	0.238	0.222	0.214	0.223	0.232	0.215	0.218	0.217	0.245		0.225	4.97
15) acrolein	0.100	0.086		0.092	0.097		0.092	0.089	0.121		0.097	12.22
16) freon 113	0.355	0.358	0.333	0.349	0.360	0.351	0.339	0.344	0.381		0.352	3.94
17) 1,1-dichloroethene	0.386	0.364	0.375	0.347	0.362	0.395	0.335	0.348	0.397		0.368	6.02
18) acetone	0.288	0.266		0.251	0.252	0.306	0.217	0.250	0.325		0.269	13.04
19) acetonitrile	0.073	0.067		0.064	0.066	0.074	0.062	0.063	0.070		0.067	6.68
20) iodomethane	0.737	0.706	0.660	0.702	0.733	0.722	0.677	0.699	0.768	0.607	0.701	6.43
21) carbon disulfide	1.323	1.272	1.323	1.197	1.242	1.382	1.111	1.218	1.352		1.269	6.77
22) methylene chloride	0.426	0.394	0.417	0.395	0.414	0.411	0.384	0.395	0.451		0.410	5.02
23) methyl acetate												

```
      0.474 0.441       0.415 0.424 0.474 0.401 0.404 0.516        0.444    9.18
24)  methyl tert butyl ether
      1.192 1.132 1.084 1.105 1.145 1.163 1.043 1.110 1.276 1.331  1.158    7.60
25)  trans-1,2-dichloroethene
      0.410 0.396 0.423 0.389 0.402 0.447 0.377 0.393 0.469 0.438  0.414    7.02
26)  hexane
      0.811 0.831 0.832 0.797 0.833 0.901 0.736 0.784 0.888        0.824    6.12
27)  di-isopropyl ether
      1.854 1.786 1.821 1.684 1.696 1.861 1.495 1.735 1.981 1.970  1.788    8.11
28)  ethyl tert-butyl ether
      1.601 1.550 1.564 1.491 1.504 1.539 1.340 1.514 1.699 1.658  1.546    6.39
29)  2-butanone
      0.060 0.058       0.058 0.059 0.055 0.055 0.056 0.060        0.057    3.60
30)  1,1-dichloroethane
      0.839 0.816 0.789 0.781 0.812 0.845 0.735 0.788 0.864 0.731  0.800    5.53
31)  chloroprene
      0.775 0.770 0.765 0.753 0.771 0.765 0.704 0.748 0.795 0.761  0.761    3.11
32)  acrylonitrile
      0.206 0.193       0.197 0.206 0.157 0.197 0.190 0.181        0.191    8.34
33)  vinyl acetate   *This compound fails Initial Calibration criteria*
      0.070 0.064       0.062 0.062 0.046 0.060 0.062 0.058        0.061   11.30
34)  ethyl acetate
      0.093 0.088       0.083 0.086 0.084 0.081 0.082 0.093        0.086    5.40
35)  2,2-dichloropropane
      0.619 0.592 0.603 0.564 0.583 0.647 0.531 0.574 0.658 0.653  0.602    6.96
36)  cis-1,2-dichloroethene
      0.461 0.427 0.444 0.428 0.443 0.477 0.413 0.426 0.471 0.471  0.446    5.07
37)  propionitrile
      0.077 0.074 0.064 0.072 0.072 0.067 0.066 0.071 0.082        0.072    7.98
38)  bromochloromethane
      0.297 0.290 0.285 0.286 0.297 0.279 0.278 0.281 0.312 0.243  0.285    6.30
39)  tetrahydrofuran
      0.187 0.174 0.144 0.163 0.166 0.174 0.156 0.159 0.195        0.169    9.33
40)  chloroform
      0.760 0.746 0.870 0.713 0.729 0.829 0.665 0.705 0.826        0.760    8.88
41)  tert-butyl formate  *This compound fails Initial Calibration criteria*
      0.311 0.294 0.295 0.292 0.302 0.304 0.289 0.289 0.343        0.302    5.64
42)  isobutyl alcohol
      0.026 0.026       0.028 0.030       0.027 0.026 0.025        0.027    5.92
43)  dibromofluoromethane (s)
      0.440 0.444 0.441 0.441 0.441 0.444 0.438 0.441 0.442 0.437  0.441    0.47
44)  methacrylonitrile
      0.180 0.174 0.153 0.178 0.186 0.172 0.176 0.175 0.194        0.176    6.37
45)  1,1,1-trichloroethane
      0.654 0.645 0.665 0.637 0.664 0.674 0.608 0.632 0.697 0.620  0.650    4.13
46)  cyclohexane
      0.619 0.626 0.606 0.606 0.642 0.612 0.598 0.595 0.668 0.646  0.622    3.80
47)  1,1-dichloropropene
      0.558 0.559 0.515 0.548 0.564 0.557 0.521 0.549 0.601 0.558  0.553    4.26
48)  tert-amyl alcohol
      0.028 0.028 0.028 0.027 0.028 0.031 0.027 0.026 0.029 0.032  0.028    6.35
49)  carbon tetrachloride
      0.578 0.557 0.513 0.570 0.598 0.559 0.553 0.561 0.613 0.538  0.564    5.01

50) I   1,4-difluorobenzene   ----------------ISTD---------------------
51)  1,2-dichloroethane-d4 (s)
      0.398 0.394 0.398 0.386 0.385 0.399 0.386 0.392 0.399 0.397  0.393    1.44
52)  2,2,4-trimethylpentane
      1.410 1.431 1.358 1.349 1.451 1.420 1.200 1.369 1.512 1.443  1.394    6.01
53)  tert-amyl methyl ether
```

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      0.959 0.918 0.874 0.875 0.893 0.932 0.801 0.891 1.013 1.056  0.921    8.00
54)  n-butyl alcohol
      0.011 0.011       0.012 0.012 0.011 0.012 0.012 0.013        0.012    4.46
55)  benzene
      1.187 1.163 1.109 1.108 1.127 1.161 1.004 1.118 1.218 1.170  1.136    5.18
56)  heptane
      0.273 0.263 0.258 0.258 0.284 0.258 0.243 0.247 0.290 0.313  0.269    7.99
57)  isopropyl acetate
      0.071 0.069       0.066 0.069 0.051 0.068 0.065 0.068        0.066    9.55
58)  1,2-dichloroethane
      0.499 0.461 0.547 0.451 0.461 0.526 0.425 0.448 0.529        0.483    8.91
59)  trichloroethene
      0.332 0.324 0.303 0.318 0.326 0.309 0.304 0.315 0.337 0.298  0.317    4.12
60)  ethyl acrylate
      0.523 0.497       0.502 0.502 0.521 0.463 0.495 0.560        0.508    5.52
61)  2-nitropropane
      0.086 0.081       0.087 0.093 0.083 0.090 0.082 0.081        0.085    5.36
62)  2-chloroethyl vinyl ether *This compound fails Initial Calibration criteria*
      0.020 0.031       0.091 0.124       0.127 0.058 0.014        0.066   72.03
63)  methyl methacrylate
      0.086 0.083       0.082 0.086 0.069 0.083 0.084 0.080        0.082    6.54
64)  1,2-dichloropropane
      0.354 0.336 0.312 0.331 0.341 0.333 0.316 0.331 0.370 0.325  0.335    5.08
65)  methylcyclohexane
      0.514 0.531 0.509 0.509 0.553 0.528 0.490 0.510 0.554 0.556  0.526    4.35
66)  dibromomethane
      0.195 0.183 0.184 0.185 0.193 0.184 0.182 0.177 0.203 0.138  0.182    9.52
67)  bromodichloromethane
      0.428 0.402 0.378 0.407 0.422 0.412 0.388 0.405 0.449 0.440  0.413    5.35
68)  epichlorohydrin
      0.039 0.038 0.032 0.038 0.039 0.039 0.037 0.036 0.041        0.038    6.65
69)  cis-1,3-dichloropropene
      0.514 0.492 0.472 0.491 0.503 0.483 0.463 0.482 0.525 0.484  0.491    3.82
70)  4-methyl-2-pentanone
      0.155 0.149 0.137 0.146 0.146 0.134 0.133 0.143 0.163 0.123  0.143    8.07
71)  3-methyl-1-butanol
      0.009 0.009       0.009 0.009 0.007 0.009 0.009 0.009        0.009    8.31

72) I   chlorobenzene-d5      ----------------ISTD---------------------
73)  toluene-d8 (s)
      1.259 1.264 1.270 1.274 1.286 1.261 1.304 1.269 1.272 1.260  1.272    1.08
74)  toluene
      0.815 0.797 0.762 0.783 0.799 0.809 0.735 0.772 0.831 0.797  0.790    3.54
75)  trans-1,3-dichloropropene
      0.499 0.493 0.471 0.509 0.523 0.503 0.485 0.495 0.527 0.458  0.496    4.30
76)  ethyl methacrylate
      0.458 0.443 0.369 0.453 0.464 0.401 0.432 0.447 0.486 0.370  0.432    9.17
77)  1,1,2-trichloroethane
      0.264 0.258 0.244 0.260 0.264 0.261 0.248 0.250 0.285 0.209  0.254    7.67
78)  2-hexanone
      0.185 0.183 0.156 0.181 0.180 0.173 0.162 0.180 0.197        0.178    7.01
79)  tetrachloroethene
      0.419 0.410 0.390 0.391 0.404 0.428 0.374 0.395 0.462 0.474  0.415    7.78
80)  1,3-dichloropropane
      0.499 0.487 0.413 0.484 0.498 0.477 0.463 0.477 0.537 0.474  0.481    6.52
81)  butyl acetate
      0.286 0.287 0.287 0.290 0.300 0.292 0.285 0.278 0.301 0.247  0.285    5.33
82)  dibromochloromethane
      0.362 0.352 0.336 0.376 0.396 0.328 0.374 0.359 0.377 0.417  0.368    7.29
83)  1,2-dibromoethane
```

```
      0.340 0.322 0.323 0.325 0.335 0.334 0.315 0.316 0.341 0.271  0.322    6.31
 84)  n-butyl ether
      1.724 1.703 1.602 1.632 1.602 1.597 1.353 1.660 1.786 1.848  1.651    8.12
 85)  chlorobenzene
      0.920 0.902 0.832 0.879 0.896 0.879 0.802 0.879 0.937 0.890  0.882    4.48
 86)  1,1,1,2-tetrachloroethane
      0.339 0.336 0.301 0.341 0.360 0.334 0.331 0.337 0.364 0.314  0.336    5.57
 87)  ethylbenzene
      1.503 1.466 1.458 1.407 1.382 1.479 1.168 1.443 1.577 1.596  1.448    8.23
 88)  m,p-xylene
      0.574 0.572 0.545 0.562 0.574 0.548 0.519 0.563 0.602 0.579  0.564    4.02
 89)  o-xylene
      1.195 1.171 1.119 1.124 1.114 1.175 0.968 1.147 1.249 1.169  1.143    6.44
 90)  styrene
      0.950 0.914 0.814 0.924 0.931 0.866 0.823 0.920 0.934 0.782  0.886    6.75
 91)  n-amyl acetate
      0.220 0.223       0.235 0.244 0.180 0.236 0.225 0.217        0.223    8.72
 92)  bromoform
      0.246 0.246 0.219 0.269 0.284 0.223 0.272 0.248 0.250 0.244  0.250    8.14
 93)  butyl acrylate
      0.825 0.829       0.870 0.866 0.675 0.774 0.851 0.830        0.815    7.83
 94)  isopropylbenzene
      1.459 1.418 1.413 1.375 1.389 1.443 1.179 1.411 1.534 1.579  1.420    7.48
 95)  cis-1,4-dichloro-2-butene
      0.100 0.110       0.136 0.151       0.147 0.120              0.127   16.03

 96) I   1,4-dichlorobenzene-d ----------------ISTD---------------------
 97)  4-bromofluorobenzene (s)
      0.947 0.942 0.953 0.939 0.941 0.952 0.944 0.937 0.939 0.959  0.945    0.76
 98)  bromobenzene
      0.838 0.802 0.754 0.787 0.807 0.795 0.730 0.789 0.879 0.904  0.808    6.55
 99)  1,1,2,2-tetrachloroethane
      0.764 0.747 0.781 0.744 0.752 0.748 0.685 0.723 0.825 0.748  0.752    4.83
100)  trans-1,4-dichloro-2-butene
      0.183 0.198       0.237 0.259       0.245 0.211 0.178        0.216   14.69
101)  1,2,3-trichloropropane
      0.209 0.197 0.172 0.195 0.199 0.191 0.190 0.191 0.208        0.195    5.65
102)  n-propylbenzene
      3.420 3.358 3.155 3.130 3.116 3.385 2.522 3.236 3.552 3.489  3.236    9.08
103)  2-chlorotoluene
      0.743 0.721 0.681 0.709 0.744 0.718 0.671 0.711 0.756 0.709  0.716    3.74
104)  4-chlorotoluene
      2.159 2.053 2.021 1.943 1.958 2.089 1.688 1.958 2.177 2.121  2.017    7.09
105)  1,3,5-trimethylbenzene
      2.311 2.301 2.246 2.180 2.229 2.267 1.858 2.200 2.351 2.350  2.229    6.41
106)  tert-butylbenzene
      2.042 2.038 1.914 1.959 2.055 2.040 1.723 1.997 2.150 1.977  1.990    5.70
107)  1,2,4-trimethylbenzene
      2.343 2.336 2.181 2.206 2.239 2.238 1.877 2.243 2.429 2.225  2.232    6.53
108)  sec-butylbenzene
      3.015 2.987 2.886 2.799 2.905 2.924 2.318 2.859 3.014 3.074  2.878    7.42
109)  1,3-dichlorobenzene
      1.500 1.481 1.383 1.397 1.441 1.508 1.251 1.425 1.561 1.587  1.453    6.69
110)  p-isopropyltoluene
      2.546 2.532 2.331 2.471 2.564 2.471 2.064 2.512 2.671 2.304  2.447    7.04
111)  benzyl chloride
      1.125 1.159       1.298 1.335 0.928 1.198 1.216 1.114        1.171   10.71
112)  1,2,3-trimethylbenzene
      2.364 2.345 2.307 2.212 2.231 2.314 1.834 2.256 2.470 2.418  2.275    7.68
113)  1,4-dichlorobenzene
```

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       1.506 1.459 1.437 1.411 1.441 1.476 1.230 1.415 1.581 1.643  1.460    7.53
114)  1,2-dichlorobenzene
       1.452 1.408 1.366 1.367 1.398 1.340 1.209 1.387 1.510 1.477  1.391    5.98
115)  n-butylbenzene
       1.206 1.217 1.131 1.221 1.339 1.131 1.101 1.224 1.220 1.196  1.199    5.57
116)  1,2-dibromo-3-chloropropane
       0.152 0.147       0.163 0.175 0.134 0.161 0.156 0.151        0.155    7.79
117)  1,3,5-trichlorobenzene
       1.069 1.089 0.970 1.081 1.169 1.037 0.949 1.082 1.134 1.017  1.060    6.45
118)  1,2,4-trichlorobenzene
       0.850 0.894 0.742 0.925 0.996 0.822 0.817 0.888 0.866 0.748  0.855    9.07
119)  hexachlorobutadiene
       0.446 0.459 0.420 0.460 0.513 0.427 0.416 0.442 0.460 0.520  0.456    7.81
120)  naphthalene
       1.557 1.607       1.717 1.794 1.309 1.502 1.618 1.524        1.578    9.27
121)  1,2,3-trichlorobenzene
       0.691 0.701 0.612 0.747 0.810 0.608 0.666 0.714 0.673 0.671  0.689    8.68
122)  hexachloroethane
       0.305 0.325       0.389 0.456       0.406 0.346 0.256        0.355   19.02
123)  2-methylnaphthalene
             0.347       0.426 0.516       0.470 0.346              0.421   17.82
 ----------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

           M2A9596.M         Fri Oct 14 18:47:58 2022   MS2A
```

Initial Calibration Verification

Job Number: JD54302 **Sample:** V2A9596-ICV9596
Account: ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2A220748.D
Project: EPT, Ithaca, NY

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\V2A9596\2A220748.D Vial: 14
Acq On : 13 Oct 2022 11:54 pm Operator: PrashanS
Sample : ICV9596-50 Inst : GCMS2A
Misc : MS62754,V2A9596,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M2A9596.M (RTE Integrator)
Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 09:22:42 2022
Last Update : Fri Oct 14 09:22:42 2022
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	tert butyl alcohol-d9	1.000	1.000	0.0	104	-0.01	7.24
2	ethanol	0.101	0.099	2.0	105	0.00	5.97
3	tertiary butyl alcohol	1.280	1.288	-0.6	107	0.00	7.36
4	1,4-dioxane	0.075	0.079	-5.3	105	0.00	11.08
5 I	pentafluorobenzene	1.000	1.000	0.0	106	0.00	9.51
6	chlorodifluoromethane		----------NA----------				
7	dichlorodifluoromethane	0.527	0.524	0.6	105	-0.01	3.95
8	chloromethane	0.786	0.662	15.8	94	-0.01	4.34
9	vinyl chloride	0.601	0.586	2.5	103	-0.01	4.56
10	1,3-butadiene	0.457	0.688	-50.5#	166	0.00	4.62
11	bromomethane	0.368	0.356	3.3	108	-0.01	5.19
12	chloroethane	0.322	0.329	-2.2	108	0.00	5.35
13	trichlorofluoromethane	0.647	0.651	-0.6	104	-0.02	5.78
14	ethyl ether	0.225	0.237	-5.3	112	0.00	6.19
15	acrolein	0.097	0.089	8.2	102	0.00	6.41
16	freon 113	0.352	0.342	2.8	104	0.00	6.61
17	1,1-dichloroethene	0.368	0.366	0.5	111	0.00	6.60
18	acetone	0.269	0.206	23.4	87	0.00	6.60
19	acetonitrile		----------NA----------				
20	iodomethane	0.701	0.724	-3.3	109	0.00	6.84
21	carbon disulfide	1.269	1.300	-2.4	115	0.00	6.98
22	methylene chloride	0.410	0.414	-1.0	111	0.00	7.30
23	methyl acetate	0.444	0.472	-6.3	120	0.00	7.06
24	methyl tert butyl ether	1.158	1.174	-1.4	112	0.00	7.65
25	trans-1,2-dichloroethene	0.414	0.406	1.9	110	0.00	7.68
26	hexane	0.824	0.757	8.1	100	0.00	8.04
27	di-isopropyl ether	1.788	1.710	4.4	107	0.00	8.25
28	ethyl tert-butyl ether	1.546	1.506	2.6	107	0.00	8.71
29	2-butanone	0.057	0.054	5.3	99	0.00	8.90
30	1,1-dichloroethane	0.800	0.808	-1.0	109	0.00	8.26
31	chloroprene	0.761	0.816	-7.2	114	0.00	8.36
32	acrylonitrile		----------NA----------				
33	vinyl acetate	0.061	0.042	31.1#	72	0.00	8.19
34	ethyl acetate	0.086	0.085	1.2	108	0.00	8.92
35	2,2-dichloropropane	0.602	0.550	8.6	103	0.00	9.00
36	cis-1,2-dichloroethene	0.446	0.439	1.6	108	0.00	8.97
37	propionitrile	0.072	0.067	6.9	98	0.00	8.98
38	bromochloromethane	0.285	0.296	-3.9	109	0.00	9.26
39	tetrahydrofuran	0.169	0.166	1.8	108	0.00	9.28
40	chloroform	0.760	0.772	-1.6	114	0.00	9.35
41	tert-butyl formate	0.302	0.153	49.3#	55	0.00	9.38

Initial Calibration Verification

Job Number: JD54302 **Sample:** V2A9596-ICV9596
Account: ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2A220748.D
Project: EPT, Ithaca, NY

42		isobutyl alcohol	0.027	0.027	0.0	99	0.00	9.74
43	S	dibromofluoromethane (s)	0.441	0.437	0.9	105	0.00	9.54
44		methacrylonitrile	0.176	0.185	-5.1	110	0.00	9.17
45		1,1,1-trichloroethane	0.650	0.665	-2.3	110	0.00	9.60
46		cyclohexane	0.622	0.625	-0.5	109	0.00	9.71
47		1,1-dichloropropene	0.553	0.569	-2.9	109	0.00	9.77
48		tert-amyl alcohol	0.028	0.027	3.6	104	0.00	9.90
49		carbon tetrachloride	0.564	0.598	-6.0	111	0.00	9.80
50	I	1,4-difluorobenzene	1.000	1.000	0.0	104	0.00	10.43
51	S	1,2-dichloroethane-d4 (s)	0.393	0.389	1.0	105	0.00	9.95
52		2,2,4-trimethylpentane	1.394	1.337	4.1	103	0.00	10.12
53		tert-amyl methyl ether	0.921	0.882	4.2	105	0.00	10.10
54		n-butyl alcohol	0.012	0.012	0.0	102	0.00	10.49
55		benzene	1.136	1.162	-2.3	109	0.00	10.02
56		heptane	0.269	0.290	-7.8	117	0.00	10.28
57		isopropyl acetate	0.066	0.070	-6.1	110	0.00	9.94
58		1,2-dichloroethane	0.483	0.470	2.7	109	0.00	10.04
59		trichloroethene	0.317	0.342	-7.9	112	0.00	10.74
60		ethyl acrylate	0.508	0.486	4.3	101	0.00	10.73
61		2-nitropropane	0.085	0.091	-7.1	109	0.00	11.50
62		2-chloroethyl vinyl ether	0.066	0.095	-43.9#	109	0.00	11.53
63		methyl methacrylate	0.082	0.090	-9.8	114	0.00	11.00
64		1,2-dichloropropane	0.335	0.345	-3.0	108	0.00	11.03
65		methylcyclohexane	0.526	0.541	-2.9	111	0.00	11.04
66		dibromomethane	0.182	0.192	-5.5	108	0.00	11.14
67		bromodichloromethane	0.413	0.427	-3.4	109	0.00	11.29
68		epichlorohydrin	0.038	0.036	5.3	99	0.00	11.62
69		cis-1,3-dichloropropene	0.491	0.498	-1.4	106	0.00	11.75
70		4-methyl-2-pentanone	0.143	0.149	-4.2	107	0.00	11.86
71		3-methyl-1-butanol	0.009	0.009	0.0	105	0.00	11.86
72	I	chlorobenzene-d5	1.000	1.000	0.0	105	0.00	13.56
73	S	toluene-d8 (s)	1.272	1.277	-0.4	105	0.00	12.06
74		toluene	0.790	0.806	-2.0	108	0.00	12.13
75		trans-1,3-dichloropropene	0.496	0.522	-5.2	107	0.00	12.32
76		ethyl methacrylate	0.432	0.444	-2.8	103	0.00	12.32
77		1,1,2-trichloroethane	0.254	0.266	-4.7	107	0.00	12.54
78		2-hexanone	0.178	0.172	3.4	100	0.00	12.70
79		tetrachloroethene	----------NA----------					
80		1,3-dichloropropane	0.481	0.505	-5.0	109	0.00	12.72
81		butyl acetate	0.285	0.298	-4.6	108	0.00	12.79
82		dibromochloromethane	0.368	0.395	-7.3	110	0.00	12.96
83		1,2-dibromoethane	0.322	0.340	-5.6	110	0.00	13.11
84		n-butyl ether	1.651	1.616	2.1	104	0.00	13.56
85		chlorobenzene	0.882	0.920	-4.3	110	0.00	13.59
86		1,1,1,2-tetrachloroethane	0.336	0.356	-6.0	109	0.00	13.66
87		ethylbenzene	1.448	1.463	-1.0	109	0.00	13.66
88		m,p-xylene	0.564	0.592	-5.0	110	0.00	13.78
89		o-xylene	1.143	1.162	-1.7	108	0.00	14.18
90		styrene	0.886	0.958	-8.1	109	0.00	14.19
91		n-amyl acetate	0.223	0.238	-6.7	106	0.00	14.22
92		bromoform	0.250	0.278	-11.2	108	0.00	14.41
93		butyl acrylate	0.815	0.858	-5.3	103	0.00	14.01
94		isopropylbenzene	1.420	1.425	-0.4	108	0.00	14.52
95		cis-1,4-dichloro-2-butene	0.127	0.127	0.0	98	0.00	14.56
96	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	105	0.00	15.89
97	S	4-bromofluorobenzene (s)	0.945	0.935	1.1	105	0.00	14.72
98		bromobenzene	0.808	0.812	-0.5	109	0.00	14.90

Initial Calibration Verification

Job Number: JD54302 **Sample:** V2A9596-ICV9596
Account: ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2A220748.D
Project: EPT, Ithaca, NY

99	1,1,2,2-tetrachloroethane	0.752	0.724	3.7	103	0.00	14.80
100	trans-1,4-dichloro-2-bute	0.216	0.245	-13.4	109	0.00	14.84
101	1,2,3-trichloropropane	0.195	0.204	-4.6	110	0.00	14.88
102	n-propylbenzene	3.236	3.212	0.7	108	0.00	14.94
103	2-chlorotoluene	0.716	0.742	-3.6	110	0.00	15.07
104	4-chlorotoluene	2.017	2.009	0.4	109	0.00	15.18
105	1,3,5-trimethylbenzene	2.229	2.234	-0.2	108	0.00	15.09
106	tert-butylbenzene	1.990	2.013	-1.2	108	0.00	15.43
107	1,2,4-trimethylbenzene	2.232	2.259	-1.2	108	0.00	15.48
108	sec-butylbenzene	2.878	2.862	0.6	108	0.00	15.65
109	1,3-dichlorobenzene	1.453	1.443	0.7	109	0.00	15.82
110	p-isopropyltoluene	2.447	2.523	-3.1	108	0.00	15.78
111	benzyl chloride	1.171	1.161	0.9	94	0.00	16.01
112	1,2,3-trimethylbenzene		----------NA----------				
113	1,4-dichlorobenzene	1.460	1.467	-0.5	110	0.00	15.91
114	1,2-dichlorobenzene	1.391	1.396	-0.4	108	0.00	16.28
115	n-butylbenzene	1.199	1.242	-3.6	107	0.00	16.20
116	1,2-dibromo-3-chloropropa	0.155	0.167	-7.7	108	0.00	17.05
117	1,3,5-trichlorobenzene	1.060	1.091	-2.9	106	0.00	17.24
118	1,2,4-trichlorobenzene	0.855	0.918	-7.4	105	0.00	17.88
119	hexachlorobutadiene	0.456	0.455	0.2	104	0.00	18.00
120	naphthalene	1.578	1.675	-6.1	103	0.00	18.17
121	1,2,3-trichlorobenzene	0.689	0.734	-6.5	104	0.00	18.40
122	hexachloroethane	0.355	0.403	-13.5	109	0.00	16.57
123	2-methylnaphthalene	0.421	0.362	14.0	90	0.00	19.40

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2A220743.D M2A9596.M Fri Oct 14 18:47:36 2022 MS2A

Initial Calibration Verification

Job Number: JD54302 **Sample:** V2A9596-ICV9596
Account: ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2A220749.D
Project: EPT, Ithaca, NY

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\V2A9596\2A220749.D Vial: 15
Acq On : 14 Oct 2022 12:22 am Operator: PrashanS
Sample : ICV9596-50 Inst : GCMS2A
Misc : MS62754,V2A9596,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M2A9596.M (RTE Integrator)
Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 09:22:42 2022
Last Update : Fri Oct 14 09:22:42 2022
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	tert butyl alcohol-d9	1.000	1.000	0.0	101	0.00	7.25
2	ethanol		----------NA----------				
3	tertiary butyl alcohol		----------NA----------				
4	1,4-dioxane		----------NA----------				
5 I	pentafluorobenzene	1.000	1.000	0.0	104	0.00	9.51
6	chlorodifluoromethane	0.694	0.688	0.9	105	0.00	3.99
7	dichlorodifluoromethane		----------NA----------				
8	chloromethane		----------NA----------				
9	vinyl chloride		----------NA----------				
10	1,3-butadiene		----------NA----------				
11	bromomethane		----------NA----------				
12	chloroethane		----------NA----------				
13	trichlorofluoromethane		----------NA----------				
14	ethyl ether		----------NA----------				
15	acrolein		----------NA----------				
16	freon 113		----------NA----------				
17	1,1-dichloroethene		----------NA----------				
18	acetone		----------NA----------				
19	acetonitrile	0.067	0.059	11.9	95	0.00	7.01
20	iodomethane		----------NA----------				
21	carbon disulfide		----------NA----------				
22	methylene chloride		----------NA----------				
23	methyl acetate		----------NA----------				
24	methyl tert butyl ether		----------NA----------				
25	trans-1,2-dichloroethene		----------NA----------				
26	hexane		----------NA----------				
27	di-isopropyl ether		----------NA----------				
28	ethyl tert-butyl ether		----------NA----------				
29	2-butanone		----------NA----------				
30	1,1-dichloroethane		----------NA----------				
31	chloroprene		----------NA----------				
32	acrylonitrile	0.191	0.160	16.2	84	0.00	7.59
33	vinyl acetate		----------NA----------				
34	ethyl acetate		----------NA----------				
35	2,2-dichloropropane		----------NA----------				
36	cis-1,2-dichloroethene		----------NA----------				
37	propionitrile		----------NA----------				
38	bromochloromethane		----------NA----------				
39	tetrahydrofuran		----------NA----------				
40	chloroform		----------NA----------				
41	tert-butyl formate		----------NA----------				

Initial Calibration Verification

Job Number: JD54302 **Sample:** V2A9596-ICV9596
Account: ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2A220749.D
Project: EPT, Ithaca, NY

42		isobutyl alcohol		----------NA----------					
43	S	dibromofluoromethane (s)	0.441	0.438	0.7	103	0.00	9.54	
44		methacrylonitrile		----------NA----------					
45		1,1,1-trichloroethane		----------NA----------					
46		cyclohexane		----------NA----------					
47		1,1-dichloropropene		----------NA----------					
48		tert-amyl alcohol		----------NA----------					
49		carbon tetrachloride		----------NA----------					
50	I	1,4-difluorobenzene	1.000	1.000	0.0	102	0.00	10.43	
51	S	1,2-dichloroethane-d4 (s)	0.393	0.399	-1.5	105	0.00	9.95	
52		2,2,4-trimethylpentane		----------NA----------					
53		tert-amyl methyl ether		----------NA----------					
54		n-butyl alcohol		----------NA----------					
55		benzene		----------NA----------					
56		heptane		----------NA----------					
57		isopropyl acetate		----------NA----------					
58		1,2-dichloroethane		----------NA----------					
59		trichloroethene		----------NA----------					
60		ethyl acrylate		----------NA----------					
61		2-nitropropane		----------NA----------					
62		2-chloroethyl vinyl ether		----------NA----------					
63		methyl methacrylate		----------NA----------					
64		1,2-dichloropropane		----------NA----------					
65		methylcyclohexane		----------NA----------					
66		dibromomethane		----------NA----------					
67		bromodichloromethane		----------NA----------					
68		epichlorohydrin		----------NA----------					
69		cis-1,3-dichloropropene		----------NA----------					
70		4-methyl-2-pentanone		----------NA----------					
71		3-methyl-1-butanol		----------NA----------					
72	I	chlorobenzene-d5	1.000	1.000	0.0	104	0.00	13.56	
73	S	toluene-d8 (s)	1.272	1.253	1.5	103	0.00	12.06	
74		toluene		----------NA----------					
75		trans-1,3-dichloropropene		----------NA----------					
76		ethyl methacrylate		----------NA----------					
77		1,1,2-trichloroethane		----------NA----------					
78		2-hexanone		----------NA----------					
79		tetrachloroethene	0.415	0.371	10.6	99	0.00	12.68	
80		1,3-dichloropropane		----------NA----------					
81		butyl acetate		----------NA----------					
82		dibromochloromethane		----------NA----------					
83		1,2-dibromoethane		----------NA----------					
84		n-butyl ether		----------NA----------					
85		chlorobenzene		----------NA----------					
86		1,1,1,2-tetrachloroethane		----------NA----------					
87		ethylbenzene		----------NA----------					
88		m,p-xylene		----------NA----------					
89		o-xylene		----------NA----------					
90		styrene		----------NA----------					
91		n-amyl acetate		----------NA----------					
92		bromoform		----------NA----------					
93		butyl acrylate		----------NA----------					
94		isopropylbenzene		----------NA----------					
95		cis-1,4-dichloro-2-butene		----------NA----------					
96	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	102	0.00	15.89	
97	S	4-bromofluorobenzene (s)	0.945	0.958	-1.4	104	0.00	14.72	
98		bromobenzene		----------NA----------					

Initial Calibration Verification

Job Number: JD54302 **Sample:** V2A9596-ICV9596
Account: ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2A220749.D
Project: EPT, Ithaca, NY

99	1,1,2,2-tetrachloroethane		----------NA----------				
100	trans-1,4-dichloro-2-bute		----------NA----------				
101	1,2,3-trichloropropane		----------NA----------				
102	n-propylbenzene		----------NA----------				
103	2-chlorotoluene		----------NA----------				
104	4-chlorotoluene		----------NA----------				
105	1,3,5-trimethylbenzene		----------NA----------				
106	tert-butylbenzene		----------NA----------				
107	1,2,4-trimethylbenzene		----------NA----------				
108	sec-butylbenzene		----------NA----------				
109	1,3-dichlorobenzene		----------NA----------				
110	p-isopropyltoluene		----------NA----------				
111	benzyl chloride		----------NA----------				
112	1,2,3-trimethylbenzene	2.275	2.370	-4.2	110	0.00	15.91
113	1,4-dichlorobenzene		----------NA----------				
114	1,2-dichlorobenzene		----------NA----------				
115	n-butylbenzene		----------NA----------				
116	1,2-dibromo-3-chloropropa		----------NA----------				
117	1,3,5-trichlorobenzene		----------NA----------				
118	1,2,4-trichlorobenzene		----------NA----------				
119	hexachlorobutadiene		----------NA----------				
120	naphthalene		----------NA----------				
121	1,2,3-trichlorobenzene		----------NA----------				
122	hexachloroethane		----------NA----------				
123	2-methylnaphthalene		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2A220743.D M2A9596.M Fri Oct 14 18:47:37 2022 MS2A

Continuing Calibration Summary

Job Number: JD54302 **Sample:** V2A9619-CC9596
Account: ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2A221287.D
Project: EPT, Ithaca, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\ne...22\v2a9619\2a221287.d Vial: 29
Acq On : 27 Oct 2022 10:49 pm Operator: nickw
Sample : cc9596-50 Inst : GCMS2A
Misc : MS63376,V2A9619,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M2A9596.M (RTE Integrator)
Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 09:22:42 2022
Last Update : Mon Sep 13 11:48:20 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	tert butyl alcohol-d9	1.000	1.000	0.0	91	0.00	7.25
2	ethanol	0.101	0.091	9.9	85	0.00	5.97
3	tertiary butyl alcohol	1.280	1.157	9.6	84	0.00	7.36
4	1,4-dioxane	0.075	0.079	-5.3	91	0.00	11.08
5 I	pentafluorobenzene	1.000	1.000	0.0	101	0.00	9.51
6	chlorodifluoromethane	0.694	0.508	26.8#	75	-0.01	3.98
7	dichlorodifluoromethane	0.527	0.493	6.5	94	0.00	3.96
8	chloromethane	0.786	0.399	49.2#	54	0.00	4.35
9	vinyl chloride	0.601	0.345	42.6#	58	0.00	4.57
10	1,3-butadiene	0.457	0.218	52.3#	50	0.00	4.62
11	bromomethane	0.368	0.309	16.0	89	-0.01	5.19
12	chloroethane	0.322	0.273	15.2	86	0.00	5.36
13	trichlorofluoromethane	0.647	0.595	8.0	91	-0.01	5.78
14	ethyl ether	0.225	0.199	11.6	90	0.00	6.19
15	acrolein	0.097	0.081	16.5	89	0.00	6.41
16	freon 113	0.352	0.309	12.2	89	0.00	6.61
17	1,1-dichloroethene	0.368	0.308	16.3	89	0.00	6.60
18	acetone	0.269	0.138	48.7#	56	0.00	6.60
19	acetonitrile	0.067	0.058	13.4	92	0.00	7.01
20	iodomethane	0.701	0.666	5.0	96	0.00	6.84
21	carbon disulfide	1.269	1.010	20.4#	85	0.00	6.98
22	methylene chloride	0.410	0.360	12.2	92	0.00	7.30
23	methyl acetate	0.444	0.350	21.2#	85	0.00	7.06
24	methyl tert butyl ether	1.158	1.013	12.5	92	0.00	7.65
25	trans-1,2-dichloroethene	0.414	0.347	16.2	90	0.00	7.68
26	hexane	0.824	0.593	28.0#	75	0.00	8.04
27	di-isopropyl ether	1.788	1.410	21.1#	84	0.00	8.25
28	ethyl tert-butyl ether	1.546	1.319	14.7	89	0.00	8.71
29	2-butanone	0.057	0.045	21.1#	79	0.00	8.90
30	1,1-dichloroethane	0.800	0.671	16.1	87	0.00	8.26
31	chloroprene	0.761	0.604	20.6#	81	0.00	8.36
32	acrylonitrile		----------NA----------				
33	vinyl acetate	0.061	0.072	-18.0	118	0.00	8.19
34	ethyl acetate	0.086	0.074	14.0	90	0.00	8.92
35	2,2-dichloropropane	0.602	0.444	26.2#	79	0.00	9.00
36	cis-1,2-dichloroethene	0.446	0.392	12.1	92	0.00	8.97
37	propionitrile	0.072	0.066	8.3	93	0.00	8.98
38	bromochloromethane	0.285	0.275	3.5	97	0.00	9.26
39	tetrahydrofuran	0.169	0.144	14.8	89	0.00	9.28
40	chloroform	0.760	0.633	16.7	89	0.00	9.35
41	tert-butyl formate	0.302	0.335	-10.9	116	0.00	9.38

Continuing Calibration Summary

Job Number: JD54302 **Sample:** V2A9619-CC9596
Account: ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2A221287.D
Project: EPT, Ithaca, NY

42		isobutyl alcohol	0.027	0.021	22.2#	76	0.00	9.75
43	S	dibromofluoromethane (s)	0.441	0.437	0.9	100	0.00	9.54
44		methacrylonitrile	0.176	0.170	3.4	96	0.00	9.17
45		1,1,1-trichloroethane	0.650	0.568	12.6	90	0.00	9.61
46		cyclohexane	0.622	0.513	17.5	85	0.00	9.72
47		1,1-dichloropropene	0.553	0.462	16.5	85	0.00	9.77
48		tert-amyl alcohol	0.028	0.024	14.3	89	0.00	9.90
49		carbon tetrachloride	0.564	0.514	8.9	91	0.00	9.80
50	I	1,4-difluorobenzene	1.000	1.000	0.0	100	0.00	10.43
51	S	1,2-dichloroethane-d4 (s)	0.393	0.347	11.7	90	0.00	9.95
52		2,2,4-trimethylpentane	1.394	1.094	21.5#	81	0.00	10.11
53		tert-amyl methyl ether	0.921	0.805	12.6	92	0.00	10.10
54		n-butyl alcohol	0.012	0.011	8.3	88	0.00	10.49
55		benzene	1.136	0.979	13.8	88	0.00	10.02
56		heptane	0.269	0.224	16.7	87	0.00	10.28
57		isopropyl acetate	0.066	0.062	6.1	94	0.00	9.94
58		1,2-dichloroethane	0.483	0.379	21.5#	84	0.00	10.04
59		trichloroethene	0.317	0.279	12.0	88	0.00	10.74
60		ethyl acrylate	0.508	0.457	10.0	91	0.00	10.73
61		2-nitropropane	0.085	0.071	16.5	81	0.00	11.50
62		2-chloroethyl vinyl ether	0.066	0.125	-89.4#	137	0.00	11.53
63		methyl methacrylate	0.082	0.081	1.2	98	0.00	11.00
64		1,2-dichloropropane	0.335	0.293	12.5	88	0.00	11.03
65		methylcyclohexane	0.526	0.417	20.7#	82	0.00	11.04
66		dibromomethane	0.182	0.172	5.5	93	0.00	11.14
67		bromodichloromethane	0.413	0.368	10.9	90	0.00	11.29
68		epichlorohydrin	0.038	0.033	13.2	87	0.00	11.62
69		cis-1,3-dichloropropene	0.491	0.416	15.3	85	0.00	11.75
70		4-methyl-2-pentanone	0.143	0.129	9.8	88	0.00	11.86
71		3-methyl-1-butanol	0.009	0.008	11.1	83	0.00	11.86
72	I	chlorobenzene-d5	1.000	1.000	0.0	93	0.00	13.56
73	S	toluene-d8 (s)	1.272	1.267	0.4	93	0.00	12.06
74		toluene	0.790	0.710	10.1	84	0.00	12.13
75		trans-1,3-dichloropropene	0.496	0.458	7.7	84	0.00	12.32
76		ethyl methacrylate	0.432	0.414	4.2	85	0.00	12.31
77		1,1,2-trichloroethane	0.254	0.247	2.8	88	0.00	12.54
78		2-hexanone	0.178	0.150	15.7	77	0.00	12.70
79		tetrachloroethene	0.415	0.392	5.5	93	0.00	12.68
80		1,3-dichloropropane	0.481	0.442	8.1	85	0.00	12.72
81		butyl acetate	0.285	0.264	7.4	85	0.00	12.79
82		dibromochloromethane	0.368	0.390	-6.0	97	0.00	12.96
83		1,2-dibromoethane	0.322	0.334	-3.7	96	0.00	13.11
84		n-butyl ether	1.651	1.321	20.0	75	0.00	13.56
85		chlorobenzene	0.882	0.817	7.4	87	0.00	13.59
86		1,1,1,2-tetrachloroethane	0.336	0.341	-1.5	93	0.00	13.66
87		ethylbenzene	1.448	1.249	13.7	83	0.00	13.65
88		m,p-xylene	0.564	0.500	11.3	83	0.00	13.77
89		o-xylene	1.143	1.000	12.5	83	0.00	14.17
90		styrene	0.886	0.818	7.7	83	0.00	14.19
91		n-amyl acetate	0.223	0.197	11.7	78	0.00	14.22
92		bromoform	0.250	0.289	-15.6	100	0.00	14.41
93		butyl acrylate	0.815	0.733	10.1	79	0.00	14.01
94		isopropylbenzene	1.420	1.231	13.3	83	0.00	14.52
95		cis-1,4-dichloro-2-butene	0.127	0.125	1.6	86	0.00	14.56
96	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	93	0.00	15.89
97	S	4-bromofluorobenzene (s)	0.945	0.890	5.8	88	0.00	14.72
98		bromobenzene	0.808	0.772	4.5	91	0.00	14.90

Continuing Calibration Summary

Job Number: JD54302 **Sample:** V2A9619-CC9596
Account: ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2A221287.D
Project: EPT, Ithaca, NY

99	1,1,2,2-tetrachloroethane	0.752	0.713	5.2	89	0.00	14.80
100	trans-1,4-dichloro-2-bute	0.216	0.174	19.4	68	0.00	14.83
101	1,2,3-trichloropropane	0.195	0.200	-2.6	96	0.00	14.88
102	n-propylbenzene	3.236	2.684	17.1	80	0.00	14.94
103	2-chlorotoluene	0.716	0.665	7.1	87	0.00	15.07
104	4-chlorotoluene	2.017	1.722	14.6	82	0.00	15.18
105	1,3,5-trimethylbenzene	2.229	1.931	13.4	82	0.00	15.09
106	tert-butylbenzene	1.990	1.784	10.4	85	0.00	15.43
107	1,2,4-trimethylbenzene	2.232	1.955	12.4	82	0.00	15.48
108	sec-butylbenzene	2.878	2.409	16.3	80	0.00	15.65
109	1,3-dichlorobenzene	1.453	1.318	9.3	88	0.00	15.81
110	p-isopropyltoluene	2.447	2.207	9.8	83	0.00	15.78
111	benzyl chloride	1.171	1.067	8.9	76	0.00	16.00
112	1,2,3-trimethylbenzene	2.275	1.977	13.1	83	0.00	15.91
113	1,4-dichlorobenzene	1.460	1.318	9.7	87	0.00	15.91
114	1,2-dichlorobenzene	1.391	1.312	5.7	89	0.00	16.28
115	n-butylbenzene	1.199	1.018	15.1	77	0.00	16.19
116	1,2-dibromo-3-chloropropa	0.155	0.177	-14.2	101	0.00	17.05
117	1,3,5-trichlorobenzene	1.060	1.060	0.0	91	0.00	17.24
118	1,2,4-trichlorobenzene	0.855	0.911	-6.5	92	0.00	17.88
119	hexachlorobutadiene	0.456	0.452	0.9	91	0.00	18.00
120	naphthalene	1.578	1.737	-10.1	94	0.00	18.17
121	1,2,3-trichlorobenzene	0.689	0.728	-5.7	91	0.00	18.39
122	hexachloroethane	0.355	0.358	-0.8	85	0.00	16.57
123	2-methylnaphthalene	0.421	0.326	22.6#	71	0.00	19.40

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2A220743.D M2A9596.M Sat Oct 29 04:16:28 2022

Initial Calibration Summary

Job Number: JD54302 **Sample:** VL10548-ICC10548
Account: ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** L348715.D
Project: EPT, Ithaca, NY

Response Factor Report GCMSL

Method : C:\MSDCHEM\1\METHODS\ML10548.M (RTE Integrator)
Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
Last Update : Fri Oct 28 18:07:24 2022
Response via : Initial Calibration

Calibration Files
8 =L348713.D 0.5 =L348709.D 4 =L348712.D 50 =L348715.D
100 =L348716.D 1 =L348710.D 200 =L348717.D 20 =L348714.D
2 =L348711.D 0.2 =L348708.D = =

Compound	8	0.5	4	50	100	1	200	20	2	0.2	Avg	%RSD
1) I tert butyl alcohol-d9	----------ISTD----------											
2) 1,4-dioxane	0.095	0.095	0.100	0.093	0.107	0.100	0.095	0.108			0.099	5.86
3) ethanol	0.134	0.152	0.133	0.137	0.124	0.154	0.118	0.131	0.134		0.135	8.68
4) tertiary butyl alcohol	1.511	1.701	1.525	1.530	1.375	1.395	1.412	1.486	1.543		1.497	6.61
5) I pentafluorobenzene	----------ISTD----------											
6) chlorodifluoromethane	0.954	0.959	0.926	1.008	0.933	1.071	0.870	0.967	0.934	1.107	0.973	7.29
7) dichlorodifluoromethane	1.128	0.968	1.115	1.285	1.213	1.103	1.156	1.174	1.090		1.137	7.73
8) chloromethane	0.839	0.931	0.865	0.929	0.889	0.851	0.840	0.875	0.842		0.873	4.14
9) vinyl chloride	0.914	0.880	0.881	0.983	0.914	0.935	0.844	0.936	0.870	0.884	0.904	4.47
10) 1,3-butadiene	0.695	0.608	0.695	0.671	0.612	0.715	0.543	0.689	0.659		0.654	8.51
11) bromomethane	0.155		0.150	0.224	0.250			0.195	0.125		0.183	26.15
----- Linear regression ----- Coefficient = 0.9933												
Response Ratio = -0.00726 + 0.24088 *A												
12) chloroethane	0.452	0.510	0.454	0.489	0.450	0.500	0.397	0.481	0.482	0.474	0.469	6.92
13) trichlorofluoromethane	0.992	0.916	0.967	1.071	1.016	0.990	0.955	1.008	0.999	0.820	0.973	6.94
14) ethyl ether	0.390	0.493	0.406	0.411	0.382	0.391	0.364	0.400	0.424		0.407	9.06
15) acrolein	0.193		0.195	0.211	0.199			0.199	0.193	0.218	0.201	4.77
16) freon 113	0.450	0.495	0.481	0.474	0.442	0.478	0.415	0.479	0.461	0.452	0.463	5.08
17) 1,1-dichloroethene	0.553		0.567	0.544	0.493	0.576	0.465	0.557	0.595		0.544	7.97
18) acetone	0.134		0.134	0.136	0.125	0.158	0.118	0.136	0.133		0.134	8.35
19) acetonitrile	0.074		0.080	0.075	0.070			0.064	0.075	0.073	0.073	7.18
20) iodomethane	0.223		0.176	0.381	0.407			0.389	0.287	0.162	0.289	36.15
----- Linear regression ----- Coefficient = 0.9955												
Response Ratio = -0.01531 + 0.39418 *A												

21) iso-butyl alcohol
0.067 0.075 0.063 0.055 0.050 0.064 0.062 14.24
22) carbon disulfide
1.836 1.845 1.774 1.662 2.360 1.554 1.765 1.995 1.849 13.20
23) methylene chloride
0.602 0.679 0.582 0.618 0.570 0.640 0.553 0.600 0.667 0.612 7.00
24) methyl acetate
0.175 0.153 0.185 0.185 0.171 0.171 0.160 0.188 0.188 0.175 7.14
25) methyl tert butyl ether
1.914 1.988 1.868 1.885 1.684 1.980 1.545 1.960 1.990 1.592 1.841 9.23
26) trans-1,2-dichloroethene
0.570 0.592 0.564 0.523 0.690 0.486 0.580 0.583 0.574 10.26
27) hexane
1.044 1.251 1.042 1.051 0.998 1.073 0.924 1.028 1.146 1.062 8.69
28) di-isopropyl ether
2.188 2.236 2.070 1.847 1.631 2.178 2.349 2.071 12.03
29) ethyl tert-butyl ether
2.104 2.373 2.121 2.106 1.918 2.278 1.779 2.172 2.281 2.062 2.120 8.30
30) 2-butanone
0.137 0.172 0.136 0.146 0.138 0.145 0.131 0.149 0.146 0.132 0.143 8.27
31) 1,1-dichloroethane
1.187 1.132 1.094 0.988 1.192 0.896 1.122 1.162 1.097 9.46
32) chloroprene
1.011 1.015 0.973 0.915 1.093 0.853 0.996 1.062 0.990 7.78
33) acrylonitrile
0.413 0.399 0.381 0.434 0.420 0.435 0.398 0.415 0.406 0.411 4.26
34) vinyl acetate
0.158 0.149 0.149 0.167 0.148 0.142 0.150 0.169 0.177 0.157 7.48
35) ethyl acetate
0.185 0.201 0.168 0.156 0.146 0.173 0.200 0.175 12.00
36) 2,2-dichloropropane
0.911 0.907 0.832 0.753 1.007 0.703 0.891 1.012 0.877 12.56
37) cis-1,2-dichloroethene
0.662 0.643 0.607 0.544 0.636 0.522 0.622 0.715 0.619 10.06
38) propionitrile
0.166 0.172 0.153 0.140 0.123 0.160 0.152 11.94
39) methyl acrylate
0.156 0.149 0.139 0.136 0.155 0.125 0.141 0.172 0.147 9.96
40) bromochloromethane
0.281 0.272 0.282 0.276 0.257 0.256 0.248 0.281 0.304 0.273 6.27
41) tetrahydrofuran
0.155 0.174 0.165 0.161 0.149 0.154 0.146 0.163 0.169 0.160 5.77
42) chloroform
1.058 1.074 1.037 0.952 1.278 0.899 1.052 1.213 1.070 11.61
43) dibromofluoromethane (s)
0.409 0.406 0.404 0.435 0.432 0.401 0.444 0.423 0.406 0.402 0.416 3.78
44) methacrylonitrile
0.407 0.472 0.401 0.413 0.391 0.464 0.383 0.404 0.425 0.418 7.42
45) 1,1,1-trichloroethane
0.863 0.939 0.833 0.880 0.838 0.961 0.807 0.878 0.866 1.050 0.891 8.13
46) cyclohexane
0.964 0.965 0.918 0.883 1.011 0.823 0.945 0.934 0.930 6.14
47) 1,1-dichloropropene
0.845 0.811 0.811 0.781 0.731 0.978 0.688 0.805 0.813 0.807 9.94
48) carbon tetrachloride
0.725 0.764 0.710 0.697 0.639 0.775 0.604 0.720 0.753 0.710 7.97
49) isopropyl acetate
0.180 0.193 0.185 0.177 0.203 0.175 0.190 0.156 0.182 7.72
50) tert amyl alcohol

	0.064	0.060	0.060	0.055	0.048	0.062	0.079		0.061	15.25
51) I	1,4-difluorobenzene	----------	ISTD	----------						
52)	1,2-dichloroethane-d4 (s)									
	0.360	0.359	0.351	0.326	0.320	0.346	0.307	0.347	0.365	0.343	0.342	5.55
53)	tert-amyl methyl ether									
	1.372	1.330	1.224	1.092	0.975	1.293	1.478		1.252	13.70
54)	2,2,4-trimethylpentane									
	1.515	1.529	1.343	1.224	1.084	1.414	1.604		1.388	13.31
55)	n-butyl alcohol									
	0.028	0.030	0.028	0.025	0.022	0.028	0.030		0.027	11.06
56)	benzene									
	1.714	1.994	1.692	1.543	1.388	1.812	1.236	1.627	1.786		1.644	13.94
57)	heptane									
	0.326	0.376	0.323	0.319	0.314	0.365	0.283	0.311	0.341		0.329	8.64
58)	1,2-dichloroethane									
	0.561	0.553	0.516	0.469	0.643	0.437	0.542	0.595		0.539	12.22
59)	trichloroethene									
	0.403	0.484	0.413	0.414	0.394	0.458	0.369	0.415	0.401	0.480	0.423	9.01
60)	ethyl acrylate									
	0.858	0.837	0.808	0.720	0.656	0.825	0.884		0.798	10.17
61)	2-nitropropane									
	0.205	0.181	0.195	0.184	0.232	0.174	0.193	0.215		0.197	9.70
62)	2-chloroethyl vinyl ether									
	0.325	0.356	0.343	0.304	0.263	0.354	0.231	0.312	0.362	0.294	0.314	13.67
63)	methyl methacrylate									
	0.158	0.167	0.156	0.144	0.180	0.130	0.159	0.154		0.156	9.35
64)	1,2-dichloropropane									
	0.476	0.502	0.448	0.423	0.387	0.492	0.346	0.442	0.506	0.417	0.444	11.79
65)	methylcyclohexane									
	0.798	0.789	0.753	0.698	0.883	0.634	0.742	0.761		0.757	9.64
66)	dibromomethane									
	0.256	0.306	0.245	0.240	0.228	0.283	0.216	0.248	0.293		0.257	11.81
67)	bromodichloromethane									
	0.589	0.675	0.555	0.572	0.539	0.667	0.510	0.574	0.605	0.659	0.594	9.51
68)	cis-1,3-dichloropropene									
	0.751	0.853	0.702	0.702	0.652	0.698	0.610	0.723	0.780	0.661	0.713	9.70
69)	epichlorohydrin									
	0.091	0.092	0.085	0.081	0.099	0.075	0.087	0.095		0.088	9.04
70)	4-methyl-2-pentanone									
	0.305	0.307	0.276	0.243	0.329	0.215	0.286	0.331		0.286	14.30
71)	3-methyl-1-butanol									
	0.027	0.029	0.026	0.022	0.020	0.026	0.031		0.026	14.47
72) I	chlorobenzene-d5	----------	ISTD	----------						
73)	toluene-d8 (s)									
	1.370	1.366	1.384	1.246	1.239	1.388	1.215	1.297	1.350	1.384	1.324	5.15
74)	toluene									
	1.150	1.203	1.149	1.047	0.941	1.309	0.863	1.068	1.158	1.225	1.111	12.08
75)	trans-1,3-dichloropropene									
	0.732	0.691	0.677	0.624	0.843	0.574	0.702	0.761		0.701	11.76
76)	ethyl methacrylate									
	0.791	0.801	0.710	0.627	0.560	0.740	0.807		0.720	13.18
77)	1,1,2-trichloroethane									
	0.390	0.410	0.374	0.364	0.332	0.428	0.309	0.373	0.408	0.344	0.373	10.05
78)	2-hexanone									
	0.358	0.387	0.369	0.307	0.270	0.417	0.225	0.340	0.369	0.304	0.335	17.34
79)	tetrachloroethene									
	0.460	0.512	0.484	0.441	0.408	0.548	0.380	0.449	0.520	0.398	0.460	12.13
80)	1,3-dichloropropane									

		0.735	0.835	0.780	0.673	0.610	0.843	0.551	0.739	0.816	0.805	0.739	13.42
81)	butyl acetate												
		0.505		0.516	0.448	0.404		0.367	0.472	0.502		0.459	12.22
82)	dibromochloromethane												
		0.462	0.529	0.483	0.429	0.403	0.511	0.379	0.451	0.461		0.457	10.56
83)	1,2-dibromoethane												
		0.478	0.551	0.463	0.449	0.416	0.515	0.393	0.447	0.498	0.407	0.462	10.84
84)	n-butyl ether												
		2.171		2.154	1.917	1.677		1.414	2.086	2.177		1.942	15.19
85)	chlorobenzene												
		1.132	1.221	1.149	1.074	0.986	1.210	0.903	1.105	1.137	1.307	1.122	10.36
86)	1,1,1,2-tetrachloroethane												
		0.397		0.422	0.359	0.324	0.471	0.289	0.384	0.394		0.380	14.90
87)	ethylbenzene												
		2.087	2.323	2.106	1.786	1.553	2.365	1.317	1.980	2.283	2.299	2.010	17.69
88)	m,p-xylene												
		0.832	0.915	0.811	0.712	0.638	0.882	0.561	0.755	0.845	0.877	0.783	14.69
89)	o-xylene												
		0.848	0.820	0.859	0.734	0.660	0.891	0.590	0.753	0.808		0.773	12.81
90)	butyl acrylate												
		1.171		1.156	1.113	0.992		0.862	1.171	1.254		1.103	12.02
91)	styrene												
		1.349	1.431	1.336	1.183	1.046	1.486	0.911	1.268	1.371	1.369	1.275	14.06
92)	bromoform												
		0.358	0.392	0.349	0.334	0.305	0.399	0.282	0.336	0.361		0.346	10.92
93)	isopropylbenzene												
		2.165	2.220	2.145	1.900	1.666	2.386	1.428	1.998	2.227		2.015	15.14
94)	cis-1,4-dichloro-2-butene												
		0.211		0.205	0.215	0.211	0.191	0.193	0.216	0.196		0.205	4.92
95)	I 1,4-dichlorobenzene-d ----------ISTD----------												
96)	4-bromofluorobenzene (s)												
		1.152	1.102	1.109	1.189	1.194	1.128	1.211	1.168	1.133	1.114	1.150	3.38
97)	bromobenzene												
		1.098	1.167	1.042	1.104	1.015	1.221	0.974	1.101	1.138	0.975	1.083	7.52
98)	1,1,2,2-tetrachloroethane												
		1.695	1.734	1.575	1.672	1.534	1.878	1.454	1.657	1.618	1.862	1.668	8.04
99)	trans-1,4-dichloro-2-butene												
		0.408	0.463	0.407	0.443	0.416	0.403	0.398	0.429	0.424		0.421	5.03
100)	1,2,3-trichloropropane												
		0.473		0.460	0.456	0.408	0.485	0.395	0.459	0.465		0.450	7.01
101)	n-propylbenzene												
		5.589		5.319	5.183	4.658	5.667	4.207	5.239	5.749		5.201	10.19
102)	2-chlorotoluene												
		1.044		1.023	1.043	0.967	1.122	0.943	1.029	1.058		1.029	5.37
103)	4-chlorotoluene												
		1.036	1.117	1.028	0.997	0.938	1.135	0.909	1.014	1.216	0.916	1.031	9.75
104)	1,3,5-trimethylbenzene												
		3.796	4.079	3.749	3.688	3.300	4.156	2.996	3.731	3.902	4.291	3.769	10.33
105)	tert-butylbenzene												
		3.345	3.282	3.163	3.183	2.884	3.445	2.683	3.190	3.375	3.525	3.208	8.00
106)	1,2,4-trimethylbenzene												
		3.934		3.696	3.682	3.299	4.213	2.990	3.726	3.952		3.686	10.49
107)	sec-butylbenzene												
		4.907	5.228	4.762	4.685	4.220	5.145	3.805	4.701	4.735	4.693	4.688	8.87
108)	1,3-dichlorobenzene												
		1.968	1.943	1.792	1.958	1.800	2.151	1.710	1.963	1.873	1.710	1.887	7.28
109)	p-isopropyltoluene												
		3.790	4.086	3.639	3.555	3.157	4.072	2.828	3.604	3.846	3.768	3.635	10.73
110)	1,4-dichlorobenzene												

```
       1.785 1.931 1.761 1.822 1.714 1.892 1.615 1.814 1.946 2.190  1.847    8.47
111)  1,2,3-trimethylbenzene
       3.689       3.615 3.470 3.124 4.160 2.845 3.600 3.759        3.533   11.34
112)  1,2-dichlorobenzene
       1.829 1.818 1.719 1.778 1.629 1.934 1.529 1.791 1.897 1.904  1.783    7.14
113)  n-butylbenzene
       1.898 1.986 1.785 1.950 1.838 1.894 1.719 1.894 1.782 1.772  1.852    4.65
114)  1,2-dibromo-3-chloropropane
       0.411 0.431 0.413 0.459 0.454 0.357 0.469 0.418 0.453        0.429    8.05
115)  1,3,5-trichlorobenzene
       1.285 1.273 1.218 1.390 1.300 1.166 1.251 1.308 1.192 1.196  1.258    5.36
116)  1,2,4-trichlorobenzene
       1.033 0.994 0.929 1.205 1.125 1.023 1.115 1.087 0.933        1.049    8.76
117)  hexachlorobutadiene
       0.459 0.486 0.440 0.467 0.448 0.535 0.445 0.473 0.447        0.467    6.40
118)  naphthalene
       3.517 3.893 3.321 3.851 3.567 3.735 3.435 3.749 3.553 3.261  3.588    6.01
119)  1,2,3-trichlorobenzene
       0.978 0.968 0.872 1.097 1.045 1.054 1.031 1.012 0.968        1.003    6.52
120)  hexachloroethane
       0.726 0.677 0.653 0.740 0.700 0.712 0.678 0.700 0.582        0.685    6.84
121)  benzyl chloride
       2.704 3.276 2.693 2.930 2.655 2.886 2.526 2.871 2.772 3.113  2.843    7.89
122)  2-methylnaphthalene
       1.340             1.964 1.956       2.025 1.652              1.788   16.19

123)     pentafluorobenzene(a) ----------------ISTD---------------------
124)  Freon 142B
       0.808       0.856 0.802 0.800 0.968 0.738 0.804 0.924        0.837    8.97
125)  vinyl bromide
       0.141       0.147 0.148 0.145 0.160 0.130 0.147 0.129        0.144    6.98
126)  allyl chloride
       0.344       0.387 0.359 0.341 0.401 0.314 0.376 0.392        0.364    8.20

127)     1,4-dichlorobenzene-d ----------------ISTD---------------------
128)  pentachloroethane
       0.625       0.636 0.618 0.639 0.759 0.591 0.667 0.558        0.637    9.31
 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

           ML10548.M         Fri Oct 28 18:08:02 2022   1
```

Initial Calibration Verification

Job Number: JD54302 **Sample:** VL10548-ICV10548
Account: ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** L348720.D
Project: EPT, Ithaca, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\VL10548\L348720.D Vial: 14
Acq On : 27 Oct 2022 6:33 am Operator: PrashanS
Sample : ICV10548-50 Inst : GCMSL
Misc : MS63290,VL10548,5,,,,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\ML10548.M (RTE Integrator)
Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
Last Update : Fri Oct 28 17:50:59 2022
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	tert butyl alcohol-d9	1.000	1.000	0.0	100	0.00	3.06
2		1,4-dioxane	0.099	0.095	4.0	96	0.00	5.28
3		ethanol	0.135	0.137	-1.5	100	0.00	2.49
4	M	tertiary butyl alcohol	1.497	1.648	-10.1	108	0.00	3.12
5	I	pentafluorobenzene	1.000	1.000	0.0	99	0.00	4.28
6		chlorodifluoromethane		----------NA----------				
7		dichlorodifluoromethane	1.137	1.025	9.9	79	0.00	1.63
8		chloromethane	0.873	0.779	10.8	83	0.00	1.80
9		vinyl chloride	0.904	0.875	3.2	88	0.00	1.88
10		1,3-butadiene	0.654	0.842	-28.7	124	0.00	1.91
		----------	True	Calc.	% Drift	----------		
11		bromomethane	50.000	45.505	9.0	94	0.00	2.13
		----------	AvgRF	CCRF	% Dev	----------		
12		chloroethane	0.469	0.473	-0.9	95	0.00	2.21
13		trichlorofluoromethane	0.973	0.984	-1.1	91	0.00	2.39
14		ethyl ether	0.407	0.384	5.7	92	0.00	2.58
15		acrolein	0.201	0.208	-3.5	97	0.00	2.68
16		freon 113	0.463	0.418	9.7	87	0.00	2.75
17		1,1-dichloroethene	0.544	0.514	5.5	93	0.00	2.76
18		acetone	0.134	0.118	11.9	86	0.00	2.77
19		acetonitrile		----------NA----------				
		----------	True	Calc.	% Drift	----------		
20		iodomethane	50.000	40.021	20.0	78	0.00	2.87
		----------	AvgRF	CCRF	% Dev	----------		
21		iso-butyl alcohol	0.062	0.067	-8.1	106	0.00	4.43
22		carbon disulfide	1.849	1.662	10.1	93	0.00	2.93
23		methylene chloride	0.612	0.573	6.4	92	0.00	3.09
24		methyl acetate	0.175	0.190	-8.6	101	0.00	2.98
25		methyl tert butyl ether	1.841	1.844	-0.2	97	0.00	3.26
26		trans-1,2-dichloroethene	0.574	0.535	6.8	94	0.00	3.27
27		hexane	1.062	0.989	6.9	93	0.00	3.45
28		di-isopropyl ether	2.071	2.039	1.5	97	0.00	3.56
29		ethyl tert-butyl ether	2.120	2.073	2.2	97	0.00	3.81
30		2-butanone	0.143	0.149	-4.2	101	0.00	3.93
31	M	1,1-dichloroethane	1.097	1.062	3.2	96	0.00	3.57
32		chloroprene	0.990	0.947	4.3	96	0.00	3.62
33		acrylonitrile		----------NA----------				

Initial Calibration Verification

Job Number: JD54302 **Sample:** VL10548-ICV10548
Account: ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** L348720.D
Project: EPT, Ithaca, NY

34		vinyl acetate	0.157	0.118	24.8	70	0.00	3.54
35		ethyl acetate	0.175	0.172	1.7	101	0.00	3.94
36		2,2-dichloropropane	0.877	0.803	8.4	95	0.00	3.96
37		cis-1,2-dichloroethene	0.619	0.588	5.0	96	0.00	3.95
38		propionitrile	0.152	0.146	3.9	94	0.00	3.97
39		methyl acrylate	0.147	0.137	6.8	98	0.00	3.98
40		bromochloromethane	0.273	0.267	2.2	95	0.00	4.13
41		tetrahydrofuran	0.160	0.157	1.9	96	0.00	4.13
42		chloroform	1.070	1.063	0.7	101	0.00	4.18
43	S	dibromofluoromethane (s)	0.416	0.438	-5.3	99	0.00	4.29
44		methacrylonitrile	0.418	0.424	-1.4	101	0.00	4.08
45		1,1,1-trichloroethane	0.891	0.861	3.4	97	0.00	4.31
46		cyclohexane	0.930	0.906	2.6	98	0.00	4.38
47		1,1-dichloropropene	0.807	0.764	5.3	97	0.00	4.42
48		carbon tetrachloride	0.710	0.671	5.5	95	0.00	4.43
49		isopropyl acetate	0.182	0.192	-5.5	103	0.00	4.54
50		tert amyl alcohol	0.061	0.062	-1.6	102	0.00	4.52
51	I	1,4-difluorobenzene	1.000	1.000	0.0	101	0.00	4.85
52	S	1,2-dichloroethane-d4 (s)	0.342	0.333	2.6	103	0.00	4.54
53		tert-amyl methyl ether	1.252	1.153	7.9	95	0.00	4.63
54		2,2,4-trimethylpentane	1.388	1.214	12.5	91	0.00	4.63
55		n-butyl alcohol	0.027	0.029	-7.4	102	0.00	4.90
56	M	benzene	1.644	1.460	11.2	95	0.00	4.57
57		heptane	0.329	0.295	10.3	93	0.00	4.74
58		1,2-dichloroethane	0.539	0.497	7.8	97	0.00	4.60
59		trichloroethene	0.423	0.409	3.3	99	0.00	5.04
60		ethyl acrylate	0.798	0.787	1.4	98	0.00	5.06
61		2-nitropropane	0.197	0.205	-4.1	106	0.00	5.59
62		2-chloroethyl vinyl ether	0.314	0.266	15.3	88	0.00	5.62
63		methyl methacrylate	0.156	0.165	-5.8	107	0.00	5.24
64		1,2-dichloropropane	0.444	0.406	8.6	97	0.00	5.24
65		methylcyclohexane	0.757	0.660	12.8	88	0.00	5.23
66		dibromomethane	0.257	0.233	9.3	97	0.00	5.31
67		bromodichloromethane	0.594	0.573	3.5	101	0.00	5.43
68		cis-1,3-dichloropropene	0.713	0.703	1.4	101	0.00	5.76
69		epichlorohydrin	0.088	0.087	1.1	102	0.00	5.67
70		4-methyl-2-pentanone	0.286	0.282	1.4	103	0.00	5.86
71		3-methyl-1-butanol	0.026	0.026	0.0	103	0.00	5.88
72	I	chlorobenzene-d5	1.000	1.000	0.0	101	0.00	7.24
73	S	toluene-d8 (s)	1.324	1.237	6.6	100	0.00	5.99
74		toluene	1.111	1.025	7.7	99	0.00	6.05
75		trans-1,3-dichloropropene	0.701	0.687	2.0	102	0.00	6.22
76		ethyl methacrylate	0.720	0.695	3.5	99	0.00	6.24
77		1,1,2-trichloroethane	0.373	0.363	2.7	101	0.00	6.39
78		2-hexanone	0.335	0.310	7.5	102	0.00	6.55
79		tetrachloroethene		----------NA----------				
80		1,3-dichloropropane	0.739	0.669	9.5	100	0.00	6.53
81		butyl acetate	0.459	0.469	-2.2	106	0.00	6.64
82		dibromochloromethane	0.457	0.441	3.5	104	0.00	6.72
83		1,2-dibromoethane	0.462	0.450	2.6	101	0.00	6.84
84		n-butyl ether	1.942	1.914	1.4	101	0.00	7.31
85		chlorobenzene	1.122	1.093	2.6	103	0.00	7.27
86		1,1,1,2-tetrachloroethane	0.380	0.367	3.4	103	0.00	7.34
87		ethylbenzene	2.010	1.815	9.7	103	0.00	7.34
88		m,p-xylene	0.783	0.729	6.9	103	0.00	7.46
89		o-xylene	0.773	0.760	1.7	105	0.00	7.81
90		butyl acrylate	1.103	1.137	-3.1	103	0.00	7.73
91		styrene	1.275	1.228	3.7	105	0.00	7.83

Initial Calibration Verification

Job Number: JD54302 **Sample:** VL10548-ICV10548
Account: ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** L348720.D
Project: EPT, Ithaca, NY

92		bromoform	0.346	0.342	1.2	103	0.00	8.01
93		isopropylbenzene	2.015	1.940	3.7	103	0.00	8.15
94		cis-1,4-dichloro-2-butene	0.205	0.212	-3.4	100	0.00	8.20
95	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	101	0.00	9.43
96	S	4-bromofluorobenzene (s)	1.150	1.181	-2.7	100	0.00	8.32
97		bromobenzene	1.083	1.136	-4.9	104	0.00	8.46
98		1,1,2,2-tetrachloroethane	1.668	1.677	-0.5	101	0.00	8.43
99		trans-1,4-dichloro-2-bute	0.421	0.478	-13.5	109	0.00	8.47
100		1,2,3-trichloropropane	0.450	0.472	-4.9	104	0.00	8.50
101		n-propylbenzene	5.201	5.366	-3.2	104	0.00	8.54
102		2-chlorotoluene	1.029	1.058	-2.8	102	0.00	8.64
103		4-chlorotoluene	1.031	1.057	-2.5	107	0.00	8.75
104		1,3,5-trimethylbenzene	3.769	3.777	-0.2	103	0.00	8.71
105		tert-butylbenzene	3.208	3.357	-4.6	106	0.00	9.02
106		1,2,4-trimethylbenzene	3.686	3.730	-1.2	102	0.00	9.07
107		sec-butylbenzene	4.688	4.917	-4.9	106	0.00	9.23
108		1,3-dichlorobenzene	1.887	2.008	-6.4	103	0.00	9.36
109		p-isopropyltoluene	3.635	3.685	-1.4	105	0.00	9.38
110		1,4-dichlorobenzene	1.847	1.942	-5.1	107	0.00	9.46
111		1,2,3-trimethylbenzene		----------NA----------				
112		1,2-dichlorobenzene	1.783	1.857	-4.2	105	0.00	9.81
113		n-butylbenzene	1.852	2.044	-10.4	106	0.00	9.78
114		1,2-dibromo-3-chloropropa	0.429	0.490	-14.2	108	0.00	10.58
115		1,3,5-trichlorobenzene	1.258	1.426	-13.4	103	0.00	10.76
116		1,2,4-trichlorobenzene	1.049	1.240	-18.2	104	0.00	11.39
117		hexachlorobutadiene	0.467	0.507	-8.6	109	0.00	11.53
118		naphthalene	3.588	3.963	-10.5	104	0.00	11.65
119		1,2,3-trichlorobenzene	1.003	1.131	-12.8	104	0.00	11.88
120		hexachloroethane	0.685	0.772	-12.7	105	0.00	10.08
121		benzyl chloride	2.843	2.823	0.7	97	0.00	9.56
122		2-methylnaphthalene	1.788	2.041	-14.1	105	0.00	12.78
123		pentafluorobenzene(a)	1.000	1.000	0.0	99	0.00	4.28
124		Freon 142B		----------NA----------				
125		vinyl bromide		----------NA----------				
126		allyl chloride		----------NA----------				
127		1,4-dichlorobenzene-d4(a)	1.000	1.000	0.0	101	0.00	9.43

(#) = Out of Range SPCC's out = 0 CCC's out = 0
L348715.D ML10548.M Fri Oct 28 17:52:51 2022 1

Initial Calibration Verification

Job Number: JD54302 **Sample:** VL10548-ICV10548
Account: ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** L348721.D
Project: EPT, Ithaca, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\VL10548\L348721.D Vial: 15
Acq On : 27 Oct 2022 6:56 am Operator: PrashanS
Sample : ICV10548-50 Inst : GCMSL
Misc : MS63290,VL10548,5,,,,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\ML10548.M (RTE Integrator)
Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
Last Update : Thu Oct 27 19:06:54 2022
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	tert butyl alcohol-d9	1.000	1.000	0.0	102	0.00	3.06
2		1,4-dioxane		----------NA----------				
3		ethanol		----------NA----------				
4	M	tertiary butyl alcohol		----------NA----------				
5	I	pentafluorobenzene	1.000	1.000	0.0	110	0.00	4.28
6		chlorodifluoromethane	0.973	0.968	0.5	105	0.00	1.65
7		dichlorodifluoromethane		----------NA----------				
8		chloromethane		----------NA----------				
9		vinyl chloride		----------NA----------				
10		1,3-butadiene		----------NA----------				
11		bromomethane		----------NA----------				
12		chloroethane		----------NA----------				
13		trichlorofluoromethane		----------NA----------				
14		ethyl ether		----------NA----------				
15		acrolein		----------NA----------				
16		freon 113		----------NA----------				
17		1,1-dichloroethene		----------NA----------				
18		acetone		----------NA----------				
19		acetonitrile	0.073	0.076	-4.1	110	0.00	2.96
		----------	True	Calc.	% Drift	----------		
20		iodomethane		----------NA----------				
		----------	AvgRF	CCRF	% Dev	----------		
21		iso-butyl alcohol		----------NA----------				
22		carbon disulfide		----------NA----------				
23		methylene chloride		----------NA----------				
24		methyl acetate		----------NA----------				
25		methyl tert butyl ether		----------NA----------				
26		trans-1,2-dichloroethene		----------NA----------				
27		hexane		----------NA----------				
28		di-isopropyl ether		----------NA----------				
29		ethyl tert-butyl ether		----------NA----------				
30		2-butanone		----------NA----------				
31	M	1,1-dichloroethane		----------NA----------				
32		chloroprene		----------NA----------				
33		acrylonitrile	0.411	0.377	8.3	95	0.00	3.24
34		vinyl acetate		----------NA----------				
35		ethyl acetate		----------NA----------				
36		2,2-dichloropropane		----------NA----------				
37		cis-1,2-dichloroethene		----------NA----------				

Initial Calibration Verification

Job Number: JD54302 **Sample:** VL10548-ICV10548
Account: ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** L348721.D
Project: EPT, Ithaca, NY

38		propionitrile		----------NA----------				
39		methyl acrylate		----------NA----------				
40		bromochloromethane		----------NA----------				
41		tetrahydrofuran		----------NA----------				
42		chloroform		----------NA----------				
43	S	dibromofluoromethane (s)	0.416	0.424	-1.9	107	0.00	4.29
44		methacrylonitrile		----------NA----------				
45		1,1,1-trichloroethane		----------NA----------				
46		cyclohexane		----------NA----------				
47		1,1-dichloropropene		----------NA----------				
48		carbon tetrachloride		----------NA----------				
49		isopropyl acetate		----------NA----------				
50		tert amyl alcohol		----------NA----------				
51	I	1,4-difluorobenzene	1.000	1.000	0.0	109	0.00	4.85
52	S	1,2-dichloroethane-d4 (s)	0.342	0.359	-5.0	120	0.00	4.54
53		tert-amyl methyl ether		----------NA----------				
54		2,2,4-trimethylpentane		----------NA----------				
55		n-butyl alcohol		----------NA----------				
56	M	benzene		----------NA----------				
57		heptane		----------NA----------				
58		1,2-dichloroethane		----------NA----------				
59		trichloroethene		----------NA----------				
60		ethyl acrylate		----------NA----------				
61		2-nitropropane		----------NA----------				
62		2-chloroethyl vinyl ether		----------NA----------				
63		methyl methacrylate		----------NA----------				
64		1,2-dichloropropane		----------NA----------				
65		methylcyclohexane		----------NA----------				
66		dibromomethane		----------NA----------				
67		bromodichloromethane		----------NA----------				
68		cis-1,3-dichloropropene		----------NA----------				
69		epichlorohydrin		----------NA----------				
70		4-methyl-2-pentanone		----------NA----------				
71		3-methyl-1-butanol		----------NA----------				
72	I	chlorobenzene-d5	1.000	1.000	0.0	101	0.00	7.24
73	S	toluene-d8 (s)	1.324	1.395	-5.4	113	0.00	5.99
74		toluene		----------NA----------				
75		trans-1,3-dichloropropene		----------NA----------				
76		ethyl methacrylate		----------NA----------				
77		1,1,2-trichloroethane		----------NA----------				
78		2-hexanone		----------NA----------				
79		tetrachloroethene	0.460	0.494	-7.4	114	0.00	6.48
80		1,3-dichloropropane		----------NA----------				
81		butyl acetate		----------NA----------				
82		dibromochloromethane		----------NA----------				
83		1,2-dibromoethane		----------NA----------				
84		n-butyl ether		----------NA----------				
85		chlorobenzene		----------NA----------				
86		1,1,1,2-tetrachloroethane		----------NA----------				
87		ethylbenzene		----------NA----------				
88		m,p-xylene		----------NA----------				
89		o-xylene		----------NA----------				
90		butyl acrylate		----------NA----------				
91		styrene		----------NA----------				
92		bromoform		----------NA----------				
93		isopropylbenzene		----------NA----------				
94		cis-1,4-dichloro-2-butene		----------NA----------				

Initial Calibration Verification

Job Number: JD54302 **Sample:** VL10548-ICV10548
Account: ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** L348721.D
Project: EPT, Ithaca, NY

95	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	112	0.00	9.43
96	S	4-bromofluorobenzene (s)	1.150	1.112	3.3	105	0.00	8.32
97		bromobenzene		----------NA----------				
98		1,1,2,2-tetrachloroethane		----------NA----------				
99		trans-1,4-dichloro-2-bute		----------NA----------				
100		1,2,3-trichloropropane		----------NA----------				
101		n-propylbenzene		----------NA----------				
102		2-chlorotoluene		----------NA----------				
103		4-chlorotoluene		----------NA----------				
104		1,3,5-trimethylbenzene		----------NA----------				
105		tert-butylbenzene		----------NA----------				
106		1,2,4-trimethylbenzene		----------NA----------				
107		sec-butylbenzene		----------NA----------				
108		1,3-dichlorobenzene		----------NA----------				
109		p-isopropyltoluene		----------NA----------				
110		1,4-dichlorobenzene		----------NA----------				
111		1,2,3-trimethylbenzene	3.533	3.616	-2.3	117	0.00	9.48
112		1,2-dichlorobenzene		----------NA----------				
113		n-butylbenzene		----------NA----------				
114		1,2-dibromo-3-chloropropa		----------NA----------				
115		1,3,5-trichlorobenzene		----------NA----------				
116		1,2,4-trichlorobenzene		----------NA----------				
117		hexachlorobutadiene		----------NA----------				
118		naphthalene		----------NA----------				
119		1,2,3-trichlorobenzene		----------NA----------				
120		hexachloroethane		----------NA----------				
121		benzyl chloride		----------NA----------				
122		2-methylnaphthalene		----------NA----------				
123		pentafluorobenzene(a)	1.000	1.000	0.0	110	0.00	4.28
124		Freon 142B		----------NA----------				
125		vinyl bromide		----------NA----------				
126		allyl chloride		----------NA----------				
127		1,4-dichlorobenzene-d4(a)	1.000	1.000	0.0	112	0.00	9.43

(#) = Out of Range SPCC's out = 0 CCC's out = 0

L348715.D ML10548.M Thu Oct 27 19:08:29 2022 1

Continuing Calibration Summary

Job Number: JD54302 **Sample:** VL10552-CC10548
Account: ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** L348799.D
Project: EPT, Ithaca, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\An...022\vl10552\l348799.d Vial: 2
Acq On : 29 Oct 2022 10:33 am Operator: BridgetK
Sample : cc10548-20 Inst : GCMSL
Misc : MS63359,VL10552,5,,,,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\ML10548.M (RTE Integrator)
Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
Last Update : Fri Oct 28 18:07:24 2022
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	tert butyl alcohol-d9	1.000	1.000	0.0	97	0.00	3.06
2		1,4-dioxane	0.099	0.077	22.2#	79	0.00	5.28
3		ethanol	0.135	0.119	11.9	88	0.00	2.49
4	M	tertiary butyl alcohol	1.497	1.409	5.9	92	0.00	3.12
5	I	pentafluorobenzene	1.000	1.000	0.0	109	0.00	4.28
6		chlorodifluoromethane	0.973	0.846	13.1	95	0.00	1.65
7		dichlorodifluoromethane	1.137	0.903	20.6#	83	0.00	1.64
8		chloromethane	0.873	0.723	17.2	90	0.00	1.80
9		vinyl chloride	0.904	0.737	18.5	86	0.00	1.88
10		1,3-butadiene	0.654	0.822	-25.7#	130	0.00	1.91
		----------	True	Calc.	% Drift	----------		
11		bromomethane	20.000	24.801	-24.0#	156	0.00	2.14
		----------	AvgRF	CCRF	% Dev	----------		
12		chloroethane	0.469	0.398	15.1	90	0.00	2.22
13		trichlorofluoromethane	0.973	0.859	11.7	92	0.00	2.40
14		ethyl ether	0.407	0.355	12.8	96	0.00	2.58
15		acrolein	0.201	0.207	-3.0	116	0.00	2.68
16		freon 113	0.463	0.404	12.7	92	0.00	2.75
17		1,1-dichloroethene	0.544	0.475	12.7	93	0.00	2.76
18		acetone	0.134	0.104	22.4#	83	0.00	2.77
19		acetonitrile	0.073	0.069	5.5	100	0.00	2.96
		----------	True	Calc.	% Drift	----------		
20		iodomethane	20.000	21.151	-5.8	143	0.00	2.87
		----------	AvgRF	CCRF	% Dev	----------		
21		iso-butyl alcohol	0.062	0.056	9.7	95	0.00	4.43
22		carbon disulfide	1.849	1.532	17.1	94	0.00	2.93
23		methylene chloride	0.612	0.543	11.3	98	0.00	3.09
24		methyl acetate	0.175	0.160	8.6	93	0.00	2.98
25		methyl tert butyl ether	1.841	1.787	2.9	99	0.00	3.26
26		trans-1,2-dichloroethene	0.574	0.506	11.8	95	0.00	3.27
27		hexane	1.062	0.928	12.6	98	0.00	3.45
28		di-isopropyl ether	2.071	1.958	5.5	98	0.00	3.56
29		ethyl tert-butyl ether	2.120	1.992	6.0	100	0.00	3.81
30		2-butanone	0.143	0.130	9.1	95	0.00	3.93
31	M	1,1-dichloroethane	1.097	1.012	7.7	98	0.00	3.57
32		chloroprene	0.990	0.842	14.9	92	0.00	3.62
33		acrylonitrile	0.411	0.360	12.4	94	0.00	3.24

Continuing Calibration Summary

Job Number: JD54302 **Sample:** VL10552-CC10548
Account: ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** L348799.D
Project: EPT, Ithaca, NY

34		vinyl acetate	0.157	0.158	-0.6	101	0.00	3.54
35		ethyl acetate	0.175	0.161	8.0	101	0.00	3.94
36		2,2-dichloropropane	0.877	0.833	5.0	102	0.00	3.97
37		cis-1,2-dichloroethene	0.619	0.537	13.2	94	0.00	3.96
38		propionitrile	0.152	0.144	5.3	98	0.00	3.98
39		methyl acrylate	0.147	0.135	8.2	104	0.00	3.98
40		bromochloromethane	0.273	0.251	8.1	97	0.00	4.12
41		tetrahydrofuran	0.160	0.151	5.6	101	0.00	4.14
42		chloroform	1.070	0.939	12.2	97	0.00	4.18
43	S	dibromofluoromethane (s)	0.416	0.408	1.9	105	0.00	4.29
44		methacrylonitrile	0.418	0.376	10.0	101	0.00	4.09
45		1,1,1-trichloroethane	0.891	0.745	16.4	92	0.00	4.32
46		cyclohexane	0.930	0.696	25.2#	80	0.00	4.38
47		1,1-dichloropropene	0.807	0.692	14.3	93	0.00	4.43
48		carbon tetrachloride	0.710	0.602	15.2	91	0.00	4.43
49		isopropyl acetate	0.182	0.180	1.1	102	0.00	4.55
50		tert amyl alcohol	0.061	0.052	14.8	91	0.00	4.53
51	I	1,4-difluorobenzene	1.000	1.000	0.0	103	0.00	4.85
52	S	1,2-dichloroethane-d4 (s)	0.342	0.358	-4.7	106	0.00	4.55
53		tert-amyl methyl ether	1.252	1.226	2.1	98	0.00	4.64
54		2,2,4-trimethylpentane	1.388	1.309	5.7	95	0.00	4.64
55		n-butyl alcohol	0.027	0.024	11.1	89	0.00	4.91
56	M	benzene	1.644	1.463	11.0	93	0.00	4.58
57		heptane	0.329	0.301	8.5	100	0.00	4.75
58		1,2-dichloroethane	0.539	0.529	1.9	101	0.00	4.60
59		trichloroethene	0.423	0.373	11.8	93	0.00	5.05
60		ethyl acrylate	0.798	0.811	-1.6	101	0.00	5.06
61		2-nitropropane	0.197	0.183	7.1	98	0.00	5.59
62		2-chloroethyl vinyl ether	0.314	0.303	3.5	100	0.00	5.62
63		methyl methacrylate	0.156	0.161	-3.2	104	0.00	5.24
64		1,2-dichloropropane	0.444	0.422	5.0	98	0.00	5.24
65		methylcyclohexane	0.757	0.689	9.0	95	0.00	5.23
66		dibromomethane	0.257	0.242	5.8	100	0.00	5.31
67		bromodichloromethane	0.594	0.534	10.1	96	0.00	5.43
68		cis-1,3-dichloropropene	0.713	0.653	8.4	93	0.00	5.77
69		epichlorohydrin	0.088	0.084	4.5	100	0.00	5.67
70		4-methyl-2-pentanone	0.286	0.280	2.1	101	0.00	5.86
71		3-methyl-1-butanol	0.026	0.022	15.4	87	0.00	5.89
72	I	chlorobenzene-d5	1.000	1.000	0.0	105	0.00	7.24
73	S	toluene-d8 (s)	1.324	1.280	3.3	104	0.00	6.00
74		toluene	1.111	0.965	13.1	95	0.00	6.05
75		trans-1,3-dichloropropene	0.701	0.645	8.0	97	0.00	6.22
76		ethyl methacrylate	0.720	0.716	0.6	102	0.00	6.24
77		1,1,2-trichloroethane	0.373	0.358	4.0	101	0.00	6.39
78		2-hexanone	0.335	0.316	5.7	98	0.00	6.56
79		tetrachloroethene	0.460	0.414	10.0	97	0.00	6.49
80		1,3-dichloropropane	0.739	0.698	5.5	99	0.00	6.53
81		butyl acetate	0.459	0.442	3.7	98	0.00	6.64
82		dibromochloromethane	0.457	0.413	9.6	96	0.00	6.72
83		1,2-dibromoethane	0.462	0.446	3.5	105	0.00	6.85
84		n-butyl ether	1.942	1.880	3.2	95	0.00	7.31
85		chlorobenzene	1.122	1.022	8.9	97	0.00	7.27
86		1,1,1,2-tetrachloroethane	0.380	0.349	8.2	96	0.00	7.34
87		ethylbenzene	2.010	1.762	12.3	93	0.00	7.34
88		m,p-xylene	0.783	0.690	11.9	96	0.00	7.46
89		o-xylene	0.773	0.698	9.7	97	0.00	7.81
90		butyl acrylate	1.103	1.099	0.4	99	0.00	7.73
91		styrene	1.275	1.174	7.9	97	0.00	7.83

Continuing Calibration Summary

Job Number: JD54302 **Sample:** VL10552-CC10548
Account: ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** L348799.D
Project: EPT, Ithaca, NY

92		bromoform	0.346	0.300	13.3	94	0.00	8.01
93		isopropylbenzene	2.015	1.816	9.9	95	0.00	8.15
94		cis-1,4-dichloro-2-butene	0.205	0.128	37.6#	62	0.00	8.20
95	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	104	0.00	9.43
96	S	4-bromofluorobenzene (s)	1.150	1.181	-2.7	106	0.00	8.32
97		bromobenzene	1.083	1.035	4.4	98	0.00	8.47
98		1,1,2,2-tetrachloroethane	1.668	1.633	2.1	103	0.00	8.43
99		trans-1,4-dichloro-2-bute	0.421	0.276	34.4#	67	0.00	8.47
100		1,2,3-trichloropropane	0.450	0.433	3.8	99	0.00	8.50
101		n-propylbenzene	5.201	4.904	5.7	98	0.00	8.54
102		2-chlorotoluene	1.029	0.946	8.1	96	0.00	8.64
103		4-chlorotoluene	1.031	0.961	6.8	99	0.00	8.75
104		1,3,5-trimethylbenzene	3.769	3.429	9.0	96	0.00	8.71
105		tert-butylbenzene	3.208	2.877	10.3	94	0.00	9.02
106		1,2,4-trimethylbenzene	3.686	3.461	6.1	97	0.00	9.07
107		sec-butylbenzene	4.688	4.335	7.5	96	0.00	9.23
108		1,3-dichlorobenzene	1.887	1.801	4.6	96	0.00	9.36
109		p-isopropyltoluene	3.635	3.310	8.9	96	0.00	9.38
110		1,4-dichlorobenzene	1.847	1.659	10.2	96	0.00	9.46
111		1,2,3-trimethylbenzene	3.533	3.291	6.8	95	0.00	9.48
112		1,2-dichlorobenzene	1.783	1.703	4.5	99	0.00	9.81
113		n-butylbenzene	1.852	1.751	5.5	97	0.00	9.78
114		1,2-dibromo-3-chloropropa	0.429	0.388	9.6	97	0.00	10.57
115		1,3,5-trichlorobenzene	1.258	1.256	0.2	100	0.00	10.76
116		1,2,4-trichlorobenzene	1.049	1.054	-0.5	101	0.00	11.39
117		hexachlorobutadiene	0.467	0.439	6.0	97	0.00	11.53
118		naphthalene	3.588	3.462	3.5	96	0.00	11.66
119		1,2,3-trichlorobenzene	1.003	0.960	4.3	99	0.00	11.88
120		hexachloroethane	0.685	0.633	7.6	94	0.00	10.08
121		benzyl chloride	2.843	2.934	-3.2	107	0.00	9.56
122		2-methylnaphthalene	1.788	1.425	20.3#	90	0.00	12.78
123		pentafluorobenzene(a)	1.000	1.000	0.0	100	0.00	4.28
124		Freon 142B		----------NA----------				
125		vinyl bromide		----------NA----------				
126		allyl chloride		----------NA----------				
127		1,4-dichlorobenzene-d4(a)	1.000	1.000	0.0	93	0.00	9.43
128		pentachloroethane		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
L348714.D ML10548.M Tue Nov 01 12:45:30 2022

Run Sequence Report

Job Number: JD54302
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Run ID: V2A9596	**Method:** SW846 8260D	**Instrument ID:** GCMS2A

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V2A9596-BFB	2A220735.D	10/13/22 17:42	n/a	BFB Tune
V2A9596-IC9596	2A220736.D	10/13/22 18:18	n/a	Initial cal 0.2
V2A9596-IC9596	2A220737.D	10/13/22 18:37	n/a	Initial cal 0.5
V2A9596-IC9596	2A220738.D	10/13/22 19:06	n/a	Initial cal 1
V2A9596-IC9596	2A220739.D	10/13/22 19:34	n/a	Initial cal 2
V2A9596-IC9596	2A220740.D	10/13/22 20:03	n/a	Initial cal 4
V2A9596-IC9596	2A220741.D	10/13/22 20:32	n/a	Initial cal 8
V2A9596-IC9596	2A220742.D	10/13/22 21:02	n/a	Initial cal 20
V2A9596-ICC9596	2A220743.D	10/13/22 21:30	n/a	Initial cal 50
V2A9596-IC9596	2A220744.D	10/13/22 22:00	n/a	Initial cal 100
V2A9596-IC9596	2A220745.D	10/13/22 22:28	n/a	Initial cal 200
V2A9596-ICV9596	2A220748.D	10/13/22 23:54	n/a	Initial cal verification 50
V2A9596-ICV9596	2A220749.D	10/14/22 00:22	n/a	Initial cal verification 50

Run Sequence Report

Job Number: JD54302
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Run ID: V2A9619	**Method:** SW846 8260D	**Instrument ID:** GCMS2A

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V2A9619-BFB	2A221287.D	10/27/22 22:49	n/a	BFB Tune
V2A9619-CC9596	2A221287.D	10/27/22 22:49	n/a	Continuing cal 50
V2A9619-BS	2A221289.D	10/27/22 23:46	n/a	Blank Spike
V2A9619-MB	2A221291.D	10/28/22 00:43	n/a	Method Blank
JD54302-5	2A221292.D	10/28/22 01:11	n/a	TRIP BLANK
JD54302-4	2A221293.D	10/28/22 01:40	n/a	WINF
ZZZZZZ	2A221294.D	10/28/22 02:08	n/a	(unrelated sample)
ZZZZZZ	2A221295.D	10/28/22 02:37	n/a	(unrelated sample)
JD54302-4MS	2A221296.D	10/28/22 03:05	n/a	Matrix Spike
JD54302-4MSD	2A221297.D	10/28/22 03:33	n/a	Matrix Spike Duplicate
ZZZZZZ	2A221299.D	10/28/22 04:30	n/a	(unrelated sample)
ZZZZZZ	2A221300.D	10/28/22 04:58	n/a	(unrelated sample)
ZZZZZZ	2A221303.D	10/28/22 06:23	n/a	(unrelated sample)
ZZZZZZ	2A221306.D	10/28/22 07:48	n/a	(unrelated sample)
ZZZZZZ	2A221307.D	10/28/22 08:16	n/a	(unrelated sample)
JD54302-1	2A221308.D	10/28/22 08:44	n/a	WPOST GAC

Run Sequence Report

Job Number: JD54302
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Run ID: VL10548 **Method:** SW846 8260D **Instrument ID:** GCMSL

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
VL10548-BFB	L348707.D	10/27/22 01:23	n/a	BFB Tune
VL10548-IC10548	L348708.D	10/27/22 01:55	n/a	Initial cal 0.2
VL10548-IC10548	L348709.D	10/27/22 02:18	n/a	Initial cal 0.5
VL10548-IC10548	L348710.D	10/27/22 02:41	n/a	Initial cal 1
VL10548-IC10548	L348711.D	10/27/22 03:04	n/a	Initial cal 2
VL10548-IC10548	L348712.D	10/27/22 03:27	n/a	Initial cal 4
VL10548-IC10548	L348713.D	10/27/22 03:50	n/a	Initial cal 8
VL10548-IC10548	L348714.D	10/27/22 04:14	n/a	Initial cal 20
VL10548-ICC10548	L348715.D	10/27/22 04:37	n/a	Initial cal 50
VL10548-IC10548	L348716.D	10/27/22 05:00	n/a	Initial cal 100
VL10548-IC10548	L348717.D	10/27/22 05:23	n/a	Initial cal 200
VL10548-ICV10548	L348720.D	10/27/22 06:33	n/a	Initial cal verification 50
VL10548-ICV10548	L348721.D	10/27/22 06:56	n/a	Initial cal verification 50

Run Sequence Report

Job Number: JD54302
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Run ID: VL10552	**Method:** SW846 8260D	**Instrument ID:** GCMSL

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
VL10552-BFB	L348799.D	10/29/22 10:33	n/a	BFB Tune
VL10552-CC10548	L348799.D	10/29/22 10:33	n/a	Continuing cal 20
VL10552-BS	L348801.D	10/29/22 11:38	n/a	Blank Spike
VL10552-MB	L348803.D	10/29/22 12:24	n/a	Method Blank
JD54302-4	L348804.D	10/29/22 12:47	n/a	WINF
ZZZZZZ	L348805.D	10/29/22 13:10	n/a	(unrelated sample)
ZZZZZZ	L348806.D	10/29/22 13:33	n/a	(unrelated sample)
ZZZZZZ	L348807.D	10/29/22 13:57	n/a	(unrelated sample)
ZZZZZZ	L348808.D	10/29/22 14:20	n/a	(unrelated sample)
JD54108-4	L348809.D	10/29/22 14:43	n/a	(used for QC only; not part of job JD54302)
ZZZZZZ	L348810.D	10/29/22 15:06	n/a	(unrelated sample)
JD54108-4MS	L348811.D	10/29/22 15:29	n/a	Matrix Spike
JD54108-4MSD	L348812.D	10/29/22 15:52	n/a	Matrix Spike Duplicate
ZZZZZZ	L348814.D	10/29/22 16:38	n/a	(unrelated sample)
ZZZZZZ	L348815.D	10/29/22 17:01	n/a	(unrelated sample)
JD54302-2	L348816.D	10/29/22 17:24	n/a	WMID GAC
JD54302-3	L348817.D	10/29/22 17:48	n/a	WAS
ZZZZZZ	L348818.D	10/29/22 18:11	n/a	(unrelated sample)
ZZZZZZ	L348819.D	10/29/22 18:34	n/a	(unrelated sample)
ZZZZZZ	L348820.D	10/29/22 18:57	n/a	(unrelated sample)
ZZZZZZ	L348821.D	10/29/22 19:20	n/a	(unrelated sample)
ZZZZZZ	L348822.D	10/29/22 19:43	n/a	(unrelated sample)
ZZZZZZ	L348823.D	10/29/22 20:06	n/a	(unrelated sample)
ZZZZZZ	L348824.D	10/29/22 20:29	n/a	(unrelated sample)
ZZZZZZ	L348825.D	10/29/22 20:52	n/a	(unrelated sample)
ZZZZZZ	L348826.D	10/29/22 21:15	n/a	(unrelated sample)
ZZZZZZ	L348827.D	10/29/22 21:39	n/a	(unrelated sample)
ZZZZZZ	L348828.D	10/29/22 22:02	n/a	(unrelated sample)
ZZZZZZ	L348829.D	10/29/22 22:25	n/a	(unrelated sample)

MS Volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nelsonf\October\10-29-22\v2a9619\
Data File : 2a221308.d
Acq On : 28 Oct 2022 8:44 am
Operator : nickw
Sample : jd54302-1 Inst : GCMS2A
Misc : MS63421,V2A9619,5,,,,1
ALS Vial : 50 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Results File: M2A9596.RES
Quant Time: Oct 29 04:08:51 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 09:22:42 2022
QLast Update : Fri Oct 14 09:22:42 2022
Response via : Initial Calibration

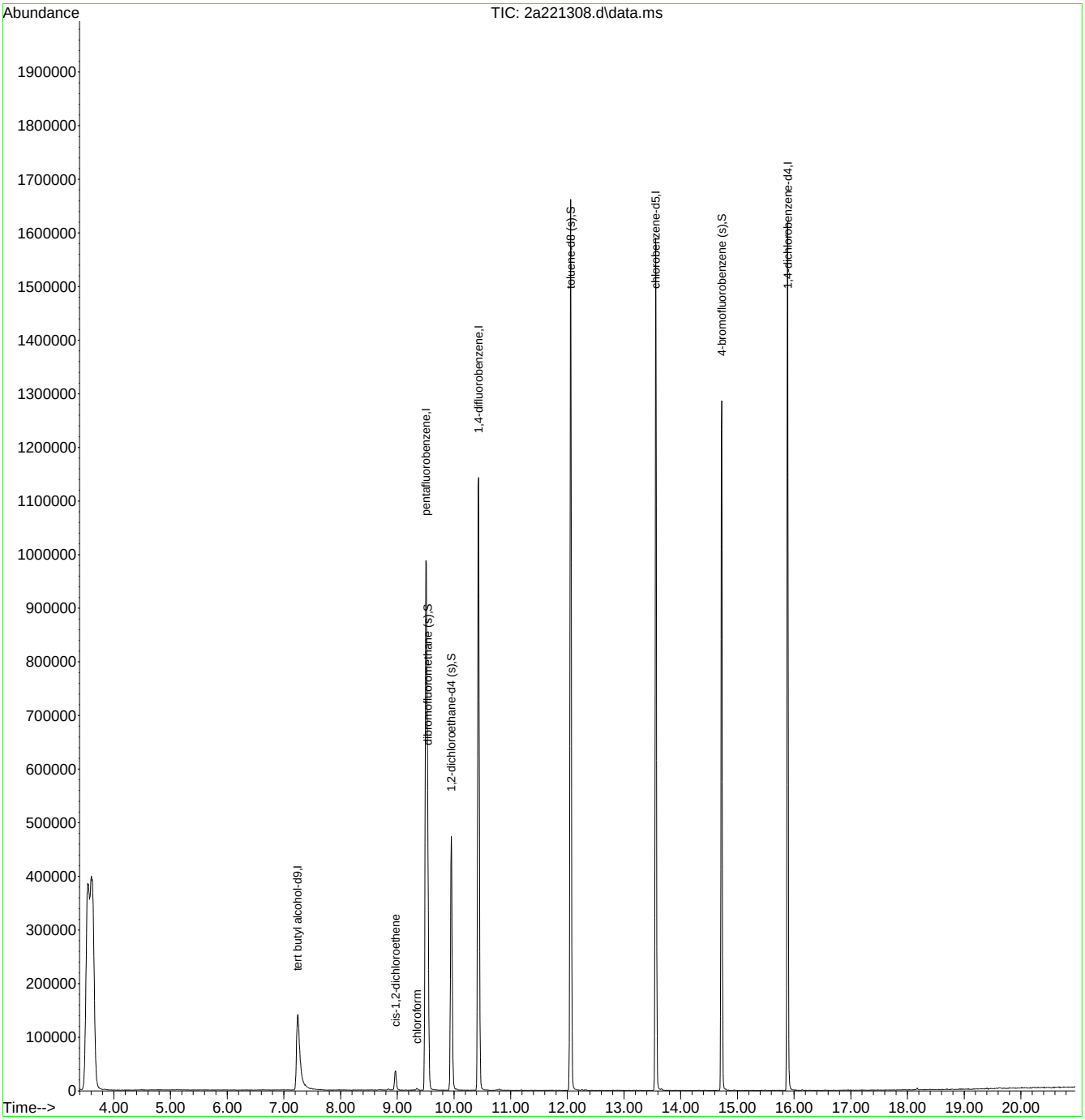
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.240	65	365080	500.00	ug/L	-0.01
5) pentafluorobenzene	9.505	168	769186	50.00	ug/L	0.00
50) 1,4-difluorobenzene	10.434	114	1031346	50.00	ug/L	0.00
72) chlorobenzene-d5	13.558	117	851185	50.00	ug/L	0.00
96) 1,4-dichlorobenzene-d4	15.886	152	430013	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	9.537	113	322723	47.58	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 95.16%			
51) 1,2-dichloroethane-d4 (s)	9.951	65	347631	42.84	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 85.68%			
73) toluene-d8 (s)	12.059	98	1073745	49.58	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.16%			
97) 4-bromofluorobenzene (s)	14.722	95	385195	47.38	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 94.76%			
Target Compounds						Qvalue
36) cis-1,2-dichloroethene	8.965	96	20424	2.98	ug/L	89
40) chloroform	9.348	83	3809	0.33	ug/L	78

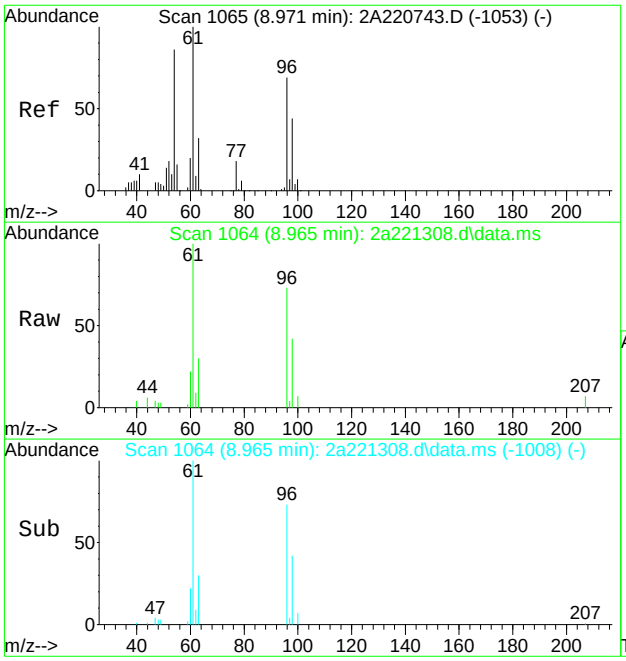
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nelsonf\October\10-29-22\v2a9619\
Data File : 2a221308.d
Acq On : 28 Oct 2022 8:44 am
Operator : nickw
Sample : jd54302-1 Inst : GCMS2A
Misc : MS63421,V2A9619,5,,,,1
ALS Vial : 50 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Results File: M2A9596.RES
Quant Time: Oct 29 04:08:51 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 09:22:42 2022
QLast Update : Fri Oct 14 09:22:42 2022
Response via : Initial Calibration

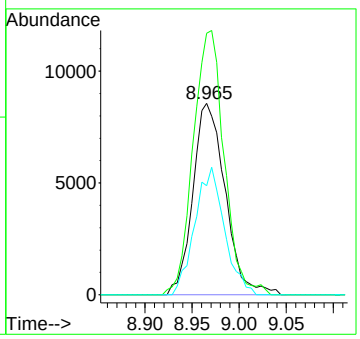


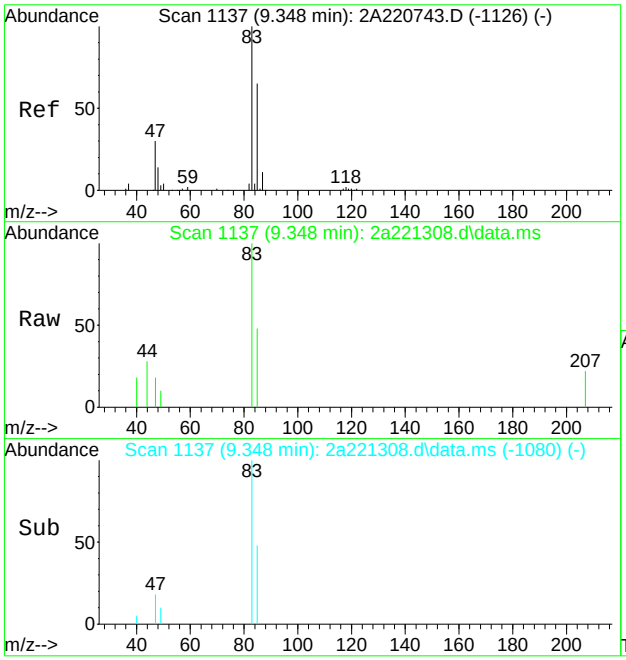


#36
cis-1,2-dichloroethene
Concen: 2.98 ug/L
RT: 8.965 min Scan# 1064
Delta R.T. -0.005 min
Lab File: 2a221308.d
Acq: 28 Oct 2022 8:44 am

Tgt Ion: 96 Resp: 20424

Ion	Ratio	Lower	Upper
96	100		
61	136.6	122.8	182.8
98	57.0	33.3	93.3

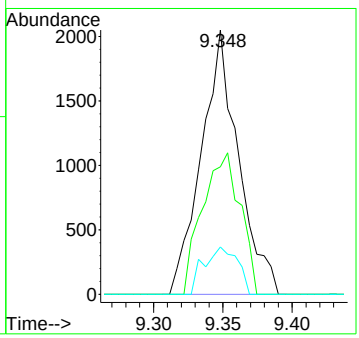




#40
chloroform
Concen: 0.33 ug/L
RT: 9.348 min Scan# 1137
Delta R.T. 0.000 min
Lab File: 2a221308.d
Acq: 28 Oct 2022 8:44 am

Tgt Ion: 83 Resp: 3809

Ion	Ratio	Lower	Upper
83	100		
85	48.2	34.5	94.5
47	17.9	0.7	60.7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\November 2022\nov. 1, 2022\vl10552\
Data File : l348816.d
Acq On : 29 Oct 2022 5:24 pm
Operator : BridgetK
Sample : jd54302-2 Inst : GCMSL
Misc : MS63421,VL10552,5,,,,1
ALS Vial : 19 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Results File: ML10548.RES
Quant Time: Nov 01 15:10:30 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Fri Oct 28 18:07:24 2022
Response via : Initial Calibration

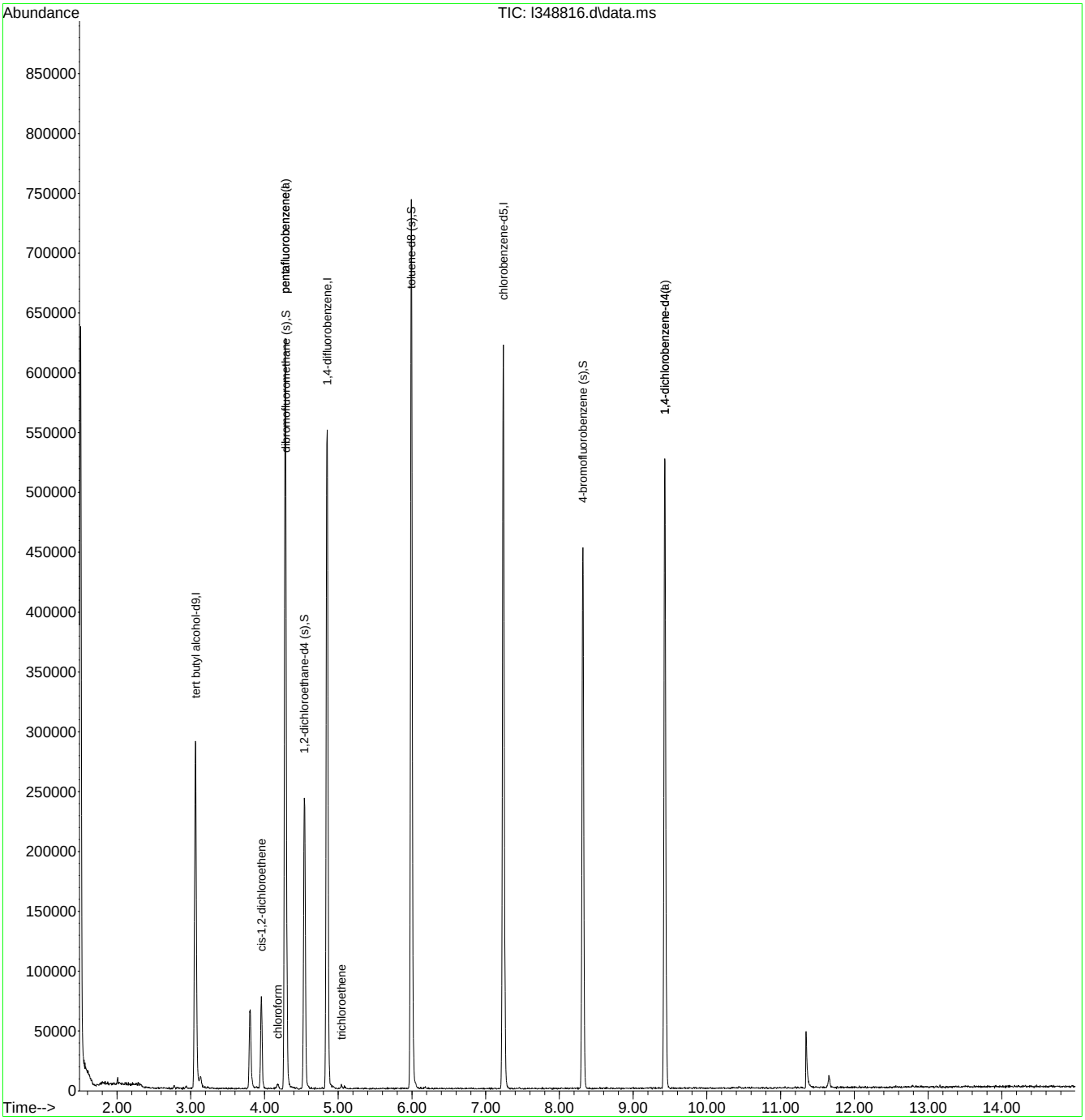
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.066	65	290742	500.00	ug/L	0.00
5) pentafluorobenzene	4.282	168	271794	50.00	ug/L	0.00
51) 1,4-difluorobenzene	4.850	114	376162	50.00	ug/L	0.00
72) chlorobenzene-d5	7.241	117	330864	50.00	ug/L	0.00
95) 1,4-dichlorobenzene-d4	9.429	152	146132	50.00	ug/L	0.00
123) pentafluorobenzene(a)	4.282	168	271528	50.00	ug/L	0.00
127) 1,4-dichlorobenzene-d4(a)	9.429	152	146152	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	4.292	113	110066	48.65	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 97.30%			
52) 1,2-dichloroethane-d4 (s)	4.542	65	141531	54.95	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 109.90%			
73) toluene-d8 (s)	5.993	98	459858	52.49	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 104.98%			
96) 4-bromofluorobenzene (s)	8.319	95	166930	49.67	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.34%			
Target Compounds						Qvalue
37) cis-1,2-dichloroethene	3.958	96	27416	8.15	ug/L	88
42) chloroform	4.180	83	3250	0.56	ug/L	86
59) trichloroethene	5.046	95	1148	0.36	ug/L #	70

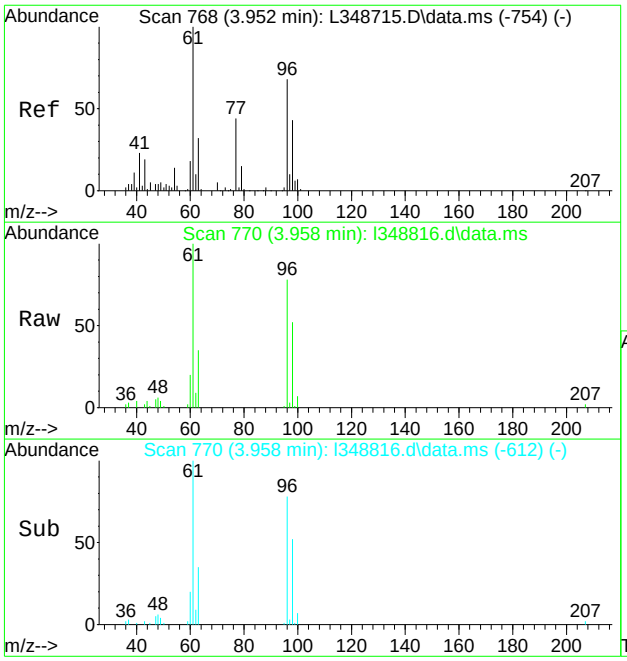
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\November 2022\nov. 1, 2022\vl10552\
Data File : l348816.d
Acq On : 29 Oct 2022 5:24 pm
Operator : BridgetK
Sample : jd54302-2 Inst : GCMSL
Misc : MS63421,VL10552,5,,,,1
ALS Vial : 19 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Results File: ML10548.RES
Quant Time: Nov 01 15:10:30 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Fri Oct 28 18:07:24 2022
Response via : Initial Calibration

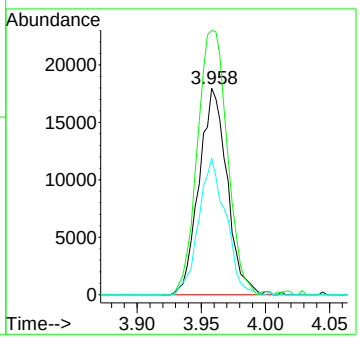


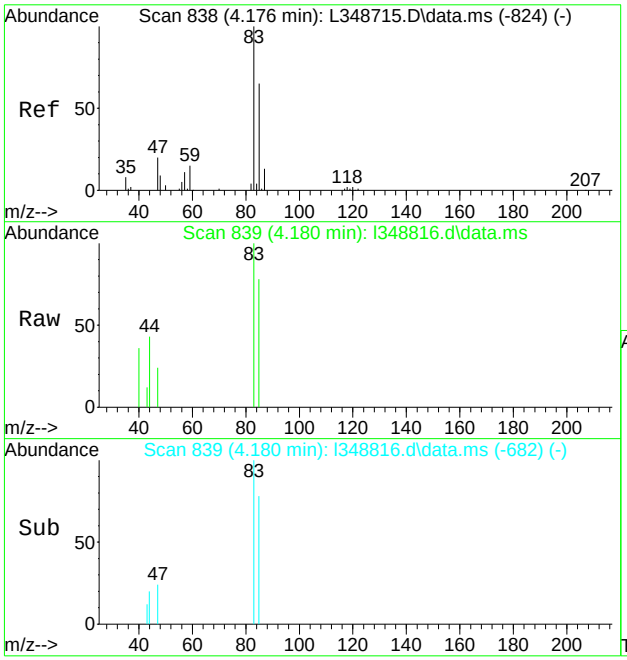


#37
cis-1,2-dichloroethene
Concen: 8.15 ug/L
RT: 3.958 min Scan# 770
Delta R.T. 0.006 min
Lab File: l348816.d
Acq: 29 Oct 2022 5:24 pm

Tgt Ion: 96 Resp: 27416

Ion	Ratio	Lower	Upper
96	100		
61	127.9	116.7	176.7
98	66.2	32.6	92.6

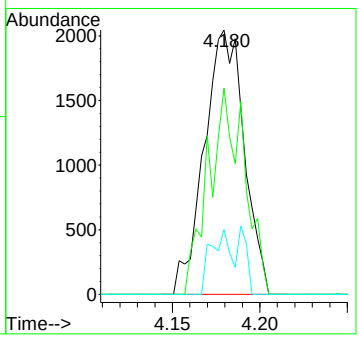


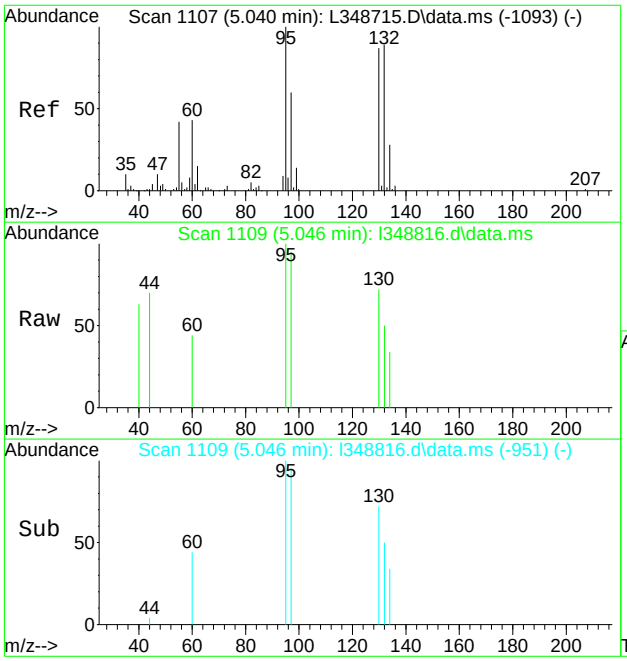


#42
chloroform
Concen: 0.56 ug/L
RT: 4.180 min Scan# 839
Delta R.T. 0.003 min
Lab File: l348816.d
Acq: 29 Oct 2022 5:24 pm

Tgt Ion: 83 Resp: 3250

Ion	Ratio	Lower	Upper
83	100		
85	78.1	34.8	94.8
47	24.5	0.0	52.3

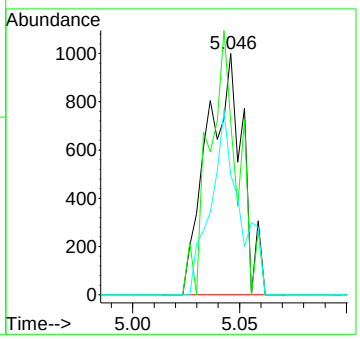




#59
trichloroethene
Concen: 0.36 ug/L
RT: 5.046 min Scan# 1109
Delta R.T. 0.006 min
Lab File: l348816.d
Acq: 29 Oct 2022 5:24 pm

Tgt Ion: 95 Resp: 1148

Ion	Ratio	Lower	Upper
95	100		
130	71.6	57.2	117.2
132	49.6	58.8	118.8#



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\November 2022\nov. 1, 2022\vl10552\
Data File : l348817.d
Acq On : 29 Oct 2022 5:48 pm
Operator : BridgetK
Sample : jd54302-3 Inst : GCMSL
Misc : MS63421,VL10552,5,,,,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Results File: ML10548.RES
Quant Time: Nov 01 15:11:52 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Fri Oct 28 18:07:24 2022
Response via : Initial Calibration

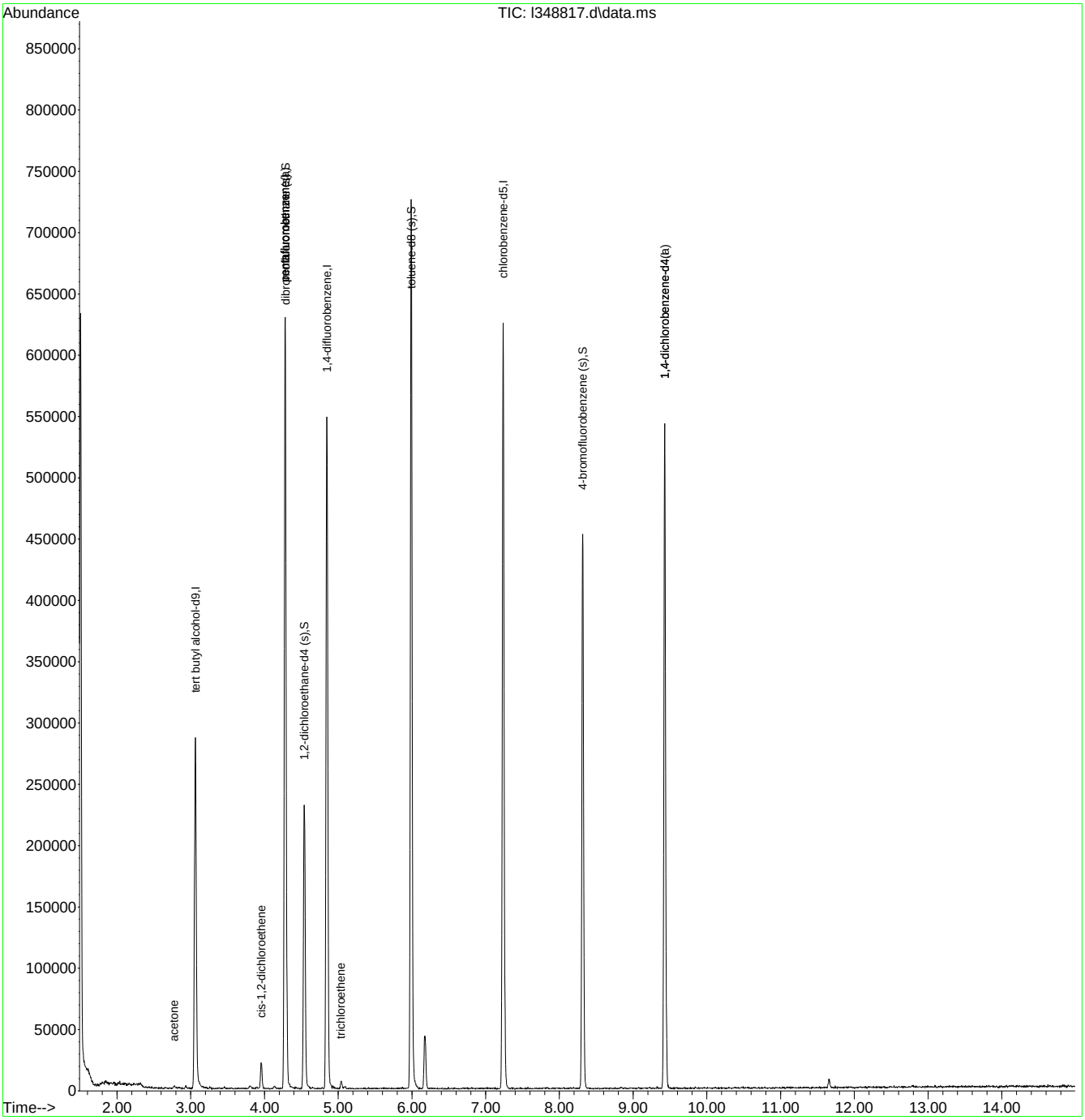
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.063	65	286526	500.00	ug/L	0.00
5) pentafluorobenzene	4.279	168	267608	50.00	ug/L	0.00
51) 1,4-difluorobenzene	4.847	114	368037	50.00	ug/L	0.00
72) chlorobenzene-d5	7.238	117	334322	50.00	ug/L	0.00
95) 1,4-dichlorobenzene-d4	9.429	152	143706	50.00	ug/L	0.00
123) pentafluorobenzene(a)	4.279	168	267608	50.00	ug/L	0.00
127) 1,4-dichlorobenzene-d4(a)	9.429	152	143705	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	4.285	113	110832	49.76	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.52%			
52) 1,2-dichloroethane-d4 (s)	4.542	65	136428	54.14	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 108.28%			
73) toluene-d8 (s)	5.989	98	459336	51.89	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 103.78%			
96) 4-bromofluorobenzene (s)	8.316	95	164096	49.65	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.30%			
Target Compounds						Qvalue
18) acetone	2.771	58	739	1.03	ug/L #	14
37) cis-1,2-dichloroethene	3.955	96	8000	2.42	ug/L	83
59) trichloroethene	5.033	95	2125	0.68	ug/L #	62

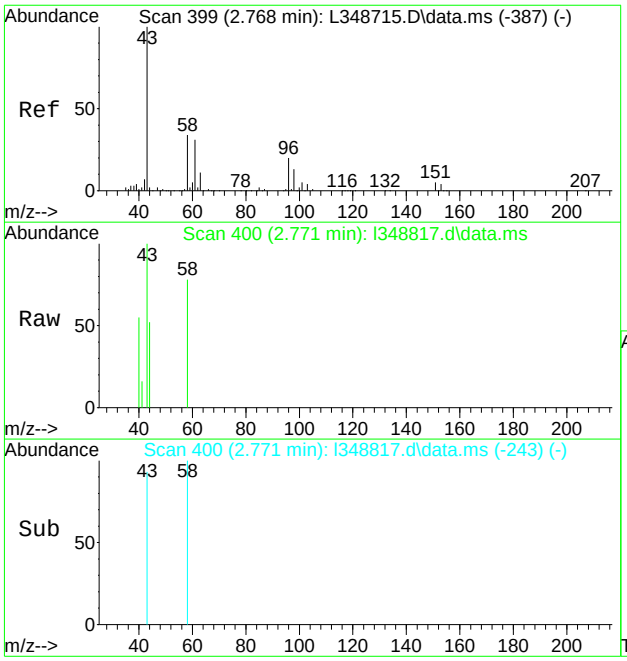
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\November 2022\nov. 1, 2022\vl10552\
Data File : l348817.d
Acq On : 29 Oct 2022 5:48 pm
Operator : BridgetK
Sample : jd54302-3 Inst : GCMSL
Misc : MS63421,VL10552,5,,,,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Results File: ML10548.RES
Quant Time: Nov 01 15:11:52 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Fri Oct 28 18:07:24 2022
Response via : Initial Calibration

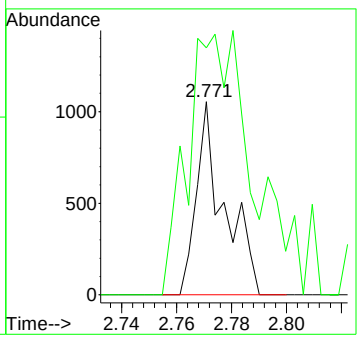


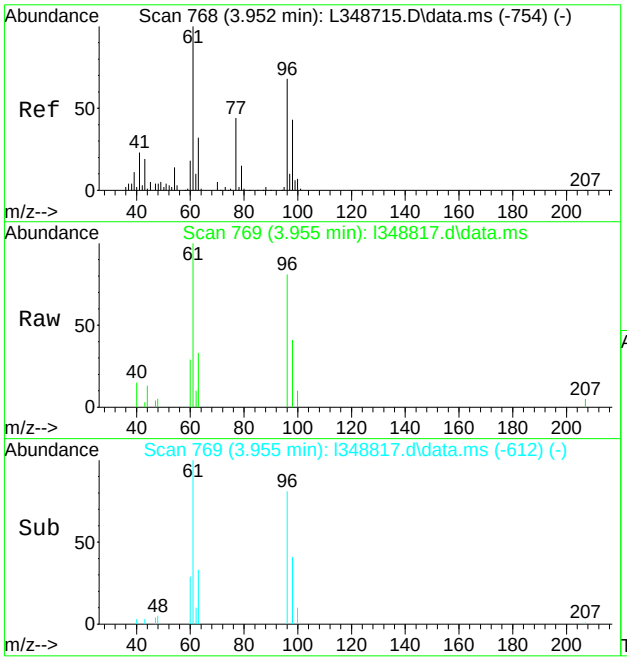


#18
acetone
Concen: 1.03 ug/L
RT: 2.771 min Scan# 400
Delta R.T. 0.003 min
Lab File: l348817.d
Acq: 29 Oct 2022 5:48 pm

Tgt Ion: 58 Resp: 739

Ion	Ratio	Lower	Upper
58	100		
43	127.8	263.8	323.8#

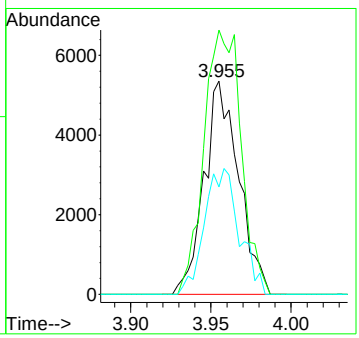


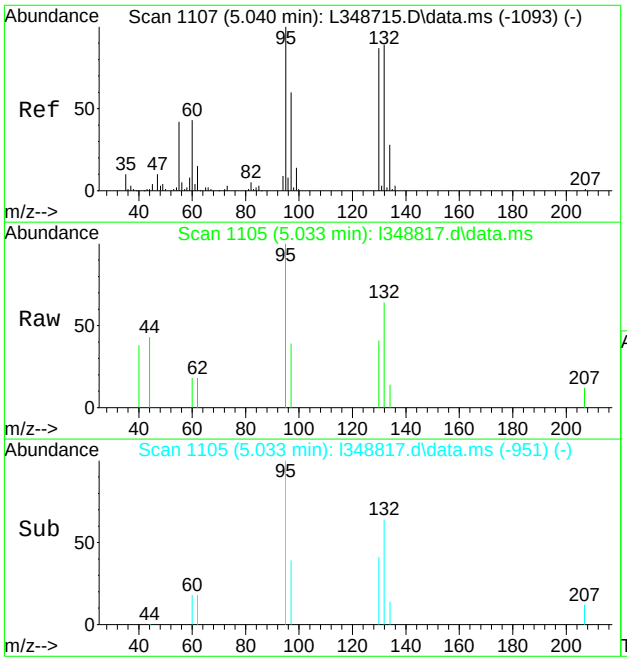


#37
cis-1,2-dichloroethene
Concen: 2.42 ug/L
RT: 3.955 min Scan# 769
Delta R.T. 0.003 min
Lab File: l348817.d
Acq: 29 Oct 2022 5:48 pm

Tgt Ion: 96 Resp: 8000

Ion	Ratio	Lower	Upper
96	100		
61	124.0	116.7	176.7
98	50.3	32.6	92.6

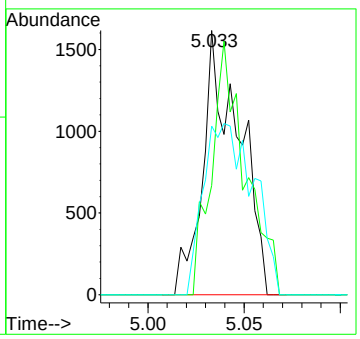




#59
trichloroethene
Concen: 0.68 ug/L
RT: 5.033 min Scan# 1105
Delta R.T. -0.007 min
Lab File: l348817.d
Acq: 29 Oct 2022 5:48 pm

Tgt Ion: 95 Resp: 2125

Ion	Ratio	Lower	Upper
95	100		
130	41.4	57.2	117.2#
132	63.8	58.8	118.8



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nelsonf\October\10-29-22\v2a9619\
Data File : 2a221293.d
Acq On : 28 Oct 2022 1:40 am
Operator : nickw
Sample : jd54302-4 Inst : GCMS2A
Misc : MS63421,V2A9619,5,,,,10
ALS Vial : 35 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Results File: M2A9596.RES
Quant Time: Oct 29 02:48:46 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 09:22:42 2022
QLast Update : Fri Oct 14 09:22:42 2022
Response via : Initial Calibration

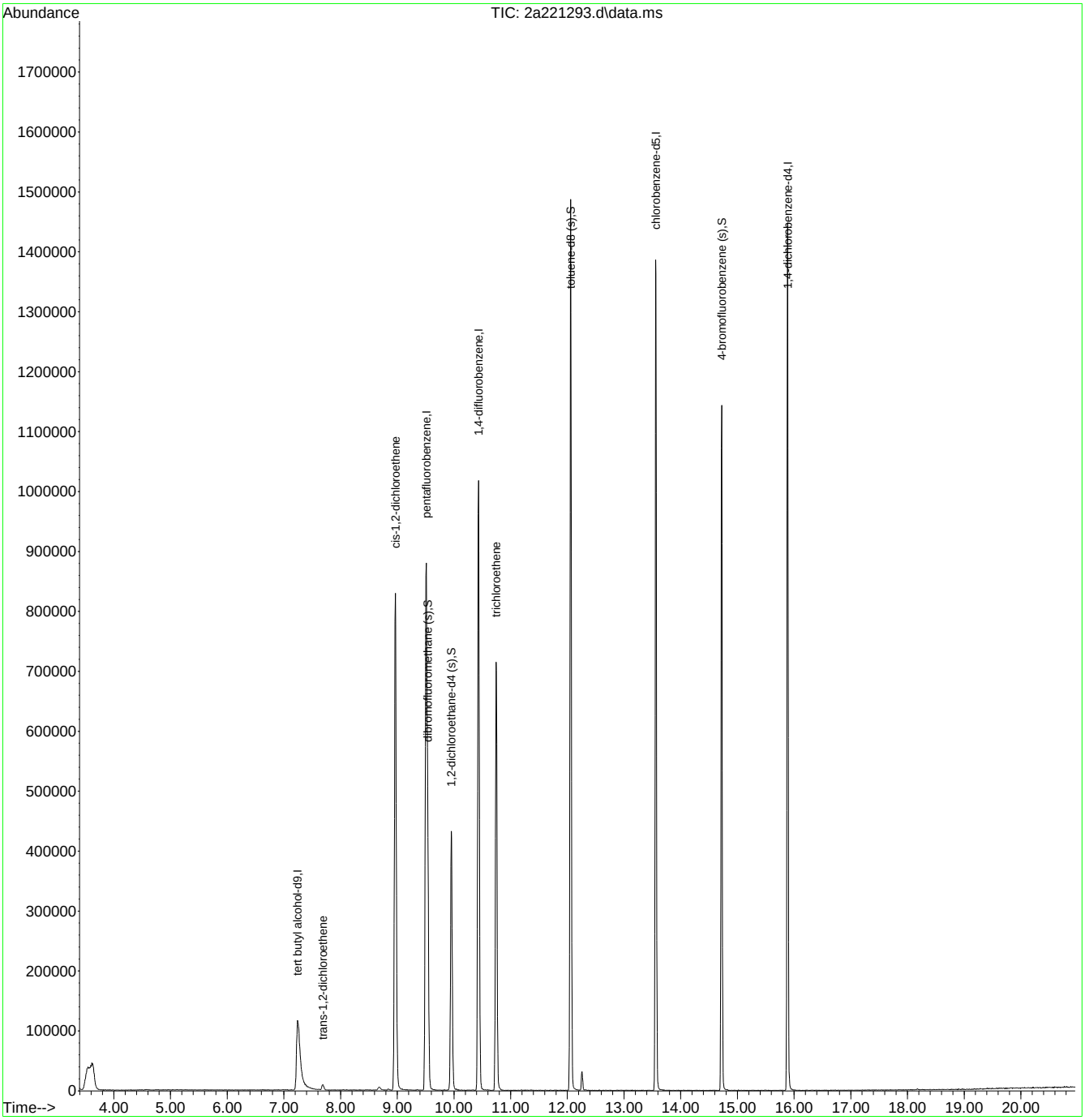
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.240	65	330645	500.00	ug/L	-0.01
5) pentafluorobenzene	9.511	168	662211	50.00	ug/L	0.00
50) 1,4-difluorobenzene	10.433	114	900265	50.00	ug/L	0.00
72) chlorobenzene-d5	13.564	117	739043	50.00	ug/L	0.00
96) 1,4-dichlorobenzene-d4	15.886	152	372515	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	9.537	113	287576	49.25	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 98.50%			
51) 1,2-dichloroethane-d4 (s)	9.951	65	321453	45.38	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 90.76%			
73) toluene-d8 (s)	12.059	98	934518	49.70	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.40%			
97) 4-bromofluorobenzene (s)	14.722	95	337993	47.99	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 95.98%			
Target Compounds						Qvalue
25) trans-1,2-dichloroethene	7.686	96	5309	0.97	ug/L #	83
36) cis-1,2-dichloroethene	8.965	96	434027	73.46	ug/L	91
59) trichloroethene	10.743	95	240106	42.12	ug/L	98

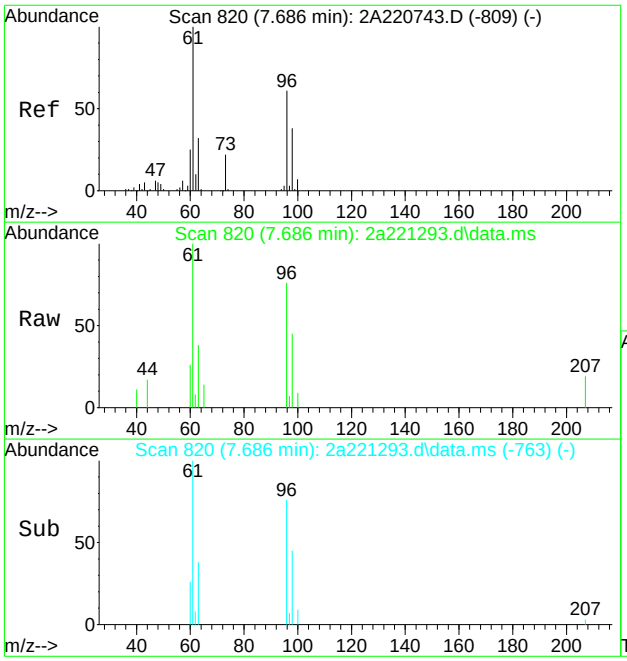
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nelsonf\October\10-29-22\v2a9619\
Data File : 2a221293.d
Acq On : 28 Oct 2022 1:40 am
Operator : nickw
Sample : jd54302-4 Inst : GCMS2A
Misc : MS63421,V2A9619,5,,,,10
ALS Vial : 35 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Results File: M2A9596.RES
Quant Time: Oct 29 02:48:46 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 09:22:42 2022
QLast Update : Fri Oct 14 09:22:42 2022
Response via : Initial Calibration

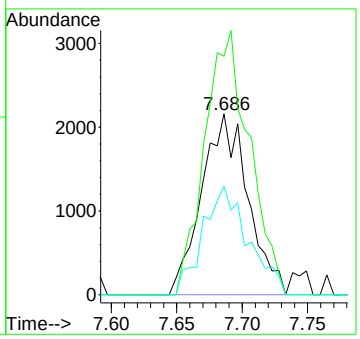


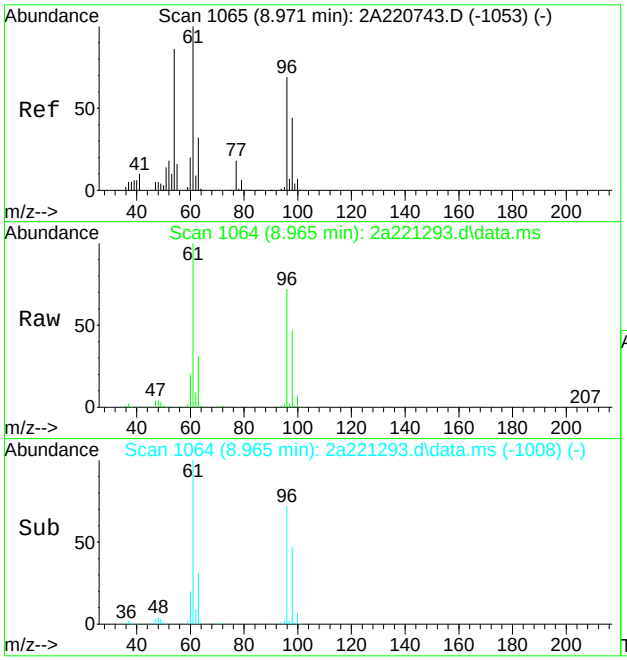


#25
trans-1,2-dichloroethene
Concen: 0.97 ug/L
RT: 7.686 min Scan# 820
Delta R.T. 0.000 min
Lab File: 2a221293.d
Acq: 28 Oct 2022 1:40 am

Tgt Ion: 96 Resp: 5309

Ion	Ratio	Lower	Upper
96	100		
61	131.7	132.8	192.8#
98	59.9	31.1	91.1

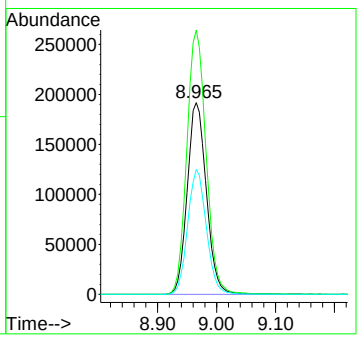


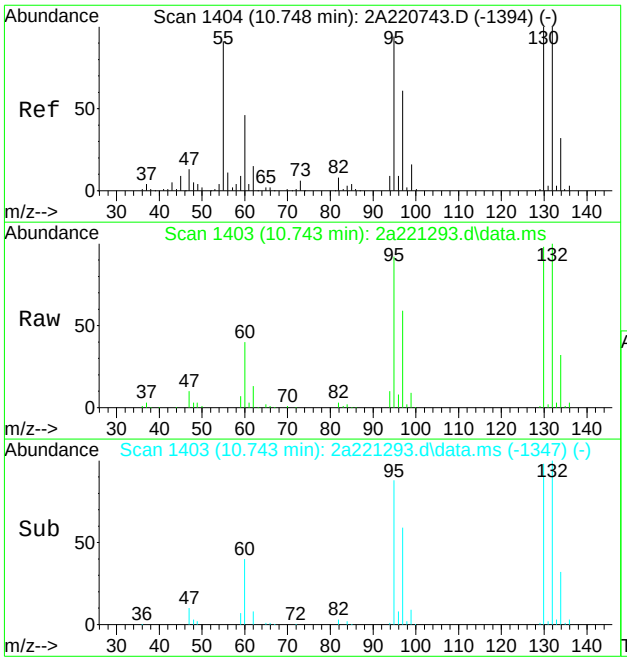


#36
cis-1,2-dichloroethene
Concen: 73.46 ug/L
RT: 8.965 min Scan# 1064
Delta R.T. -0.005 min
Lab File: 2a221293.d
Acq: 28 Oct 2022 1:40 am

Tgt Ion: 96 Resp: 434027

Ion	Ratio	Lower	Upper
96	100		
61	138.0	122.8	182.8
98	65.3	33.3	93.3

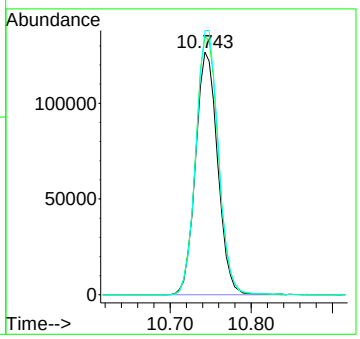




#59
trichloroethene
Concen: 42.12 ug/L
RT: 10.743 min Scan# 1403
Delta R.T. -0.005 min
Lab File: 2a221293.d
Acq: 28 Oct 2022 1:40 am

Tgt Ion: 95 Resp: 240106

Ion	Ratio	Lower	Upper
95	100		
130	106.3	75.5	135.5
132	109.0	76.0	136.0



7.1.4

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\October 2022\Oct. 31, 2022\vl10552\
Data File : l348804.d
Acq On : 29 Oct 2022 12:47 pm
Operator : BridgetK
Sample : jd54302-4 Inst : GCMSL
Misc : MS63421,VL10552,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Results File: ML10548.RES
Quant Time: Oct 31 22:31:20 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Fri Oct 28 18:07:24 2022
Response via : Initial Calibration

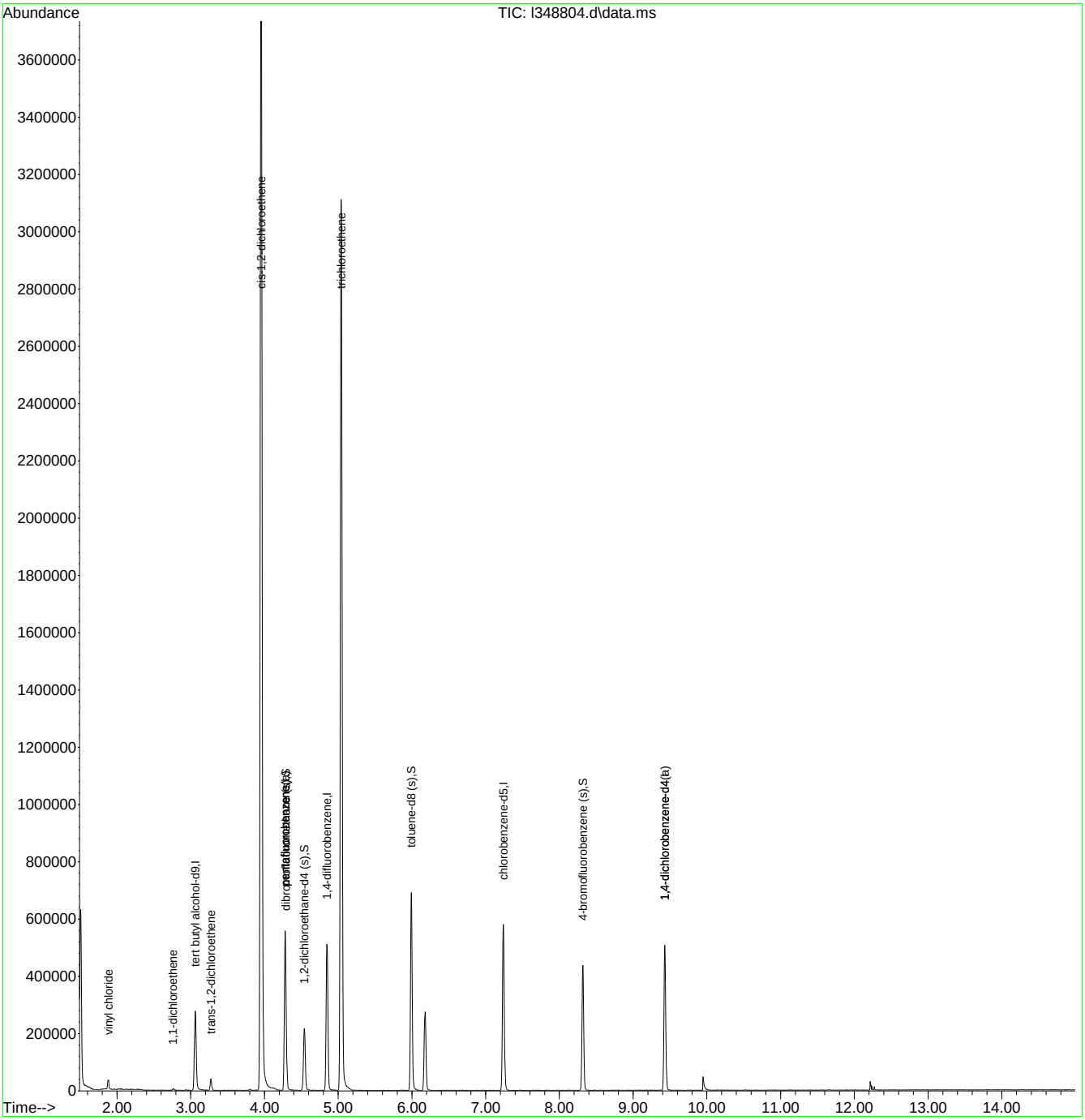
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.060	65	272742	500.00	ug/L	0.00
5) pentafluorobenzene	4.282	168	235596	50.00	ug/L	0.00
51) 1,4-difluorobenzene	4.847	114	344342	50.00	ug/L	0.00
72) chlorobenzene-d5	7.241	117	312282	50.00	ug/L	0.00
95) 1,4-dichlorobenzene-d4	9.429	152	138323	50.00	ug/L	0.00
123) pentafluorobenzene(a)	4.282	168	235596	50.00	ug/L	0.00
127) 1,4-dichlorobenzene-d4(a)	9.429	152	138099	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	4.289	113	97629	49.79	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.58%			
52) 1,2-dichloroethane-d4 (s)	4.542	65	126556	53.68	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 107.36%			
73) toluene-d8 (s)	5.993	98	426072	51.53	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 103.06%			
96) 4-bromofluorobenzene (s)	8.319	95	156653	49.24	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 98.48%			
Target Compounds						Qvalue
9) vinyl chloride	1.882	62	24189	5.68	ug/L	98
17) 1,1-dichloroethene	2.758	96	1505	0.59	ug/L	85
26) trans-1,2-dichloroethene	3.275	96	11975	4.43	ug/L	86
37) cis-1,2-dichloroethene	3.955	96	1700545	583.15	ug/L	82
59) trichloroethene	5.040	95	988929	339.37	ug/L	89

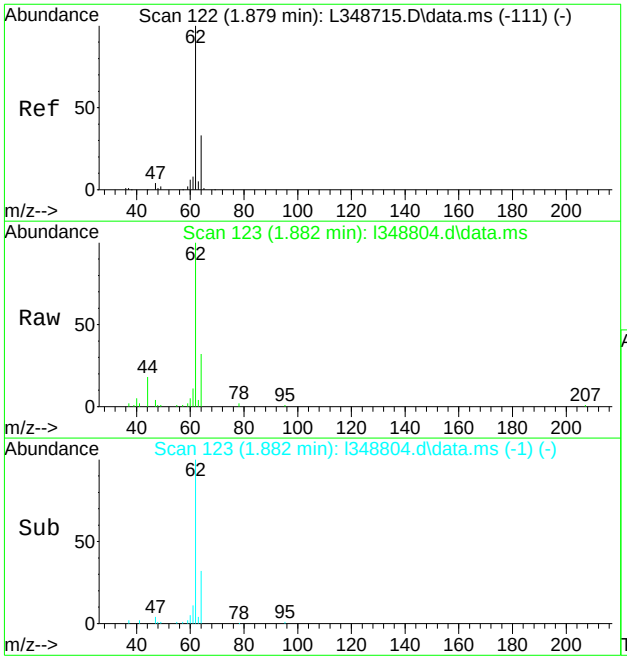
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\October 2022\Oct. 31, 2022\vl10552\
Data File : l348804.d
Acq On : 29 Oct 2022 12:47 pm
Operator : BridgetK
Sample : jd54302-4 Inst : GCMSL
Misc : MS63421,VL10552,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Results File: ML10548.RES
Quant Time: Oct 31 22:31:20 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Fri Oct 28 18:07:24 2022
Response via : Initial Calibration

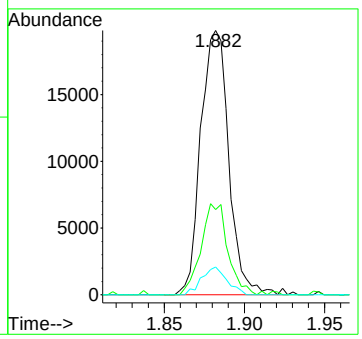


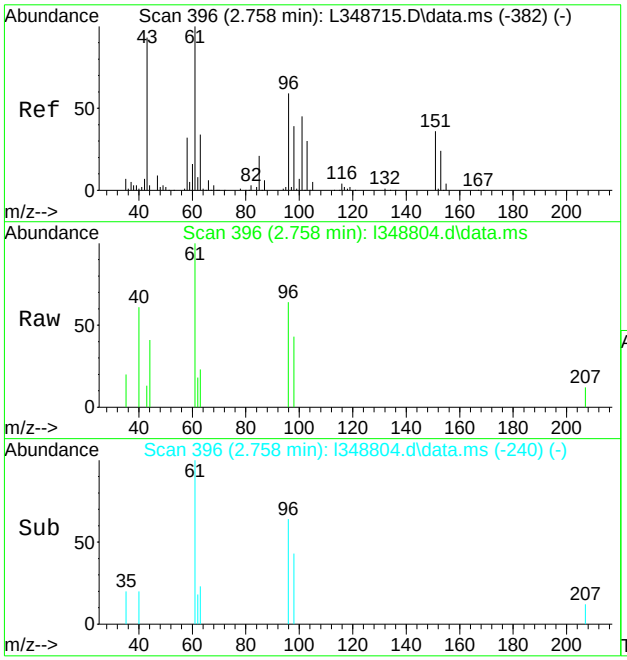


#9
vinyl chloride
Concen: 5.68 ug/L
RT: 1.882 min Scan# 123
Delta R.T. 0.003 min
Lab File: l348804.d
Acq: 29 Oct 2022 12:47 pm

Tgt Ion: 62 Resp: 24189

Ion	Ratio	Lower	Upper
62	100		
64	32.3	2.8	62.8
61	10.5	0.0	37.9

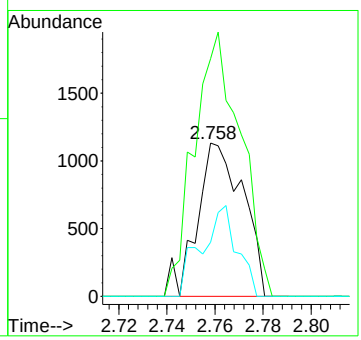


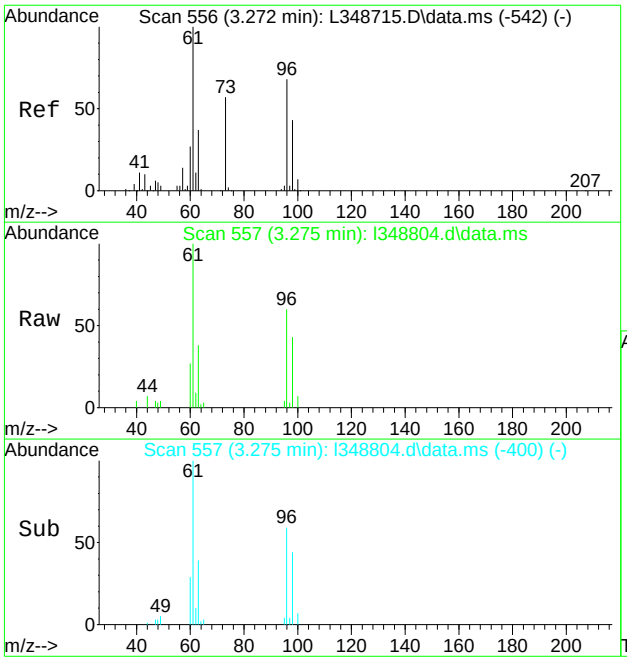


#17
1,1-dichloroethene
Concen: 0.59 ug/L
RT: 2.758 min Scan# 396
Delta R.T. 0.000 min
Lab File: l348804.d
Acq: 29 Oct 2022 12:47 pm

Tgt Ion: 96 Resp: 1505

Ion	Ratio	Lower	Upper
96	100		
61	155.1	139.4	199.4
63	35.2	27.3	87.3

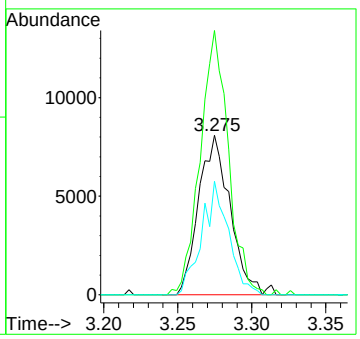


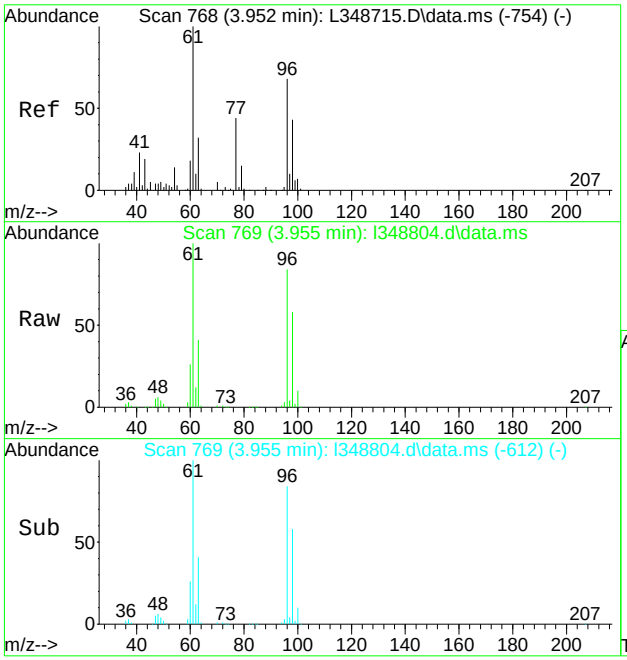


#26
trans-1,2-dichloroethene
Concen: 4.43 ug/L
RT: 3.275 min Scan# 557
Delta R.T. 0.003 min
Lab File: l348804.d
Acq: 29 Oct 2022 12:47 pm

Tgt Ion: 96 Resp: 11975

Ion	Ratio	Lower	Upper
96	100		
61	165.7	116.5	176.5
98	71.1	32.4	92.4

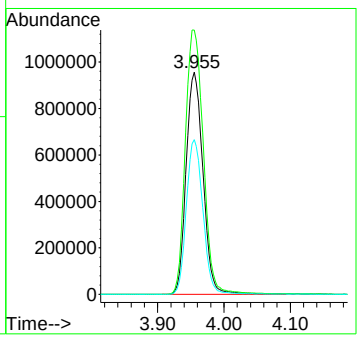


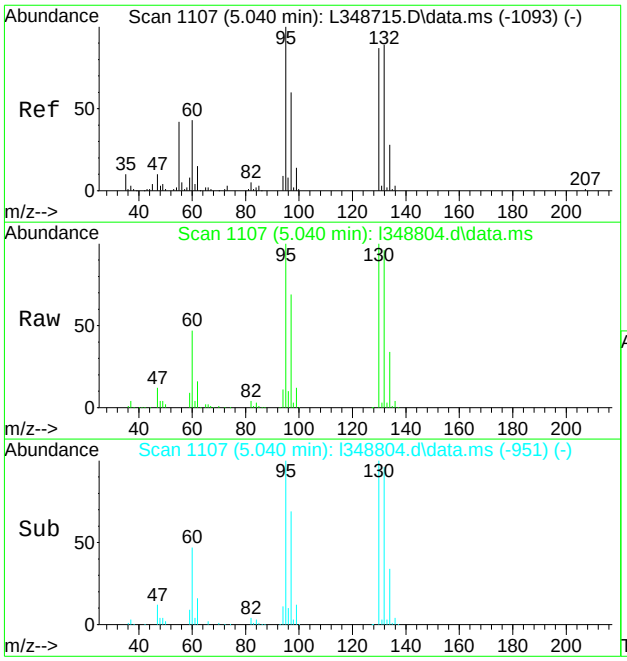


#37
cis-1,2-dichloroethene
Concen: 583.15 ug/L
RT: 3.955 min Scan# 769
Delta R.T. 0.003 min
Lab File: l348804.d
Acq: 29 Oct 2022 12:47 pm

Tgt Ion: 96 Resp: 1700545

Ion	Ratio	Lower	Upper
96	100		
61	118.9	116.7	176.7
98	69.5	32.6	92.6

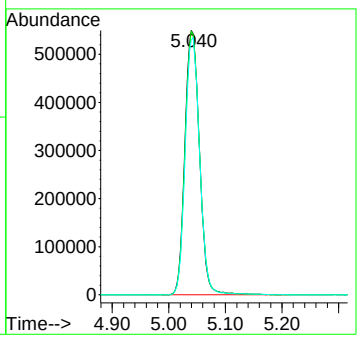




#59
trichloroethene
Concen: 339.37 ug/L
RT: 5.040 min Scan# 1107
Delta R.T. -0.000 min
Lab File: l348804.d
Acq: 29 Oct 2022 12:47 pm

Tgt Ion: 95 Resp: 988929

Ion	Ratio	Lower	Upper
95	100		
130	99.6	57.2	117.2
132	96.3	58.8	118.8



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nelsonf\October\10-29-22\v2a9619\
Data File : 2a221292.d
Acq On : 28 Oct 2022 1:11 am
Operator : nickw
Sample : jd54302-5 Inst : GCMS2A
Misc : MS63421,V2A9619,5,,,,1
ALS Vial : 34 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Results File: M2A9596.RES
Quant Time: Oct 29 02:47:58 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 09:22:42 2022
QLast Update : Fri Oct 14 09:22:42 2022
Response via : Initial Calibration

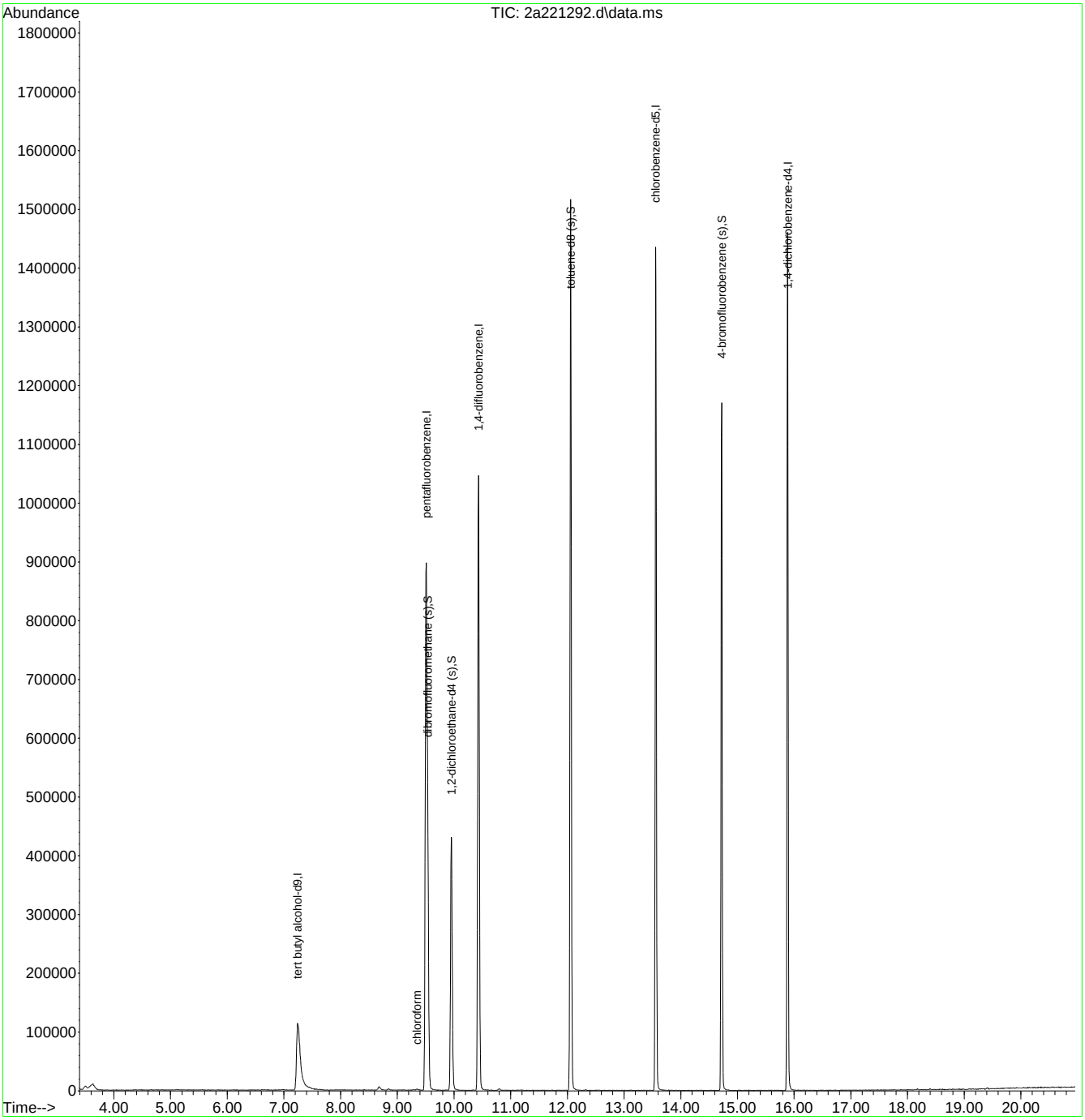
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.240	65	329182	500.00	ug/L	-0.01
5) pentafluorobenzene	9.511	168	680983	50.00	ug/L	0.00
50) 1,4-difluorobenzene	10.433	114	922186	50.00	ug/L	0.00
72) chlorobenzene-d5	13.558	117	758005	50.00	ug/L	0.00
96) 1,4-dichlorobenzene-d4	15.886	152	376768	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	9.537	113	295855	49.27	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 98.54%			
51) 1,2-dichloroethane-d4 (s)	9.956	65	324794	44.76	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 89.52%			
73) toluene-d8 (s)	12.059	98	958632	49.71	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.42%			
97) 4-bromofluorobenzene (s)	14.722	95	346168	48.60	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 97.20%			
Target Compounds						Qvalue
40) chloroform	9.343	83	2111	0.20	ug/L	84

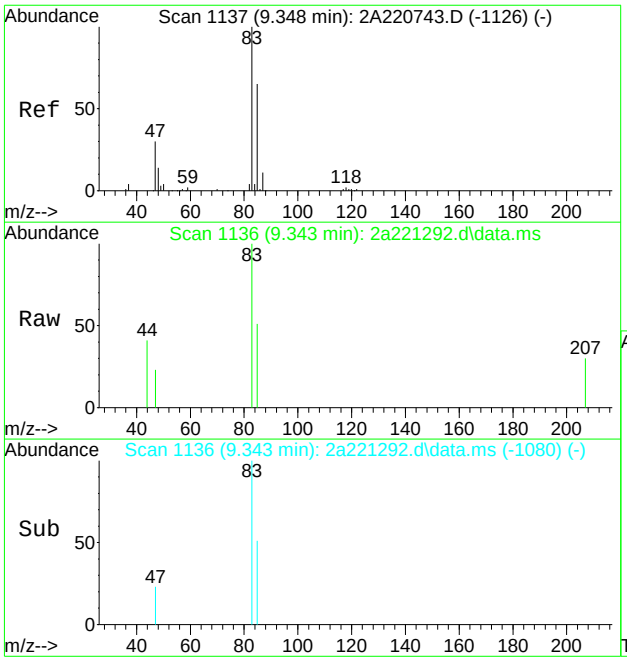
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nelsonf\October\10-29-22\v2a9619\
Data File : 2a221292.d
Acq On : 28 Oct 2022 1:11 am
Operator : nickw
Sample : jd54302-5 Inst : GCMS2A
Misc : MS63421,V2A9619,5,,,,1
ALS Vial : 34 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Results File: M2A9596.RES
Quant Time: Oct 29 02:47:58 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 09:22:42 2022
QLast Update : Fri Oct 14 09:22:42 2022
Response via : Initial Calibration

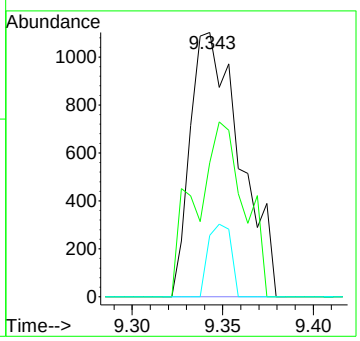




#40
chloroform
Concen: 0.20 ug/L
RT: 9.343 min Scan# 1136
Delta R.T. -0.005 min
Lab File: 2a221292.d
Acq: 28 Oct 2022 1:11 am

Tgt Ion: 83 Resp: 2111

Ion	Ratio	Lower	Upper
83	100		
85	50.7	34.5	94.5
47	23.2	0.7	60.7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nelsonf\October\10-29-22\v2a9619\
Data File : 2a221291.d
Acq On : 28 Oct 2022 12:43 am
Operator : nickw
Sample : mb Inst : GCMS2A
Misc : MS46075,V2A9619,5,,,,1
ALS Vial : 33 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Results File: M2A9596.RES
Quant Time: Oct 29 02:45:38 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 09:22:42 2022
QLast Update : Fri Oct 14 09:22:42 2022
Response via : Initial Calibration

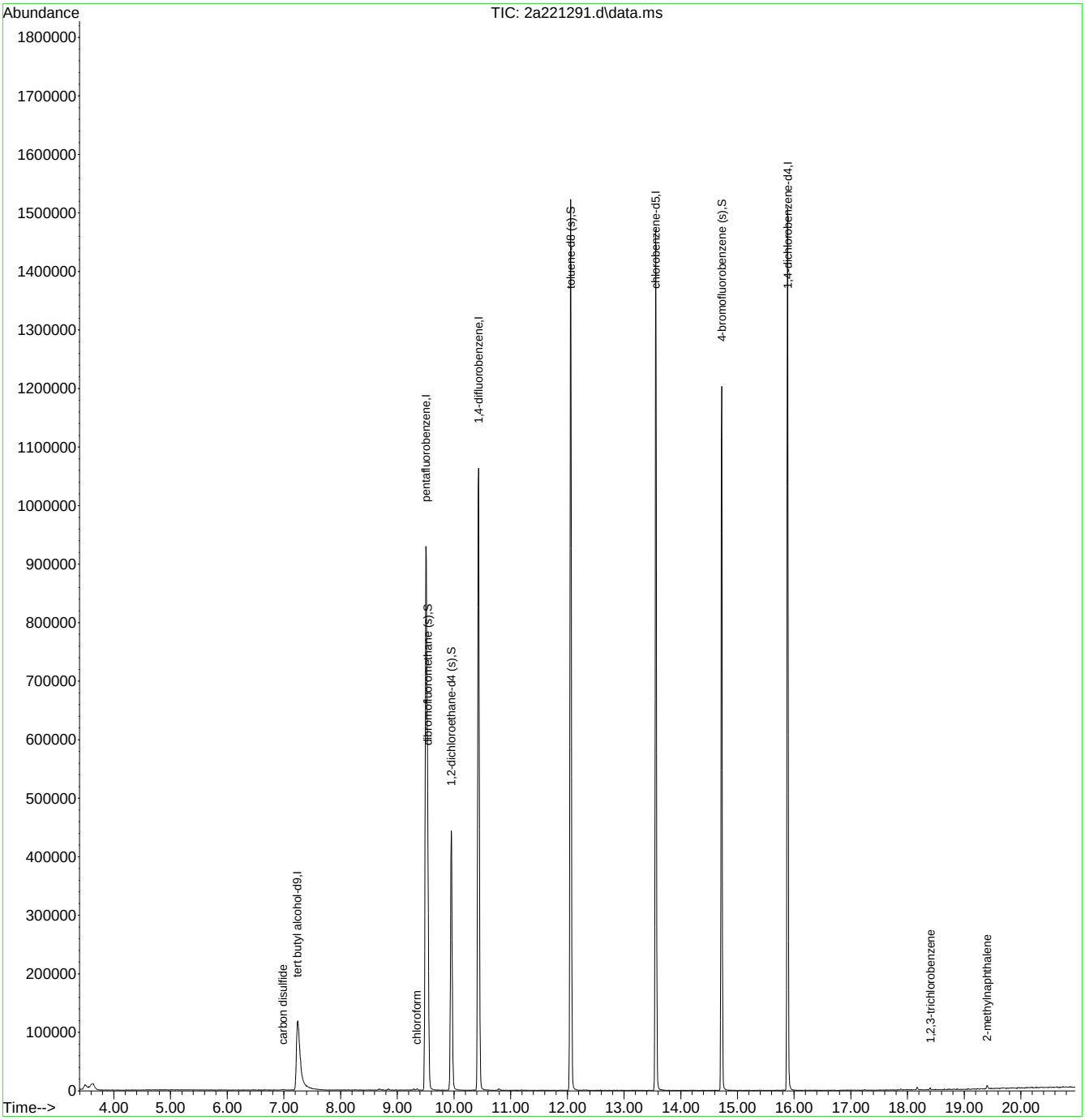
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.235	65	338300	500.00	ug/L	-0.02
5) pentafluorobenzene	9.505	168	695700	50.00	ug/L	0.00
50) 1,4-difluorobenzene	10.433	114	944877	50.00	ug/L	0.00
72) chlorobenzene-d5	13.558	117	772631	50.00	ug/L	0.00
96) 1,4-dichlorobenzene-d4	15.886	152	391363	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	9.537	113	297855	48.55	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 97.10%			
51) 1,2-dichloroethane-d4 (s)	9.951	65	332797	44.76	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 89.52%			
73) toluene-d8 (s)	12.059	98	983486	50.03	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.06%			
97) 4-bromofluorobenzene (s)	14.722	95	352324	47.62	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 95.24%			
Target Compounds						Qvalue
21) carbon disulfide	6.978	76	2292	0.13	ug/L	87
40) chloroform	9.338	83	2333	0.22	ug/L	81
121) 1,2,3-trichlorobenzene	18.403	180	1413	0.26	ug/L #	64
123) 2-methylnaphthalene	19.404	142	4121	1.25	ug/L	85

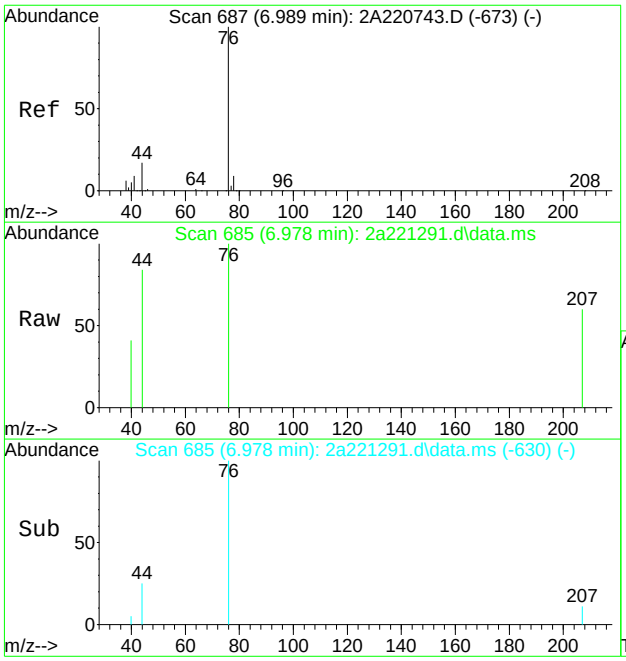
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nelsonf\October\10-29-22\v2a9619\
Data File : 2a221291.d
Acq On : 28 Oct 2022 12:43 am
Operator : nickw
Sample : mb Inst : GCMS2A
Misc : MS46075,V2A9619,5,,,,1
ALS Vial : 33 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Results File: M2A9596.RES
Quant Time: Oct 29 02:45:38 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 09:22:42 2022
QLast Update : Fri Oct 14 09:22:42 2022
Response via : Initial Calibration

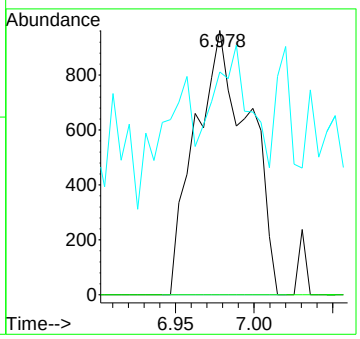


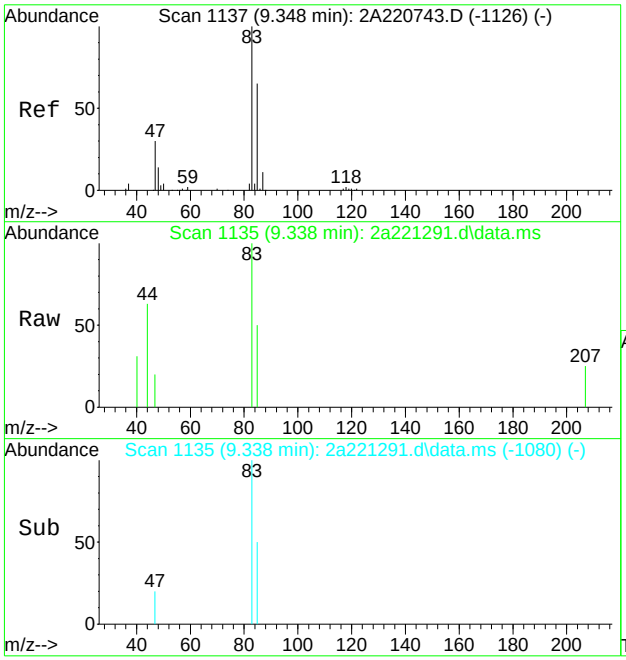


#21
carbon disulfide
Concen: 0.13 ug/L
RT: 6.978 min Scan# 685
Delta R.T. -0.010 min
Lab File: 2a221291.d
Acq: 28 Oct 2022 12:43 am

Tgt Ion: 76 Resp: 2292

Ion	Ratio	Lower	Upper
76	100		
78	0.0	0.0	39.1
44	19.0	0.0	46.6

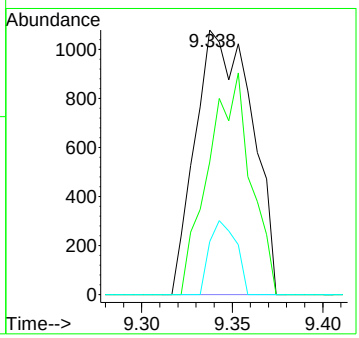


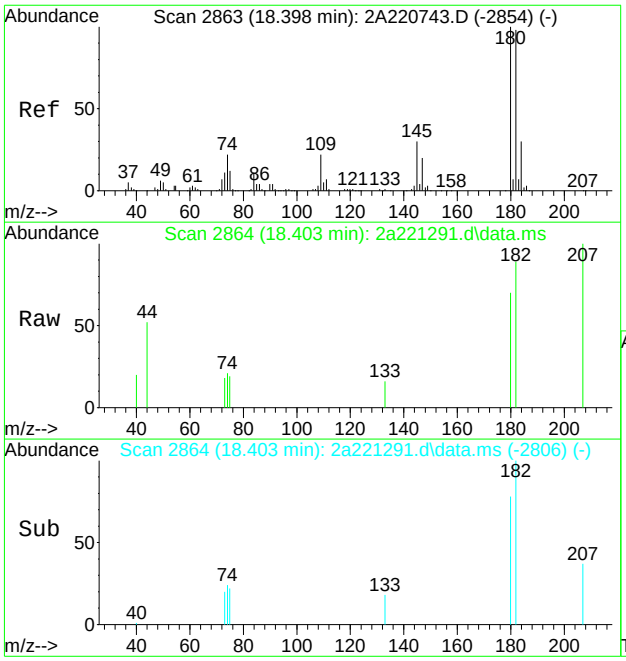


#40
chloroform
Concen: 0.22 ug/L
RT: 9.338 min Scan# 1135
Delta R.T. -0.011 min
Lab File: 2a221291.d
Acq: 28 Oct 2022 12:43 am

Tgt Ion: 83 Resp: 2333

Ion	Ratio	Lower	Upper
83	100		
85	50.0	34.5	94.5
47	19.9	0.7	60.7

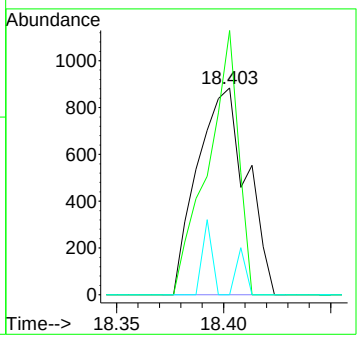


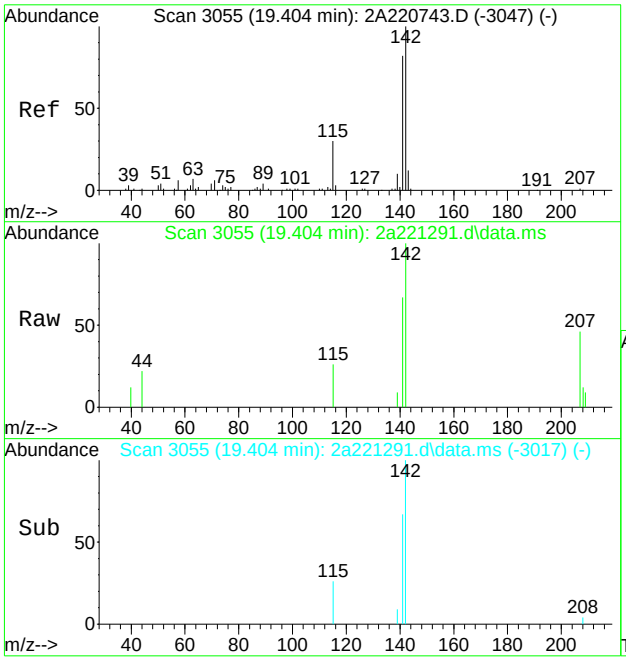


#121
1,2,3-trichlorobenzene
Concen: 0.26 ug/L
RT: 18.403 min Scan# 2864
Delta R.T. 0.005 min
Lab File: 2a221291.d
Acq: 28 Oct 2022 12:43 am

Tgt Ion:180 Resp: 1413

Ion	Ratio	Lower	Upper
180	100		
182	127.8	68.3	128.3
184	0.0	0.5	60.5#

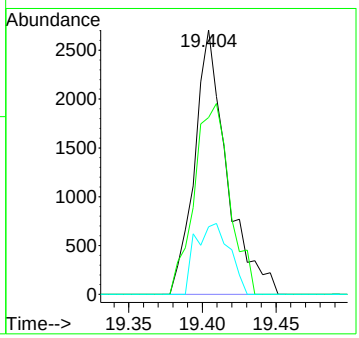




#123
2-methylnaphthalene
Concen: 1.25 ug/L
RT: 19.404 min Scan# 3055
Delta R.T. 0.000 min
Lab File: 2a221291.d
Acq: 28 Oct 2022 12:43 am

Tgt Ion:142 Resp: 4121

Ion	Ratio	Lower	Upper
142	100		
141	66.9	62.1	102.1
115	25.6	9.8	49.8



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\October 2022\Oct. 31, 2022\vl10552\
Data File : l348803.d
Acq On : 29 Oct 2022 12:24 pm
Operator : BridgetK
Sample : mb Inst : GCMSL
Misc : MS46075,VL10552,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Results File: ML10548.RES
Quant Time: Oct 31 22:27:12 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Fri Oct 28 18:07:24 2022
Response via : Initial Calibration

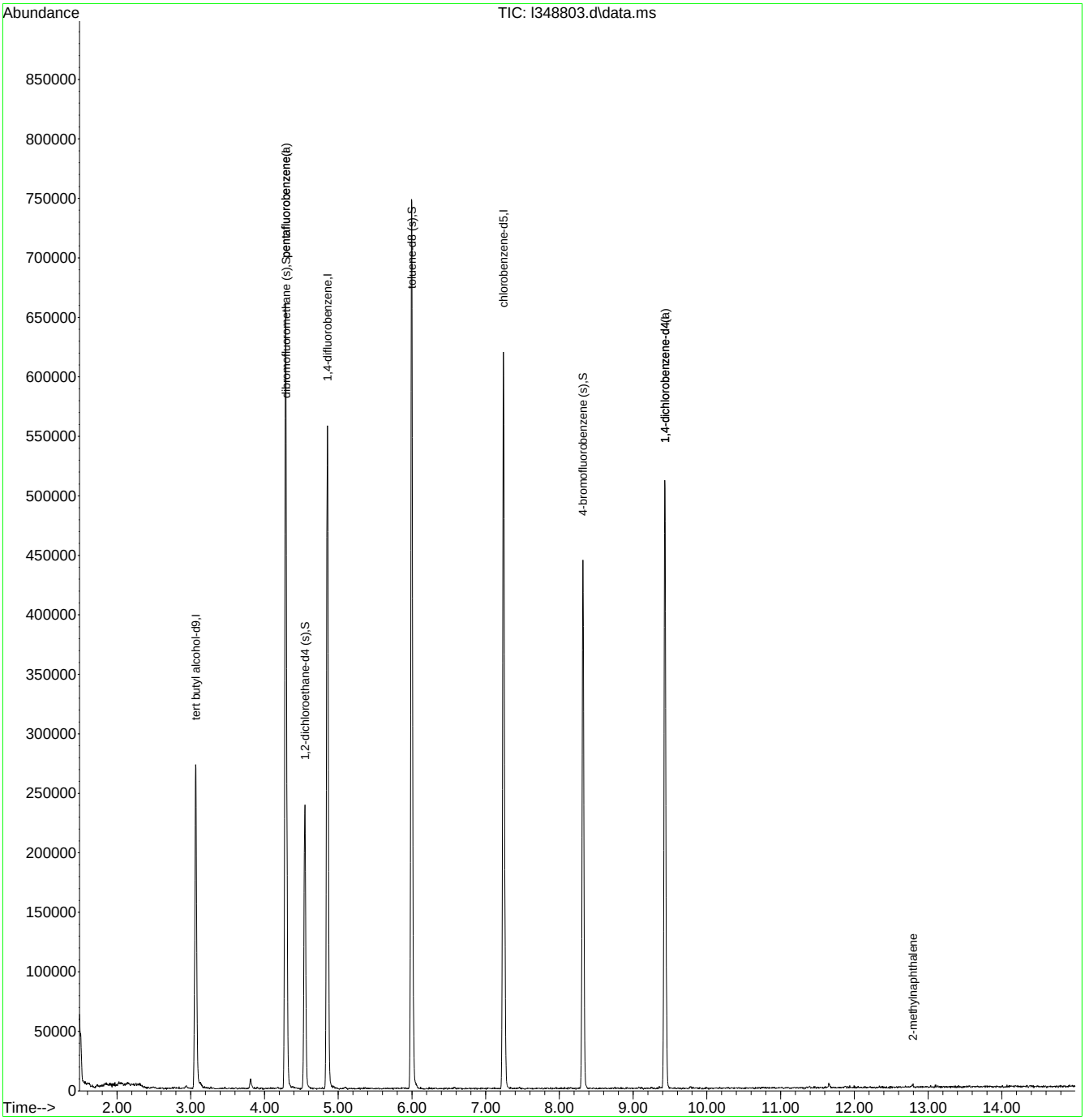
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.066	65	274853	500.00	ug/L	0.00
5) pentafluorobenzene	4.289	168	274165	50.00	ug/L	0.00
51) 1,4-difluorobenzene	4.853	114	371986	50.00	ug/L	0.00
72) chlorobenzene-d5	7.241	117	326352	50.00	ug/L	0.00
95) 1,4-dichlorobenzene-d4	9.432	152	140271	50.00	ug/L	0.00
123) pentafluorobenzene(a)	4.289	168	273072	50.00	ug/L	0.00
127) 1,4-dichlorobenzene-d4(a)	9.432	152	140272	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	4.295	113	111665	48.93	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 97.86%			
52) 1,2-dichloroethane-d4 (s)	4.549	65	135911	53.36	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 106.72%			
73) toluene-d8 (s)	5.999	98	460696	53.31	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 106.62%			
96) 4-bromofluorobenzene (s)	8.319	95	160869	49.87	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.74%			
Target Compounds						Qvalue
122) 2-methylnaphthalene	12.795	142	1205	0.24	ug/L	# 63

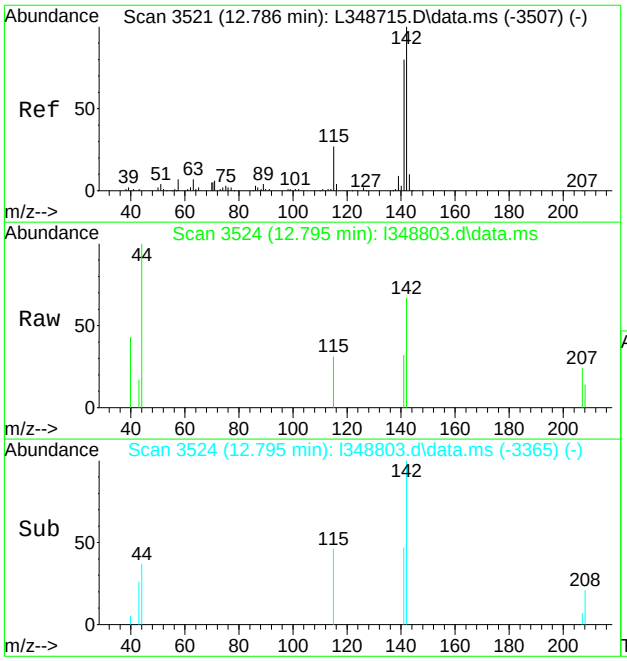
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\October 2022\Oct. 31, 2022\vl10552\
Data File : l348803.d
Acq On : 29 Oct 2022 12:24 pm
Operator : BridgetK
Sample : mb Inst : GCMSL
Misc : MS46075,VL10552,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Results File: ML10548.RES
Quant Time: Oct 31 22:27:12 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Fri Oct 28 18:07:24 2022
Response via : Initial Calibration

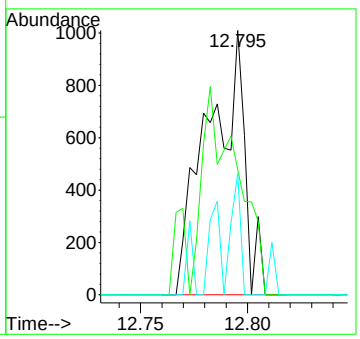




#122
2-methylnaphthalene
Concen: 0.24 ug/L
RT: 12.795 min Scan# 3524
Delta R.T. 0.009 min
Lab File: l348803.d
Acq: 29 Oct 2022 12:24 pm

Tgt Ion:142 Resp: 1205

Ion	Ratio	Lower	Upper
142	100		
141	47.3	59.9	99.9#
115	45.9	7.2	47.2



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nelsonf\October\10-29-22\v2a9619\
Data File : 2a221289.d
Acq On : 27 Oct 2022 11:46 pm
Operator : nickw
Sample : bs Inst : GCMS2A
Misc : MS46075,V2A9619,5,,,,1
ALS Vial : 31 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Results File: M2A9596.RES
Quant Time: Oct 29 02:42:14 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 09:22:42 2022
QLast Update : Fri Oct 14 09:22:42 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.246	65	339350	500.00	ug/L	0.00
5) pentafluorobenzene	9.511	168	690717	50.00	ug/L	0.00
50) 1,4-difluorobenzene	10.433	114	931670	50.00	ug/L	0.00
72) chlorobenzene-d5	13.563	117	743342	50.00	ug/L	0.00
96) 1,4-dichlorobenzene-d4	15.886	152	388243	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	9.537	113	297023	48.77	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 97.54%			
51) 1,2-dichloroethane-d4 (s)	9.956	65	320447	43.71	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 87.42%			
73) toluene-d8 (s)	12.059	98	962166	50.88	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 101.76%			
97) 4-bromofluorobenzene (s)	14.722	95	345047	47.01	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 94.02%			
Target Compounds						Qvalue
2) ethanol	5.972	45	311350	4555.30	ug/L	100
3) tertiary butyl alcohol	7.366	59	191205	220.08	ug/L	93
4) 1,4-dioxane	11.083	88	66232	1303.25	ug/L	88
6) chlorodifluoromethane	3.990	51	343327	35.79	ug/L	99
7) dichlorodifluoromethane	3.963	85	337954	46.39	ug/L	98
8) chloromethane	4.346	50	276266	25.46	ug/L	99
9) vinyl chloride	4.572	62	240318	28.95	ug/L	98
10) 1,3-butadiene	4.624	54	151309	23.97	ug/L	98
11) bromomethane	5.190	94	214109	42.16	ug/L	98
12) chloroethane	5.358	64	189941	42.73	ug/L	96
13) trichlorofluoromethane	5.783	101	411614	46.05	ug/L	98
14) ethyl ether	6.192	74	134503	43.33	ug/L	97
15) acrolein	6.407	56	57137	42.70	ug/L	93
16) freon 113	6.616	151	211615	43.49	ug/L	94
17) 1,1-dichloroethene	6.601	96	215229	42.37	ug/L	90
18) acetone	6.601	43	352250	94.71	ug/L	90
19) acetonitrile	7.015	41	394401	424.24	ug/L	96
20) iodomethane	6.847	142	457864	47.27	ug/L	99
21) carbon disulfide	6.983	76	701420	40.02	ug/L	93
22) methylene chloride	7.303	84	242990	42.92	ug/L	91
23) methyl acetate	7.062	43	239117	39.03	ug/L	92
24) methyl tert butyl ether	7.660	73	695816	43.50	ug/L	94
25) trans-1,2-dichloroethene	7.686	96	240167	41.94	ug/L	93
26) hexane	8.043	57	412450	36.25	ug/L	96
27) di-isopropyl ether	8.252	45	954679	38.64	ug/L	96
28) ethyl tert-butyl ether	8.708	59	899638	42.12	ug/L	99
29) 2-butanone	8.902	72	120330	151.53	ug/L #	89
30) 1,1-dichloroethane	8.257	63	457300	41.37	ug/L	98
31) chloroprene	8.357	53	420102	39.98	ug/L	94
33) vinyl acetate	8.200	86	53056	63.42	ug/L #	61
34) ethyl acetate	8.923	45	48869	40.96	ug/L	79
35) 2,2-dichloropropane	8.997	77	298665	35.89	ug/L	98
36) cis-1,2-dichloroethene	8.971	96	267027	43.33	ug/L	93
37) propionitrile	8.976	54	452700	457.39	ug/L	87
38) bromochloromethane	9.259	130	189754	48.24	ug/L	91
39) tetrahydrofuran	9.285	42	93654	40.23	ug/L	93
40) chloroform	9.348	83	436275	41.53	ug/L	95
41) tert-butyl formate	9.385	59	234100	56.10	ug/L	96
42) isobutyl alcohol	9.741	43	155631	418.49	ug/L	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nelsonf\October\10-29-22\v2a9619\
Data File : 2a221289.d
Acq On : 27 Oct 2022 11:46 pm
Operator : nickw
Sample : bs Inst : GCMS2A
Misc : MS46075,V2A9619,5,,,,1
ALS Vial : 31 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Results File: M2A9596.RES
Quant Time: Oct 29 02:42:14 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 09:22:42 2022
QLast Update : Fri Oct 14 09:22:42 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) methacrylonitrile	9.175	67	114410	46.93	ug/L		93
45) 1,1,1-trichloroethane	9.605	97	391034	43.57	ug/L		95
46) cyclohexane	9.715	84	357317	41.59	ug/L		89
47) 1,1-dichloropropene	9.773	75	317723	41.59	ug/L		98
48) tert-amyl alcohol	9.904	73	82080	209.28	ug/L		96
49) carbon tetrachloride	9.799	117	353354	45.35	ug/L		98
52) 2,2,4-trimethylpentane	10.119	57	1009404	38.86	ug/L		95
53) tert-amyl methyl ether	10.103	73	739893	43.10	ug/L		98
54) n-butyl alcohol	10.491	56	507021	2291.29	ug/L		95
55) benzene	10.019	78	916585	43.28	ug/L		99
56) heptane	10.281	57	208421	41.62	ug/L		98
57) isopropyl acetate	9.941	87	59564	48.52	ug/L	#	71
58) 1,2-dichloroethane	10.045	62	350880	38.99	ug/L		97
59) trichloroethene	10.743	95	258410	43.80	ug/L		95
60) ethyl acrylate	10.737	55	424178	44.82	ug/L		99
61) 2-nitropropane	11.498	41	62827	39.57	ug/L		93
62) 2-chloroethyl vinyl ether	11.534	63	598152	483.16	ug/L		97
63) methyl methacrylate	11.005	100	75541	49.64	ug/L	#	67
64) 1,2-dichloropropane	11.031	63	270123	43.26	ug/L		98
65) methylcyclohexane	11.042	83	398941	40.74	ug/L		95
66) dibromomethane	11.141	93	161023	47.41	ug/L		93
67) bromodichloromethane	11.298	83	344760	44.80	ug/L		98
68) epichlorohydrin	11.618	57	155932	222.62	ug/L		98
69) cis-1,3-dichloropropene	11.755	75	387743	42.39	ug/L		89
70) 4-methyl-2-pentanone	11.859	58	476228	178.86	ug/L		87
71) 3-methyl-1-butanol	11.865	70	142569	885.15	ug/L		93
74) toluene	12.132	92	543364	46.26	ug/L		99
75) trans-1,3-dichloropropene	12.321	75	347773	47.13	ug/L		98
76) ethyl methacrylate	12.316	69	309295	48.14	ug/L		91
77) 1,1,2-trichloroethane	12.536	83	186990	49.48	ug/L		96
78) 2-hexanone	12.704	58	445432	168.75	ug/L		90
79) tetrachloroethene	12.683	166	295350	47.92	ug/L		98
80) 1,3-dichloropropane	12.719	76	331924	46.43	ug/L		99
81) butyl acetate	12.787	56	198033	46.67	ug/L		86
82) dibromochloromethane	12.960	129	296155	54.16	ug/L		97
83) 1,2-dibromoethane	13.113	107	249685	52.12	ug/L		100
84) n-butyl ether	13.558	57	999656	40.73	ug/L		98
85) chlorobenzene	13.595	112	620319	47.33	ug/L		94
86) 1,1,1,2-tetrachloroethane	13.658	131	258644	51.82	ug/L		100
87) ethylbenzene	13.653	91	949341	44.11	ug/L		99
88) m,p-xylene	13.778	106	768323	91.68	ug/L		97
89) o-xylene	14.177	91	752675	44.29	ug/L		100
90) styrene	14.187	104	617940	46.92	ug/L		99
91) n-amyl acetate	14.224	70	146212	44.17	ug/L	#	81
92) bromoform	14.408	173	219719	59.11	ug/L		97
93) butyl acrylate	14.009	55	547769	45.21	ug/L		97
94) isopropylbenzene	14.523	105	928754	43.99	ug/L		97
95) cis-1,4-dichloro-2-butene	14.560	88	89983	47.48	ug/L	#	84
98) bromobenzene	14.900	156	301209	47.98	ug/L		90
99) 1,1,2,2-tetrachloroethane	14.801	83	279201	47.83	ug/L		99
100) trans-1,4-dichloro-2-b...	14.838	53	65962	39.36	ug/L		88
101) 1,2,3-trichloropropane	14.885	110	75250	49.77	ug/L		97
102) n-propylbenzene	14.937	91	1049895	41.78	ug/L		98
103) 2-chlorotoluene	15.068	126	255847	45.99	ug/L		90
104) 4-chlorotoluene	15.178	91	667224	42.61	ug/L		97
105) 1,3,5-trimethylbenzene	15.094	105	757075	43.74	ug/L		100
106) tert-butylbenzene	15.430	119	695331	45.01	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nelsonf\October\10-29-22\v2a9619\
Data File : 2a221289.d
Acq On : 27 Oct 2022 11:46 pm
Operator : nickw
Sample : bs Inst : GCMS2A
Misc : MS46075,V2A9619,5,,,,1
ALS Vial : 31 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Results File: M2A9596.RES
Quant Time: Oct 29 02:42:14 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 09:22:42 2022
QLast Update : Fri Oct 14 09:22:42 2022
Response via : Initial Calibration

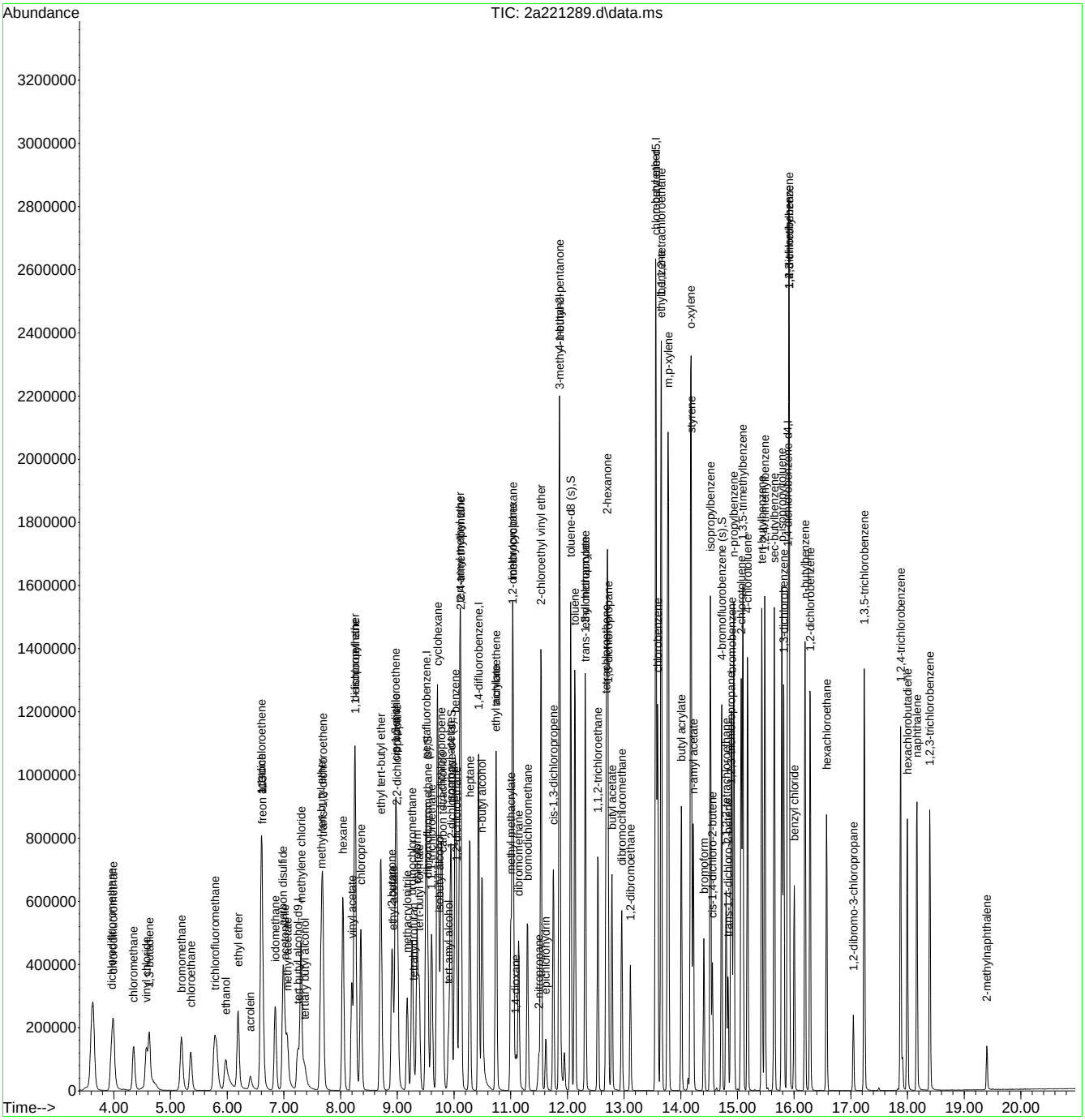
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
107) 1,2,4-trimethylbenzene	15.482	105	762752	44.02	ug/L	100
108) sec-butylbenzene	15.650	105	946340	42.34	ug/L	99
109) 1,3-dichlorobenzene	15.818	146	514401	45.58	ug/L	98
110) p-isopropyltoluene	15.781	119	854527	44.98	ug/L	100
111) benzyl chloride	16.001	91	407380	44.79	ug/L	97
112) 1,2,3-trimethylbenzene	15.912	105	774159	43.82	ug/L	100
113) 1,4-dichlorobenzene	15.912	146	517974	45.69	ug/L	97
114) 1,2-dichlorobenzene	16.285	146	506100	46.84	ug/L	98
115) n-butylbenzene	16.195	92	397439	42.70	ug/L	96
116) 1,2-dibromo-3-chloropr...	17.045	157	69202	57.55	ug/L	97
117) 1,3,5-trichlorobenzene	17.239	180	414544	50.37	ug/L	99
118) 1,2,4-trichlorobenzene	17.878	180	353633	53.27	ug/L	99
119) hexachlorobutadiene	17.999	225	175180	49.45	ug/L	98
120) naphthalene	18.167	128	680464	55.52	ug/L	98
121) 1,2,3-trichlorobenzene	18.392	180	284301	53.10	ug/L	97
122) hexachloroethane	16.573	201	143772	52.21	ug/L	96
123) 2-methylnaphthalene	19.399	142	71453	21.86	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nelsonf\October\10-29-22\v2a9619\
Data File : 2a221289.d
Acq On : 27 Oct 2022 11:46 pm
Operator : nickw
Sample : bs Inst : GCMS2A
Misc : MS46075,V2A9619,5,,,,1
ALS Vial : 31 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Results File: M2A9596.RES
Quant Time: Oct 29 02:42:14 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 09:22:42 2022
QLast Update : Fri Oct 14 09:22:42 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\October 2022\Oct. 31, 2022\vl10552\
Data File : l348801.d
Acq On : 29 Oct 2022 11:38 am
Operator : BridgetK
Sample : bs Inst : GCMSL
Misc : MS46075,VL10552,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Results File: ML10548.RES
Quant Time: Oct 31 22:24:07 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Fri Oct 28 18:07:24 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	3.066	65	227484	500.00	ug/L		0.00
5) pentafluorobenzene	4.282	168	232878	50.00	ug/L		0.00
51) 1,4-difluorobenzene	4.850	114	328511	50.00	ug/L		0.00
72) chlorobenzene-d5	7.241	117	313175	50.00	ug/L		0.00
95) 1,4-dichlorobenzene-d4	9.433	152	123919	50.00	ug/L		0.00
123) pentafluorobenzene(a)	4.282	168	232878	50.00	ug/L		0.00
127) 1,4-dichlorobenzene-d4(a)	9.433	152	123920	50.00	ug/L		0.00
System Monitoring Compounds							
43) dibromofluoromethane (s)	4.292	113	95288	49.16	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 98.32%				
52) 1,2-dichloroethane-d4 (s)	4.542	65	112536	50.03	ug/L		0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 100.06%				
73) toluene-d8 (s)	5.996	98	394047	47.52	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 95.04%				
96) 4-bromofluorobenzene (s)	8.319	95	146075	51.25	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 102.50%				
Target Compounds							Qvalue
2) 1,4-dioxane	5.280	88	42164	935.87	ug/L		91
3) ethanol	2.485	45	256234	4165.60	ug/L		99
4) tertiary butyl alcohol	3.121	59	161036	236.36	ug/L		97
6) chlorodifluoromethane	1.651	51	217116	47.92	ug/L	#	98
7) dichlorodifluoromethane	1.635	85	222331	41.99	ug/L		98
8) chloromethane	1.795	50	173810	42.72	ug/L		98
9) vinyl chloride	1.879	62	179081	42.53	ug/L		99
10) 1,3-butadiene	1.911	54	181234	59.49	ug/L		98
11) bromomethane	2.132	96	65876	60.22	ug/L		92
12) chloroethane	2.213	64	93249	42.69	ug/L		95
13) trichlorofluoromethane	2.395	101	203319	44.85	ug/L		95
14) ethyl ether	2.578	74	88367	46.64	ug/L		95
15) acrolein	2.678	56	43317	46.21	ug/L		97
16) freon 113	2.755	151	97860	45.41	ug/L		99
17) 1,1-dichloroethene	2.761	96	112085	44.25	ug/L		96
18) acetone	2.771	58	102275	163.61	ug/L		95
19) acetonitrile	2.963	40	148206	436.94	ug/L		89
20) iodomethane	2.877	142	110247	61.99	ug/L		98
21) iso-butyl alcohol	4.430	43	118074	407.51	ug/L		94
22) carbon disulfide	2.935	76	365318	42.42	ug/L		98
23) methylene chloride	3.089	84	128610	45.09	ug/L		97
24) methyl acetate	2.976	74	37941	46.54	ug/L		97
25) methyl tert butyl ether	3.255	73	413843	48.27	ug/L		99
26) trans-1,2-dichloroethene	3.275	96	117072	43.82	ug/L		95
27) hexane	3.451	57	219640	44.41	ug/L		97
28) di-isopropyl ether	3.564	45	438514	45.46	ug/L		98
29) ethyl tert-butyl ether	3.807	59	444717	45.05	ug/L		100
30) 2-butanone	3.929	72	117589	176.40	ug/L		99
31) 1,1-dichloroethane	3.573	63	229465	44.92	ug/L		98
32) chloroprene	3.621	53	202266	43.88	ug/L		97
33) acrylonitrile	3.252	53	3790	1.98	ug/L	#	47
34) vinyl acetate	3.544	86	35760	49.04	ug/L	#	76
35) ethyl acetate	3.936	45	34884	42.69	ug/L	#	45
36) 2,2-dichloropropane	3.968	77	178417	43.68	ug/L		95
37) cis-1,2-dichloroethene	3.961	96	124986	43.36	ug/L		97
38) propionitrile	3.977	54	304358	429.22	ug/L		98
39) methyl acrylate	3.987	85	29091	42.55	ug/L		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\October 2022\Oct. 31, 2022\vl10552\
Data File : l348801.d
Acq On : 29 Oct 2022 11:38 am
Operator : BridgetK
Sample : bs Inst : GCMSL
Misc : MS46075,VL10552,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Results File: ML10548.RES
Quant Time: Oct 31 22:24:07 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Fri Oct 28 18:07:24 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
40) bromochloromethane	4.128	128	57936	45.56	ug/L		93
41) tetrahydrofuran	4.135	72	32800	44.14	ug/L		93
42) chloroform	4.180	83	213720	42.88	ug/L		99
44) methacrylonitrile	4.087	67	85333	43.85	ug/L		92
45) 1,1,1-trichloroethane	4.321	97	181788	43.78	ug/L		98
46) cyclohexane	4.379	84	163857	37.81	ug/L		99
47) 1,1-dichloropropene	4.427	75	159438	42.42	ug/L		98
48) carbon tetrachloride	4.433	117	140134	42.40	ug/L		96
49) isopropyl acetate	4.545	87	40642	47.87	ug/L	#	84
50) tert amyl alcohol	4.520	55	56209	197.48	ug/L		96
53) tert-amyl methyl ether	4.635	73	372521	45.29	ug/L		100
54) 2,2,4-trimethylpentane	4.638	57	402631	44.16	ug/L		99
55) n-butyl alcohol	4.908	56	355232	1985.60	ug/L		99
56) benzene	4.578	78	460704	42.67	ug/L		98
57) heptane	4.748	57	95276	44.13	ug/L		97
58) 1,2-dichloroethane	4.600	62	162224	45.77	ug/L		98
59) trichloroethene	5.043	95	124421	44.76	ug/L		94
60) ethyl acrylate	5.062	55	247564	47.19	ug/L		100
61) 2-nitropropane	5.595	41	58186	44.86	ug/L		98
62) 2-chloroethyl vinyl ether	5.624	63	461806	223.61	ug/L		99
63) methyl methacrylate	5.242	100	47844	46.67	ug/L		95
64) 1,2-dichloropropane	5.242	63	126164	43.25	ug/L		98
65) methylcyclohexane	5.232	83	217032	43.62	ug/L		100
66) dibromomethane	5.312	93	75210	44.49	ug/L		95
67) bromodichloromethane	5.431	83	176524	45.20	ug/L		97
68) cis-1,3-dichloropropene	5.771	75	211999	45.23	ug/L		97
69) epichlorohydrin	5.678	57	125538	216.96	ug/L		96
70) 4-methyl-2-pentanone	5.864	58	331702	176.24	ug/L		97
71) 3-methyl-1-butanol	5.890	70	135851	801.37	ug/L		96
74) toluene	6.054	92	291014	41.82	ug/L		94
75) trans-1,3-dichloropropene	6.224	75	192406	43.84	ug/L		95
76) ethyl methacrylate	6.243	69	208177	46.19	ug/L		99
77) 1,1,2-trichloroethane	6.394	83	106545	45.60	ug/L		99
78) 2-hexanone	6.557	58	344262	164.30	ug/L		94
79) tetrachloroethene	6.487	166	123455	42.85	ug/L		93
80) 1,3-dichloropropane	6.538	76	199658	43.16	ug/L		99
81) butyl acetate	6.638	56	131337	45.66	ug/L		98
82) dibromochloromethane	6.728	129	123839	43.30	ug/L		98
83) 1,2-dibromoethane	6.843	107	131750	45.55	ug/L		99
84) n-butyl ether	7.312	57	549131	45.14	ug/L		99
85) chlorobenzene	7.270	112	308209	43.85	ug/L		96
86) 1,1,1,2-tetrachloroethane	7.340	131	103408	43.44	ug/L		99
87) ethylbenzene	7.344	91	507637	40.32	ug/L		98
88) m,p-xylene	7.456	106	404828	82.54	ug/L		100
89) o-xylene	7.812	106	210162	43.38	ug/L		98
90) butyl acrylate	7.732	55	326517	47.28	ug/L		98
91) styrene	7.831	104	338253	42.36	ug/L		98
92) bromoform	8.011	173	91505	42.18	ug/L		98
93) isopropylbenzene	8.149	105	536032	42.47	ug/L		99
94) cis-1,4-dichloro-2-butene	8.204	88	42722	33.27	ug/L		98
97) bromobenzene	8.460	156	123513	46.00	ug/L		95
98) 1,1,2,2-tetrachloroethane	8.435	83	192551	46.58	ug/L		98
99) trans-1,4-dichloro-2-b...	8.473	53	37228	35.67	ug/L	#	79
100) 1,2,3-trichloropropane	8.496	110	52198	46.77	ug/L		97
101) n-propylbenzene	8.541	91	578333	44.86	ug/L		99
102) 2-chlorotoluene	8.640	126	117329	46.03	ug/L		99
103) 4-chlorotoluene	8.752	126	117192	45.88	ug/L	#	85

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\October 2022\Oct. 31, 2022\vl10552\
Data File : l348801.d
Acq On : 29 Oct 2022 11:38 am
Operator : BridgetK
Sample : bs Inst : GCMSL
Misc : MS46075,VL10552,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Results File: ML10548.RES
Quant Time: Oct 31 22:24:07 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Fri Oct 28 18:07:24 2022
Response via : Initial Calibration

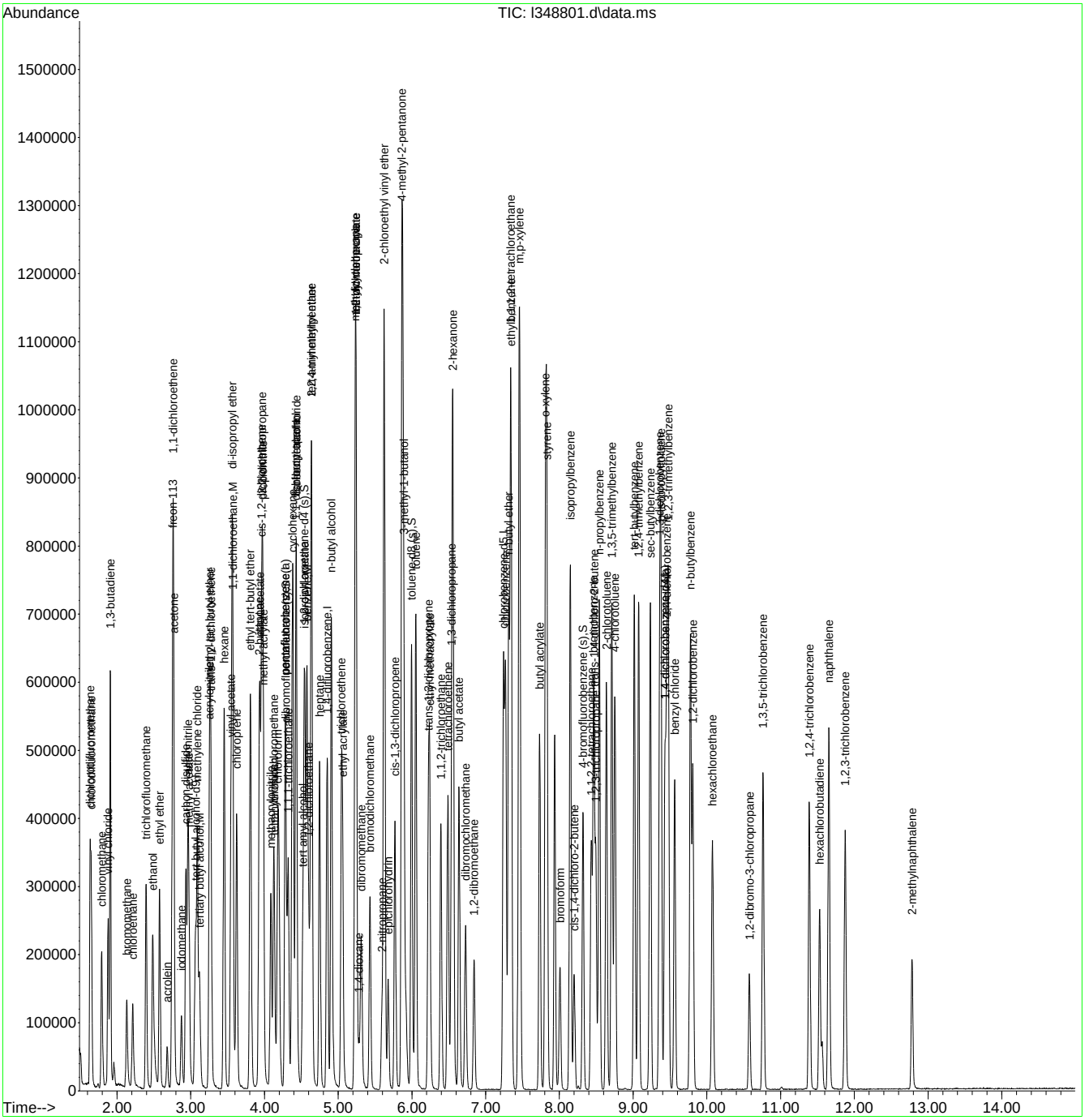
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3,5-trimethylbenzene	8.711	105	410462	43.95	ug/L	98
105) tert-butylbenzene	9.015	119	358620	45.11	ug/L	99
106) 1,2,4-trimethylbenzene	9.073	105	407438	44.60	ug/L	99
107) sec-butylbenzene	9.234	105	527073	45.36	ug/L	98
108) 1,3-dichlorobenzene	9.362	146	217828	46.59	ug/L	99
109) p-isopropyltoluene	9.378	119	391974	43.51	ug/L	98
110) 1,4-dichlorobenzene	9.455	146	208592	45.57	ug/L	99
111) 1,2,3-trimethylbenzene	9.474	105	392852	44.87	ug/L	98
112) 1,2-dichlorobenzene	9.811	146	202919	45.93	ug/L	97
113) n-butylbenzene	9.776	92	218246	47.56	ug/L	94
114) 1,2-dibromo-3-chloropr...	10.581	157	49726	46.72	ug/L	97
115) 1,3,5-trichlorobenzene	10.761	180	157963	50.67	ug/L	96
116) 1,2,4-trichlorobenzene	11.390	180	136303	52.41	ug/L	98
117) hexachlorobutadiene	11.531	225	54996	47.54	ug/L	91
118) naphthalene	11.653	128	431543	48.53	ug/L	99
119) 1,2,3-trichlorobenzene	11.875	180	123406	49.66	ug/L	97
120) hexachloroethane	10.074	119	80238	47.24	ug/L	98
121) benzyl chloride	9.564	91	344142	48.85	ug/L	99
122) 2-methylnaphthalene	12.783	142	102005	23.02	ug/L	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\October 2022\Oct. 31, 2022\vl10552\
Data File : l348801.d
Acq On : 29 Oct 2022 11:38 am
Operator : BridgetK
Sample : bs Inst : GCMSL
Misc : MS46075,VL10552,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Results File: ML10548.RES
Quant Time: Oct 31 22:24:07 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Fri Oct 28 18:07:24 2022
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
MoHui Huang
11/01/22 21:04

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nelsonf\October\10-29-22\v2a9619\
Data File : 2a221296.d
Acq On : 28 Oct 2022 3:05 am
Operator : nickw
Sample : jd54302-4ms Inst : GCMS2A
Misc : MS63421,V2A9619,5,,,,10
ALS Vial : 38 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Results File: M2A9596.RES
Quant Time: Oct 29 03:10:24 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 09:22:42 2022
QLast Update : Fri Oct 14 09:22:42 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.246	65	336992	500.00	ug/L	0.00
5) pentafluorobenzene	9.505	168	692668	50.00	ug/L	0.00
50) 1,4-difluorobenzene	10.433	114	939455	50.00	ug/L	0.00
72) chlorobenzene-d5	13.558	117	757568	50.00	ug/L	0.00
96) 1,4-dichlorobenzene-d4	15.886	152	391814	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	9.537	113	300051	49.12	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 98.24%			
51) 1,2-dichloroethane-d4 (s)	9.951	65	316966	42.88	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 85.76%			
73) toluene-d8 (s)	12.059	98	972253	50.45	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.90%			
97) 4-bromofluorobenzene (s)	14.722	95	347029	46.85	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 93.70%			
Target Compounds						Qvalue
2) ethanol	5.972	45	320229	4717.99	ug/L	98
3) tertiary butyl alcohol	7.356	59	198227	229.76	ug/L	89
4) 1,4-dioxane	11.078	88	61359	1215.82	ug/L	91
6) chlorodifluoromethane	3.990	51	283130	29.43	ug/L	97
7) dichlorodifluoromethane	3.958	85	321919	44.06	ug/L	99
8) chloromethane	4.346	50	253359	23.28	ug/L	98
9) vinyl chloride	4.572	62	221873	26.65	ug/L	97
10) 1,3-butadiene	4.619	54	133749	21.13	ug/L	94
11) bromomethane	5.190	94	196054	38.49	ug/L	96
12) chloroethane	5.358	64	177294	39.78	ug/L	96
13) trichlorofluoromethane	5.793	101	385568	43.02	ug/L	100
14) ethyl ether	6.192	74	122401	39.32	ug/L	93
15) acrolein	6.412	56	49367	36.79	ug/L	83
16) freon 113	6.611	151	190912	39.12	ug/L	95
17) 1,1-dichloroethene	6.601	96	189346	37.17	ug/L	90
18) acetone	6.601	43	308035	82.58	ug/L	91
19) acetonitrile	7.015	41	374248	401.43	ug/L	95
20) iodomethane	6.842	142	412496	42.47	ug/L	97
21) carbon disulfide	6.984	76	622275	35.40	ug/L	93
22) methylene chloride	7.298	84	226264	39.86	ug/L	91
23) methyl acetate	7.057	43	219161	35.67	ug/L	96
24) methyl tert butyl ether	7.655	73	649058	40.46	ug/L	95
25) trans-1,2-dichloroethene	7.686	96	218346	38.03	ug/L	92
26) hexane	8.037	57	357045	31.29	ug/L	97
27) di-isopropyl ether	8.252	45	888467	35.86	ug/L	97
28) ethyl tert-butyl ether	8.709	59	850692	39.71	ug/L	98
29) 2-butanone	8.903	72	116533	146.34	ug/L	94
30) 1,1-dichloroethane	8.252	63	417848	37.70	ug/L	100
31) chloroprene	8.357	53	378306	35.90	ug/L	94
33) vinyl acetate	8.200	86	49407	58.89	ug/L #	65
34) ethyl acetate	8.918	45	47280	39.52	ug/L	86
35) 2,2-dichloropropane	8.997	77	270539	32.42	ug/L	98
36) cis-1,2-dichloroethene	8.965	96	636559	103.01	ug/L	92
37) propionitrile	8.976	54	436851	440.13	ug/L	88
38) bromochloromethane	9.259	130	177026	44.88	ug/L	89
39) tetrahydrofuran	9.280	42	91048	39.00	ug/L	94
40) chloroform	9.348	83	406652	38.60	ug/L	95
41) tert-butyl formate	9.385	59	150218	35.89	ug/L	96
42) isobutyl alcohol	9.747	43	153679	412.08	ug/L	90

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nelsonf\October\10-29-22\v2a9619\
Data File : 2a221296.d
Acq On : 28 Oct 2022 3:05 am
Operator : nickw
Sample : jd54302-4ms Inst : GCMS2A
Misc : MS63421,V2A9619,5,,,,10
ALS Vial : 38 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Results File: M2A9596.RES
Quant Time: Oct 29 03:10:24 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 09:22:42 2022
QLast Update : Fri Oct 14 09:22:42 2022
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44)	methacrylonitrile	9.175	67	109674	44.86	ug/L		86
45)	1,1,1-trichloroethane	9.605	97	357698	39.74	ug/L		96
46)	cyclohexane	9.715	84	340224	39.49	ug/L	#	84
47)	1,1-dichloropropene	9.773	75	286607	37.41	ug/L		95
48)	tert-amyl alcohol	9.904	73	85252	216.76	ug/L		97
49)	carbon tetrachloride	9.799	117	324813	41.57	ug/L		99
52)	2,2,4-trimethylpentane	10.114	57	894093	34.13	ug/L		96
53)	tert-amyl methyl ether	10.103	73	718509	41.51	ug/L		98
54)	n-butyl alcohol	10.491	56	508376	2278.37	ug/L		93
55)	benzene	10.019	78	843291	39.49	ug/L		98
56)	heptane	10.276	57	183100	36.26	ug/L		99
57)	isopropyl acetate	9.935	87	56813	45.90	ug/L	#	78
58)	1,2-dichloroethane	10.046	62	329973	36.37	ug/L		97
59)	trichloroethene	10.743	95	443823	74.60	ug/L		98
60)	ethyl acrylate	10.732	55	406959	42.65	ug/L		99
61)	2-nitropropane	11.498	41	64436m	40.25	ug/L		
63)	methyl methacrylate	11.000	100	71193	46.40	ug/L	#	73
64)	1,2-dichloropropane	11.031	63	254815	40.47	ug/L		100
65)	methylcyclohexane	11.042	83	356516	36.11	ug/L		95
66)	dibromomethane	11.141	93	153496	44.82	ug/L		94
67)	bromodichloromethane	11.293	83	329474	42.46	ug/L		100
68)	epichlorohydrin	11.618	57	144852	205.09	ug/L		96
69)	cis-1,3-dichloropropene	11.755	75	376774	40.85	ug/L		87
70)	4-methyl-2-pentanone	11.860	58	474007	176.55	ug/L		87
71)	3-methyl-1-butanol	11.865	70	146738	903.48	ug/L		89
74)	toluene	12.132	92	514716	43.00	ug/L		99
75)	trans-1,3-dichloropropene	12.316	75	332767	44.25	ug/L		100
76)	ethyl methacrylate	12.316	69	311654	47.59	ug/L		88
77)	1,1,2-trichloroethane	12.536	83	182954	47.50	ug/L		95
78)	2-hexanone	12.704	58	451815	167.96	ug/L	#	87
79)	tetrachloroethene	12.683	166	273113	43.48	ug/L		98
80)	1,3-dichloropropane	12.714	76	323776	44.44	ug/L		100
81)	butyl acetate	12.788	56	197728	45.73	ug/L		87
82)	dibromochloromethane	12.961	129	293563	52.68	ug/L		97
83)	1,2-dibromoethane	13.113	107	239931	49.14	ug/L		99
84)	n-butyl ether	13.558	57	968593	38.73	ug/L		98
85)	chlorobenzene	13.595	112	599999	44.92	ug/L		95
86)	1,1,1,2-tetrachloroethane	13.658	131	251300	49.41	ug/L		99
87)	ethylbenzene	13.653	91	900084	41.03	ug/L		99
88)	m,p-xylene	13.773	106	731814	85.68	ug/L		98
89)	o-xylene	14.172	91	726861	41.97	ug/L		98
90)	styrene	14.188	104	600022	44.71	ug/L		99
91)	n-amyl acetate	14.219	70	150064	44.48	ug/L	#	86
92)	bromoform	14.408	173	215171	56.80	ug/L		98
93)	butyl acrylate	14.009	55	561518	45.48	ug/L		98
94)	isopropylbenzene	14.523	105	896385	41.66	ug/L		98
95)	cis-1,4-dichloro-2-butene	14.560	88	86045	44.55	ug/L	#	83
98)	bromobenzene	14.901	156	294134	46.43	ug/L		89
99)	1,1,2,2-tetrachloroethane	14.801	83	276686	46.96	ug/L		98
100)	trans-1,4-dichloro-2-b...	14.832	53	62708	37.08	ug/L		88
101)	1,2,3-trichloropropane	14.885	110	75445	49.45	ug/L		98
102)	n-propylbenzene	14.937	91	1011520	39.89	ug/L		98
103)	2-chlorotoluene	15.068	126	250105	44.55	ug/L		89
104)	4-chlorotoluene	15.178	91	647709	40.98	ug/L		97
105)	1,3,5-trimethylbenzene	15.095	105	722106	41.34	ug/L		100
106)	tert-butylbenzene	15.430	119	672560	43.14	ug/L		97
107)	1,2,4-trimethylbenzene	15.483	105	732855	41.91	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nelsonf\October\10-29-22\v2a9619\
Data File : 2a221296.d
Acq On : 28 Oct 2022 3:05 am
Operator : nickw
Sample : jd54302-4ms Inst : GCMS2A
Misc : MS63421,V2A9619,5,,,,10
ALS Vial : 38 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Results File: M2A9596.RES
Quant Time: Oct 29 03:10:24 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 09:22:42 2022
QLast Update : Fri Oct 14 09:22:42 2022
Response via : Initial Calibration

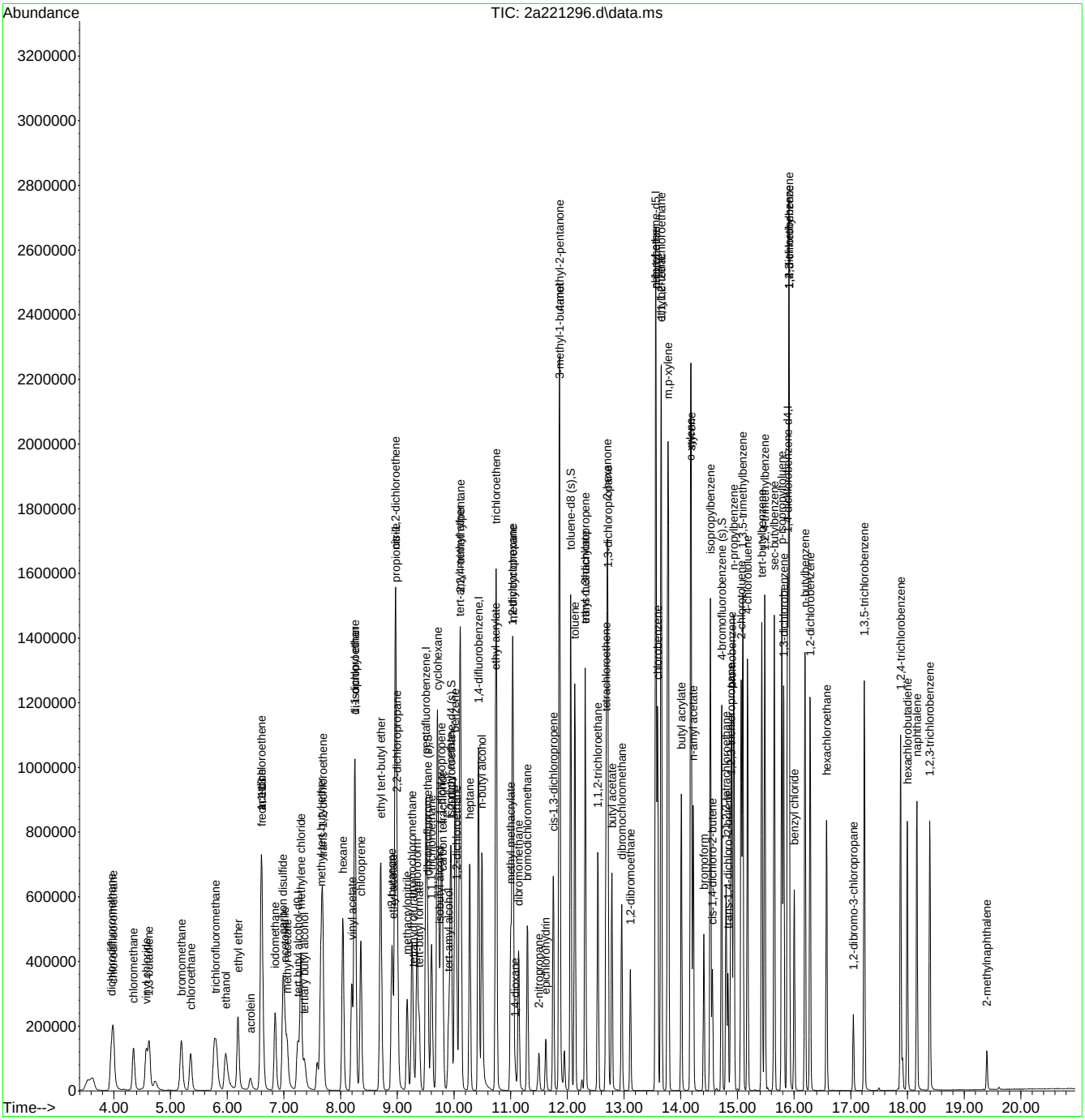
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
108) sec-butylbenzene	15.650	105	906690	40.20	ug/L	99
109) 1,3-dichlorobenzene	15.818	146	496089	43.56	ug/L	98
110) p-isopropyltoluene	15.781	119	817311	42.63	ug/L	100
111) benzyl chloride	16.002	91	384739	41.91	ug/L	99
112) 1,2,3-trimethylbenzene	15.912	105	755134	42.36	ug/L	99
113) 1,4-dichlorobenzene	15.912	146	501182	43.81	ug/L	98
114) 1,2-dichlorobenzene	16.285	146	497127	45.59	ug/L	99
115) n-butylbenzene	16.190	92	379082	40.36	ug/L	100
116) 1,2-dibromo-3-chloropr...	17.045	157	68586	56.52	ug/L	98
117) 1,3,5-trichlorobenzene	17.239	180	394173	47.46	ug/L	99
118) 1,2,4-trichlorobenzene	17.879	180	337415	50.37	ug/L	99
119) hexachlorobutadiene	17.999	225	169211	47.33	ug/L	97
120) naphthalene	18.167	128	658762	53.26	ug/L	99
121) 1,2,3-trichlorobenzene	18.392	180	272584	50.45	ug/L	98
122) hexachloroethane	16.573	201	140735	50.64	ug/L	98
123) 2-methylnaphthalene	19.399	142	60770	18.42	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nelsonf\October\10-29-22\v2a9619\
Data File : 2a221296.d
Acq On : 28 Oct 2022 3:05 am
Operator : nickw
Sample : jd54302-4ms Inst : GCMS2A
Misc : MS63421,V2A9619,5,,,,10
ALS Vial : 38 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Results File: M2A9596.RES
Quant Time: Oct 29 03:10:24 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 09:22:42 2022
QLast Update : Fri Oct 14 09:22:42 2022
Response via : Initial Calibration



Manual Integration Approval Summary

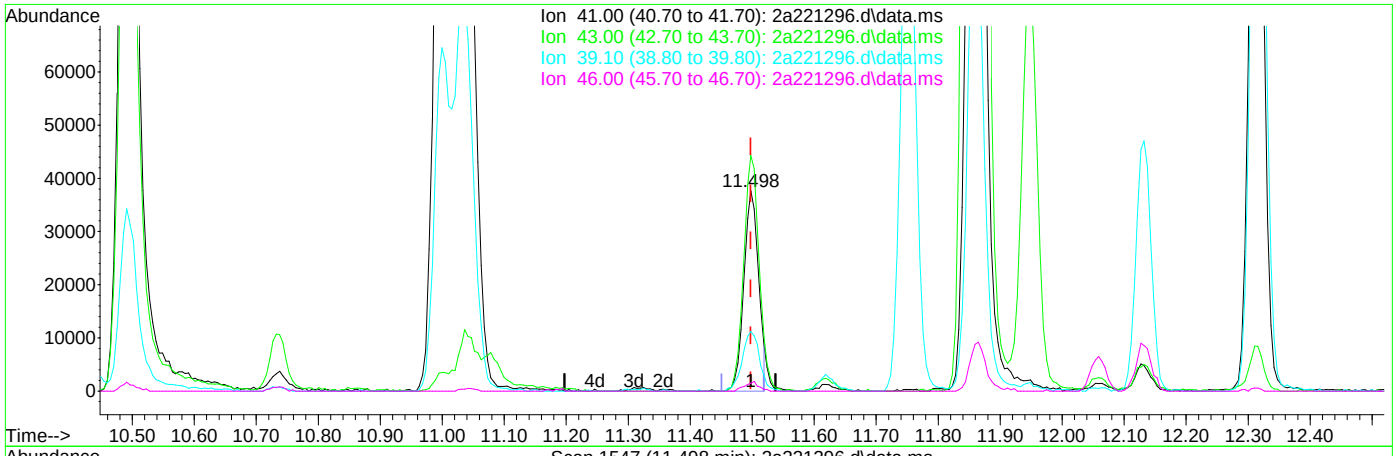
Sample Number:	JD54302-4MS	**Method:**	SW846 8260D
Lab FileID:	2A221296.D	**Analyst approved:**	10/29/22 04:26 Nelson Festin
Injection Time:	10/28/22 03:05	**Supervisor approved:**	11/01/22 21:04 MoHui Huang

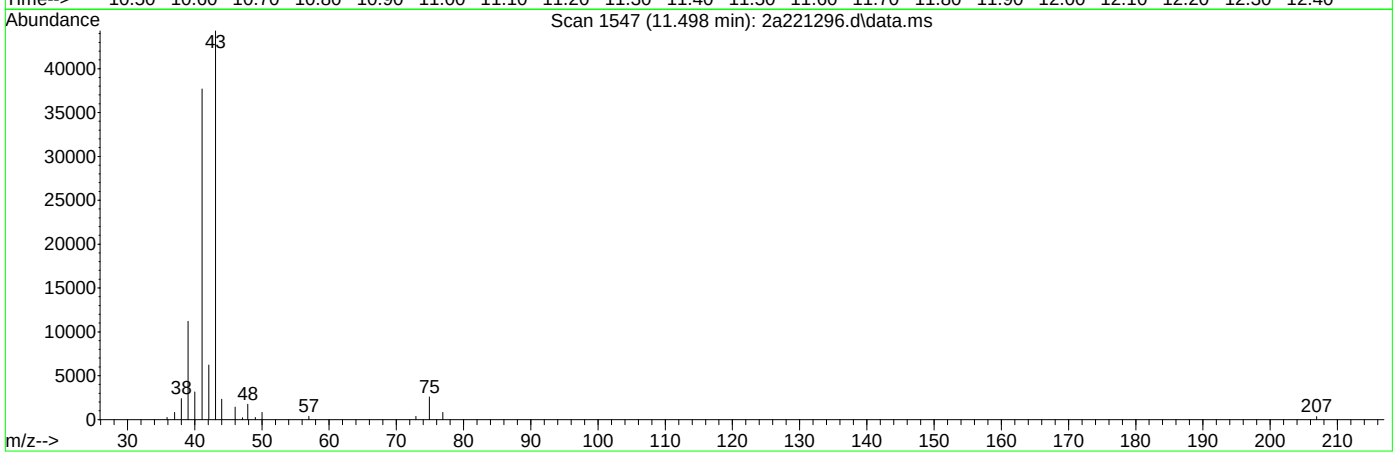
Parameter	CAS	Sig#	R.T. (min.)	Reason
2-Nitropropane	79-46-9		11.50	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\nelsonf\October\10-29-22\v2a9619\
Data File : 2a221296.d
Acq On : 28 Oct 2022 3:05 am
Operator : nickw
Sample : jd54302-4ms Inst : GCMS2A
Misc : MS63421,V2A9619,5,,,,10
ALS Vial : 38 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Results File: M2A9596.RES
Quant Time: Oct 28 03:28:14 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 09:22:42 2022
QLast Update : Fri Oct 14 09:22:42 2022
Response via : Initial Calibration





TIC: 2a221296.d\data.ms

(61) 2-nitropropane

11.498min (+0.000) 38.70ug/L

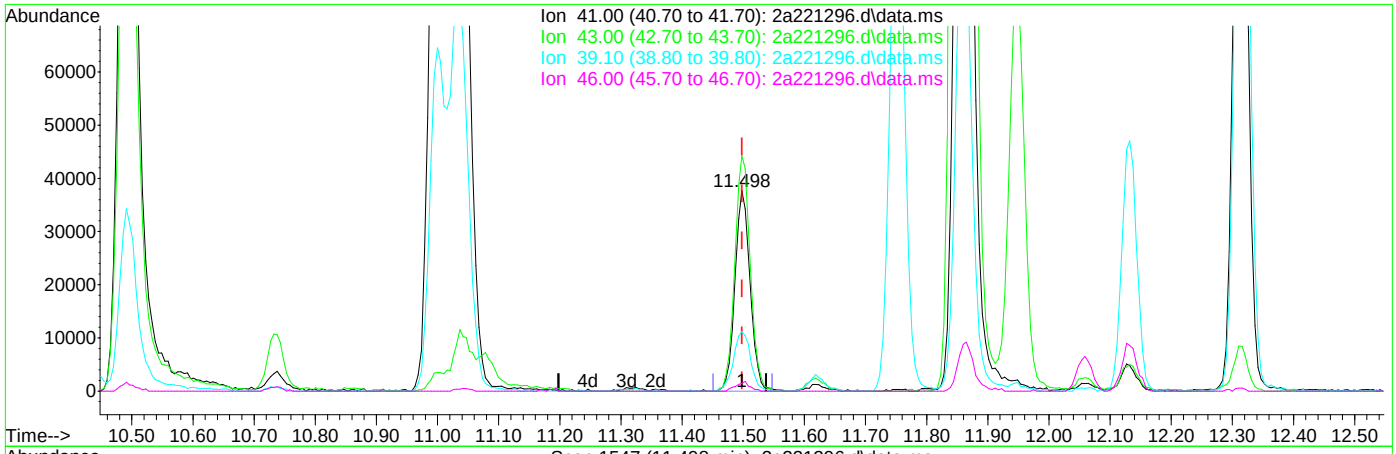
response 61958

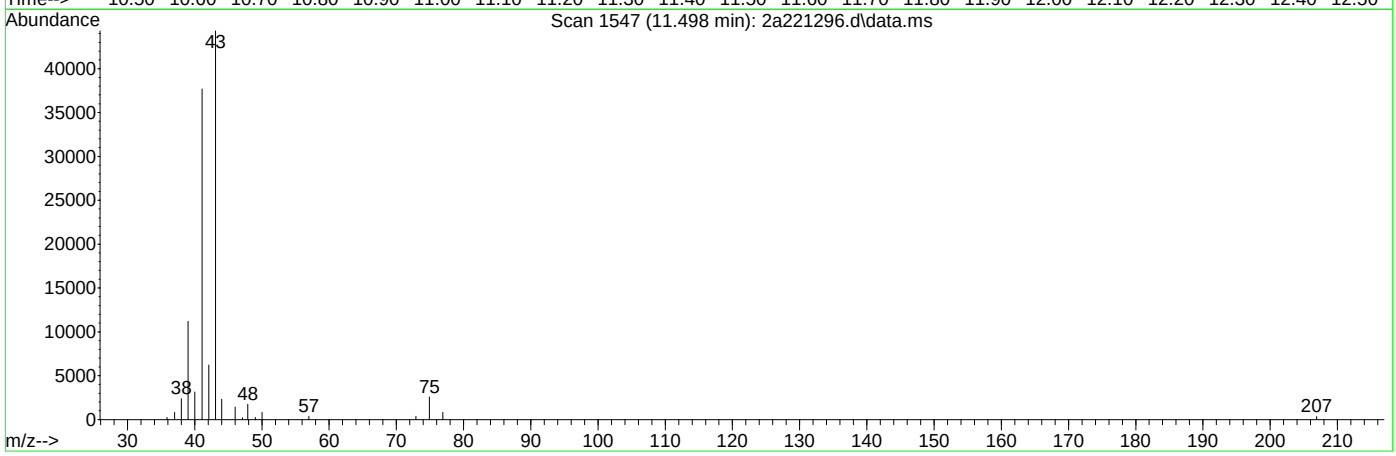
Ion	Exp%	Act%
41.00	100	100
43.00	121.10	117.58
39.10	36.30	29.70
46.00	3.40	3.79

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\nelsonf\October\10-29-22\v2a9619\
Data File : 2a221296.d
Acq On : 28 Oct 2022 3:05 am
Operator : nickw
Sample : jd54302-4ms Inst : GCMS2A
Misc : MS63421,V2A9619,5,,,,10
ALS Vial : 38 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Results File: M2A9596.RES
Quant Time: Oct 28 03:28:14 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 09:22:42 2022
QLast Update : Fri Oct 14 09:22:42 2022
Response via : Initial Calibration





TIC: 2a221296.d\data.ms

(61) 2-nitropropane

11.498min (+0.000) 40.25ug/L m

response 64436

Ion	Exp%	Act%
41.00	100	100
43.00	121.10	117.58
39.10	36.30	29.70
46.00	3.40	3.79

Manual Integrations APPROVED (compounds with "m" flag)
MoHui Huang
11/01/22 21:04

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nelsonf\October\10-29-22\v2a9619\
Data File : 2a221297.d
Acq On : 28 Oct 2022 3:33 am
Operator : nickw
Sample : jd54302-4msd Inst : GCMS2A
Misc : MS63421,V2A9619,5,,,,10
ALS Vial : 39 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Results File: M2A9596.RES
Quant Time: Oct 29 03:12:17 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 09:22:42 2022
QLast Update : Fri Oct 14 09:22:42 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.240	65	352105	500.00	ug/L	-0.01
5) pentafluorobenzene	9.505	168	722243	50.00	ug/L	0.00
50) 1,4-difluorobenzene	10.433	114	968078	50.00	ug/L	0.00
72) chlorobenzene-d5	13.558	117	771344	50.00	ug/L	0.00
96) 1,4-dichlorobenzene-d4	15.886	152	397974	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	9.532	113	310453	48.75	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 97.50%			
51) 1,2-dichloroethane-d4 (s)	9.951	65	327528	43.00	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 86.00%			
73) toluene-d8 (s)	12.059	98	995679	50.74	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 101.48%			
97) 4-bromofluorobenzene (s)	14.722	95	356927	47.44	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 94.88%			
Target Compounds						Qvalue
2) ethanol	5.966	45	340386	4799.72	ug/L	95
3) tertiary butyl alcohol	7.356	59	209452	232.35	ug/L	90
4) 1,4-dioxane	11.078	88	70251	1332.26	ug/L	94
6) chlorodifluoromethane	3.979	51	289504	28.86	ug/L	96
7) dichlorodifluoromethane	3.953	85	330911	43.44	ug/L	99
8) chloromethane	4.336	50	256870	22.64	ug/L	97
9) vinyl chloride	4.561	62	231081	26.62	ug/L	96
10) 1,3-butadiene	4.614	54	138356	20.96	ug/L	97
11) bromomethane	5.180	94	204567	38.52	ug/L	100
12) chloroethane	5.348	64	186164	40.06	ug/L	95
13) trichlorofluoromethane	5.772	101	405129	43.35	ug/L	99
14) ethyl ether	6.186	74	127530	39.29	ug/L	91
15) acrolein	6.401	56	51099	36.52	ug/L	88
16) freon 113	6.601	151	200817	39.47	ug/L	92
17) 1,1-dichloroethene	6.590	96	200937	37.83	ug/L	88
18) acetone	6.595	43	319198	82.07	ug/L	89
19) acetonitrile	7.010	41	382160	393.13	ug/L	97
20) iodomethane	6.837	142	431886	42.64	ug/L	96
21) carbon disulfide	6.978	76	656704	35.83	ug/L	93
22) methylene chloride	7.293	84	236149	39.89	ug/L	89
23) methyl acetate	7.057	43	226002	35.28	ug/L	92
24) methyl tert butyl ether	7.649	73	678041	40.54	ug/L	93
25) trans-1,2-dichloroethene	7.681	96	232143	38.77	ug/L	93
26) hexane	8.037	57	378889	31.84	ug/L	96
27) di-isopropyl ether	8.247	45	905658	35.06	ug/L	94
28) ethyl tert-butyl ether	8.703	59	875970	39.22	ug/L	98
29) 2-butanone	8.897	72	122910	148.02	ug/L #	84
30) 1,1-dichloroethane	8.252	63	433657	37.52	ug/L	99
31) chloroprene	8.352	53	383565	34.91	ug/L	91
33) vinyl acetate	8.189	86	52074	59.53	ug/L #	59
34) ethyl acetate	8.913	45	47532	38.10	ug/L	92
35) 2,2-dichloropropane	8.992	77	276453	31.77	ug/L	97
36) cis-1,2-dichloroethene	8.960	96	656211	101.84	ug/L	91
37) propionitrile	8.976	54	455648	440.27	ug/L	96
38) bromochloromethane	9.254	130	186967	45.46	ug/L	88
39) tetrahydrofuran	9.275	42	94887	38.98	ug/L	93
40) chloroform	9.343	83	419909	38.23	ug/L	94
41) tert-butyl formate	9.385	59	152769	35.01	ug/L	95
42) isobutyl alcohol	9.741	43	153775	395.45	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nelsonf\October\10-29-22\v2a9619\
Data File : 2a221297.d
Acq On : 28 Oct 2022 3:33 am
Operator : nickw
Sample : jd54302-4msd Inst : GCMS2A
Misc : MS63421,V2A9619,5,,,,10
ALS Vial : 39 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Results File: M2A9596.RES
Quant Time: Oct 29 03:12:17 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 09:22:42 2022
QLast Update : Fri Oct 14 09:22:42 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) methacrylonitrile	9.170	67	116840	45.83	ug/L	#	82
45) 1,1,1-trichloroethane	9.600	97	372559	39.70	ug/L		95
46) cyclohexane	9.710	84	352462	39.24	ug/L		87
47) 1,1-dichloropropene	9.773	75	299957	37.55	ug/L		95
48) tert-amyl alcohol	9.904	73	90726	221.23	ug/L		92
49) carbon tetrachloride	9.799	117	337641	41.44	ug/L		98
52) 2,2,4-trimethylpentane	10.114	57	934614	34.62	ug/L		95
53) tert-amyl methyl ether	10.103	73	739811	41.48	ug/L		96
54) n-butyl alcohol	10.491	56	549091	2388.08	ug/L		93
55) benzene	10.014	78	889648	40.43	ug/L		98
56) heptane	10.276	57	191388	36.78	ug/L		99
57) isopropyl acetate	9.935	87	59690	46.80	ug/L	#	60
58) 1,2-dichloroethane	10.040	62	339799	36.34	ug/L		99
59) trichloroethene	10.743	95	460171	75.07	ug/L		95
60) ethyl acrylate	10.732	55	423733	43.09	ug/L		98
61) 2-nitropropane	11.498	41	65473m	39.68	ug/L		
63) methyl methacrylate	11.005	100	77285	48.88	ug/L	#	57
64) 1,2-dichloropropane	11.031	63	267033	41.16	ug/L		98
65) methylcyclohexane	11.042	83	379214	37.27	ug/L		95
66) dibromomethane	11.136	93	160846	45.58	ug/L		94
67) bromodichloromethane	11.293	83	343327	42.94	ug/L		96
68) epichlorohydrin	11.618	57	150066	206.19	ug/L		95
69) cis-1,3-dichloropropene	11.749	75	392131	41.26	ug/L		89
70) 4-methyl-2-pentanone	11.859	58	493397	178.34	ug/L	#	86
71) 3-methyl-1-butanol	11.865	70	157830	943.04	ug/L	#	84
74) toluene	12.132	92	538887	44.22	ug/L		99
75) trans-1,3-dichloropropene	12.316	75	345587	45.13	ug/L		97
76) ethyl methacrylate	12.316	69	327544	49.13	ug/L		86
77) 1,1,2-trichloroethane	12.536	83	191504	48.83	ug/L		94
78) 2-hexanone	12.704	58	471976	172.32	ug/L	#	88
79) tetrachloroethene	12.683	166	292911	45.80	ug/L		99
80) 1,3-dichloropropane	12.714	76	337292	45.47	ug/L		99
81) butyl acetate	12.787	56	209298	47.54	ug/L		85
82) dibromochloromethane	12.960	129	305688	53.87	ug/L		98
83) 1,2-dibromoethane	13.113	107	251928	50.68	ug/L		99
84) n-butyl ether	13.558	57	1015841	39.89	ug/L		98
85) chlorobenzene	13.590	112	628428	46.20	ug/L		97
86) 1,1,1,2-tetrachloroethane	13.658	131	263347	50.85	ug/L		100
87) ethylbenzene	13.653	91	951061	42.58	ug/L		99
88) m,p-xylene	13.773	106	765590	88.04	ug/L		96
89) o-xylene	14.172	91	760120	43.10	ug/L		99
90) styrene	14.187	104	631757	46.23	ug/L		97
91) n-amyl acetate	14.219	70	154978	45.12	ug/L	#	83
92) bromoform	14.408	173	228337	59.20	ug/L		100
93) butyl acrylate	14.009	55	581550	46.26	ug/L		98
94) isopropylbenzene	14.523	105	939528	42.89	ug/L		98
95) cis-1,4-dichloro-2-butene	14.560	88	91407	46.48	ug/L	#	84
98) bromobenzene	14.900	156	307616	47.80	ug/L		88
99) 1,1,2,2-tetrachloroethane	14.801	83	293338	49.02	ug/L		99
100) trans-1,4-dichloro-2-b...	14.832	53	66658	38.81	ug/L		91
101) 1,2,3-trichloropropane	14.885	110	79865	51.53	ug/L		95
102) n-propylbenzene	14.937	91	1055281	40.97	ug/L		97
103) 2-chlorotoluene	15.068	126	259915	45.58	ug/L		85
104) 4-chlorotoluene	15.178	91	678727	42.28	ug/L		96
105) 1,3,5-trimethylbenzene	15.094	105	758324	42.74	ug/L		99
106) tert-butylbenzene	15.430	119	697686	44.06	ug/L		97
107) 1,2,4-trimethylbenzene	15.482	105	763705	43.00	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nelsonf\October\10-29-22\v2a9619\
Data File : 2a221297.d
Acq On : 28 Oct 2022 3:33 am
Operator : nickw
Sample : jd54302-4msd Inst : GCMS2A
Misc : MS63421,V2A9619,5,,,,10
ALS Vial : 39 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Results File: M2A9596.RES
Quant Time: Oct 29 03:12:17 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 09:22:42 2022
QLast Update : Fri Oct 14 09:22:42 2022
Response via : Initial Calibration

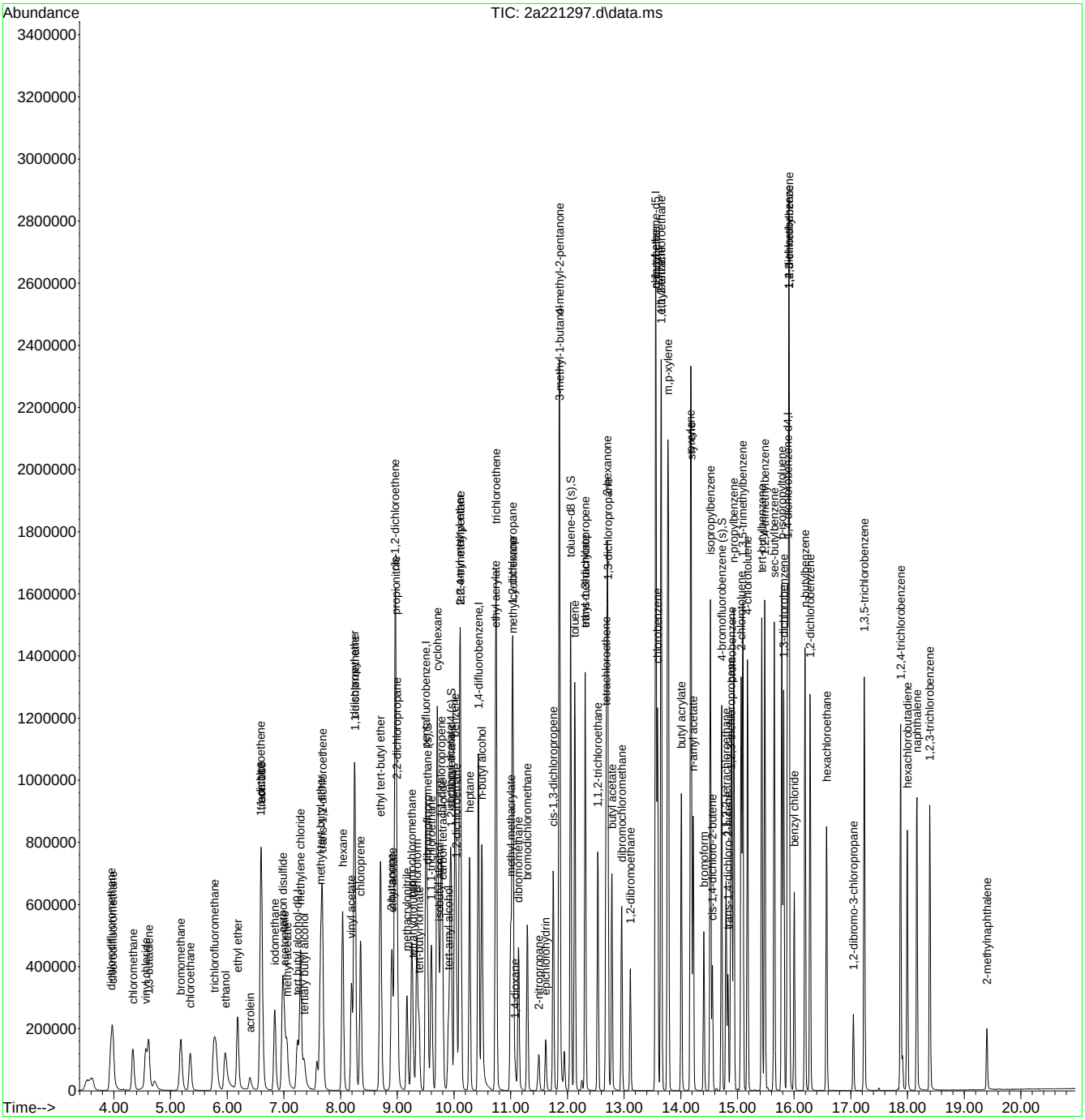
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
108) sec-butylbenzene	15.650	105	939328	41.00	ug/L	98
109) 1,3-dichlorobenzene	15.818	146	519869	44.94	ug/L	98
110) p-isopropyltoluene	15.781	119	859019	44.11	ug/L	99
111) benzyl chloride	16.001	91	397448	42.63	ug/L	98
112) 1,2,3-trimethylbenzene	15.912	105	780958	43.13	ug/L	99
113) 1,4-dichlorobenzene	15.907	146	517637	44.54	ug/L	98
114) 1,2-dichlorobenzene	16.285	146	515380	46.54	ug/L	98
115) n-butylbenzene	16.195	92	391726	41.06	ug/L	98
116) 1,2-dibromo-3-chloropr...	17.045	157	72239	58.61	ug/L	98
117) 1,3,5-trichlorobenzene	17.239	180	407526	48.31	ug/L	99
118) 1,2,4-trichlorobenzene	17.878	180	359900	52.89	ug/L	98
119) hexachlorobutadiene	17.999	225	177507	48.88	ug/L	97
120) naphthalene	18.167	128	713513	56.79	ug/L	99
121) 1,2,3-trichlorobenzene	18.392	180	295962	53.93	ug/L	95
122) hexachloroethane	16.573	201	143124	50.70	ug/L	98
123) 2-methylnaphthalene	19.404	142	103319	30.83	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nelsonf\October\10-29-22\v2a9619\
Data File : 2a221297.d
Acq On : 28 Oct 2022 3:33 am
Operator : nickw
Sample : jd54302-4msd Inst : GCMS2A
Misc : MS63421,V2A9619,5,,,,10
ALS Vial : 39 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Results File: M2A9596.RES
Quant Time: Oct 29 03:12:17 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 09:22:42 2022
QLast Update : Fri Oct 14 09:22:42 2022
Response via : Initial Calibration



Manual Integration Approval Summary

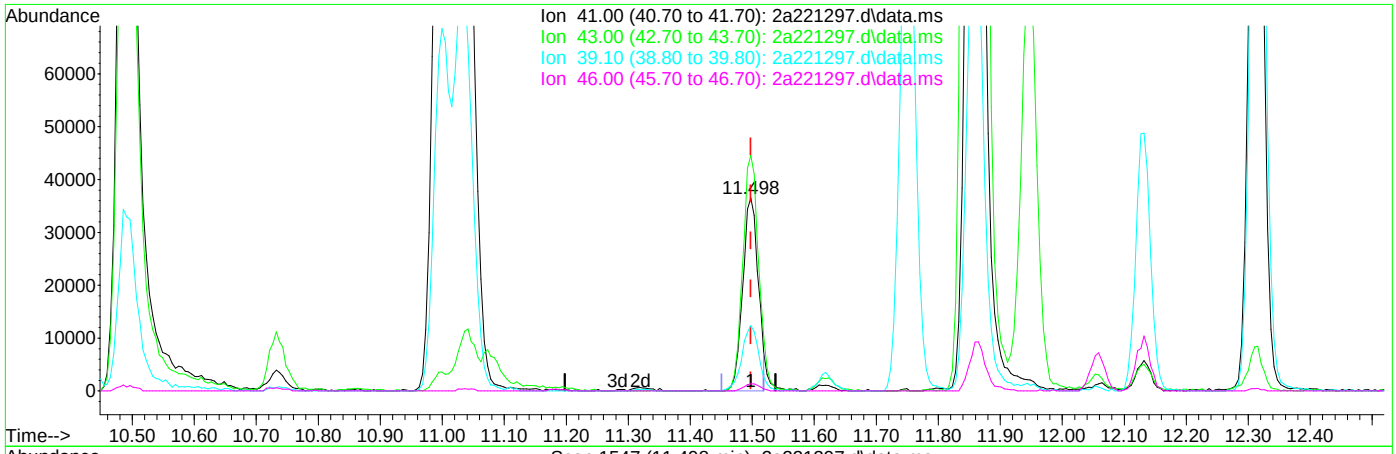
Sample Number:	JD54302-4MSD	**Method:**	SW846 8260D
Lab FileID:	2A221297.D	**Analyst approved:**	10/29/22 04:26 Nelson Festin
Injection Time:	10/28/22 03:33	**Supervisor approved:**	11/01/22 21:04 MoHui Huang

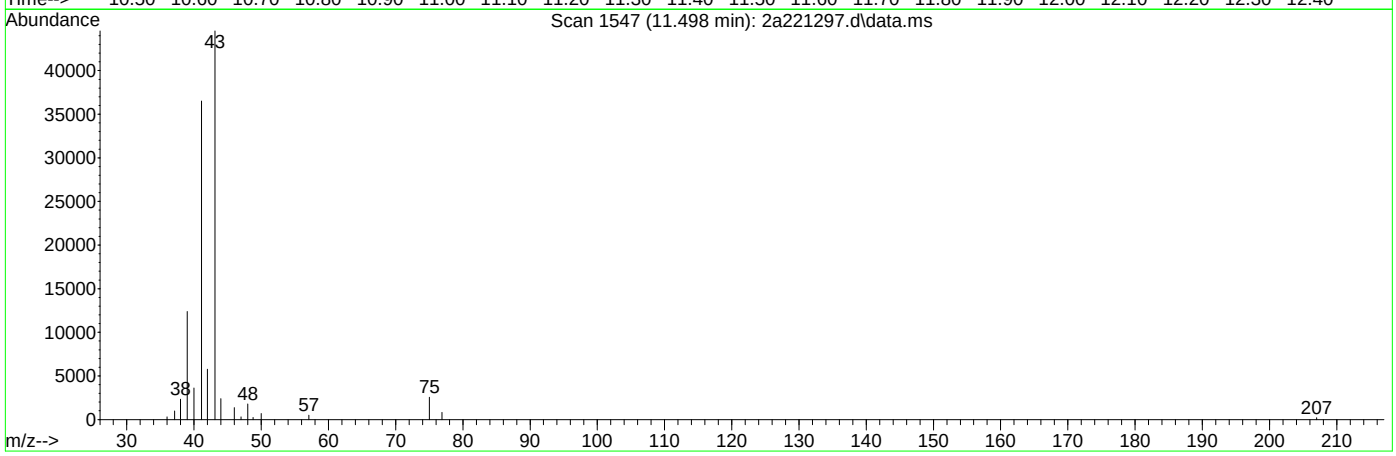
Parameter	CAS	Sig#	R.T. (min.)	Reason
2-Nitropropane	79-46-9		11.50	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\nelsonf\October\10-29-22\v2a9619\
Data File : 2a221297.d
Acq On : 28 Oct 2022 3:33 am
Operator : nickw
Sample : jd54302-4msd Inst : GCMS2A
Misc : MS63421,V2A9619,5,,,,10
ALS Vial : 39 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Results File: M2A9596.RES
Quant Time: Oct 28 03:56:34 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 09:22:42 2022
QLast Update : Fri Oct 14 09:22:42 2022
Response via : Initial Calibration





TIC: 2a221297.d\data.ms

(61) 2-nitropropane

11.498min (-0.000) 38.27ug/L

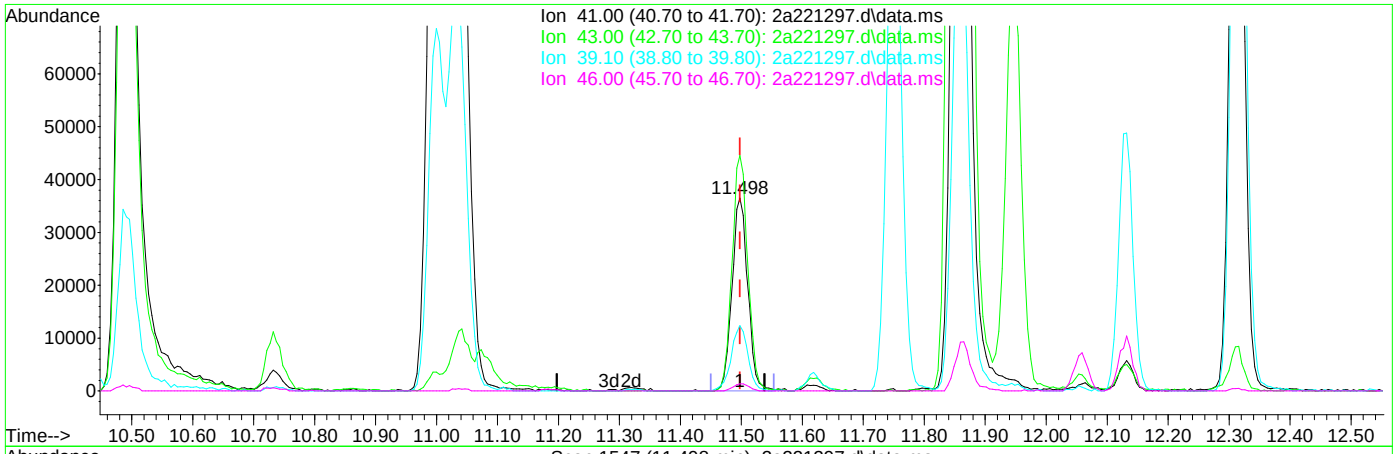
response 63132

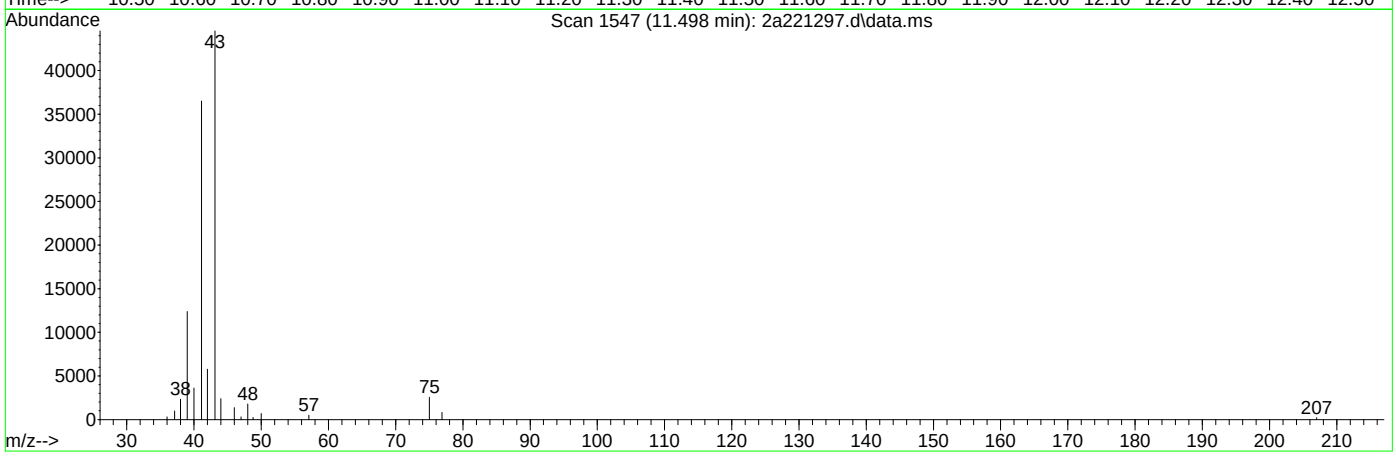
Ion	Exp%	Act%
41.00	100	100
43.00	121.10	122.02
39.10	36.30	33.96
46.00	3.40	3.76

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\nelsonf\October\10-29-22\v2a9619\
Data File : 2a221297.d
Acq On : 28 Oct 2022 3:33 am
Operator : nickw
Sample : jd54302-4msd Inst : GCMS2A
Misc : MS63421,V2A9619,5,,,,10
ALS Vial : 39 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Results File: M2A9596.RES
Quant Time: Oct 28 03:56:34 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 09:22:42 2022
QLast Update : Fri Oct 14 09:22:42 2022
Response via : Initial Calibration





TIC: 2a221297.d\data.ms

(61) 2-nitropropane

11.498min (-0.000) 39.68ug/L m

response 65473

Ion	Exp%	Act%
41.00	100	100
43.00	121.10	122.02
39.10	36.30	33.96
46.00	3.40	3.76

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\October 2022\Oct. 31, 2022\vl10552\
Data File : l348811.d
Acq On : 29 Oct 2022 3:29 pm
Operator : BridgetK
Sample : jd54108-4ms Inst : GCMSL
Misc : MS63384,VL10552,5,,,,50
ALS Vial : 14 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Results File: ML10548.RES
Quant Time: Oct 31 23:04:32 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Fri Oct 28 18:07:24 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	3.063	65	226681	500.00	ug/L		0.00
5) pentafluorobenzene	4.279	168	219235	50.00	ug/L		0.00
51) 1,4-difluorobenzene	4.850	114	312116	50.00	ug/L		0.00
72) chlorobenzene-d5	7.238	117	298775	50.00	ug/L		0.00
95) 1,4-dichlorobenzene-d4	9.433	152	121679	50.00	ug/L		0.00
123) pentafluorobenzene(a)	4.279	168	219235	50.00	ug/L		0.00
127) 1,4-dichlorobenzene-d4(a)	9.433	152	121601	50.00	ug/L		0.00
System Monitoring Compounds							
43) dibromofluoromethane (s)	4.289	113	90441	49.56	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.12%				
52) 1,2-dichloroethane-d4 (s)	4.542	65	106943	50.04	ug/L		0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 100.08%				
73) toluene-d8 (s)	5.993	98	376485	47.59	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 95.18%				
96) 4-bromofluorobenzene (s)	8.316	95	140914	50.35	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.70%				
Target Compounds							Qvalue
2) 1,4-dioxane	5.280	88	42234	940.75	ug/L		93
3) ethanol	2.485	45	255147	4162.62	ug/L		100
4) tertiary butyl alcohol	3.117	59	161940	238.53	ug/L		97
6) chlorodifluoromethane	1.654	51	172934	40.55	ug/L	#	99
7) dichlorodifluoromethane	1.635	85	166011	33.30	ug/L		98
8) chloromethane	1.795	50	113995	29.76	ug/L		98
9) vinyl chloride	1.879	62	125704	31.71	ug/L		98
10) 1,3-butadiene	1.908	54	158707	55.34	ug/L		98
11) bromomethane	2.132	96	47812	46.78	ug/L		97
12) chloroethane	2.213	64	69741	33.91	ug/L		97
13) trichlorofluoromethane	2.395	101	169336	39.68	ug/L		100
14) ethyl ether	2.578	74	83431	46.77	ug/L		96
15) acrolein	2.678	56	36931	41.85	ug/L		95
16) freon 113	2.752	151	91280	44.99	ug/L		99
17) 1,1-dichloroethene	2.758	96	106636	44.72	ug/L		96
18) acetone	2.771	58	82450	140.11	ug/L		97
19) acetonitrile	2.963	40	143785	450.28	ug/L		91
20) iodomethane	2.874	142	73316	44.36	ug/L		97
21) iso-butyl alcohol	4.430	43	116767	428.07	ug/L		97
22) carbon disulfide	2.931	76	329374	40.63	ug/L		99
23) methylene chloride	3.089	84	126160	46.99	ug/L		96
24) methyl acetate	2.976	74	34364	44.77	ug/L	#	79
25) methyl tert butyl ether	3.255	73	389866	48.31	ug/L		99
26) trans-1,2-dichloroethene	3.275	96	113003	44.93	ug/L		97
27) hexane	3.451	57	207316	44.52	ug/L		97
28) di-isopropyl ether	3.560	45	432419	47.61	ug/L		91
29) ethyl tert-butyl ether	3.811	59	436940	47.02	ug/L		99
30) 2-butanone	3.929	72	108223	172.46	ug/L	#	86
31) 1,1-dichloroethane	3.570	63	228148	47.44	ug/L		97
32) chloroprene	3.618	53	197492	45.51	ug/L		98
33) acrylonitrile	3.236	53	65102	36.12	ug/L		90
34) vinyl acetate	3.544	86	35270	51.38	ug/L	#	87
35) ethyl acetate	3.939	45	34427	44.75	ug/L	#	66
36) 2,2-dichloropropane	3.968	77	178509	46.42	ug/L		97
37) cis-1,2-dichloroethene	3.958	96	124645	45.93	ug/L		93
38) propionitrile	3.974	54	300798	450.60	ug/L		94
39) methyl acrylate	3.984	85	28752	44.68	ug/L		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\October 2022\Oct. 31, 2022\vl10552\
Data File : l348811.d
Acq On : 29 Oct 2022 3:29 pm
Operator : BridgetK
Sample : jd54108-4ms Inst : GCMSL
Misc : MS63384,VL10552,5,,,,50
ALS Vial : 14 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Results File: ML10548.RES
Quant Time: Oct 31 23:04:32 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Fri Oct 28 18:07:24 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) bromochloromethane	4.128	128	59095	49.37	ug/L	92
41) tetrahydrofuran	4.135	72	31736	45.37	ug/L	93
42) chloroform	4.180	83	216556	46.15	ug/L	98
44) methacrylonitrile	4.083	67	83483	45.57	ug/L	95
45) 1,1,1-trichloroethane	4.318	97	178939	45.78	ug/L	93
46) cyclohexane	4.375	84	126426	30.99	ug/L	90
47) 1,1-dichloropropene	4.423	75	162497	45.93	ug/L	99
48) carbon tetrachloride	4.430	117	141095	45.35	ug/L	99
49) isopropyl acetate	4.545	87	39297	49.16	ug/L	97
50) tert amyl alcohol	4.520	55	56823	212.06	ug/L	97
53) tert-amyl methyl ether	4.635	73	370116	47.36	ug/L	99
54) 2,2,4-trimethylpentane	4.635	57	405322	46.79	ug/L	99
55) n-butyl alcohol	4.905	56	369580	2174.31	ug/L	99
56) benzene	4.574	78	472190	46.03	ug/L	99
57) heptane	4.744	57	98803	48.17	ug/L	96
58) 1,2-dichloroethane	4.597	62	162802	48.35	ug/L	99
59) trichloroethene	5.040	95	127228	48.17	ug/L	96
60) ethyl acrylate	5.059	55	252265	50.61	ug/L	100
61) 2-nitropropane	5.588	41	58341	47.34	ug/L	98
62) 2-chloroethyl vinyl ether	5.624	63	378922	193.11	ug/L	97
63) methyl methacrylate	5.239	100	47807	49.08	ug/L	98
64) 1,2-dichloropropane	5.239	63	131303	47.38	ug/L	98
65) methylcyclohexane	5.229	83	219044	46.33	ug/L	98
66) dibromomethane	5.309	93	76438	47.59	ug/L	97
67) bromodichloromethane	5.431	83	180469	48.64	ug/L	98
68) cis-1,3-dichloropropene	5.768	75	219878	49.38	ug/L	97
69) epichlorohydrin	5.675	57	123769	225.14	ug/L	96
70) 4-methyl-2-pentanone	5.864	58	337165	188.55	ug/L	95
71) 3-methyl-1-butanol	5.887	70	138035	857.02	ug/L	98
74) toluene	6.050	92	323312	48.70	ug/L	99
75) trans-1,3-dichloropropene	6.220	75	201637	48.16	ug/L	98
76) ethyl methacrylate	6.240	69	216576	50.37	ug/L	98
77) 1,1,2-trichloroethane	6.391	83	108953	48.88	ug/L	99
78) 2-hexanone	6.551	58	349424	174.80	ug/L	96
79) tetrachloroethene	6.487	166	132818	48.33	ug/L	92
80) 1,3-dichloropropane	6.535	76	206159	46.71	ug/L	100
81) butyl acetate	6.638	56	137603	50.15	ug/L	100
82) dibromochloromethane	6.724	129	129658	47.52	ug/L	98
83) 1,2-dibromoethane	6.840	107	135303	49.03	ug/L	97
84) n-butyl ether	7.308	57	590374	50.87	ug/L	99
85) chlorobenzene	7.267	112	324596	48.40	ug/L	96
86) 1,1,1,2-tetrachloroethane	7.337	131	108829	47.92	ug/L	99
87) ethylbenzene	7.340	91	561071	46.71	ug/L	98
88) m,p-xylene	7.456	106	448690	95.90	ug/L	98
89) o-xylene	7.809	106	231543	50.10	ug/L	94
90) butyl acrylate	7.729	55	342359	51.96	ug/L	99
91) styrene	7.828	104	357096	46.87	ug/L	99
92) bromoform	8.005	173	92683	44.78	ug/L	94
93) isopropylbenzene	8.146	105	574274	47.69	ug/L	99
94) cis-1,4-dichloro-2-butene	8.197	88	43374	35.41	ug/L	92
97) bromobenzene	8.460	156	130540	49.51	ug/L	98
98) 1,1,2,2-tetrachloroethane	8.431	83	197356	48.62	ug/L	93
99) trans-1,4-dichloro-2-b...	8.467	53	38226	37.30	ug/L	98
100) 1,2,3-trichloropropane	8.492	110	53259	48.60	ug/L	95
101) n-propylbenzene	8.537	91	615722	48.64	ug/L	99
102) 2-chlorotoluene	8.634	126	122947	49.12	ug/L	98
103) 4-chlorotoluene	8.749	126	119283	47.56	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\October 2022\Oct. 31, 2022\vl10552\
Data File : l348811.d
Acq On : 29 Oct 2022 3:29 pm
Operator : BridgetK
Sample : jd54108-4ms Inst : GCMSL
Misc : MS63384,VL10552,5,,,,50
ALS Vial : 14 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Results File: ML10548.RES
Quant Time: Oct 31 23:04:32 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Fri Oct 28 18:07:24 2022
Response via : Initial Calibration

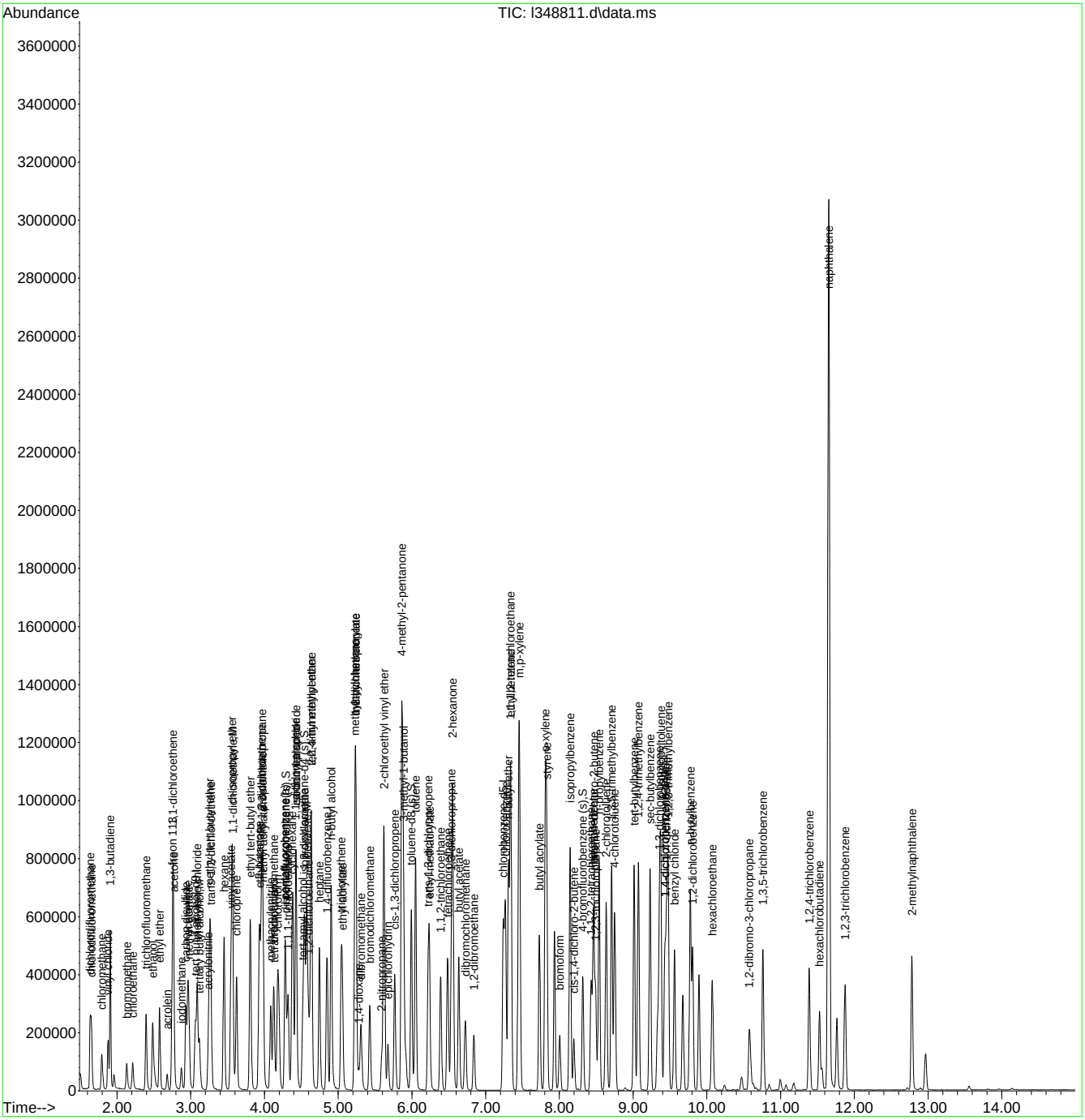
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3,5-trimethylbenzene	8.707	105	438959	47.86	ug/L	99
105) tert-butylbenzene	9.015	119	379688	48.64	ug/L	98
106) 1,2,4-trimethylbenzene	9.070	105	454989	50.72	ug/L	99
107) sec-butylbenzene	9.230	105	555959	48.73	ug/L	100
108) 1,3-dichlorobenzene	9.356	146	223086	48.59	ug/L	99
109) p-isopropyltoluene	9.375	119	427163	48.29	ug/L	100
110) 1,4-dichlorobenzene	9.452	146	213950	47.60	ug/L	97
111) 1,2,3-trimethylbenzene	9.474	105	419649	48.81	ug/L	98
112) 1,2-dichlorobenzene	9.808	146	207644	47.86	ug/L	98
113) n-butylbenzene	9.776	92	224848	49.90	ug/L	97
114) 1,2-dibromo-3-chloropr...	10.572	157	49224	47.10	ug/L	94
115) 1,3,5-trichlorobenzene	10.761	180	160090	52.30	ug/L	98
116) 1,2,4-trichlorobenzene	11.390	180	140026	54.83	ug/L	94
117) hexachlorobutadiene	11.528	225	56942	50.13	ug/L	92
118) naphthalene	11.653	128	2471108	282.99	ug/L	89
119) 1,2,3-trichlorobenzene	11.875	180	121845	49.93	ug/L	95
120) hexachloroethane	10.074	119	89679	53.77	ug/L	97
121) benzyl chloride	9.561	91	358542	51.83	ug/L	98
122) 2-methylnaphthalene	12.783	142	238592	54.85	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\October 2022\Oct. 31, 2022\vl10552\
Data File : l348811.d
Acq On : 29 Oct 2022 3:29 pm
Operator : BridgetK
Sample : jd54108-4ms Inst : GCMSL
Misc : MS63384,VL10552,5,,,,50
ALS Vial : 14 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Results File: ML10548.RES
Quant Time: Oct 31 23:04:32 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Fri Oct 28 18:07:24 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\October 2022\Oct. 31, 2022\vl10552\
Data File : l348812.d
Acq On : 29 Oct 2022 3:52 pm
Operator : BridgetK
Sample : jd54108-4msd Inst : GCMSL
Misc : MS63384,VL10552,5,,,,50
ALS Vial : 15 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Results File: ML10548.RES
Quant Time: Oct 31 23:15:28 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Fri Oct 28 18:07:24 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	3.066	65	240780	500.00	ug/L		0.00
5) pentafluorobenzene	4.282	168	221872	50.00	ug/L		0.00
51) 1,4-difluorobenzene	4.853	114	316921	50.00	ug/L		0.00
72) chlorobenzene-d5	7.241	117	303090	50.00	ug/L		0.00
95) 1,4-dichlorobenzene-d4	9.429	152	119648	50.00	ug/L		0.00
123) pentafluorobenzene(a)	4.282	168	221872	50.00	ug/L		0.00
127) 1,4-dichlorobenzene-d4(a)	9.429	152	119684	50.00	ug/L		0.00
System Monitoring Compounds							
43) dibromofluoromethane (s)	4.295	113	91822	49.72	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.44%				
52) 1,2-dichloroethane-d4 (s)	4.545	65	108649	50.07	ug/L		0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 100.14%				
73) toluene-d8 (s)	5.996	98	386034	48.10	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 96.20%				
96) 4-bromofluorobenzene (s)	8.319	95	143599	52.18	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 104.36%				
Target Compounds							Qvalue
2) 1,4-dioxane	5.287	88	48363	1014.19	ug/L		97
3) ethanol	2.489	45	281213	4319.23	ug/L		99
4) tertiary butyl alcohol	3.121	59	170256	236.10	ug/L		99
6) chlorodifluoromethane	1.654	51	165709	38.39	ug/L	#	99
7) dichlorodifluoromethane	1.638	85	161053	31.92	ug/L		98
8) chloromethane	1.795	50	109113	28.15	ug/L		97
9) vinyl chloride	1.882	62	122165	30.45	ug/L		98
10) 1,3-butadiene	1.911	54	154319	53.17	ug/L		98
11) bromomethane	2.132	96	46692	45.19	ug/L		92
12) chloroethane	2.213	64	67315	32.34	ug/L		93
13) trichlorofluoromethane	2.399	101	166596	38.57	ug/L		96
14) ethyl ether	2.582	74	84587	46.86	ug/L		96
15) acrolein	2.681	56	37508	42.00	ug/L		95
16) freon 113	2.758	151	88504	43.11	ug/L		97
17) 1,1-dichloroethene	2.761	96	101360	42.00	ug/L		98
18) acetone	2.774	58	85369	143.34	ug/L		97
19) acetonitrile	2.967	40	153776	475.85	ug/L		91
20) iodomethane	2.877	142	88264	52.40	ug/L		97
21) iso-butyl alcohol	4.433	43	121133	438.80	ug/L		95
22) carbon disulfide	2.938	76	320043	39.01	ug/L		98
23) methylene chloride	3.095	84	124322	45.75	ug/L		97
24) methyl acetate	2.979	74	37356	48.09	ug/L		88
25) methyl tert butyl ether	3.259	73	392617	48.07	ug/L		98
26) trans-1,2-dichloroethene	3.278	96	109246	42.92	ug/L		97
27) hexane	3.458	57	204599	43.42	ug/L		99
28) di-isopropyl ether	3.567	45	429648	46.75	ug/L		98
29) ethyl tert-butyl ether	3.811	59	446134	47.43	ug/L		99
30) 2-butanone	3.933	72	115451	181.79	ug/L		94
31) 1,1-dichloroethane	3.573	63	220966	45.40	ug/L		98
32) chloroprene	3.624	53	193138	43.97	ug/L		97
33) acrylonitrile	3.239	53	66306	36.35	ug/L		98
34) vinyl acetate	3.547	86	35929	51.71	ug/L	#	88
35) ethyl acetate	3.945	45	38947	50.03	ug/L		92
36) 2,2-dichloropropane	3.971	77	174372	44.81	ug/L		97
37) cis-1,2-dichloroethene	3.961	96	123412	44.94	ug/L		98
38) propionitrile	3.981	54	316224	468.07	ug/L		95
39) methyl acrylate	3.990	85	31007	47.61	ug/L	#	73

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\October 2022\Oct. 31, 2022\vl10552\
Data File : l348812.d
Acq On : 29 Oct 2022 3:52 pm
Operator : BridgetK
Sample : jd54108-4msd Inst : GCMSL
Misc : MS63384,VL10552,5,,,,50
ALS Vial : 15 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Results File: ML10548.RES
Quant Time: Oct 31 23:15:28 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Fri Oct 28 18:07:24 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
40) bromochloromethane	4.128	128	58553	48.33	ug/L		89
41) tetrahydrofuran	4.138	72	31887	45.04	ug/L	#	76
42) chloroform	4.183	83	214214	45.11	ug/L		99
44) methacrylonitrile	4.090	67	87153	47.00	ug/L		97
45) 1,1,1-trichloroethane	4.321	97	177030	44.75	ug/L		97
46) cyclohexane	4.379	84	122617	29.70	ug/L		88
47) 1,1-dichloropropene	4.430	75	158557	44.28	ug/L		98
48) carbon tetrachloride	4.436	117	139069	44.16	ug/L		98
49) isopropyl acetate	4.549	87	40688	50.30	ug/L	#	92
50) tert amyl alcohol	4.523	55	58377	215.27	ug/L		96
53) tert-amyl methyl ether	4.635	73	378190	47.66	ug/L		99
54) 2,2,4-trimethylpentane	4.638	57	396269	45.05	ug/L		98
55) n-butyl alcohol	4.908	56	387259	2243.78	ug/L		99
56) benzene	4.574	78	470199	45.14	ug/L		98
57) heptane	4.748	57	94987	45.61	ug/L		99
58) 1,2-dichloroethane	4.600	62	164465	48.10	ug/L		100
59) trichloroethene	5.043	95	123583	46.08	ug/L		90
60) ethyl acrylate	5.062	55	257125	50.81	ug/L		99
61) 2-nitropropane	5.592	41	59390	47.46	ug/L		93
62) 2-chloroethyl vinyl ether	5.624	63	360272	180.82	ug/L		98
63) methyl methacrylate	5.245	100	48951	49.49	ug/L	#	88
64) 1,2-dichloropropane	5.242	63	132786	47.19	ug/L		95
65) methylcyclohexane	5.232	83	212452	44.26	ug/L		98
66) dibromomethane	5.312	93	78805	48.32	ug/L		99
67) bromodichloromethane	5.431	83	179302	47.59	ug/L		99
68) cis-1,3-dichloropropene	5.768	75	221524	48.99	ug/L		97
69) epichlorohydrin	5.678	57	132741	237.80	ug/L		96
70) 4-methyl-2-pentanone	5.867	58	349799	192.65	ug/L		96
71) 3-methyl-1-butanol	5.890	70	145925	892.27	ug/L		96
74) toluene	6.054	92	321698	47.76	ug/L		98
75) trans-1,3-dichloropropene	6.220	75	205902	48.48	ug/L		99
76) ethyl methacrylate	6.240	69	219785	50.39	ug/L		99
77) 1,1,2-trichloroethane	6.391	83	109673	48.51	ug/L		98
78) 2-hexanone	6.554	58	364969	179.98	ug/L		98
79) tetrachloroethene	6.487	166	131048	47.00	ug/L		93
80) 1,3-dichloropropane	6.535	76	209142	46.71	ug/L		100
81) butyl acetate	6.641	56	139012	49.94	ug/L		97
82) dibromochloromethane	6.724	129	130284	47.07	ug/L		95
83) 1,2-dibromoethane	6.843	107	137260	49.03	ug/L		96
84) n-butyl ether	7.311	57	598633	50.84	ug/L		99
85) chlorobenzene	7.270	112	324940	47.76	ug/L		97
86) 1,1,1,2-tetrachloroethane	7.337	131	110134	47.81	ug/L		96
87) ethylbenzene	7.344	91	557022	45.72	ug/L		99
88) m,p-xylene	7.456	106	445016	93.76	ug/L		97
89) o-xylene	7.812	106	231994	49.48	ug/L		98
90) butyl acrylate	7.732	55	346224	51.80	ug/L		98
91) styrene	7.828	104	357339	46.24	ug/L		98
92) bromoform	8.005	173	94826	45.17	ug/L		95
93) isopropylbenzene	8.146	105	566436	46.37	ug/L		98
94) cis-1,4-dichloro-2-butene	8.197	88	45553	36.66	ug/L		92
97) bromobenzene	8.463	156	130418	50.30	ug/L		95
98) 1,1,2,2-tetrachloroethane	8.428	83	200791	50.30	ug/L		96
99) trans-1,4-dichloro-2-b...	8.467	53	38892	38.59	ug/L		94
100) 1,2,3-trichloropropane	8.496	110	56017	51.99	ug/L		99
101) n-propylbenzene	8.540	91	613442	49.29	ug/L		97
102) 2-chlorotoluene	8.637	126	122206	49.65	ug/L		98
103) 4-chlorotoluene	8.752	126	119500	48.45	ug/L		88

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\October 2022\Oct. 31, 2022\vl10552\
Data File : l348812.d
Acq On : 29 Oct 2022 3:52 pm
Operator : BridgetK
Sample : jd54108-4msd Inst : GCMSL
Misc : MS63384,VL10552,5,,,,50
ALS Vial : 15 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Results File: ML10548.RES
Quant Time: Oct 31 23:15:28 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Fri Oct 28 18:07:24 2022
Response via : Initial Calibration

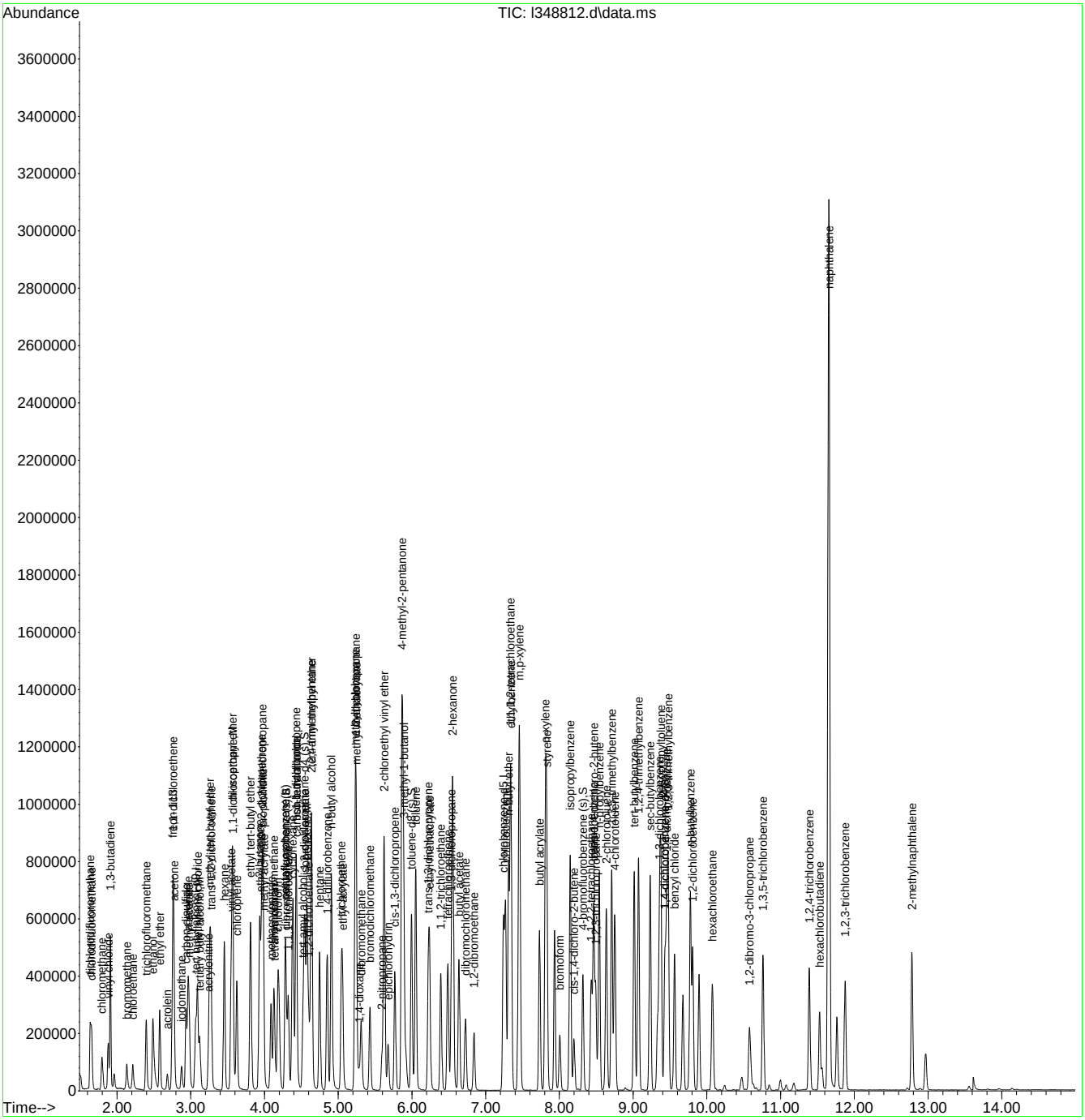
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3,5-trimethylbenzene	8.711	105	439038	48.68	ug/L	99
105) tert-butylbenzene	9.015	119	377588	49.19	ug/L	99
106) 1,2,4-trimethylbenzene	9.073	105	456242	51.72	ug/L	99
107) sec-butylbenzene	9.230	105	549675	49.00	ug/L	99
108) 1,3-dichlorobenzene	9.356	146	223879	49.59	ug/L	99
109) p-isopropyltoluene	9.375	119	415845	47.81	ug/L	98
110) 1,4-dichlorobenzene	9.455	146	212450	48.07	ug/L	96
111) 1,2,3-trimethylbenzene	9.474	105	416726	49.30	ug/L	100
112) 1,2-dichlorobenzene	9.808	146	208754	48.93	ug/L	97
113) n-butylbenzene	9.776	92	224244	50.61	ug/L	98
114) 1,2-dibromo-3-chloropr...	10.575	157	51184	49.81	ug/L	96
115) 1,3,5-trichlorobenzene	10.761	180	158098	52.52	ug/L	98
116) 1,2,4-trichlorobenzene	11.390	180	139046	55.37	ug/L	98
117) hexachlorobutadiene	11.531	225	57107	51.13	ug/L	94
118) naphthalene	11.656	128	2506744	291.94	ug/L	90
119) 1,2,3-trichlorobenzene	11.875	180	124578	51.92	ug/L	95
120) hexachloroethane	10.078	119	83789	51.09	ug/L	96
121) benzyl chloride	9.561	91	365311	53.71	ug/L	98
122) 2-methylnaphthalene	12.783	142	255520	59.74	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\October 2022\Oct. 31, 2022\vl10552\
Data File : l348812.d
Acq On : 29 Oct 2022 3:52 pm
Operator : BridgetK
Sample : jd54108-4msd Inst : GCMSL
Misc : MS63384,VL10552,5,,,,50
ALS Vial : 15 Sample Multiplier: 1

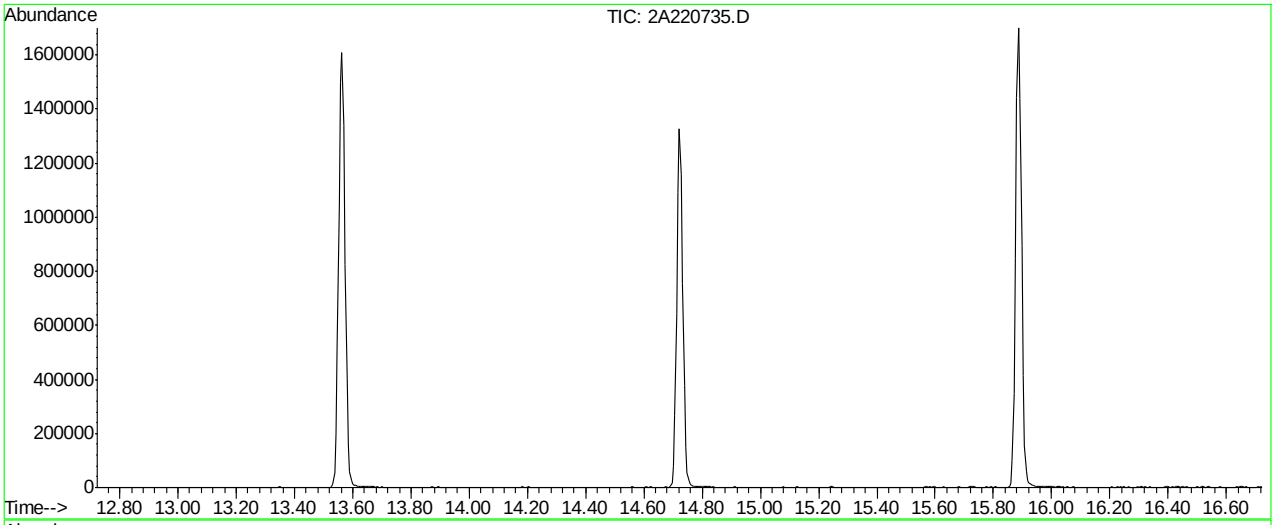
Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Results File: ML10548.RES
Quant Time: Oct 31 23:15:28 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Fri Oct 28 18:07:24 2022
Response via : Initial Calibration



SW-846 Method 8260

Data File : C:\MSDChem\1\DATA\V2A9596\2A220735.D Vial: 1
Acq On : 13 Oct 2022 5:42 pm Operator: PrashanS
Sample : BFB Inst : GCMS2A
Misc : MS62754,V2A9596,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M2A9596.M (RTE Integrator)
Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 09:22:42 2022



AutoFind: Scans 2161, 2162, 2163; Background Corrected with Scan 2153

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.3	53573	PASS
75	95	30	60	46.0	110642	PASS
95	95	100	100	100.0	240298	PASS
96	95	5	9	6.5	15575	PASS
173	174	0.00	2	0.9	1954	PASS
174	95	50	120	88.1	211797	PASS
175	174	5	9	7.5	15782	PASS
176	174	95	101	99.5	210837	PASS
177	176	5	9	6.7	14168	PASS

2A220735.D M2A9596.M Fri Oct 14 18:42:38 2022 MS2A

Average of 14.717 to 14.728 min.: 2A220735.D
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	2671	49.00	11236	63.00	7819	76.95	1274
37.05	12574	50.00	53573	64.05	674	77.95	892
38.00	11150	51.00	16030	66.95	548	78.90	5935
39.05	4455	52.00	739	68.00	23077	79.90	1660
40.00	183	54.90	519	69.00	22570	80.90	6261
41.10	68	56.00	3351	70.00	1721	81.95	1383
43.10	71	57.00	6893	71.95	1039	83.00	90
44.00	956	57.95	291	73.00	9680	85.95	239
45.00	2343	60.00	2218	74.00	36728	86.95	10342
47.00	4205	61.00	10952	75.00	110642	87.95	9967
48.00	1464	62.00	10823	76.00	9032	90.95	859

Average of 14.717 to 14.728 min.: 2A220735.D
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
91.95	5615	114.80	91	134.85	396	149.85	187
93.00	8797	115.00	98	136.95	361	152.90	75
94.00	25088	115.90	752	139.80	189	153.80	68
95.00	240298	116.90	1392	140.90	2189	154.90	676
96.00	15575	117.90	682	142.00	307	156.95	449
97.00	528	118.90	1262	142.85	2481	158.80	244
103.85	1028	123.90	85	143.90	68	160.90	206
104.80	320	127.85	946	144.85	135	171.90	79
105.95	1068	128.95	443	145.85	348	173.00	1954
106.95	245	129.90	990	146.90	185	173.90	211797
112.85	184	130.90	371	147.90	608	174.90	15782

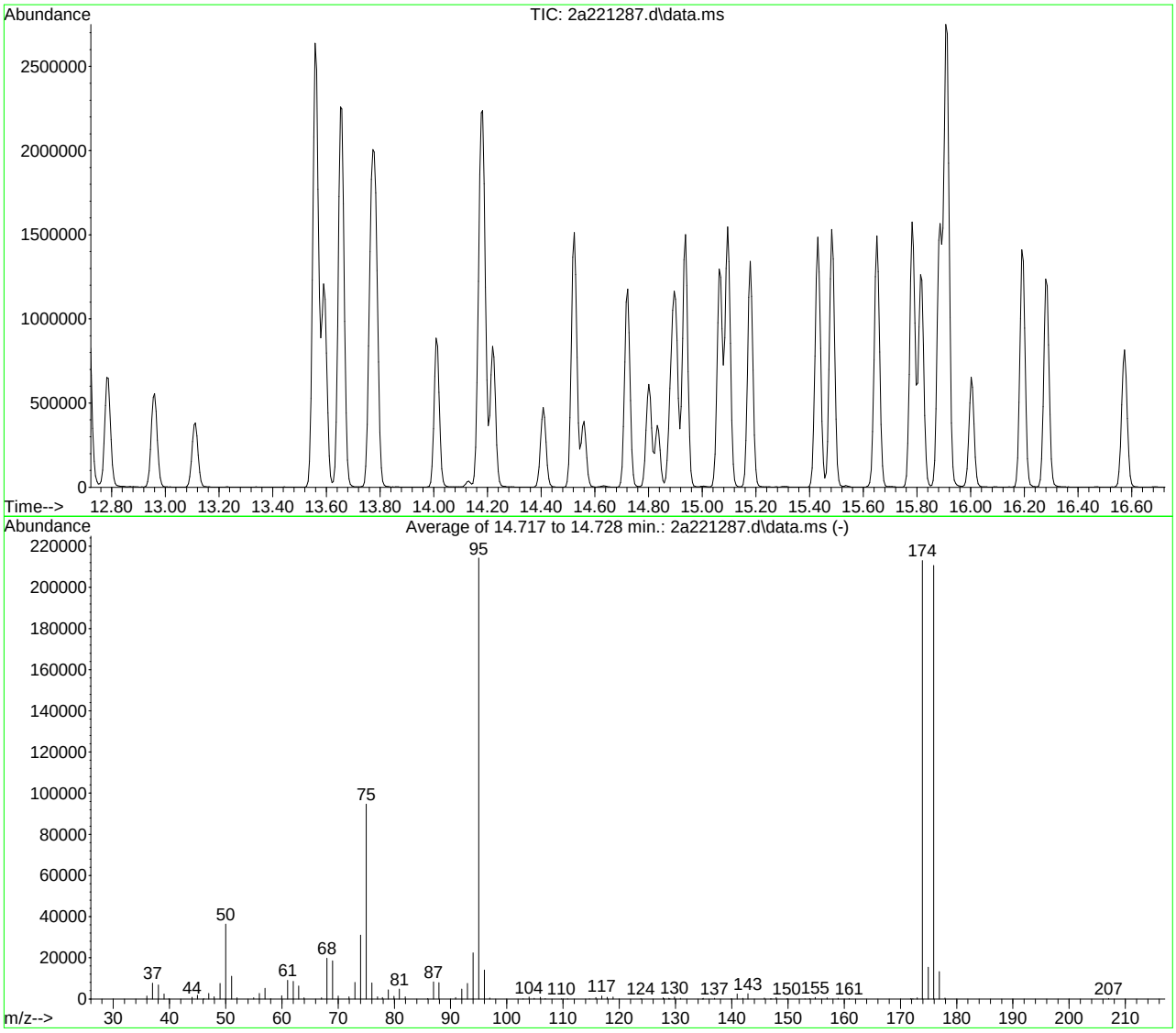
Average of 14.717 to 14.728 min.: 2A220735.D
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
175.90	210837						
176.95	14168						
177.95	440						

SW-846 Method 8260

Data File : C:\msdchem\1\data\ne...22\v2a9619\2a221287.d Vial: 29
Acq On : 27 Oct 2022 10:49 pm Operator: nickw
Sample : bfb Inst : GCMS2A
Misc : MS63376,V2A9619,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M2A9596.M (RTE Integrator)
Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 09:22:42 2022



AutoFind: Scans 2161, 2162, 2163; Background Corrected with Scan 2153

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.0	36341	PASS
75	95	30	60	44.2	94723	PASS
95	95	100	100	100.0	214251	PASS
96	95	5	9	6.5	14024	PASS
173	174	0.00	2	0.3	628	PASS
174	95	50	120	99.4	213035	PASS
175	174	5	9	7.3	15475	PASS
176	174	95	101	98.9	210667	PASS
177	176	5	9	6.3	13250	PASS

2a221287.d M2A9596.M Sat Oct 29 02:35:13 2022

Average of 14.717 to 14.728 min.: 2a221287.d\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	1445	50.00	36341	63.95	589	77.85	681
37.00	7677	51.05	10994	67.05	527	78.90	4477
38.05	6807	52.00	552	68.00	19774	79.95	1362
39.05	2475	55.00	546	69.00	18499	80.90	4786
39.90	97	56.00	2660	70.00	1425	81.95	1115
44.00	795	57.00	5160	71.95	1010	85.90	244
45.00	1842	58.00	69	73.00	8078	86.95	8282
46.10	82	59.95	1539	74.00	31045	87.90	7962
47.00	2633	61.00	9016	75.00	94723	90.90	642
47.95	1027	62.00	8518	76.00	7855	92.00	4875
49.00	7515	63.00	6313	77.00	1089	93.00	7575

Average of 14.717 to 14.728 min.: 2a221287.d\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
94.00	22389	114.70	76	130.85	335	147.90	637
95.00	214251	115.85	651	134.80	87	149.80	85
96.00	14024	116.90	1450	134.95	257	150.00	83
96.95	430	117.85	821	136.95	352	153.00	85
102.90	71	118.90	988	139.90	83	153.85	170
103.95	997	123.85	158	140.95	2382	154.85	664
104.85	346	127.80	613	141.95	282	156.95	525
105.95	853	128.00	255	142.90	2537	158.90	367
106.85	175	128.80	285	145.80	397	160.90	183
109.70	75	129.00	144	146.90	72	171.85	191
110.80	69	129.80	992	147.10	113	172.20	132

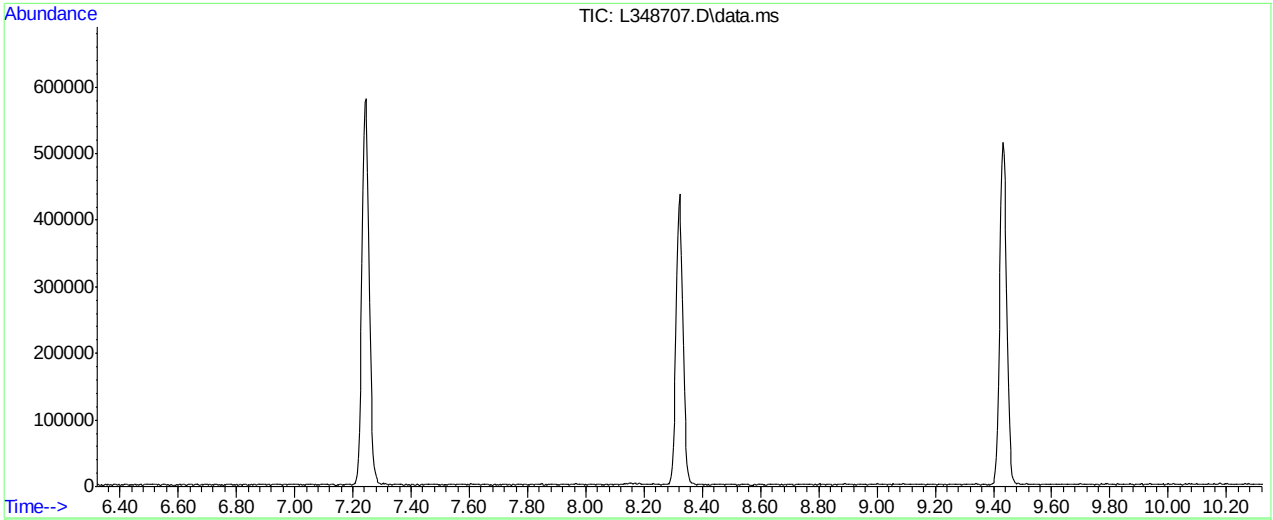
Average of 14.717 to 14.728 min.: 2a221287.d\data.ms
bfb
Modified:subtracted

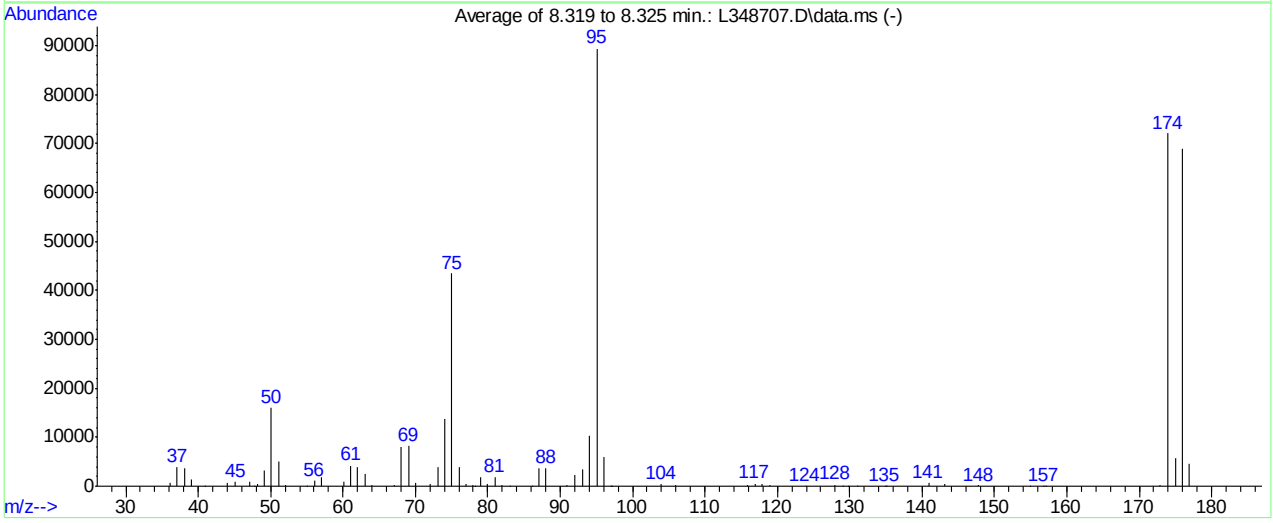
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
173.00	628						
173.90	213035						
174.95	15475						
175.90	210667						
176.90	13250						
177.90	417						
207.00	182						

SW-846 Method 8260

Data File : C:\msdchem\1\DATA\VL10548\L348707.D Vial: 1
Acq On : 27 Oct 2022 1:23 am Operator: PrashanS
Sample : BFB Inst : GCMSL
Misc : MS63290,VL10548,5,,,,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\ML10548.M (RTE Integrator)
Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um





AutoFind: Scans 2129, 2130, 2131; Background Corrected with Scan 2114

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.9	15976	PASS
75	95	30	60	48.6	43467	PASS
95	95	100	100	100.0	89389	PASS
96	95	5	9	6.8	6041	PASS
173	174	0.00	2	0.4	262	PASS
174	95	50	120	80.7	72101	PASS
175	174	5	9	8.0	5774	PASS
176	174	95	101	95.7	69016	PASS
177	176	5	9	6.7	4622	PASS

L348707.D ML10548.M Thu Oct 27 18:58:44 2022 1

Average of 8.319 to 8.325 min.: L348707.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	761	50.10	15976	67.05	247	78.30	108
37.10	3986	51.10	4994	68.05	8069	79.00	1840
38.05	3636	52.10	205	69.05	8192	79.95	461
39.05	1440	55.00	65	70.05	722	80.95	1949
40.90	87	56.05	1092	72.05	424	82.00	301
44.00	587	57.05	1933	73.05	3863	83.00	67
45.10	830	60.05	947	74.05	13782	86.20	73
47.05	940	61.05	4226	75.05	43467	87.00	3702
47.80	106	62.05	3985	76.05	3929	88.00	3730
48.15	509	63.10	2550	77.00	512	91.00	322
49.05	3268	64.00	280	77.90	253	92.05	2223

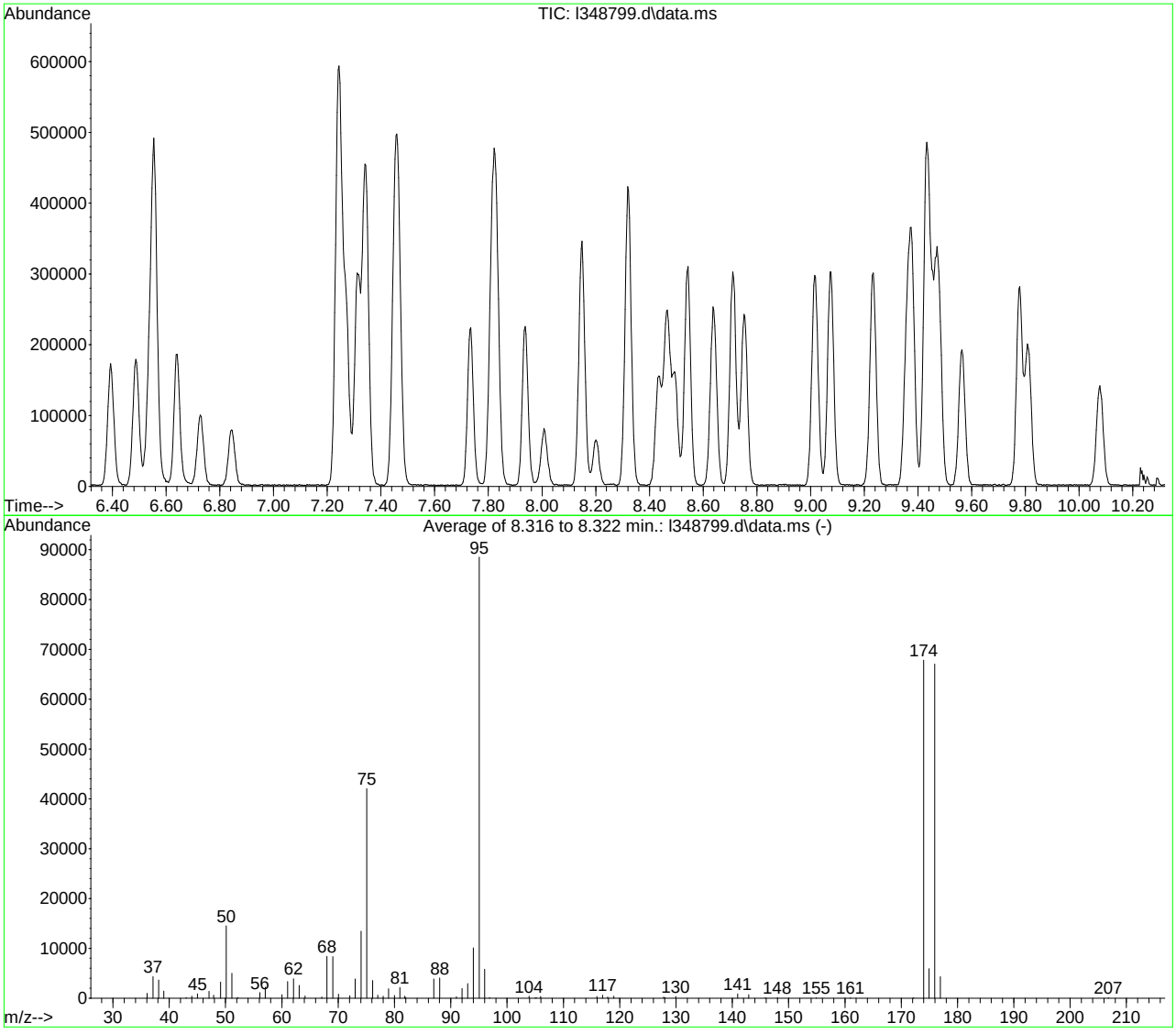
Average of 8.319 to 8.325 min.: L348707.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
93.05	3490	118.90	346	154.90	77		
94.05	10243	123.90	109	156.80	100		
95.05	89389	127.95	240	157.00	87		
96.05	6041	129.00	94	172.90	262		
97.00	88	129.80	70	173.95	72101		
97.20	84	131.00	75	175.00	5774		
103.95	436	134.90	117	176.00	69016		
106.00	310	135.10	83	176.95	4622		
115.90	183	140.95	649				
116.90	555	143.05	526				
117.80	417	147.80	226				

SW-846 Method 8260

Data File : C:\msdchem\1\data\An...022\vl10552\l348799.d Vial: 2
Acq On : 29 Oct 2022 10:33 am Operator: BridgetK
Sample : bfb Inst : GCMSL
Misc : MS63359,VL10552,5,,,,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\ML10548.M (RTE Integrator)
Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um



AutoFind: Scans 2128, 2129, 2130; Background Corrected with Scan 2114

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.4	14503	PASS
75	95	30	60	47.5	42040	PASS
95	95	100	100	100.0	88509	PASS
96	95	5	9	6.6	5804	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	76.6	67835	PASS
175	174	5	9	8.7	5932	PASS
176	174	95	101	98.9	67064	PASS
177	176	5	9	6.4	4290	PASS

l348799.d ML10548.M Mon Oct 31 22:18:00 2022

Average of 8.316 to 8.322 min.: l348799.d\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	968	51.10	5002	69.05	8309	80.95	2166
37.10	4329	52.20	145	70.05	782	81.80	364
38.10	3646	56.10	1125	72.05	491	82.00	153
39.05	1431	57.05	2218	73.00	3833	87.00	3828
43.00	139	60.00	680	74.05	13416	88.05	4053
44.00	405	61.00	3325	75.05	42040	91.00	310
45.00	837	62.05	3912	76.10	3539	92.00	1934
47.05	1347	63.05	2539	77.05	590	93.00	2907
47.90	588	64.10	460	78.00	399	94.00	10064
49.10	3224	67.10	228	78.95	1882	95.05	88509
50.10	14503	68.00	8374	80.00	544	96.00	5804

Average of 8.316 to 8.322 min.: l348799.d\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
96.90	127	129.95	312	176.95	4290		
103.90	396	140.95	840	206.80	75		
105.00	79	142.90	701				
105.20	77	145.90	81				
105.95	357	148.00	87				
115.95	340	154.90	82				
116.95	586	161.00	78				
117.85	210	172.20	73				
118.95	381	174.00	67835				
127.80	236	174.95	5932				
128.10	75	175.95	67064				

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9596\
Data File : 2A220736.D
Acq On : 13 Oct 2022 6:18 pm
Operator : PrashanS
Sample : IC9596-0.2
Misc : MS62754,V2A9596,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 14 18:43:52 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 08:54:13 2022
QLast Update : Fri Oct 14 08:54:13 2022
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) tert butyl alcohol-d9	7.25	65	346171	500.00	ug/L		0.00
5) pentafluorobenzene	9.52	168	640998	50.00	ug/L		0.00
50) 1,4-difluorobenzene	10.44	114	876432	50.00	ug/L		0.00
72) chlorobenzene-d5	13.56	117	772505	50.00	ug/L		0.00
96) 1,4-dichlorobenzene-d4	15.89	152	390174	50.00	ug/L		0.00
System Monitoring Compounds							
43) dibromofluoromethane (s)	9.54	113	280281	49.61	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.22%				
51) 1,2-dichloroethane-d4 (s)	9.96	65	347801	51.38	ug/L		0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 102.76%				
73) toluene-d8 (s)	12.06	98	973540	49.46	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 98.92%				
97) 4-bromofluorobenzene (s)	14.72	95	374154	51.04	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 102.08%				
Target Compounds							Qvalue
6) chlorodifluoromethane	3.99	51	1632	0.19	ug/L		67
9) vinyl chloride	4.57	62	1360	0.18	ug/L	#	51
12) chloroethane	5.36	64	648	0.16	ug/L		62
20) iodomethane	6.85	142	1557	0.17	ug/L		83
24) methyl tert butyl ether	7.68	73	3412	0.24	ug/L		96
25) trans-1,2-dichloroethene	7.70	96	1123	0.23	ug/L	#	67
27) di-isopropyl ether	8.26	45	5050	0.23	ug/L	#	65
28) ethyl tert-butyl ether	8.72	59	4252	0.22	ug/L		92
30) 1,1-dichloroethane	8.26	63	1875	0.19	ug/L		85
31) chloroprene	8.38	53	1950	0.20	ug/L	#	56
35) 2,2-dichloropropane	9.01	77	1674	0.23	ug/L		81
36) cis-1,2-dichloroethene	8.98	96	1208	0.22	ug/L	#	49
38) bromochloromethane	9.26	130	623	0.17	ug/L	#	54
45) 1,1,1-trichloroethane	9.61	97	1589	0.19	ug/L	#	71
46) cyclohexane	9.73	84	1656	0.21	ug/L	#	36
47) 1,1-dichloropropene	9.78	75	1431	0.20	ug/L	#	80
48) tert-amyl alcohol	9.92	73	407	1.18	ug/L	#	47
49) carbon tetrachloride	9.80	117	1380	0.19	ug/L	#	61
52) 2,2,4-trimethylpentane	10.12	57	5060	0.21	ug/L		92
53) tert-amyl methyl ether	10.11	73	3702	0.24	ug/L		90
55) benzene	10.02	78	4102	0.21	ug/L		93
56) heptane	10.29	57	1097	0.24	ug/L		81
59) trichloroethene	10.75	95	1045	0.19	ug/L		80
64) 1,2-dichloropropane	11.04	63	1140	0.20	ug/L		99
65) methylcyclohexane	11.05	83	1950	0.22	ug/L		87
66) dibromomethane	11.15	93	483	0.15	ug/L		72
67) bromodichloromethane	11.30	83	1541	0.22	ug/L		78
69) cis-1,3-dichloropropene	11.76	75	1697	0.20	ug/L		79
70) 4-methyl-2-pentanone	11.86	58	1730	0.68	ug/L	#	74
74) toluene	12.14	92	2463	0.20	ug/L		87
75) trans-1,3-dichloropropene	12.33	75	1416	0.18	ug/L		81
76) ethyl methacrylate	12.34	69	1143	0.16	ug/L		88
77) 1,1,2-trichloroethane	12.55	83	645	0.16	ug/L		87

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9596\
Data File : 2A220736.D
Acq On : 13 Oct 2022 6:18 pm
Operator : PrashanS
Sample : IC9596-0.2
Misc : MS62754,V2A9596,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 14 18:43:52 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 08:54:13 2022
QLast Update : Fri Oct 14 08:54:13 2022
Response via : Initial Calibration

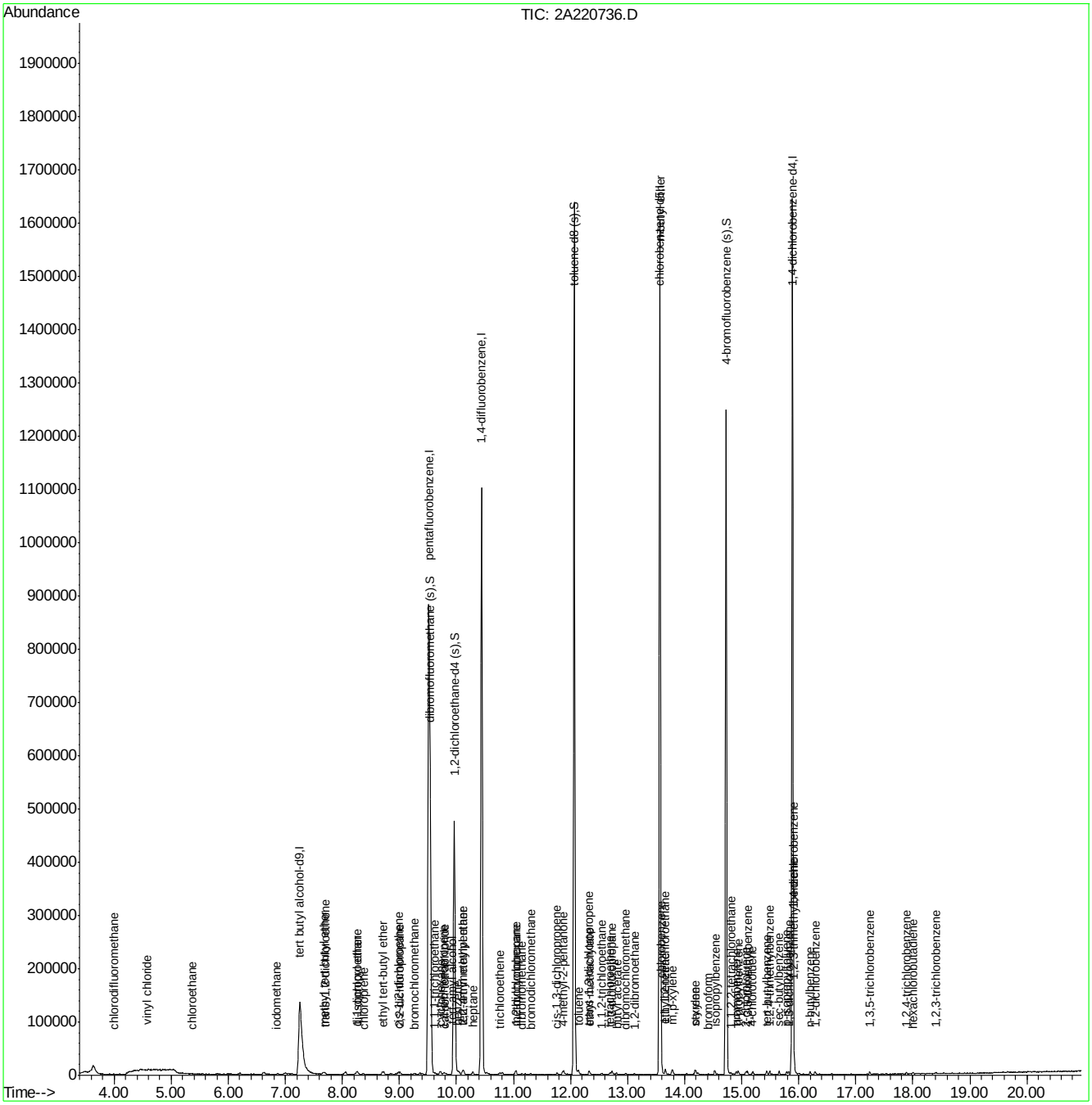
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
79) tetrachloroethene	12.69	166	1466	0.24	ug/L		89
80) 1,3-dichloropropane	12.72	76	1466	0.20	ug/L		77
81) butyl acetate	12.81	56	762	0.17	ug/L	#	65
82) dibromochloromethane	12.96	129	1290	0.22	ug/L		71
83) 1,2-dibromoethane	13.12	107	837	0.17	ug/L		98
84) n-butyl ether	13.57	57	5709	0.23	ug/L	#	1
85) chlorobenzene	13.59	112	2749	0.20	ug/L		78
86) 1,1,1,2-tetrachloroethane	13.66	131	970	0.18	ug/L		86
87) ethylbenzene	13.66	91	4933	0.23	ug/L		88
88) m,p-xylene	13.79	106	3576	0.41	ug/L		97
89) o-xylene	14.18	91	3613	0.21	ug/L		84
90) styrene	14.20	104	2417	0.17	ug/L		92
92) bromoform	14.42	173	755	0.18	ug/L		92
94) isopropylbenzene	14.53	105	4879	0.23	ug/L		91
98) bromobenzene	14.90	156	1411	0.23	ug/L	#	79
99) 1,1,2,2-tetrachloroethane	14.81	83	1168	0.20	ug/L		81
102) n-propylbenzene	14.94	91	5445	0.22	ug/L		96
103) 2-chlorotoluene	15.08	126	1107	0.20	ug/L	#	77
104) 4-chlorotoluene	15.19	91	3311	0.22	ug/L		97
105) 1,3,5-trimethylbenzene	15.10	105	3668	0.22	ug/L		92
106) tert-butylbenzene	15.44	119	3085	0.20	ug/L		91
107) 1,2,4-trimethylbenzene	15.49	105	3472	0.20	ug/L		91
108) sec-butylbenzene	15.66	105	4797	0.22	ug/L		90
109) 1,3-dichlorobenzene	15.82	146	2477	0.23	ug/L		91
110) p-isopropyltoluene	15.79	119	3596	0.19	ug/L		89
112) 1,2,3-trimethylbenzene	15.92	105	3773	0.22	ug/L		94
113) 1,4-dichlorobenzene	15.91	146	2564	0.23	ug/L		86
114) 1,2-dichlorobenzene	16.29	146	2305	0.22	ug/L		74
115) n-butylbenzene	16.20	92	1867	0.20	ug/L	#	66
117) 1,3,5-trichlorobenzene	17.24	180	1588	0.19	ug/L	#	73
118) 1,2,4-trichlorobenzene	17.89	180	1168	0.16	ug/L		89
119) hexachlorobutadiene	18.00	225	812	0.23	ug/L	#	64
121) 1,2,3-trichlorobenzene	18.40	180	1048	0.18	ug/L		78

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9596\
Data File : 2A220736.D
Acq On : 13 Oct 2022 6:18 pm
Operator : PrashanS
Sample : IC9596-0.2
Misc : MS62754,V2A9596,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 14 18:43:52 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 08:54:13 2022
QLast Update : Fri Oct 14 08:54:13 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9596\
Data File : 2A220737.D
Acq On : 13 Oct 2022 6:37 pm
Operator : PrashanS
Sample : IC9596-0.5
Misc : MS62754,V2A9596,5,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 14 18:44:36 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 08:54:13 2022
QLast Update : Fri Oct 14 08:54:13 2022
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) tert butyl alcohol-d9	7.25	65	352634	500.00	ug/L		0.00
5) pentafluorobenzene	9.51	168	645584	50.00	ug/L		0.00
50) 1,4-difluorobenzene	10.43	114	878119	50.00	ug/L		0.00
72) chlorobenzene-d5	13.56	117	771580	50.00	ug/L		0.00
96) 1,4-dichlorobenzene-d4	15.89	152	393384	50.00	ug/L		0.00
System Monitoring Compounds							
43) dibromofluoromethane (s)	9.54	113	284762	50.04	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.08%				
51) 1,2-dichloroethane-d4 (s)	9.96	65	349478	51.53	ug/L		0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 103.06%				
73) toluene-d8 (s)	12.06	98	980120	49.85	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.70%				
97) 4-bromofluorobenzene (s)	14.72	95	374914	50.73	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 101.46%				
Target Compounds							Qvalue
2) ethanol	5.98	45	3073	44.44	ug/L	#	37
6) chlorodifluoromethane	3.99	51	4445	0.51	ug/L		67
7) dichlorodifluoromethane	3.96	85	3058	0.45	ug/L		83
8) chloromethane	4.34	50	5903	0.61	ug/L		83
9) vinyl chloride	4.58	62	3776	0.49	ug/L		89
11) bromomethane	5.17	94	2589	0.57	ug/L		72
12) chloroethane	5.38	64	1909	0.46	ug/L		68
13) trichlorofluoromethane	5.79	101	3673	0.43	ug/L		94
14) ethyl ether	6.21	74	1379	0.48	ug/L	#	48
16) freon 113	6.62	151	2153	0.48	ug/L	#	89
17) 1,1-dichloroethene	6.61	96	2420	0.54	ug/L	#	68
20) iodomethane	6.85	142	4263	0.47	ug/L		96
21) carbon disulfide	6.99	76	8538	0.55	ug/L		81
22) methylene chloride	7.30	84	2692	0.53	ug/L		98
24) methyl tert butyl ether	7.66	73	6997	0.49	ug/L		93
25) trans-1,2-dichloroethene	7.70	96	2729	0.54	ug/L		90
26) hexane	8.04	57	5373	0.52	ug/L		92
27) di-isopropyl ether	8.25	45	11756	0.54	ug/L		87
28) ethyl tert-butyl ether	8.71	59	10100	0.52	ug/L		90
30) 1,1-dichloroethane	8.25	63	5091	0.50	ug/L		91
31) chloroprene	8.36	53	4936	0.51	ug/L		95
35) 2,2-dichloropropane	8.99	77	3892	0.53	ug/L		91
36) cis-1,2-dichloroethene	8.97	96	2866	0.52	ug/L	#	70
37) propionitrile	9.00	54	4114	4.45	ug/L		63
38) bromochloromethane	9.26	130	1841	0.50	ug/L		79
39) tetrahydrofuran	9.29	42	928	0.44	ug/L	#	48
40) chloroform	9.35	83	5616	0.61	ug/L		99
41) tert-butyl formate	9.39	59	1905	0.51	ug/L		92
44) methacrylonitrile	9.18	67	988	0.43	ug/L	#	79
45) 1,1,1-trichloroethane	9.61	97	4295	0.52	ug/L		87
46) cyclohexane	9.72	84	3915	0.50	ug/L	#	71
47) 1,1-dichloropropene	9.78	75	3325	0.47	ug/L		92
48) tert-amyl alcohol	9.91	73	917	2.63	ug/L	#	48

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9596\
Data File : 2A220737.D
Acq On : 13 Oct 2022 6:37 pm
Operator : PrashanS
Sample : IC9596-0.5
Misc : MS62754,V2A9596,5,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 14 18:44:36 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 08:54:13 2022
QLast Update : Fri Oct 14 08:54:13 2022
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
49) carbon tetrachloride	9.80	117	3314	0.45	ug/L		92
52) 2,2,4-trimethylpentane	10.12	57	11926	0.50	ug/L		94
53) tert-amyl methyl ether	10.11	73	7673	0.50	ug/L		91
55) benzene	10.02	78	9740	0.50	ug/L		99
56) heptane	10.28	57	2266	0.50	ug/L	#	82
58) 1,2-dichloroethane	10.05	62	4799	0.61	ug/L		85
59) trichloroethene	10.75	95	2657	0.48	ug/L		81
64) 1,2-dichloropropane	11.04	63	2743	0.47	ug/L		83
65) methylcyclohexane	11.05	83	4474	0.50	ug/L		87
66) dibromomethane	11.15	93	1614	0.50	ug/L		92
67) bromodichloromethane	11.30	83	3316	0.46	ug/L		85
68) epichlorohydrin	11.63	57	1409	2.12	ug/L	#	55
69) cis-1,3-dichloropropene	11.75	75	4149	0.48	ug/L		88
70) 4-methyl-2-pentanone	11.86	58	4811	1.88	ug/L		94
74) toluene	12.13	92	5880	0.49	ug/L		93
75) trans-1,3-dichloropropene	12.33	75	3637	0.46	ug/L		94
76) ethyl methacrylate	12.33	69	2844	0.41	ug/L		98
77) 1,1,2-trichloroethane	12.55	83	1884	0.47	ug/L		92
78) 2-hexanone	12.72	58	4815	1.72	ug/L	#	84
79) tetrachloroethene	12.69	166	3006	0.50	ug/L		87
80) 1,3-dichloropropane	12.72	76	3184	0.43	ug/L		85
81) butyl acetate	12.80	56	2216	0.49	ug/L	#	73
82) dibromochloromethane	12.96	129	2591	0.45	ug/L		96
83) 1,2-dibromoethane	13.11	107	2492	0.50	ug/L		83
84) n-butyl ether	13.56	57	12361	0.49	ug/L	#	1
85) chlorobenzene	13.60	112	6422	0.47	ug/L		90
86) 1,1,1,2-tetrachloroethane	13.66	131	2322	0.44	ug/L		85
87) ethylbenzene	13.66	91	11248	0.52	ug/L		94
88) m,p-xylene	13.78	106	8410	0.97	ug/L		94
89) o-xylene	14.18	91	8631	0.50	ug/L		95
90) styrene	14.19	104	6280	0.44	ug/L		96
92) bromoform	14.42	173	1688	0.41	ug/L		70
94) isopropylbenzene	14.53	105	10904	0.51	ug/L		91
98) bromobenzene	14.91	156	2966	0.48	ug/L		94
99) 1,1,2,2-tetrachloroethane	14.81	83	3074	0.53	ug/L		98
101) 1,2,3-trichloropropane	14.88	110	678	0.44	ug/L		84
102) n-propylbenzene	14.94	91	12412	0.50	ug/L		92
103) 2-chlorotoluene	15.07	126	2680	0.48	ug/L	#	85
104) 4-chlorotoluene	15.18	91	7949	0.52	ug/L		95
105) 1,3,5-trimethylbenzene	15.10	105	8834	0.52	ug/L		96
106) tert-butylbenzene	15.43	119	7529	0.49	ug/L		90
107) 1,2,4-trimethylbenzene	15.49	105	8578	0.49	ug/L		96
108) sec-butylbenzene	15.65	105	11355	0.52	ug/L		96
109) 1,3-dichlorobenzene	15.82	146	5440	0.49	ug/L		93
110) p-isopropyltoluene	15.79	119	9169	0.47	ug/L		96
112) 1,2,3-trimethylbenzene	15.91	105	9075	0.52	ug/L		92
113) 1,4-dichlorobenzene	15.91	146	5653	0.51	ug/L		91
114) 1,2-dichlorobenzene	16.28	146	5375	0.50	ug/L		94
115) n-butylbenzene	16.20	92	4451	0.46	ug/L	#	76
117) 1,3,5-trichlorobenzene	17.24	180	3817	0.45	ug/L		93

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9596\
Data File : 2A220737.D
Acq On : 13 Oct 2022 6:37 pm
Operator : PrashanS
Sample : IC9596-0.5
Misc : MS62754,V2A9596,5,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 14 18:44:36 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 08:54:13 2022
QLast Update : Fri Oct 14 08:54:13 2022
Response via : Initial Calibration

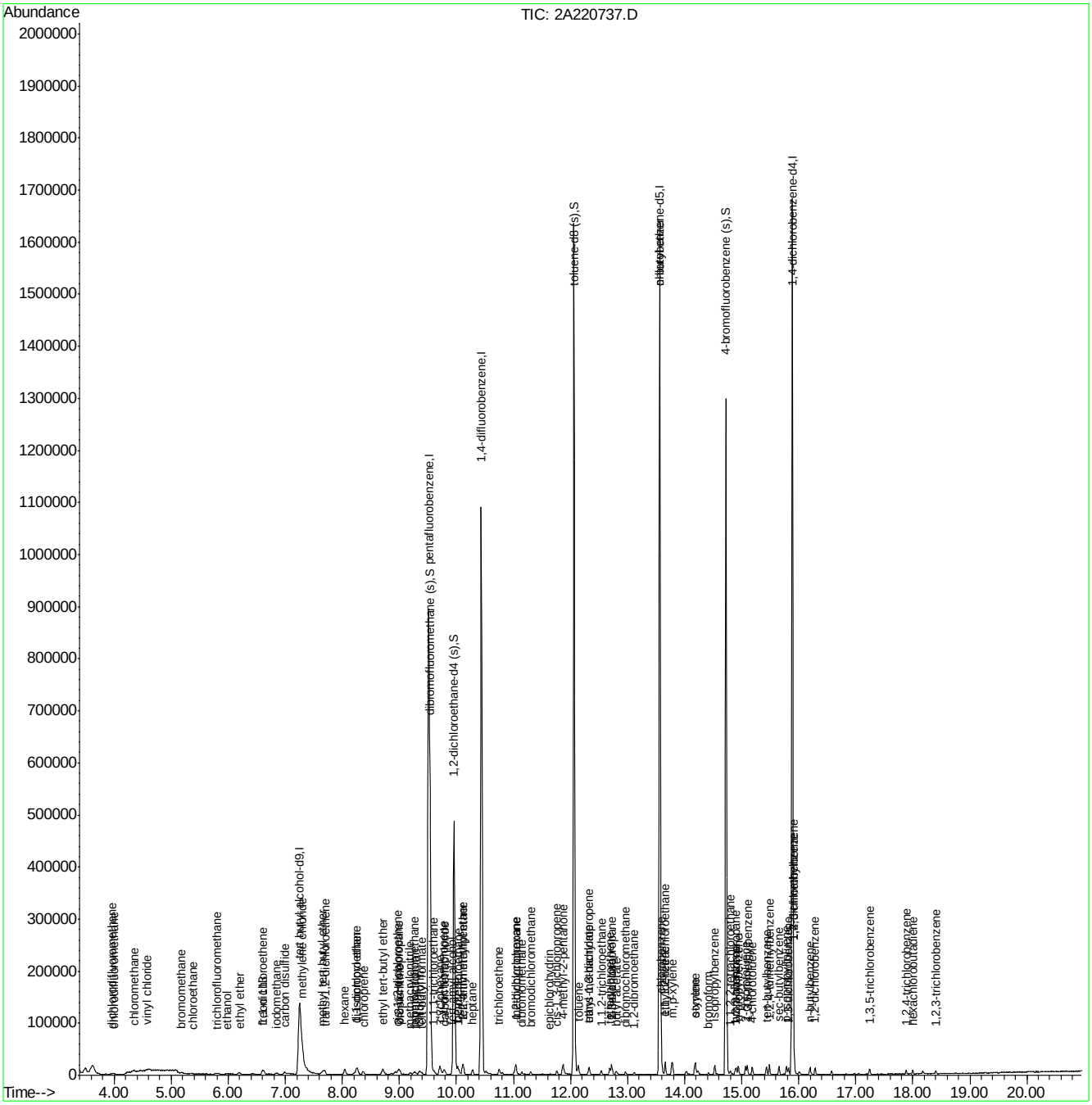
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
118) 1,2,4-trichlorobenzene	17.89	180	2920	0.40	ug/L	90
119) hexachlorobutadiene	18.00	225	1651	0.46	ug/L	87
121) 1,2,3-trichlorobenzene	18.40	180	2409	0.41	ug/L	85

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9596\
Data File : 2A220737.D
Acq On : 13 Oct 2022 6:37 pm
Operator : PrashanS
Sample : IC9596-0.5
Misc : MS62754,V2A9596,5,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 14 18:44:36 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 08:54:13 2022
QLast Update : Fri Oct 14 08:54:13 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9596\
Data File : 2A220738.D
Acq On : 13 Oct 2022 7:06 pm
Operator : PrashanS
Sample : IC9596-1
Misc : MS62754,V2A9596,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 14 18:45:22 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 09:01:31 2022
QLast Update : Fri Oct 14 09:05:34 2022
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) tert butyl alcohol-d9	7.25	65	350767	500.00	ug/L		0.00
5) pentafluorobenzene	9.51	168	642531	50.00	ug/L		0.00
50) 1,4-difluorobenzene	10.43	114	880843	50.00	ug/L		0.00
72) chlorobenzene-d5	13.56	117	775180	50.00	ug/L		0.00
96) 1,4-dichlorobenzene-d4	15.89	152	394172	50.00	ug/L		0.00
System Monitoring Compounds							
43) dibromofluoromethane (s)	9.54	113	285034	50.31	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.62%				
51) 1,2-dichloroethane-d4 (s)	9.95	65	351586	50.73	ug/L		0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 101.46%				
73) toluene-d8 (s)	12.06	98	977538	49.57	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.14%				
97) 4-bromofluorobenzene (s)	14.72	95	375150	50.34	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.68%				
Target Compounds							Qvalue
2) ethanol	5.98	45	6750	95.54	ug/L		69
3) tertiary butyl alcohol	7.37	59	4235	4.72	ug/L		68
6) chlorodifluoromethane	3.99	51	9192	1.03	ug/L		98
7) dichlorodifluoromethane	3.97	85	6610	0.98	ug/L		89
8) chloromethane	4.35	50	10613	1.05	ug/L		96
9) vinyl chloride	4.57	62	7736	1.00	ug/L		84
11) bromomethane	5.20	94	4734	1.00	ug/L		79
12) chloroethane	5.36	64	4202	1.02	ug/L		94
13) trichlorofluoromethane	5.80	101	7577	0.91	ug/L		92
14) ethyl ether	6.19	74	2757	0.95	ug/L	#	66
16) freon 113	6.61	151	4511	1.00	ug/L	#	85
17) 1,1-dichloroethene	6.61	96	5079	1.07	ug/L		94
18) acetone	6.62	43	15722	4.24	ug/L		88
19) acetonitrile	7.03	41	9454	10.93	ug/L		80
20) iodomethane	6.84	142	9276	1.03	ug/L		94
21) carbon disulfide	6.98	76	17763	1.06	ug/L		92
22) methylene chloride	7.30	84	5278	1.00	ug/L		89
23) methyl acetate	7.07	43	6086	1.07	ug/L		68
24) methyl tert butyl ether	7.67	73	14951	1.00	ug/L		93
25) trans-1,2-dichloroethene	7.69	96	5747	1.08	ug/L		96
26) hexane	8.04	57	11574	1.06	ug/L		95
27) di-isopropyl ether	8.25	45	23915	1.04	ug/L		95
28) ethyl tert-butyl ether	8.71	59	19782	1.00	ug/L		99
29) 2-butanone	8.91	72	2811	3.96	ug/L	#	45
30) 1,1-dichloroethane	8.26	63	10864	1.06	ug/L		95
31) chloroprene	8.36	53	9832	1.01	ug/L		91
32) acrylonitrile	7.60	53	2019	0.82	ug/L	#	80
33) vinyl acetate	8.21	86	593	0.76	ug/L	#	1
34) ethyl acetate	8.93	45	1083	0.98	ug/L	#	55
35) 2,2-dichloropropane	8.99	77	8315	1.07	ug/L		88
36) cis-1,2-dichloroethene	8.97	96	6125	1.07	ug/L		85
37) propionitrile	8.99	54	8607	9.35	ug/L		96
38) bromochloromethane	9.26	130	3585	0.98	ug/L		82

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9596\
Data File : 2A220738.D
Acq On : 13 Oct 2022 7:06 pm
Operator : PrashanS
Sample : IC9596-1
Misc : MS62754,V2A9596,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 14 18:45:22 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 09:01:31 2022
QLast Update : Fri Oct 14 09:05:34 2022
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
39) tetrahydrofuran	9.29	42	2239	1.03 ug/L		92
40) chloroform	9.35	83	10647	1.09 ug/L		97
41) tert-butyl formate	9.39	59	3901	1.00 ug/L		91
44) methacrylonitrile	9.19	67	2208	0.97 ug/L		84
45) 1,1,1-trichloroethane	9.60	97	8667	1.04 ug/L		95
46) cyclohexane	9.72	84	7865	0.98 ug/L	#	67
47) 1,1-dichloropropene	9.78	75	7162	1.01 ug/L		93
48) tert-amyl alcohol	9.92	73	2005	5.50 ug/L	#	41
49) carbon tetrachloride	9.80	117	7187	0.99 ug/L		99
52) 2,2,4-trimethylpentane	10.11	57	25009	1.02 ug/L		97
53) tert-amyl methyl ether	10.10	73	16421	1.01 ug/L		95
54) n-butyl alcohol	10.51	56	10020	50.36 ug/L		93
55) benzene	10.02	78	20455	1.02 ug/L		95
56) heptane	10.28	57	4548	0.96 ug/L		92
57) isopropyl acetate	9.95	87	899	0.77 ug/L	#	19
58) 1,2-dichloroethane	10.04	62	9259	1.09 ug/L		94
59) trichloroethene	10.74	95	5444	0.98 ug/L		75
60) ethyl acrylate	10.74	55	9185	1.03 ug/L		98
61) 2-nitropropane	11.50	41	1461	0.97 ug/L	#	75
63) methyl methacrylate	11.01	100	1221	0.85 ug/L	#	70
64) 1,2-dichloropropane	11.04	63	5874	0.99 ug/L		99
65) methylcyclohexane	11.04	83	9293	1.00 ug/L		93
66) dibromomethane	11.15	93	3240	1.01 ug/L		92
67) bromodichloromethane	11.29	83	7250	1.00 ug/L		97
68) epichlorohydrin	11.63	57	3449	5.21 ug/L		93
69) cis-1,3-dichloropropene	11.76	75	8507	0.98 ug/L		93
70) 4-methyl-2-pentanone	11.86	58	9422	3.74 ug/L		93
71) 3-methyl-1-butanol	11.89	70	2469	16.64 ug/L	#	61
74) toluene	12.14	92	12543	1.02 ug/L		98
75) trans-1,3-dichloropropene	12.33	75	7796	1.01 ug/L		94
76) ethyl methacrylate	12.33	69	6223	0.93 ug/L		89
77) 1,1,2-trichloroethane	12.54	83	4039	1.02 ug/L		91
78) 2-hexanone	12.71	58	10743	4.01 ug/L		98
79) tetrachloroethene	12.69	166	6643	1.03 ug/L		92
80) 1,3-dichloropropane	12.72	76	7397	0.99 ug/L		95
81) butyl acetate	12.80	56	4525	1.02 ug/L	#	80
82) dibromochloromethane	12.96	129	5079	0.89 ug/L		91
83) 1,2-dibromoethane	13.11	107	5174	1.04 ug/L		96
84) n-butyl ether	13.56	57	24763	0.97 ug/L	#	41
85) chlorobenzene	13.59	112	13630	1.00 ug/L		96
86) 1,1,1,2-tetrachloroethane	13.66	131	5178	0.99 ug/L		94
87) ethylbenzene	13.66	91	22935	1.02 ug/L		91
88) m,p-xylene	13.78	106	16982	1.94 ug/L		96
89) o-xylene	14.18	91	18224	1.03 ug/L		94
90) styrene	14.19	104	13428	0.98 ug/L		96
91) n-amyl acetate	14.23	70	2794	0.81 ug/L		92
92) bromoform	14.41	173	3461	0.89 ug/L		91
93) butyl acrylate	14.02	55	10472	0.85 ug/L		98
94) isopropylbenzene	14.52	105	22370	1.02 ug/L		98
98) bromobenzene	14.90	156	6265	0.98 ug/L		95

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9596\
Data File : 2A220738.D
Acq On : 13 Oct 2022 7:06 pm
Operator : PrashanS
Sample : IC9596-1
Misc : MS62754,V2A9596,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 14 18:45:22 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 09:01:31 2022
QLast Update : Fri Oct 14 09:05:34 2022
Response via : Initial Calibration

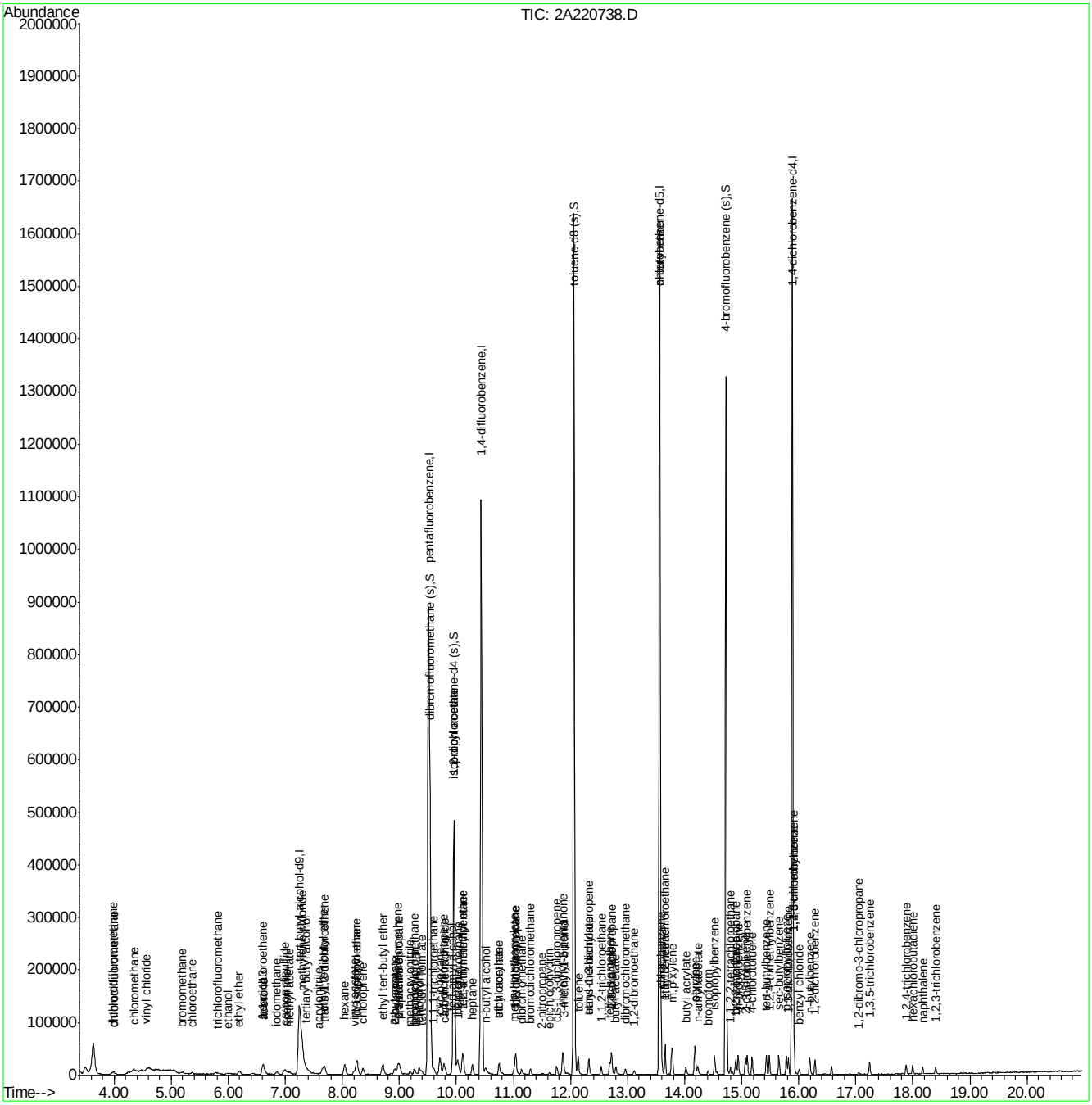
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
99) 1,1,2,2-tetrachloroethane	14.80	83	5896	0.99	ug/L	91
101) 1,2,3-trichloropropane	14.89	110	1506	0.98	ug/L	91
102) n-propylbenzene	14.94	91	26686	1.05	ug/L	94
103) 2-chlorotoluene	15.07	126	5662	1.00	ug/L	99
104) 4-chlorotoluene	15.18	91	16472	1.04	ug/L	91
105) 1,3,5-trimethylbenzene	15.09	105	17868	1.02	ug/L	92
106) tert-butylbenzene	15.43	119	16084	1.03	ug/L	100
107) 1,2,4-trimethylbenzene	15.49	105	17642	1.00	ug/L	96
108) sec-butylbenzene	15.65	105	23049	1.02	ug/L	93
109) 1,3-dichlorobenzene	15.82	146	11885	1.04	ug/L	95
110) p-isopropyltoluene	15.79	119	19482	1.01	ug/L	95
111) benzyl chloride	16.01	91	7317	0.82	ug/L	92
112) 1,2,3-trimethylbenzene	15.91	105	18241	1.02	ug/L	98
113) 1,4-dichlorobenzene	15.91	146	11635	1.01	ug/L	90
114) 1,2-dichlorobenzene	16.28	146	10566	0.96	ug/L	95
115) n-butylbenzene	16.20	92	8920	0.94	ug/L	92
116) 1,2-dibromo-3-chloropropan	17.05	157	1056	0.86	ug/L	97
117) 1,3,5-trichlorobenzene	17.24	180	8175	0.98	ug/L	98
118) 1,2,4-trichlorobenzene	17.88	180	6484	0.96	ug/L	89
119) hexachlorobutadiene	18.00	225	3369	0.94	ug/L	83
120) naphthalene	18.18	128	10322	0.86	ug/L	97
121) 1,2,3-trichlorobenzene	18.40	180	4793	0.88	ug/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9596\
Data File : 2A220738.D
Acq On : 13 Oct 2022 7:06 pm
Operator : PrashanS
Sample : IC9596-1
Misc : MS62754,V2A9596,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 14 18:45:22 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 09:01:31 2022
QLast Update : Fri Oct 14 09:05:34 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9596\
Data File : 2A220739.D
Acq On : 13 Oct 2022 7:34 pm
Operator : PrashanS
Sample : IC9596-2
Misc : MS62754,V2A9596,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 14 18:45:50 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 08:54:13 2022
QLast Update : Fri Oct 14 08:54:13 2022
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) tert butyl alcohol-d9	7.25	65	359118	500.00	ug/L	0.00
5) pentafluorobenzene	9.51	168	640339	50.00	ug/L	0.00
50) 1,4-difluorobenzene	10.43	114	880120	50.00	ug/L	0.00
72) chlorobenzene-d5	13.56	117	772316	50.00	ug/L	0.00
96) 1,4-dichlorobenzene-d4	15.89	152	397328	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	9.54	113	282777	50.10	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.20%			
51) 1,2-dichloroethane-d4 (s)	9.95	65	351128	51.65	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 103.30%			
73) toluene-d8 (s)	12.06	98	982565	49.93	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.86%			
97) 4-bromofluorobenzene (s)	14.72	95	373196	50.00	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.00%			
Target Compounds						Qvalue
2) ethanol	5.98	45	14963	212.46	ug/L	91
3) tertiary butyl alcohol	7.37	59	10265	11.45	ug/L	81
4) 1,4-dioxane	11.08	88	2096	37.24	ug/L #	77
6) chlorodifluoromethane	3.98	51	19564	2.24	ug/L	94
7) dichlorodifluoromethane	3.96	85	14532	2.15	ug/L	88
8) chloromethane	4.34	50	21663	2.27	ug/L	98
9) vinyl chloride	4.57	62	16451	2.14	ug/L	98
10) 1,3-butadiene	4.62	54	12666	2.26	ug/L	95
11) bromomethane	5.20	94	9841	2.20	ug/L	95
12) chloroethane	5.36	64	9243	2.24	ug/L	90
13) trichlorofluoromethane	5.78	101	17540	2.07	ug/L	97
14) ethyl ether	6.20	74	6280	2.20	ug/L	83
15) acrolein	6.43	56	3110	2.63	ug/L	73
16) freon 113	6.61	151	9766	2.19	ug/L	95
17) 1,1-dichloroethene	6.61	96	10177	2.29	ug/L	98
18) acetone	6.61	43	33325	10.39	ug/L	95
19) acetonitrile	7.03	41	18037	22.08	ug/L	87
20) iodomethane	6.84	142	19663	2.19	ug/L	99
21) carbon disulfide	6.98	76	34632	2.26	ug/L	93
22) methylene chloride	7.30	84	11558	2.28	ug/L	96
23) methyl acetate	7.07	43	13204	2.49	ug/L	96
24) methyl tert butyl ether	7.66	73	32672	2.31	ug/L	95
25) trans-1,2-dichloroethene	7.68	96	12002	2.41	ug/L	94
26) hexane	8.04	57	22743	2.23	ug/L	94
27) di-isopropyl ether	8.25	45	50750	2.35	ug/L	96
28) ethyl tert-butyl ether	8.70	59	43528	2.28	ug/L	95
29) 2-butanone	8.91	72	6150	8.34	ug/L #	89
30) 1,1-dichloroethane	8.26	63	22136	2.21	ug/L	96
31) chloroprene	8.36	53	20357	2.11	ug/L	96
32) acrylonitrile	7.60	53	4635	1.84	ug/L	94
33) vinyl acetate	8.20	86	1487	1.88	ug/L #	54
34) ethyl acetate	8.92	45	2390	2.25	ug/L	83
35) 2,2-dichloropropane	8.99	77	16857	2.33	ug/L	93

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9596\
Data File : 2A220739.D
Acq On : 13 Oct 2022 7:34 pm
Operator : PrashanS
Sample : IC9596-2
Misc : MS62754,V2A9596,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 14 18:45:50 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 08:54:13 2022
QLast Update : Fri Oct 14 08:54:13 2022
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) cis-1,2-dichloroethene	8.97	96	12062	2.20	ug/L		94
37) propionitrile	8.98	54	21084	22.98	ug/L		84
38) bromochloromethane	9.26	130	7979	2.18	ug/L		96
39) tetrahydrofuran	9.29	42	4986	2.39	ug/L		90
40) chloroform	9.34	83	21163	2.32	ug/L		95
41) tert-butyl formate	9.38	59	8789	2.35	ug/L		94
42) isobutyl alcohol	9.76	43	6474	17.85	ug/L	#	76
44) methacrylonitrile	9.19	67	4978	2.18	ug/L		86
45) 1,1,1-trichloroethane	9.60	97	17852	2.19	ug/L		95
46) cyclohexane	9.72	84	17116	2.21	ug/L		95
47) 1,1-dichloropropene	9.77	75	15385	2.19	ug/L		90
48) tert-amyl alcohol	9.91	73	3704	10.71	ug/L	#	76
49) carbon tetrachloride	9.80	117	15694	2.15	ug/L		98
52) 2,2,4-trimethylpentane	10.11	57	53214	2.24	ug/L		98
53) tert-amyl methyl ether	10.11	73	35680	2.32	ug/L		99
54) n-butyl alcohol	10.51	56	22390	103.72	ug/L		97
55) benzene	10.02	78	42884	2.20	ug/L		98
56) heptane	10.28	57	10192	2.25	ug/L		94
57) isopropyl acetate	9.94	87	2395	2.05	ug/L	#	81
58) 1,2-dichloroethane	10.05	62	18629	2.35	ug/L		97
59) trichloroethene	10.74	95	11847	2.12	ug/L		96
60) ethyl acrylate	10.74	55	19705	2.23	ug/L		95
61) 2-nitropropane	11.50	41	2841	1.77	ug/L		83
62) 2-chloroethyl vinyl ether	11.54	63	2420	1.52	ug/L		86
63) methyl methacrylate	11.01	100	2830	1.95	ug/L	#	61
64) 1,2-dichloropropane	11.04	63	13031	2.23	ug/L		90
65) methylcyclohexane	11.04	83	19521	2.18	ug/L		96
66) dibromomethane	11.14	93	7135	2.19	ug/L		91
67) bromodichloromethane	11.29	83	15814	2.21	ug/L		95
68) epichlorohydrin	11.62	57	7149	10.74	ug/L		95
69) cis-1,3-dichloropropene	11.75	75	18471	2.14	ug/L		96
70) 4-methyl-2-pentanone	11.86	58	22907	8.92	ug/L		99
71) 3-methyl-1-butanol	11.87	70	6117	38.13	ug/L	#	86
74) toluene	12.13	92	25673	2.12	ug/L		93
75) trans-1,3-dichloropropene	12.32	75	16286	2.07	ug/L		96
76) ethyl methacrylate	12.32	69	15004	2.15	ug/L		91
77) 1,1,2-trichloroethane	12.54	83	8796	2.19	ug/L		96
78) 2-hexanone	12.71	58	24395	8.73	ug/L		96
79) tetrachloroethene	12.69	166	14258	2.36	ug/L		97
80) 1,3-dichloropropane	12.72	76	16588	2.22	ug/L		97
81) butyl acetate	12.79	56	9310	2.08	ug/L	#	84
82) dibromochloromethane	12.96	129	11643	2.00	ug/L		96
83) 1,2-dibromoethane	13.11	107	10537	2.10	ug/L		96
84) n-butyl ether	13.56	57	55171	2.19	ug/L		73
85) chlorobenzene	13.60	112	28957	2.13	ug/L		96
86) 1,1,1,2-tetrachloroethane	13.66	131	11252	2.14	ug/L		94
87) ethylbenzene	13.66	91	48706	2.24	ug/L		95
88) m,p-xylene	13.78	106	37198	4.29	ug/L		94
89) o-xylene	14.18	91	38582	2.22	ug/L		100
90) styrene	14.19	104	28864	2.02	ug/L		95

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9596\
Data File : 2A220739.D
Acq On : 13 Oct 2022 7:34 pm
Operator : PrashanS
Sample : IC9596-2
Misc : MS62754,V2A9596,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 14 18:45:50 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 08:54:13 2022
QLast Update : Fri Oct 14 08:54:13 2022
Response via : Initial Calibration

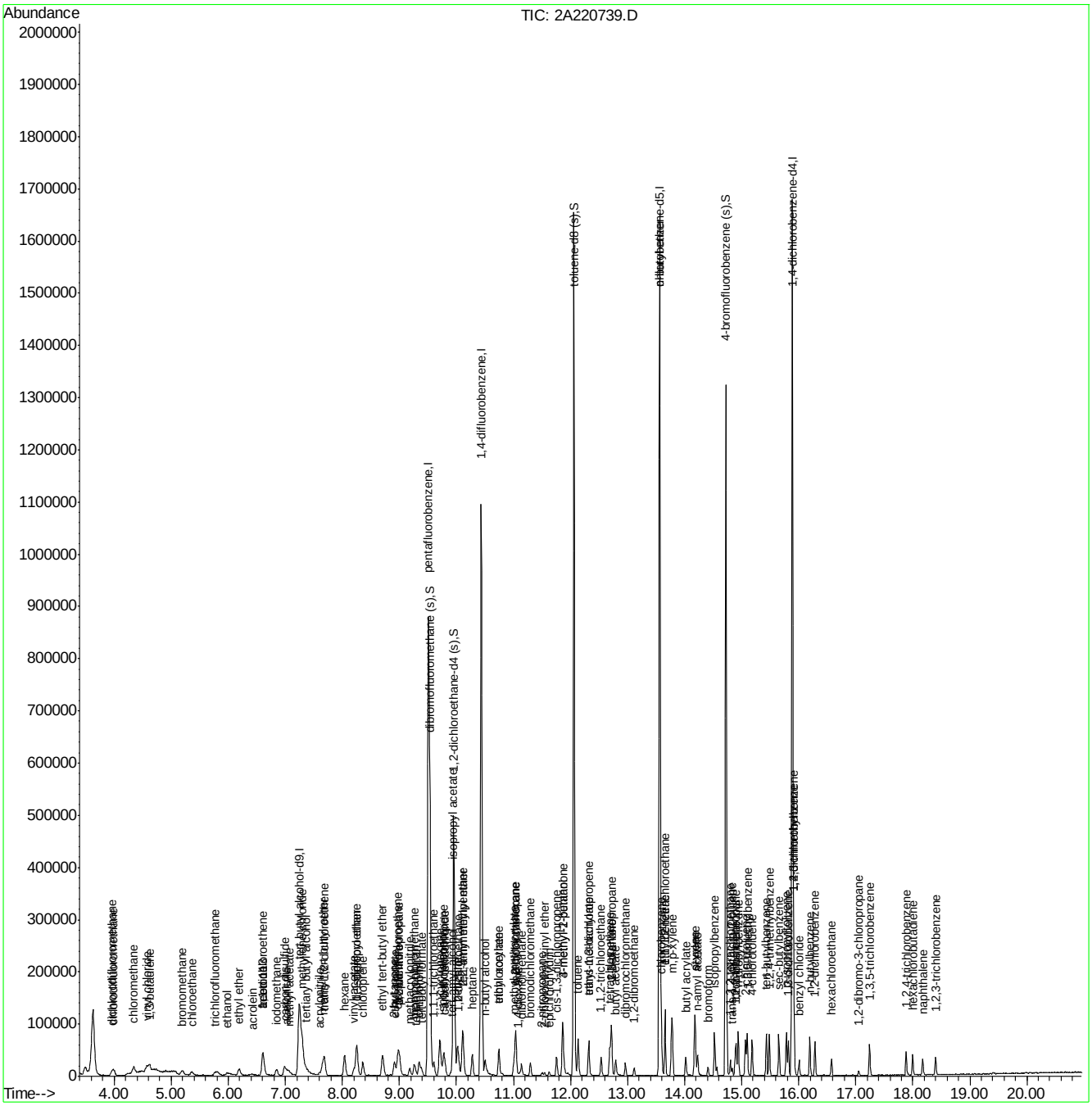
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
91) n-amyl acetate	14.23	70	6710	1.85 ug/L	92
92) bromoform	14.41	173	7738	1.86 ug/L	94
93) butyl acrylate	14.02	55	25656	1.91 ug/L	98
94) isopropylbenzene	14.52	105	47402	2.23 ug/L	99
98) bromobenzene	14.90	156	13975	2.23 ug/L	96
99) 1,1,2,2-tetrachloroethane	14.80	83	13119	2.22 ug/L	99
100) trans-1,4-dichloro-2-buten	14.84	53	2823	1.50 ug/L	86
101) 1,2,3-trichloropropane	14.88	110	3313	2.14 ug/L	94
102) n-propylbenzene	14.94	91	56458	2.27 ug/L	98
103) 2-chlorotoluene	15.07	126	12014	2.13 ug/L	93
104) 4-chlorotoluene	15.18	91	34603	2.24 ug/L	99
105) 1,3,5-trimethylbenzene	15.10	105	37364	2.16 ug/L	99
106) tert-butylbenzene	15.44	119	34178	2.20 ug/L	95
107) 1,2,4-trimethylbenzene	15.49	105	38603	2.20 ug/L	99
108) sec-butylbenzene	15.66	105	47900	2.15 ug/L	98
109) 1,3-dichlorobenzene	15.82	146	24803	2.23 ug/L	96
110) p-isopropyltoluene	15.79	119	42458	2.16 ug/L	96
111) benzyl chloride	16.01	91	17703	1.72 ug/L	94
112) 1,2,3-trimethylbenzene	15.91	105	39261	2.23 ug/L	95
113) 1,4-dichlorobenzene	15.91	146	25130	2.24 ug/L	96
114) 1,2-dichlorobenzene	16.28	146	23992	2.21 ug/L	96
115) n-butylbenzene	16.20	92	19382	2.00 ug/L	93
116) 1,2-dibromo-3-chloropropan	17.05	157	2400	1.85 ug/L	89
117) 1,3,5-trichlorobenzene	17.24	180	18024	2.10 ug/L	94
118) 1,2,4-trichlorobenzene	17.88	180	13758	1.87 ug/L	87
119) hexachlorobutadiene	18.00	225	7305	2.00 ug/L	96
120) naphthalene	18.17	128	24216	1.77 ug/L	94
121) 1,2,3-trichlorobenzene	18.40	180	10704	1.80 ug/L	98
122) hexachloroethane	16.57	201	4066	1.32 ug/L	90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9596\
Data File : 2A220739.D
Acq On : 13 Oct 2022 7:34 pm
Operator : PrashanS
Sample : IC9596-2
Misc : MS62754,V2A9596,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 14 18:45:50 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 08:54:13 2022
QLast Update : Fri Oct 14 08:54:13 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9596\
Data File : 2A220740.D
Acq On : 13 Oct 2022 8:03 pm
Operator : PrashanS
Sample : IC9596-4
Misc : MS62754,V2A9596,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 14 18:46:04 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 08:54:13 2022
QLast Update : Fri Oct 14 08:54:13 2022
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) tert butyl alcohol-d9	7.25	65	344694	500.00	ug/L	0.00
5) pentafluorobenzene	9.51	168	644206	50.00	ug/L	0.00
50) 1,4-difluorobenzene	10.43	114	875319	50.00	ug/L	0.00
72) chlorobenzene-d5	13.56	117	777140	50.00	ug/L	0.00
96) 1,4-dichlorobenzene-d4	15.89	152	394940	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	9.54	113	283673	49.96	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.92%			
51) 1,2-dichloroethane-d4 (s)	9.96	65	348345	51.52	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 103.04%			
73) toluene-d8 (s)	12.06	98	978492	49.41	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 98.82%			
97) 4-bromofluorobenzene (s)	14.72	95	373931	50.40	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.80%			
Target Compounds						Qvalue
2) ethanol	5.99	45	28045	414.87	ug/L	92
3) tertiary butyl alcohol	7.37	59	18253	21.21	ug/L	90
4) 1,4-dioxane	11.08	88	4896	90.64	ug/L	92
6) chlorodifluoromethane	4.00	51	37269	4.25	ug/L	98
7) dichlorodifluoromethane	3.97	85	27159	4.00	ug/L	99
8) chloromethane	4.36	50	40045	4.18	ug/L	93
9) vinyl chloride	4.58	62	32278	4.17	ug/L	98
10) 1,3-butadiene	4.63	54	25652	4.56	ug/L	89
11) bromomethane	5.20	94	19520	4.34	ug/L	81
12) chloroethane	5.36	64	17273	4.16	ug/L	97
13) trichlorofluoromethane	5.79	101	33802	3.96	ug/L	88
14) ethyl ether	6.20	74	12275	4.28	ug/L	89
15) acrolein	6.43	56	5176	4.35	ug/L	74
16) freon 113	6.62	151	18285	4.07	ug/L	86
17) 1,1-dichloroethene	6.61	96	19893	4.44	ug/L	99
18) acetone	6.61	43	59335	18.38	ug/L	95
19) acetonitrile	7.02	41	37473	45.59	ug/L	91
20) iodomethane	6.85	142	37978	4.20	ug/L	98
21) carbon disulfide	6.99	76	68183	4.43	ug/L	95
22) methylene chloride	7.30	84	21968	4.32	ug/L	97
23) methyl acetate	7.07	43	24441	4.57	ug/L	95
24) methyl tert butyl ether	7.66	73	61429	4.32	ug/L	99
25) trans-1,2-dichloroethene	7.69	96	21153	4.22	ug/L	98
26) hexane	8.04	57	41808	4.07	ug/L	96
27) di-isopropyl ether	8.25	45	95561	4.40	ug/L	96
28) ethyl tert-butyl ether	8.71	59	82522	4.29	ug/L	96
29) 2-butanone	8.90	72	12300	16.57	ug/L #	83
30) 1,1-dichloroethane	8.26	63	43241	4.29	ug/L	97
31) chloroprene	8.36	53	39948	4.12	ug/L	97
32) acrylonitrile	7.59	53	10592	4.17	ug/L	95
33) vinyl acetate	8.20	86	3616	4.55	ug/L #	59
34) ethyl acetate	8.92	45	4778	4.46	ug/L	83
35) 2,2-dichloropropane	9.00	77	31922	4.39	ug/L	92

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9596\
Data File : 2A220740.D
Acq On : 13 Oct 2022 8:03 pm
Operator : PrashanS
Sample : IC9596-4
Misc : MS62754,V2A9596,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 14 18:46:04 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 08:54:13 2022
QLast Update : Fri Oct 14 08:54:13 2022
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) cis-1,2-dichloroethene	8.97	96	23758	4.30	ug/L		96
37) propionitrile	8.98	54	39668	42.97	ug/L		80
38) bromochloromethane	9.26	130	15329	4.16	ug/L		94
39) tetrahydrofuran	9.29	42	9627	4.58	ug/L		94
40) chloroform	9.35	83	39185	4.26	ug/L		97
41) tert-butyl formate	9.39	59	16024	4.26	ug/L		96
42) isobutyl alcohol	9.75	43	13394	36.71	ug/L		96
44) methacrylonitrile	9.18	67	9274	4.04	ug/L		98
45) 1,1,1-trichloroethane	9.61	97	33721	4.11	ug/L		98
46) cyclohexane	9.72	84	31916	4.09	ug/L		88
47) 1,1-dichloropropene	9.77	75	28759	4.07	ug/L		95
48) tert-amyl alcohol	9.91	73	7237	20.80	ug/L		97
49) carbon tetrachloride	9.80	117	29802	4.06	ug/L		96
52) 2,2,4-trimethylpentane	10.12	57	98722	4.18	ug/L		96
53) tert-amyl methyl ether	10.10	73	67164	4.39	ug/L		96
54) n-butyl alcohol	10.51	56	39776	185.27	ug/L		98
55) benzene	10.02	78	83104	4.28	ug/L		99
56) heptane	10.28	57	19114	4.23	ug/L		96
57) isopropyl acetate	9.95	87	4948	4.26	ug/L	#	64
58) 1,2-dichloroethane	10.05	62	34925	4.42	ug/L		95
59) trichloroethene	10.75	95	23254	4.18	ug/L		96
60) ethyl acrylate	10.74	55	36652	4.17	ug/L		95
61) 2-nitropropane	11.50	41	6009	3.77	ug/L	#	79
62) 2-chloroethyl vinyl ether	11.54	63	7146	4.50	ug/L		87
63) methyl methacrylate	11.00	100	5996	4.16	ug/L	#	88
64) 1,2-dichloropropane	11.03	63	24786	4.27	ug/L		99
65) methylcyclohexane	11.05	83	36023	4.04	ug/L		94
66) dibromomethane	11.14	93	13652	4.22	ug/L		99
67) bromodichloromethane	11.29	83	29937	4.20	ug/L		97
68) epichlorohydrin	11.62	57	13779	20.82	ug/L		99
69) cis-1,3-dichloropropene	11.75	75	36020	4.19	ug/L		95
70) 4-methyl-2-pentanone	11.86	58	43417	17.00	ug/L		93
71) 3-methyl-1-butanol	11.88	70	12098	75.83	ug/L		98
74) toluene	12.13	92	50695	4.17	ug/L		99
75) trans-1,3-dichloropropene	12.32	75	31017	3.92	ug/L		96
76) ethyl methacrylate	12.32	69	28473	4.05	ug/L		99
77) 1,1,2-trichloroethane	12.54	83	16427	4.06	ug/L		94
78) 2-hexanone	12.71	58	45944	16.33	ug/L	#	87
79) tetrachloroethene	12.69	166	26023	4.28	ug/L		96
80) 1,3-dichloropropane	12.72	76	31000	4.12	ug/L		95
81) butyl acetate	12.79	56	17801	3.95	ug/L		98
82) dibromochloromethane	12.96	129	22526	3.85	ug/L		95
83) 1,2-dibromoethane	13.11	107	21151	4.19	ug/L		94
84) n-butyl ether	13.56	57	107193	4.23	ug/L		89
85) chlorobenzene	13.59	112	57178	4.19	ug/L		86
86) 1,1,1,2-tetrachloroethane	13.66	131	21091	3.98	ug/L		94
87) ethylbenzene	13.66	91	93417	4.27	ug/L		97
88) m,p-xylene	13.78	106	71388	8.18	ug/L		85
89) o-xylene	14.18	91	74265	4.25	ug/L		97
90) styrene	14.19	104	59085	4.12	ug/L		96

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9596\
Data File : 2A220740.D
Acq On : 13 Oct 2022 8:03 pm
Operator : PrashanS
Sample : IC9596-4
Misc : MS62754,V2A9596,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 14 18:46:04 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 08:54:13 2022
QLast Update : Fri Oct 14 08:54:13 2022
Response via : Initial Calibration

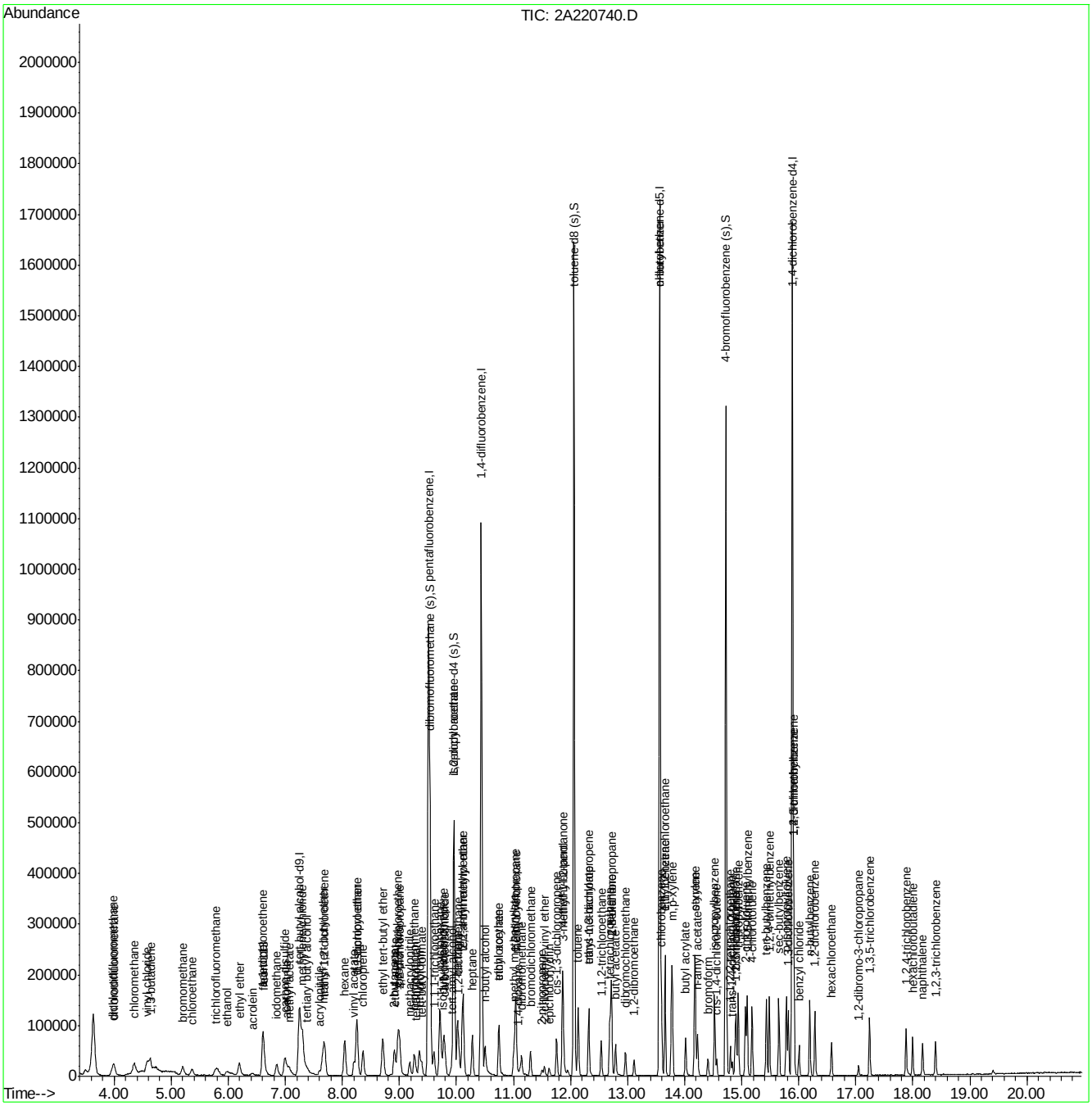
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) n-amyl acetate	14.22	70	13702	3.76	ug/L	88
92) bromoform	14.41	173	15268	3.66	ug/L	94
93) butyl acrylate	14.01	55	51307	3.80	ug/L	96
94) isopropylbenzene	14.52	105	90703	4.24	ug/L	97
95) cis-1,4-dichloro-2-butene	14.56	88	6235	2.95	ug/L	92
98) bromobenzene	14.91	156	26487	4.26	ug/L	92
99) 1,1,2,2-tetrachloroethane	14.80	83	24154	4.11	ug/L	97
100) trans-1,4-dichloro-2-buten	14.84	53	5780	3.09	ug/L	90
101) 1,2,3-trichloropropane	14.88	110	6601	4.30	ug/L	95
102) n-propylbenzene	14.94	91	108048	4.37	ug/L	93
103) 2-chlorotoluene	15.07	126	23486	4.18	ug/L	98
104) 4-chlorotoluene	15.18	91	68211	4.44	ug/L	91
105) 1,3,5-trimethylbenzene	15.10	105	73026	4.24	ug/L	96
106) tert-butylbenzene	15.44	119	64513	4.17	ug/L	98
107) 1,2,4-trimethylbenzene	15.48	105	74036	4.25	ug/L	95
108) sec-butylbenzene	15.65	105	95274	4.31	ug/L	95
109) 1,3-dichlorobenzene	15.82	146	47407	4.29	ug/L	97
110) p-isopropyltoluene	15.79	119	80437	4.12	ug/L	98
111) benzyl chloride	16.01	91	35538	3.47	ug/L	91
112) 1,2,3-trimethylbenzene	15.91	105	74697	4.28	ug/L	94
113) 1,4-dichlorobenzene	15.91	146	47592	4.27	ug/L	94
114) 1,2-dichlorobenzene	16.28	146	45879	4.25	ug/L	99
115) n-butylbenzene	16.20	92	38112	3.95	ug/L	97
116) 1,2-dibromo-3-chloropropan	17.05	157	4817	3.74	ug/L	90
117) 1,3,5-trichlorobenzene	17.24	180	33767	3.96	ug/L	98
118) 1,2,4-trichlorobenzene	17.88	180	26843	3.67	ug/L	99
119) hexachlorobutadiene	18.00	225	14087	3.88	ug/L	90
120) naphthalene	18.17	128	49198	3.63	ug/L	96
121) 1,2,3-trichlorobenzene	18.40	180	21833	3.70	ug/L	95
122) hexachloroethane	16.58	201	9628	3.13	ug/L	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9596\
Data File : 2A220740.D
Acq On : 13 Oct 2022 8:03 pm
Operator : PrashanS
Sample : IC9596-4
Misc : MS62754,V2A9596,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 14 18:46:04 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 08:54:13 2022
QLast Update : Fri Oct 14 08:54:13 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9596\
Data File : 2A220741.D
Acq On : 13 Oct 2022 8:32 pm
Operator : PrashanS
Sample : IC9596-8
Misc : MS62754,V2A9596,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 14 08:54:33 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 08:54:13 2022
QLast Update : Fri Oct 14 08:54:13 2022
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) tert butyl alcohol-d9	7.25	65	354327	500.00	ug/L		0.00
5) pentafluorobenzene	9.51	168	646048	50.00	ug/L		0.00
50) 1,4-difluorobenzene	10.43	114	882011	50.00	ug/L		0.00
72) chlorobenzene-d5	13.56	117	778679	50.00	ug/L		0.00
96) 1,4-dichlorobenzene-d4	15.89	152	396655	50.00	ug/L		0.00
System Monitoring Compounds							
43) dibromofluoromethane (s)	9.54	113	286810	50.36	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.72%				
51) 1,2-dichloroethane-d4 (s)	9.96	65	347114	50.95	ug/L		0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 101.90%				
73) toluene-d8 (s)	12.06	98	984562	49.62	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.24%				
97) 4-bromofluorobenzene (s)	14.72	95	373649	50.14	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.28%				
Target Compounds							Qvalue
2) ethanol	5.99	45	53577	771.02	ug/L		96
3) tertiary butyl alcohol	7.37	59	34601	39.11	ug/L		85
4) 1,4-dioxane	11.08	88	10644	191.69	ug/L		89
6) chlorodifluoromethane	3.99	51	74693	8.49	ug/L		99
7) dichlorodifluoromethane	3.97	85	57151	8.39	ug/L		97
8) chloromethane	4.35	50	81532	8.48	ug/L		97
9) vinyl chloride	4.57	62	63963	8.23	ug/L		98
10) 1,3-butadiene	4.63	54	48844	8.65	ug/L		96
11) bromomethane	5.21	94	37569	8.32	ug/L		99
12) chloroethane	5.37	64	34824	8.37	ug/L		94
13) trichlorofluoromethane	5.79	101	68700	8.02	ug/L		93
14) ethyl ether	6.20	74	22983	7.99	ug/L		93
15) acrolein	6.42	56	8872	7.44	ug/L		90
16) freon 113	6.62	151	36977	8.21	ug/L		95
17) 1,1-dichloroethene	6.61	96	37596	8.38	ug/L		97
18) acetone	6.61	43	109913	33.95	ug/L		96
19) acetonitrile	7.03	41	69465	84.27	ug/L		97
20) iodomethane	6.85	142	72960	8.04	ug/L		97
21) carbon disulfide	6.99	76	131475	8.51	ug/L		98
22) methylene chloride	7.30	84	40765	7.99	ug/L		96
23) methyl acetate	7.07	43	45614	8.51	ug/L		98
24) methyl tert butyl ether	7.67	73	116976	8.20	ug/L		98
25) trans-1,2-dichloroethene	7.69	96	40970	8.16	ug/L		99
26) hexane	8.04	57	85876	8.33	ug/L		97
27) di-isopropyl ether	8.25	45	184569	8.48	ug/L		98
28) ethyl tert-butyl ether	8.71	59	160208	8.31	ug/L		99
29) 2-butanone	8.91	72	23907	32.12	ug/L	#	78
30) 1,1-dichloroethane	8.26	63	84350	8.35	ug/L		94
31) chloroprene	8.36	53	79564	8.18	ug/L		97
32) acrylonitrile	7.60	53	19970	7.84	ug/L		95
33) vinyl acetate	8.20	86	6652	8.35	ug/L	#	84
34) ethyl acetate	8.92	45	9134	8.50	ug/L		88
35) 2,2-dichloropropane	9.00	77	61232	8.40	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9596\
Data File : 2A220741.D
Acq On : 13 Oct 2022 8:32 pm
Operator : PrashanS
Sample : IC9596-8
Misc : MS62754,V2A9596,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 14 08:54:33 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 08:54:13 2022
QLast Update : Fri Oct 14 08:54:13 2022
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) cis-1,2-dichloroethene	8.97	96	44100	7.97	ug/L		99
37) propionitrile	8.98	54	76312	82.44	ug/L		84
38) bromochloromethane	9.26	130	29963	8.11	ug/L		94
39) tetrahydrofuran	9.29	42	17960	8.52	ug/L		98
40) chloroform	9.35	83	77116	8.37	ug/L		97
41) tert-butyl formate	9.39	59	30378	8.05	ug/L		97
42) isobutyl alcohol	9.75	43	26487	72.38	ug/L	#	87
44) methacrylonitrile	9.18	67	17979	7.81	ug/L		97
45) 1,1,1-trichloroethane	9.61	97	66666	8.10	ug/L		99
46) cyclohexane	9.72	84	64688	8.26	ug/L		95
47) 1,1-dichloropropene	9.77	75	57737	8.15	ug/L		95
48) tert-amyl alcohol	9.90	73	14345	41.11	ug/L		94
49) carbon tetrachloride	9.80	117	57582	7.82	ug/L		96
52) 2,2,4-trimethylpentane	10.12	57	201958	8.49	ug/L		98
53) tert-amyl methyl ether	10.11	73	129502	8.39	ug/L		98
54) n-butyl alcohol	10.50	56	80771	373.37	ug/L		99
55) benzene	10.02	78	164112	8.39	ug/L		97
56) heptane	10.28	57	37170	8.17	ug/L		98
57) isopropyl acetate	9.94	87	9772	8.34	ug/L		98
58) 1,2-dichloroethane	10.05	62	65079	8.18	ug/L		98
59) trichloroethene	10.75	95	45736	8.16	ug/L		97
60) ethyl acrylate	10.74	55	70067	7.92	ug/L		99
61) 2-nitropropane	11.50	41	11365	7.08	ug/L		94
62) 2-chloroethyl vinyl ether	11.54	63	22219	13.88	ug/L		98
63) methyl methacrylate	11.00	100	11673	8.03	ug/L	#	94
64) 1,2-dichloropropane	11.04	63	47382	8.10	ug/L		97
65) methylcyclohexane	11.04	83	74880	8.34	ug/L		97
66) dibromomethane	11.14	93	25836	7.92	ug/L		92
67) bromodichloromethane	11.29	83	56786	7.91	ug/L		95
68) epichlorohydrin	11.62	57	26477	39.70	ug/L		93
69) cis-1,3-dichloropropene	11.75	75	69490	8.03	ug/L		96
70) 4-methyl-2-pentanone	11.86	58	84132	32.69	ug/L		95
71) 3-methyl-1-butanol	11.87	70	24155	150.25	ug/L		89
74) toluene	12.13	92	99257	8.14	ug/L		98
75) trans-1,3-dichloropropene	12.32	75	61462	7.75	ug/L		97
76) ethyl methacrylate	12.32	69	55176	7.83	ug/L		95
77) 1,1,2-trichloroethane	12.54	83	32084	7.92	ug/L		95
78) 2-hexanone	12.71	58	91410	32.43	ug/L		89
79) tetrachloroethene	12.69	166	51064	8.39	ug/L		96
80) 1,3-dichloropropane	12.72	76	60659	8.04	ug/L		96
81) butyl acetate	12.79	56	35790	7.92	ug/L		93
82) dibromochloromethane	12.96	129	43823	7.48	ug/L		99
83) 1,2-dibromoethane	13.11	107	40160	7.94	ug/L		98
84) n-butyl ether	13.56	57	212115	8.35	ug/L		96
85) chlorobenzene	13.59	112	112421	8.22	ug/L		95
86) 1,1,1,2-tetrachloroethane	13.66	131	41855	7.89	ug/L		98
87) ethylbenzene	13.66	91	182671	8.34	ug/L		99
88) m,p-xylene	13.78	106	142561	16.30	ug/L		91
89) o-xylene	14.18	91	145932	8.34	ug/L		97
90) styrene	14.19	104	113822	7.91	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9596\
Data File : 2A220741.D
Acq On : 13 Oct 2022 8:32 pm
Operator : PrashanS
Sample : IC9596-8
Misc : MS62754,V2A9596,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 14 08:54:33 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 08:54:13 2022
QLast Update : Fri Oct 14 08:54:13 2022
Response via : Initial Calibration

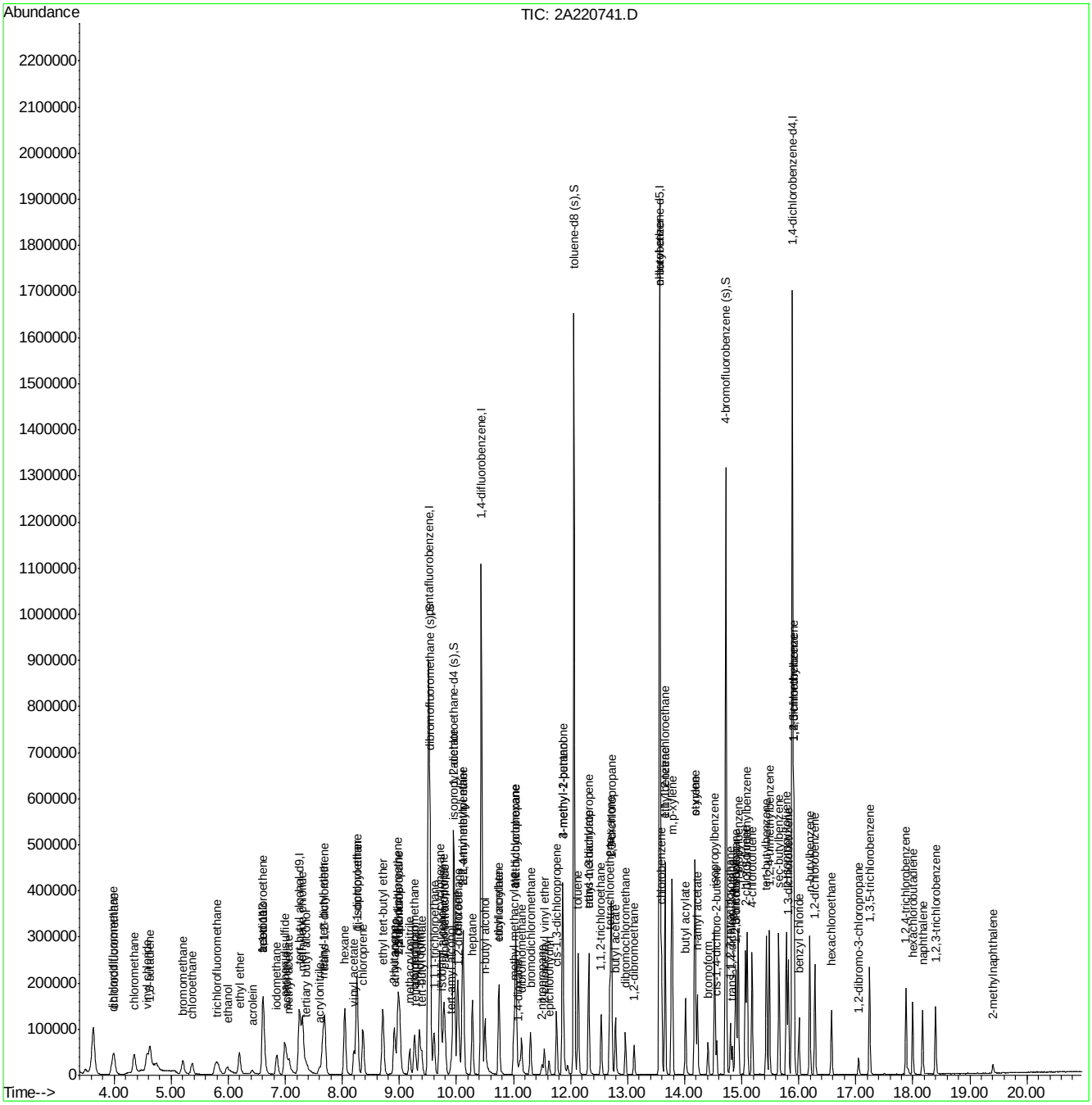
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) n-amyl acetate	14.22	70	27773	7.60	ug/L	93
92) bromoform	14.41	173	30614	7.32	ug/L	99
93) butyl acrylate	14.01	55	103238	7.62	ug/L	99
94) isopropylbenzene	14.52	105	176670	8.25	ug/L	97
95) cis-1,4-dichloro-2-butene	14.56	88	13751	6.50	ug/L	98
98) bromobenzene	14.90	156	50871	8.15	ug/L	99
99) 1,1,2,2-tetrachloroethane	14.80	83	47381	8.03	ug/L	97
100) trans-1,4-dichloro-2-buten	14.84	53	12573	6.69	ug/L	94
101) 1,2,3-trichloropropane	14.88	110	12479	8.09	ug/L	96
102) n-propylbenzene	14.94	91	213118	8.58	ug/L	96
103) 2-chlorotoluene	15.07	126	45730	8.11	ug/L	96
104) 4-chlorotoluene	15.18	91	130322	8.45	ug/L	99
105) 1,3,5-trimethylbenzene	15.09	105	146003	8.44	ug/L	96
106) tert-butylbenzene	15.44	119	129349	8.32	ug/L	98
107) 1,2,4-trimethylbenzene	15.48	105	148251	8.47	ug/L	95
108) sec-butylbenzene	15.65	105	189560	8.54	ug/L	97
109) 1,3-dichlorobenzene	15.82	146	93964	8.48	ug/L	96
110) p-isopropyltoluene	15.79	119	160718	8.20	ug/L	99
111) benzyl chloride	16.01	91	73532	7.14	ug/L	95
112) 1,2,3-trimethylbenzene	15.91	105	148800	8.48	ug/L	96
113) 1,4-dichlorobenzene	15.91	146	92600	8.27	ug/L	98
114) 1,2-dichlorobenzene	16.28	146	89329	8.24	ug/L	98
115) n-butylbenzene	16.20	92	77245	7.98	ug/L	96
116) 1,2-dibromo-3-chloropropan	17.05	157	9337	7.22	ug/L	92
117) 1,3,5-trichlorobenzene	17.24	180	69139	8.07	ug/L	95
118) 1,2,4-trichlorobenzene	17.88	180	56739	7.73	ug/L	98
119) hexachlorobutadiene	18.00	225	29112	7.98	ug/L	97
120) naphthalene	18.17	128	101974	7.49	ug/L	99
121) 1,2,3-trichlorobenzene	18.40	180	44519	7.51	ug/L	93
122) hexachloroethane	16.57	201	20600	6.68	ug/L	95
123) 2-methylnaphthalene	19.41	142	11017	3.26	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9596\
Data File : 2A220741.D
Acq On : 13 Oct 2022 8:32 pm
Operator : PrashanS
Sample : IC9596-8
Misc : MS62754,V2A9596,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 14 08:54:33 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 08:54:13 2022
QLast Update : Fri Oct 14 08:54:13 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9596\
Data File : 2A220742.D
Acq On : 13 Oct 2022 9:02 pm
Operator : PrashanS
Sample : IC9596-20
Misc : MS62754,V2A9596,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 14 08:54:34 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 08:54:13 2022
QLast Update : Fri Oct 14 08:54:13 2022
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) tert butyl alcohol-d9	7.24	65	346823	500.00	ug/L	-0.01
5) pentafluorobenzene	9.51	168	651580	50.00	ug/L	0.00
50) 1,4-difluorobenzene	10.43	114	888040	50.00	ug/L	0.00
72) chlorobenzene-d5	13.56	117	779163	50.00	ug/L	0.00
96) 1,4-dichlorobenzene-d4	15.89	152	403372	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	9.54	113	287291	50.02	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.04%			
51) 1,2-dichloroethane-d4 (s)	9.95	65	348155	50.76	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 101.52%			
73) toluene-d8 (s)	12.06	98	988907	49.81	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.62%			
97) 4-bromofluorobenzene (s)	14.72	95	377968	49.88	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.76%			
Target Compounds						Qvalue
2) ethanol	5.97	45	129721	1907.18	ug/L	98
3) tertiary butyl alcohol	7.36	59	82613	95.41	ug/L	87
4) 1,4-dioxane	11.08	88	25576	470.58	ug/L	92
6) chlorodifluoromethane	3.99	51	179798	20.27	ug/L	99
7) dichlorodifluoromethane	3.96	85	135636	19.75	ug/L	97
8) chloromethane	4.35	50	185984	19.18	ug/L	98
9) vinyl chloride	4.57	62	153417	19.58	ug/L	99
10) 1,3-butadiene	4.62	54	118018	20.73	ug/L	97
11) bromomethane	5.19	94	90530	19.88	ug/L	95
12) chloroethane	5.36	64	82969	19.77	ug/L	98
13) trichlorofluoromethane	5.78	101	167852	19.43	ug/L	95
14) ethyl ether	6.19	74	56519	19.49	ug/L	99
15) acrolein	6.41	56	23228	19.31	ug/L	86
16) freon 113	6.62	151	89656	19.74	ug/L	98
17) 1,1-dichloroethene	6.60	96	90692	20.03	ug/L	98
18) acetone	6.61	43	260921	79.91	ug/L	97
19) acetonitrile	7.01	41	164663	198.07	ug/L	97
20) iodomethane	6.84	142	182307	19.93	ug/L	100
21) carbon disulfide	6.98	76	317335	20.37	ug/L	99
22) methylene chloride	7.30	84	103043	20.01	ug/L	99
23) methyl acetate	7.06	43	105246	19.47	ug/L	99
24) methyl tert butyl ether	7.66	73	289213	20.09	ug/L	97
25) trans-1,2-dichloroethene	7.69	96	102501	20.24	ug/L	98
26) hexane	8.04	57	204386	19.67	ug/L	97
27) di-isopropyl ether	8.25	45	452291	20.61	ug/L	97
28) ethyl tert-butyl ether	8.71	59	394584	20.30	ug/L	99
29) 2-butanone	8.91	72	58378	77.76	ug/L #	75
30) 1,1-dichloroethane	8.26	63	205435	20.17	ug/L	97
31) chloroprene	8.36	53	195026	19.88	ug/L	98
32) acrylonitrile	7.59	53	49487	19.26	ug/L	96
33) vinyl acetate	8.19	86	16161	20.11	ug/L	98
34) ethyl acetate	8.92	45	21495	19.84	ug/L	89
35) 2,2-dichloropropane	9.00	77	149610	20.34	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9596\
Data File : 2A220742.D
Acq On : 13 Oct 2022 9:02 pm
Operator : PrashanS
Sample : IC9596-20
Misc : MS62754,V2A9596,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 14 08:54:34 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 08:54:13 2022
QLast Update : Fri Oct 14 08:54:13 2022
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) cis-1,2-dichloroethene	8.97	96	111102	19.90	ug/L		99
37) propionitrile	8.98	54	184983	198.13	ug/L		83
38) bromochloromethane	9.26	130	73154	19.63	ug/L		94
39) tetrahydrofuran	9.28	42	41445	19.50	ug/L		98
40) chloroform	9.35	83	183794	19.77	ug/L		97
41) tert-butyl formate	9.38	59	75325	19.80	ug/L		97
42) isobutyl alcohol	9.75	43	68714	186.18	ug/L		89
44) methacrylonitrile	9.18	67	45519	19.61	ug/L		95
45) 1,1,1-trichloroethane	9.60	97	164706	19.85	ug/L		99
46) cyclohexane	9.72	84	155175	19.66	ug/L		96
47) 1,1-dichloropropene	9.77	75	143139	20.03	ug/L		97
48) tert-amyl alcohol	9.91	73	34141	97.01	ug/L		92
49) carbon tetrachloride	9.80	117	146253	19.70	ug/L		99
52) 2,2,4-trimethylpentane	10.11	57	486246	20.30	ug/L		98
53) tert-amyl methyl ether	10.11	73	316611	20.38	ug/L		99
54) n-butyl alcohol	10.50	56	207140	951.01	ug/L		97
55) benzene	10.02	78	397014	20.17	ug/L		98
56) heptane	10.28	57	87786	19.17	ug/L		98
57) isopropyl acetate	9.94	87	22930	19.44	ug/L	#	94
58) 1,2-dichloroethane	10.05	62	159313	19.89	ug/L		97
59) trichloroethene	10.75	95	112003	19.84	ug/L		96
60) ethyl acrylate	10.74	55	175890	19.74	ug/L		99
61) 2-nitropropane	11.50	41	28990	17.93	ug/L		94
62) 2-chloroethyl vinyl ether	11.53	63	102762	63.77	ug/L		95
63) methyl methacrylate	11.00	100	29755	20.34	ug/L	#	83
64) 1,2-dichloropropane	11.03	63	117717	20.00	ug/L		97
65) methylcyclohexane	11.04	83	181173	20.03	ug/L		98
66) dibromomethane	11.14	93	62905	19.16	ug/L		94
67) bromodichloromethane	11.29	83	143754	19.90	ug/L		99
68) epichlorohydrin	11.62	57	63816	95.05	ug/L		98
69) cis-1,3-dichloropropene	11.75	75	171092	19.63	ug/L		99
70) 4-methyl-2-pentanone	11.86	58	203790	78.65	ug/L		93
71) 3-methyl-1-butanol	11.87	70	62234	384.48	ug/L		99
74) toluene	12.13	92	240635	19.72	ug/L		98
75) trans-1,3-dichloropropene	12.32	75	154202	19.43	ug/L		97
76) ethyl methacrylate	12.32	69	139297	19.75	ug/L		99
77) 1,1,2-trichloroethane	12.54	83	77959	19.24	ug/L		98
78) 2-hexanone	12.71	58	224217	79.51	ug/L		95
79) tetrachloroethene	12.68	166	123121	20.22	ug/L		97
80) 1,3-dichloropropane	12.72	76	148687	19.70	ug/L		98
81) butyl acetate	12.79	56	86772	19.19	ug/L		95
82) dibromochloromethane	12.96	129	112020	19.10	ug/L		99
83) 1,2-dibromoethane	13.11	107	98554	19.48	ug/L		98
84) n-butyl ether	13.56	57	517508	20.35	ug/L		100
85) chlorobenzene	13.59	112	274041	20.02	ug/L		98
86) 1,1,1,2-tetrachloroethane	13.66	131	104890	19.75	ug/L		98
87) ethylbenzene	13.66	91	449625	20.51	ug/L		100
88) m,p-xylene	13.78	106	351038	40.11	ug/L		95
89) o-xylene	14.18	91	357509	20.42	ug/L		98
90) styrene	14.19	104	286629	19.91	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9596\
Data File : 2A220742.D
Acq On : 13 Oct 2022 9:02 pm
Operator : PrashanS
Sample : IC9596-20
Misc : MS62754,V2A9596,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 14 08:54:34 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 08:54:13 2022
QLast Update : Fri Oct 14 08:54:13 2022
Response via : Initial Calibration

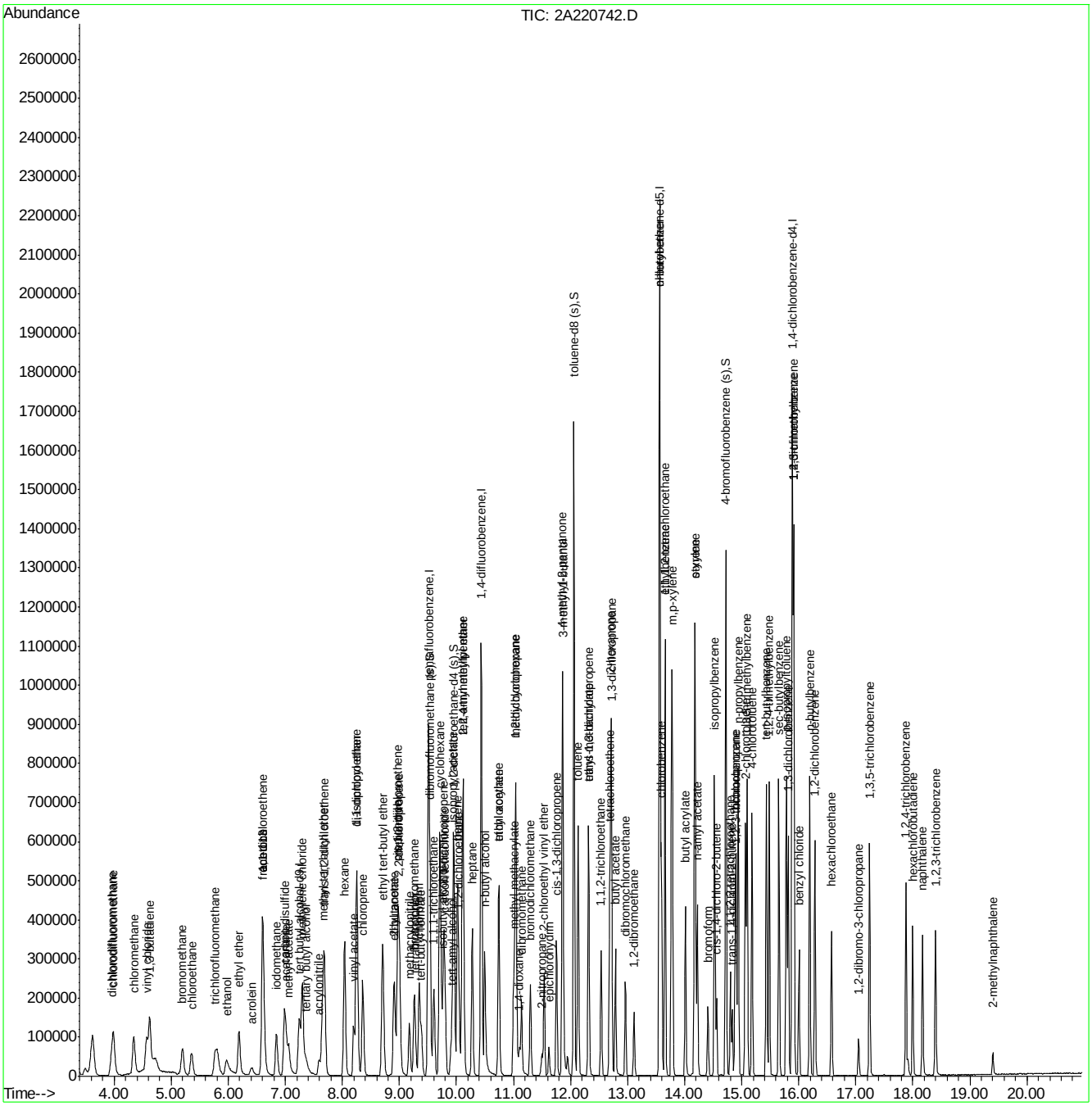
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) n-amyl acetate	14.22	70	70207	19.21	ug/L	90
92) bromoform	14.41	173	77223	18.45	ug/L	100
93) butyl acrylate	14.01	55	265116	19.57	ug/L	99
94) isopropylbenzene	14.52	105	439713	20.52	ug/L	99
95) cis-1,4-dichloro-2-butene	14.56	88	37497	17.72	ug/L	95
98) bromobenzene	14.90	156	127249	20.04	ug/L	98
99) 1,1,2,2-tetrachloroethane	14.80	83	116663	19.45	ug/L	98
100) trans-1,4-dichloro-2-buten	14.83	53	34081	17.84	ug/L	91
101) 1,2,3-trichloropropane	14.88	110	30867	19.67	ug/L	99
102) n-propylbenzene	14.94	91	522191	20.68	ug/L	99
103) 2-chlorotoluene	15.07	126	114708	20.01	ug/L	98
104) 4-chlorotoluene	15.18	91	315915	20.15	ug/L	98
105) 1,3,5-trimethylbenzene	15.09	105	354958	20.18	ug/L	98
106) tert-butylbenzene	15.43	119	322164	20.39	ug/L	98
107) 1,2,4-trimethylbenzene	15.48	105	361844	20.33	ug/L	97
108) sec-butylbenzene	15.65	105	461365	20.43	ug/L	99
109) 1,3-dichlorobenzene	15.82	146	229867	20.39	ug/L	98
110) p-isopropyltoluene	15.79	119	405318	20.33	ug/L	98
111) benzyl chloride	16.01	91	196181	18.74	ug/L	98
112) 1,2,3-trimethylbenzene	15.91	105	364073	20.40	ug/L	97
113) 1,4-dichlorobenzene	15.91	146	228359	20.05	ug/L	98
114) 1,2-dichlorobenzene	16.28	146	223766	20.29	ug/L	98
115) n-butylbenzene	16.20	92	197544	20.06	ug/L	97
116) 1,2-dibromo-3-chloropropan	17.05	157	25109	19.09	ug/L	98
117) 1,3,5-trichlorobenzene	17.24	180	174648	20.03	ug/L	99
118) 1,2,4-trichlorobenzene	17.88	180	143303	19.20	ug/L	99
119) hexachlorobutadiene	18.00	225	71345	19.22	ug/L	96
120) naphthalene	18.17	128	260998	18.84	ug/L	97
121) 1,2,3-trichlorobenzene	18.40	180	115198	19.11	ug/L	97
122) hexachloroethane	16.58	201	55901	17.82	ug/L	95
123) 2-methylnaphthalene	19.40	142	27902	8.11	ug/L	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9596\
Data File : 2A220742.D
Acq On : 13 Oct 2022 9:02 pm
Operator : PrashanS
Sample : IC9596-20
Misc : MS62754,V2A9596,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 14 08:54:34 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 08:54:13 2022
QLast Update : Fri Oct 14 08:54:13 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9596\
Data File : 2A220743.D
Acq On : 13 Oct 2022 9:30 pm
Operator : PrashanS
Sample : ICC9596-50
Misc : MS62754,V2A9596,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 14 08:54:35 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 08:54:13 2022
QLast Update : Fri Oct 14 08:54:13 2022
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) tert butyl alcohol-d9	7.25	65	355678	500.00	ug/L	0.00
5) pentafluorobenzene	9.51	168	657167	50.00	ug/L	0.00
50) 1,4-difluorobenzene	10.43	114	902756	50.00	ug/L	0.00
72) chlorobenzene-d5	13.56	117	785268	50.00	ug/L	0.00
96) 1,4-dichlorobenzene-d4	15.89	152	406067	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	9.54	113	289638	50.00	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.00%			
51) 1,2-dichloroethane-d4 (s)	9.96	65	348647	50.00	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 100.00%			
73) toluene-d8 (s)	12.06	98	1000489	50.00	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.00%			
97) 4-bromofluorobenzene (s)	14.72	95	381430	50.00	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.00%			
Target Compounds						Qvalue
2) ethanol	5.97	45	348768	5000.00	ug/L	100
3) tertiary butyl alcohol	7.37	59	222006	250.00	ug/L	100
4) 1,4-dioxane	11.08	88	69672	1250.00	ug/L	100
6) chlorodifluoromethane	4.00	51	447033	49.97	ug/L	100
7) dichlorodifluoromethane	3.96	85	346330	50.00	ug/L	100
8) chloromethane	4.35	50	488899	50.00	ug/L	100
9) vinyl chloride	4.57	62	395178	50.00	ug/L	100
10) 1,3-butadiene	4.63	54	287048	50.00	ug/L	100
11) bromomethane	5.20	94	229621	50.00	ug/L	100
12) chloroethane	5.36	64	211672	50.00	ug/L	100
13) trichlorofluoromethane	5.79	101	435637	50.00	ug/L	100
14) ethyl ether	6.19	74	146231	50.00	ug/L	100
15) acrolein	6.41	56	60647	50.00	ug/L	100
16) freon 113	6.62	151	229086	50.00	ug/L	100
17) 1,1-dichloroethene	6.60	96	228293	50.00	ug/L	100
18) acetone	6.61	43	658642	200.00	ug/L	100
19) acetonitrile	7.01	41	419240	500.00	ug/L	100
20) iodomethane	6.85	142	461373	50.00	ug/L	100
21) carbon disulfide	6.99	76	786827	50.08	ug/L	100
22) methylene chloride	7.30	84	259625	50.00	ug/L	100
23) methyl acetate	7.06	43	272525	50.00	ug/L	100
24) methyl tert butyl ether	7.66	73	725863	50.00	ug/L	100
25) trans-1,2-dichloroethene	7.69	96	255412	50.00	ug/L	100
26) hexane	8.04	57	524067	50.00	ug/L	100
27) di-isopropyl ether	8.25	45	1106575	50.00	ug/L	100
28) ethyl tert-butyl ether	8.71	59	980123	50.00	ug/L	100
29) 2-butanone	8.90	72	151436	200.00	ug/L	100
30) 1,1-dichloroethane	8.26	63	513570	50.00	ug/L	100
31) chloroprene	8.36	53	494750	50.00	ug/L	100
32) acrylonitrile	7.59	53	129599	50.00	ug/L	100
33) vinyl acetate	8.20	86	40527	50.00	ug/L	100
34) ethyl acetate	8.92	45	54628	50.00	ug/L	100
35) 2,2-dichloropropane	9.00	77	370967	50.00	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9596\
Data File : 2A220743.D
Acq On : 13 Oct 2022 9:30 pm
Operator : PrashanS
Sample : ICC9596-50
Misc : MS62754,V2A9596,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 14 08:54:35 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 08:54:13 2022
QLast Update : Fri Oct 14 08:54:13 2022
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) cis-1,2-dichloroethene	8.97	96	281573	50.00	ug/L	100
37) propionitrile	8.98	54	470824	500.00	ug/L	100
38) bromochloromethane	9.26	130	187898	50.00	ug/L	100
39) tetrahydrofuran	9.28	42	107164	50.00	ug/L	100
40) chloroform	9.35	83	468871	50.00	ug/L	100
41) tert-butyl formate	9.38	59	191855	50.00	ug/L	100
42) isobutyl alcohol	9.75	43	186123	500.00	ug/L	100
44) methacrylonitrile	9.18	67	117084	50.00	ug/L	100
45) 1,1,1-trichloroethane	9.61	97	418444	50.00	ug/L	100
46) cyclohexane	9.72	84	398074	50.00	ug/L	100
47) 1,1-dichloropropene	9.77	75	360363	50.00	ug/L	100
48) tert-amyl alcohol	9.90	73	88740	250.00	ug/L	100
49) carbon tetrachloride	9.80	117	374475	50.00	ug/L	100
52) 2,2,4-trimethylpentane	10.12	57	1217620	50.00	ug/L	100
53) tert-amyl methyl ether	10.10	73	789588	50.00	ug/L	100
54) n-butyl alcohol	10.50	56	552981	2497.43	ug/L	100
55) benzene	10.02	78	1000680	50.00	ug/L	100
56) heptane	10.28	57	232801	50.00	ug/L	100
57) isopropyl acetate	9.94	87	59946	50.00	ug/L	100
58) 1,2-dichloroethane	10.05	62	407115	50.00	ug/L	100
59) trichloroethene	10.75	95	286964	50.00	ug/L	100
60) ethyl acrylate	10.74	55	452963	50.00	ug/L	100
61) 2-nitropropane	11.50	41	78644	47.84	ug/L	100
62) 2-chloroethyl vinyl ether	11.53	63	409541	250.00	ug/L	100
63) methyl methacrylate	11.00	100	74363	50.00	ug/L	100
64) 1,2-dichloropropane	11.03	63	299185	50.00	ug/L	100
65) methylcyclohexane	11.04	83	459696	50.00	ug/L	100
66) dibromomethane	11.14	93	166886	50.00	ug/L	100
67) bromodichloromethane	11.29	83	367243	50.00	ug/L	100
68) epichlorohydrin	11.62	57	170637	250.00	ug/L	100
69) cis-1,3-dichloropropene	11.75	75	442964	50.00	ug/L	100
70) 4-methyl-2-pentanone	11.86	58	526820	200.00	ug/L	100
71) 3-methyl-1-butanol	11.86	70	164546	1000.00	ug/L	100
74) toluene	12.13	92	614937	50.00	ug/L	100
75) trans-1,3-dichloropropene	12.32	75	399960	50.00	ug/L	100
76) ethyl methacrylate	12.32	69	355352	50.00	ug/L	100
77) 1,1,2-trichloroethane	12.54	83	204199	50.00	ug/L	100
78) 2-hexanone	12.71	58	568431	200.00	ug/L	100
79) tetrachloroethene	12.69	166	306836	50.00	ug/L	100
80) 1,3-dichloropropane	12.72	76	380305	50.00	ug/L	100
81) butyl acetate	12.79	56	227915	50.00	ug/L	100
82) dibromochloromethane	12.96	129	295521	50.00	ug/L	100
83) 1,2-dibromoethane	13.11	107	254926	50.00	ug/L	100
84) n-butyl ether	13.56	57	1281555	50.00	ug/L	100
85) chlorobenzene	13.60	112	689930	50.00	ug/L	100
86) 1,1,1,2-tetrachloroethane	13.66	131	267638	50.00	ug/L	100
87) ethylbenzene	13.66	91	1104569	50.00	ug/L	100
88) m,p-xylene	13.78	106	881963	100.00	ug/L	100
89) o-xylene	14.18	91	882300	50.00	ug/L	100
90) styrene	14.19	104	725359	50.00	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9596\
Data File : 2A220743.D
Acq On : 13 Oct 2022 9:30 pm
Operator : PrashanS
Sample : ICC9596-50
Misc : MS62754,V2A9596,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 14 08:54:35 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 08:54:13 2022
QLast Update : Fri Oct 14 08:54:13 2022
Response via : Initial Calibration

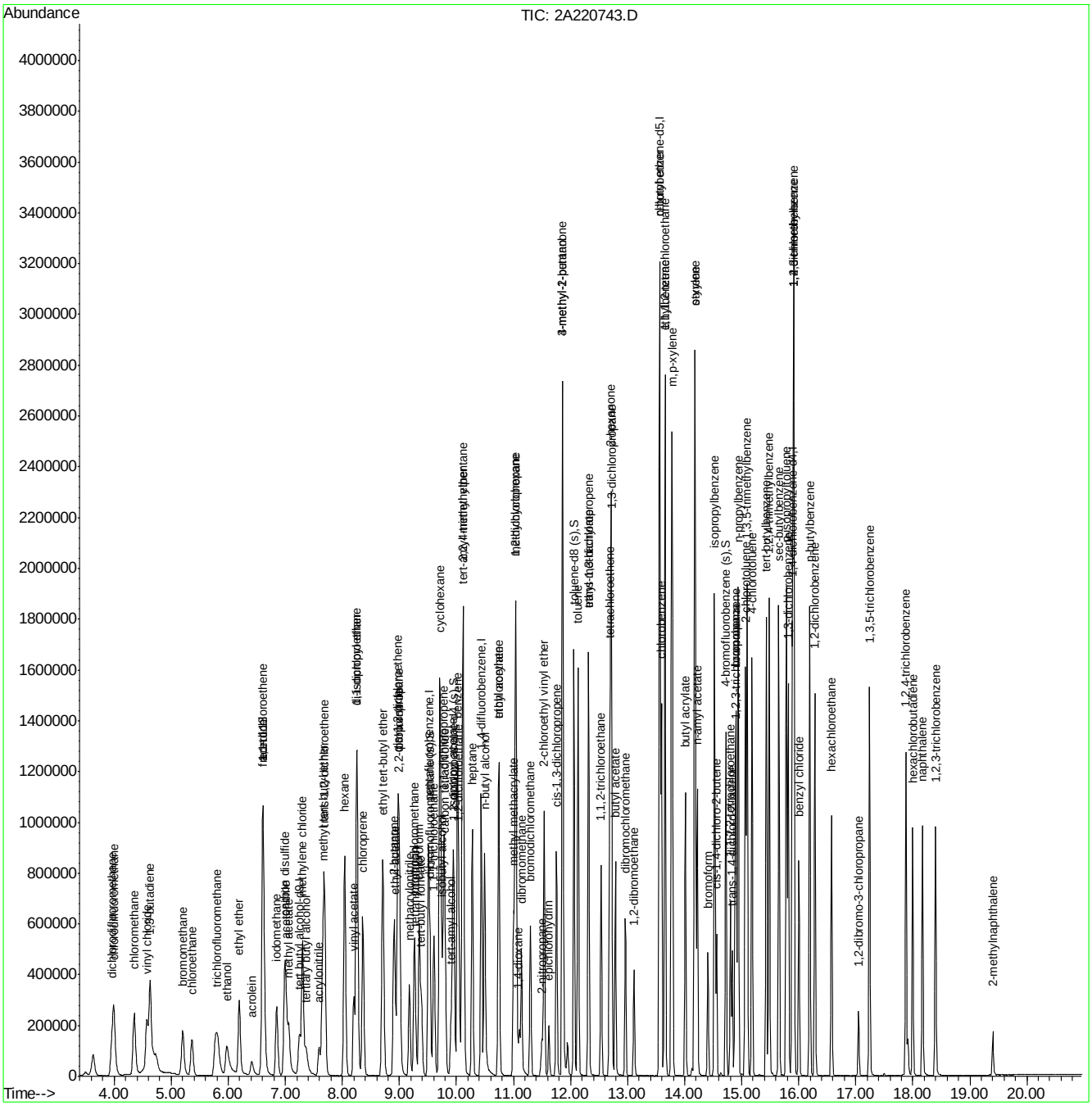
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) n-amyl acetate	14.22	70	184146	50.00	ug/L	100
92) bromoform	14.41	173	210962	50.00	ug/L	100
93) butyl acrylate	14.01	55	682821	50.00	ug/L	100
94) isopropylbenzene	14.52	105	1079569	50.00	ug/L	100
95) cis-1,4-dichloro-2-butene	14.56	88	106663	50.00	ug/L	100
98) bromobenzene	14.90	156	319640	50.00	ug/L	100
99) 1,1,2,2-tetrachloroethane	14.80	83	301947	50.00	ug/L	100
100) trans-1,4-dichloro-2-buten	14.84	53	96143	50.00	ug/L	100
101) 1,2,3-trichloropropane	14.88	110	78997	50.00	ug/L	100
102) n-propylbenzene	14.94	91	1270856	50.00	ug/L	100
103) 2-chlorotoluene	15.07	126	288100	49.92	ug/L	100
104) 4-chlorotoluene	15.18	91	789076	50.00	ug/L	100
105) 1,3,5-trimethylbenzene	15.09	105	885224	50.00	ug/L	100
106) tert-butylbenzene	15.43	119	795397	50.00	ug/L	100
107) 1,2,4-trimethylbenzene	15.48	105	895702	50.00	ug/L	100
108) sec-butylbenzene	15.65	105	1136765	50.00	ug/L	100
109) 1,3-dichlorobenzene	15.82	146	567444	50.00	ug/L	100
110) p-isopropyltoluene	15.79	119	1003295	50.00	ug/L	100
111) benzyl chloride	16.01	91	526928	50.00	ug/L	100
112) 1,2,3-trimethylbenzene	15.91	105	898097	50.00	ug/L	100
113) 1,4-dichlorobenzene	15.91	146	573156	50.00	ug/L	100
114) 1,2-dichlorobenzene	16.28	146	555066	50.00	ug/L	100
115) n-butylbenzene	16.20	92	495662	50.00	ug/L	100
116) 1,2-dibromo-3-chloropropan	17.05	157	66195	50.00	ug/L	100
117) 1,3,5-trichlorobenzene	17.24	180	438779	50.00	ug/L	100
118) 1,2,4-trichlorobenzene	17.88	180	375703	50.00	ug/L	100
119) hexachlorobutadiene	18.00	225	186808	50.00	ug/L	100
120) naphthalene	18.17	128	697154	50.00	ug/L	100
121) 1,2,3-trichlorobenzene	18.40	180	303381	50.00	ug/L	100
122) hexachloroethane	16.57	201	157897	50.00	ug/L	100
123) 2-methylnaphthalene	19.40	142	86573	25.00	ug/L	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9596\
Data File : 2A220743.D
Acq On : 13 Oct 2022 9:30 pm
Operator : PrashanS
Sample : ICC9596-50
Misc : MS62754,V2A9596,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 14 08:54:35 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 08:54:13 2022
QLast Update : Fri Oct 14 08:54:13 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9596\
Data File : 2A220744.D
Acq On : 13 Oct 2022 10:00 pm
Operator : PrashanS
Sample : IC9596-100
Misc : MS62754,V2A9596,5,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 14 08:54:36 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 08:54:13 2022
QLast Update : Fri Oct 14 08:54:13 2022
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) tert butyl alcohol-d9	7.26	65	350857	500.00	ug/L	0.00
5) pentafluorobenzene	9.51	168	664172	50.00	ug/L	0.00
50) 1,4-difluorobenzene	10.43	114	903653	50.00	ug/L	0.00
72) chlorobenzene-d5	13.56	117	786281	50.00	ug/L	0.00
96) 1,4-dichlorobenzene-d4	15.89	152	407136	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	9.54	113	293155	50.07	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.14%			
51) 1,2-dichloroethane-d4 (s)	9.96	65	348012	49.86	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 99.72%			
73) toluene-d8 (s)	12.06	98	1011110	50.47	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.94%			
97) 4-bromofluorobenzene (s)	14.72	95	383097	50.09	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.18%			
Target Compounds						Qvalue
2) ethanol	5.98	45	776904	11290.87	ug/L	100
3) tertiary butyl alcohol	7.37	59	465789	531.73	ug/L	92
4) 1,4-dioxane	11.08	88	148175	2694.97	ug/L	95
6) chlorodifluoromethane	4.00	51	918194	101.56	ug/L	98
7) dichlorodifluoromethane	3.96	85	732544	104.64	ug/L	99
8) chloromethane	4.35	50	1014108	102.62	ug/L	98
9) vinyl chloride	4.57	62	837774	104.88	ug/L	99
10) 1,3-butadiene	4.63	54	588500	101.43	ug/L	99
11) bromomethane	5.20	94	492359	106.08	ug/L	99
12) chloroethane	5.36	64	459176	107.32	ug/L	98
13) trichlorofluoromethane	5.81	101	926361	105.20	ug/L	99
14) ethyl ether	6.19	74	307533	104.04	ug/L	94
15) acrolein	6.41	56	128535	104.85	ug/L	99
16) freon 113	6.62	151	478259	103.28	ug/L	97
17) 1,1-dichloroethene	6.60	96	480566	104.14	ug/L	99
18) acetone	6.61	43	1337746	401.93	ug/L	97
19) acetonitrile	7.02	41	874889	1032.42	ug/L	99
20) iodomethane	6.85	142	974164	104.46	ug/L	99
21) carbon disulfide	6.99	76	1649556	103.88	ug/L	99
22) methylene chloride	7.30	84	550052	104.81	ug/L	98
23) methyl acetate	7.06	43	562756	102.16	ug/L	98
24) methyl tert butyl ether	7.66	73	1520412	103.63	ug/L	100
25) trans-1,2-dichloroethene	7.69	96	534588	103.55	ug/L	97
26) hexane	8.04	57	1106141	104.42	ug/L	99
27) di-isopropyl ether	8.25	45	2253033	100.73	ug/L	98
28) ethyl tert-butyl ether	8.71	59	1997564	100.83	ug/L	98
29) 2-butanone	8.90	72	313723	409.96	ug/L #	86
30) 1,1-dichloroethane	8.26	63	1078284	103.87	ug/L	100
31) chloroprene	8.36	53	1024107	102.41	ug/L	98
32) acrylonitrile	7.59	53	274173	104.66	ug/L	96
33) vinyl acetate	8.20	86	82846	101.14	ug/L #	84
34) ethyl acetate	8.92	45	113864	103.12	ug/L	97
35) 2,2-dichloropropane	9.00	77	774110	103.24	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9596\
Data File : 2A220744.D
Acq On : 13 Oct 2022 10:00 pm
Operator : PrashanS
Sample : IC9596-100
Misc : MS62754,V2A9596,5,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 14 08:54:36 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 08:54:13 2022
QLast Update : Fri Oct 14 08:54:13 2022
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) cis-1,2-dichloroethene	8.97	96	588514	103.40	ug/L		98
37) propionitrile	8.98	54	958634	1007.30	ug/L		97
38) bromochloromethane	9.26	130	394511	103.87	ug/L		99
39) tetrahydrofuran	9.28	42	219890	101.51	ug/L		98
40) chloroform	9.35	83	968186	102.16	ug/L		98
41) tert-butyl formate	9.39	59	401230	103.46	ug/L		97
42) isobutyl alcohol	9.75	43	394264	1047.98	ug/L		94
44) methacrylonitrile	9.18	67	247440	104.55	ug/L		96
45) 1,1,1-trichloroethane	9.61	97	882330	104.32	ug/L		100
46) cyclohexane	9.72	84	853063	106.02	ug/L		99
47) 1,1-dichloropropene	9.78	75	749003	102.83	ug/L		97
48) tert-amyl alcohol	9.91	73	183070	510.31	ug/L		99
49) carbon tetrachloride	9.80	117	794232	104.93	ug/L		99
52) 2,2,4-trimethylpentane	10.12	57	2621684	107.55	ug/L		99
53) tert-amyl methyl ether	10.11	73	1614283	102.12	ug/L		98
54) n-butyl alcohol	10.50	56	1125949	5080.09	ug/L		100
55) benzene	10.02	78	2036293	101.64	ug/L		98
56) heptane	10.28	57	513981	110.28	ug/L		98
57) isopropyl acetate	9.94	87	125464	104.54	ug/L	#	87
58) 1,2-dichloroethane	10.05	62	832807	102.18	ug/L		100
59) trichloroethene	10.75	95	589519	102.61	ug/L		100
60) ethyl acrylate	10.74	55	907997	100.13	ug/L		99
61) 2-nitropropane	11.50	41	167477	101.77	ug/L		98
62) 2-chloroethyl vinyl ether	11.54	63	1120366	683.24	ug/L		97
63) methyl methacrylate	11.01	100	156104	104.86	ug/L		93
64) 1,2-dichloropropane	11.04	63	616379	102.91	ug/L		99
65) methylcyclohexane	11.04	83	999133	108.57	ug/L		98
66) dibromomethane	11.14	93	348683	104.36	ug/L		99
67) bromodichloromethane	11.30	83	762573	103.72	ug/L		100
68) epichlorohydrin	11.62	57	351643	514.68	ug/L		99
69) cis-1,3-dichloropropene	11.75	75	908686	102.47	ug/L		99
70) 4-methyl-2-pentanone	11.86	58	1055120	400.16	ug/L		90
71) 3-methyl-1-butanol	11.86	70	339896	2063.61	ug/L		94
74) toluene	12.13	92	1255776	101.97	ug/L		93
75) trans-1,3-dichloropropene	12.32	75	822327	102.67	ug/L		100
76) ethyl methacrylate	12.32	69	729445	102.50	ug/L		99
77) 1,1,2-trichloroethane	12.54	83	414664	101.40	ug/L		97
78) 2-hexanone	12.71	58	1135257	398.92	ug/L		92
79) tetrachloroethene	12.69	166	634633	103.28	ug/L		98
80) 1,3-dichloropropane	12.72	76	782543	102.75	ug/L		98
81) butyl acetate	12.79	56	471110	103.22	ug/L		95
82) dibromochloromethane	12.96	129	622967	105.27	ug/L		99
83) 1,2-dibromoethane	13.11	107	527441	103.32	ug/L		98
84) n-butyl ether	13.56	57	2519200	98.16	ug/L		97
85) chlorobenzene	13.60	112	1409437	102.01	ug/L		98
86) 1,1,1,2-tetrachloroethane	13.66	131	566247	105.65	ug/L		99
87) ethylbenzene	13.66	91	2172550	98.22	ug/L		95
88) m,p-xylene	13.78	106	1805471	204.45	ug/L		93
89) o-xylene	14.18	91	1752030	99.16	ug/L		95
90) styrene	14.19	104	1464564	100.82	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9596\
Data File : 2A220744.D
Acq On : 13 Oct 2022 10:00 pm
Operator : PrashanS
Sample : IC9596-100
Misc : MS62754,V2A9596,5,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 14 08:54:36 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 08:54:13 2022
QLast Update : Fri Oct 14 08:54:13 2022
Response via : Initial Calibration

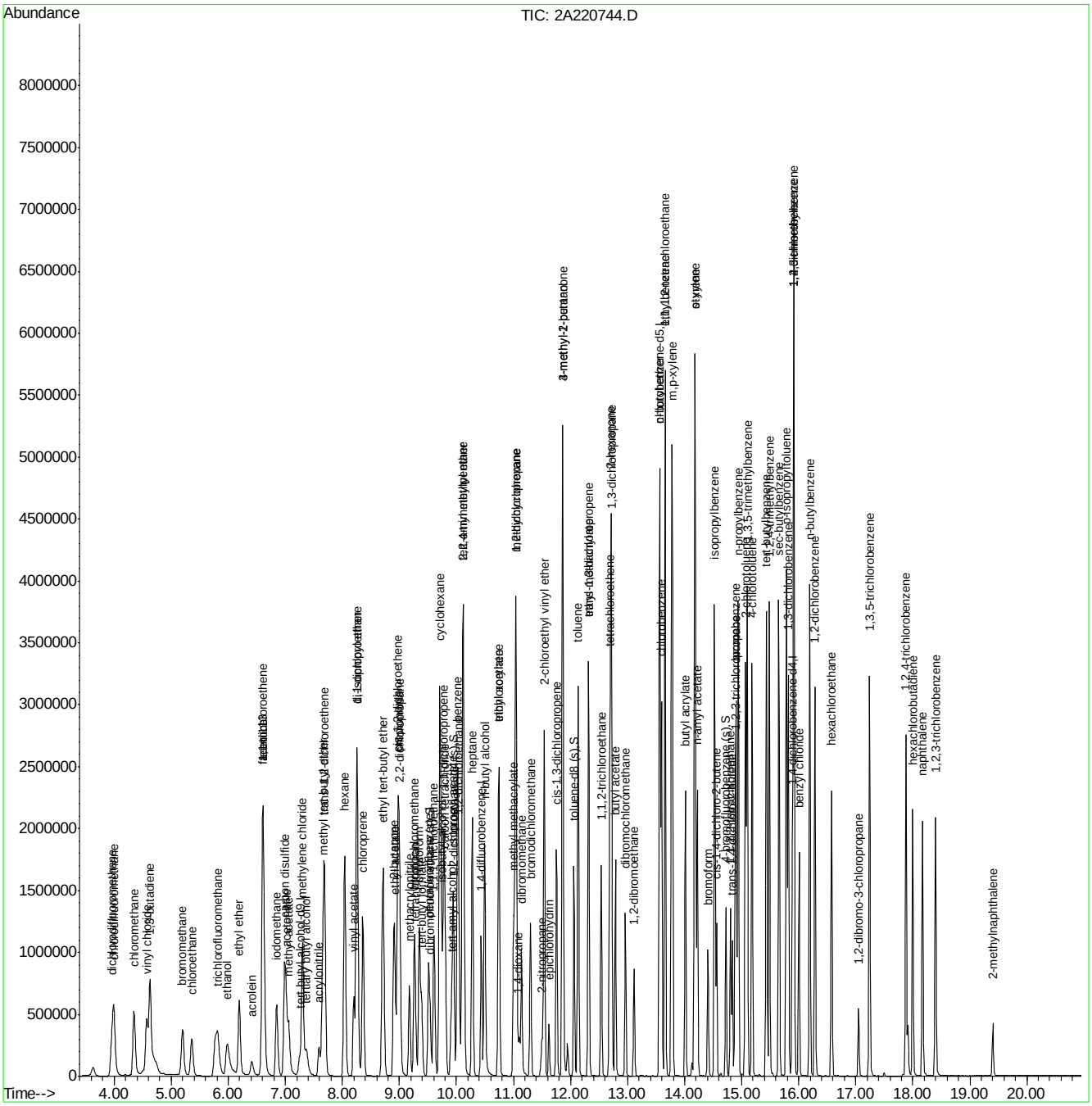
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) n-amyl acetate	14.22	70	384080	104.15	ug/L	94
92) bromoform	14.41	173	446232	105.62	ug/L	99
93) butyl acrylate	14.01	55	1361166	99.54	ug/L	95
94) isopropylbenzene	14.52	105	2184847	101.06	ug/L	97
95) cis-1,4-dichloro-2-butene	14.56	88	237183	111.04	ug/L	98
98) bromobenzene	14.90	156	656977	102.50	ug/L	98
99) 1,1,2,2-tetrachloroethane	14.80	83	612533	101.16	ug/L	99
100) trans-1,4-dichloro-2-buten	14.84	53	211085	109.49	ug/L	96
101) 1,2,3-trichloropropane	14.88	110	162375	102.50	ug/L	96
102) n-propylbenzene	14.94	91	2537246	99.56	ug/L	97
103) 2-chlorotoluene	15.07	126	605555	104.66	ug/L	93
104) 4-chlorotoluene	15.18	91	1594464	100.77	ug/L	98
105) 1,3,5-trimethylbenzene	15.10	105	1815376	102.27	ug/L	98
106) tert-butylbenzene	15.44	119	1673461	104.92	ug/L	99
107) 1,2,4-trimethylbenzene	15.49	105	1822971	101.49	ug/L	97
108) sec-butylbenzene	15.66	105	2365548	103.77	ug/L	96
109) 1,3-dichlorobenzene	15.82	146	1173579	103.14	ug/L	98
110) p-isopropyltoluene	15.79	119	2087820	103.77	ug/L	96
111) benzyl chloride	16.01	91	1087237	102.90	ug/L	99
112) 1,2,3-trimethylbenzene	15.91	105	1816841	100.88	ug/L	98
113) 1,4-dichlorobenzene	15.91	146	1172979	102.06	ug/L	99
114) 1,2-dichlorobenzene	16.28	146	1138720	102.31	ug/L	98
115) n-butylbenzene	16.20	92	1089989	109.66	ug/L	93
116) 1,2-dibromo-3-chloropropan	17.05	157	142353	107.24	ug/L	99
117) 1,3,5-trichlorobenzene	17.24	180	952033	108.20	ug/L	99
118) 1,2,4-trichlorobenzene	17.88	180	811077	107.66	ug/L	96
119) hexachlorobutadiene	18.00	225	417342	111.41	ug/L	100
120) naphthalene	18.17	128	1460831	104.50	ug/L	100
121) 1,2,3-trichlorobenzene	18.40	180	659397	108.39	ug/L	99
122) hexachloroethane	16.58	201	371145	117.22	ug/L	96
123) 2-methylnaphthalene	19.40	142	210040	60.49	ug/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9596\
Data File : 2A220744.D
Acq On : 13 Oct 2022 10:00 pm
Operator : PrashanS
Sample : IC9596-100
Misc : MS62754,V2A9596,5,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 14 08:54:36 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 08:54:13 2022
QLast Update : Fri Oct 14 08:54:13 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9596\
Data File : 2A220745.D
Acq On : 13 Oct 2022 10:28 pm
Operator : PrashanS
Sample : IC9596-200
Misc : MS62754,V2A9596,5,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 14 08:54:37 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 08:54:13 2022
QLast Update : Fri Oct 14 08:54:13 2022
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) tert butyl alcohol-d9	7.25	65	352959	500.00	ug/L		0.00
5) pentafluorobenzene	9.51	168	675260	50.00	ug/L		0.00
50) 1,4-difluorobenzene	10.43	114	915731	50.00	ug/L		0.00
72) chlorobenzene-d5	13.56	117	786812	50.00	ug/L		0.00
96) 1,4-dichlorobenzene-d4	15.89	152	414947	50.00	ug/L		0.00
System Monitoring Compounds							
43) dibromofluoromethane (s)	9.54	113	295880	49.71	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.42%				
51) 1,2-dichloroethane-d4 (s)	9.95	65	353927	50.04	ug/L		0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 100.08%				
73) toluene-d8 (s)	12.06	98	1025972	51.17	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 102.34%				
97) 4-bromofluorobenzene (s)	14.72	95	391802	50.26	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.52%				
Target Compounds							Qvalue
2) ethanol	5.98	45	1698970	24544.37	ug/L		100
3) tertiary butyl alcohol	7.37	59	912520	1035.50	ug/L		96
4) 1,4-dioxane	11.08	88	293333	5303.29	ug/L		95
6) chlorodifluoromethane	3.98	51	1707913	185.80	ug/L		97
7) dichlorodifluoromethane	3.95	85	1384179	194.48	ug/L		99
8) chloromethane	4.34	50	1883959	187.51	ug/L		96
9) vinyl chloride	4.56	62	1575373	193.98	ug/L		100
10) 1,3-butadiene	4.62	54	1083734	183.71	ug/L		100
11) bromomethane	5.19	94	933173	197.75	ug/L		99
12) chloroethane	5.35	64	872648	200.61	ug/L		98
13) trichlorofluoromethane	5.79	101	1769083	197.61	ug/L		97
14) ethyl ether	6.19	74	587671	195.56	ug/L		94
15) acrolein	6.40	56	249071	199.84	ug/L		98
16) freon 113	6.61	151	916636	194.70	ug/L		99
17) 1,1-dichloroethene	6.60	96	905654	193.04	ug/L		96
18) acetone	6.60	43	2339722	691.43	ug/L		96
19) acetonitrile	7.01	41	1665001	1932.53	ug/L		99
20) iodomethane	6.84	142	1827426	192.74	ug/L		99
21) carbon disulfide	6.98	76	3001183	185.90	ug/L		98
22) methylene chloride	7.30	84	1037520	194.46	ug/L		95
23) methyl acetate	7.06	43	1084139	193.58	ug/L		96
24) methyl tert butyl ether	7.65	73	2816163	188.79	ug/L		100
25) trans-1,2-dichloroethene	7.68	96	1018644	194.07	ug/L		95
26) hexane	8.04	57	1987795	184.57	ug/L		99
27) di-isopropyl ether	8.25	45	4037200	177.53	ug/L		97
28) ethyl tert-butyl ether	8.71	59	3619844	179.71	ug/L		96
29) 2-butanone	8.90	72	594410	764.00	ug/L	#	80
30) 1,1-dichloroethane	8.25	63	1986071	188.18	ug/L		98
31) chloroprene	8.35	53	1901326	187.00	ug/L		96
32) acrylonitrile	7.59	53	531067	199.40	ug/L		97
33) vinyl acetate	8.19	86	161228	193.59	ug/L	#	74
34) ethyl acetate	8.92	45	218587	194.71	ug/L		94
35) 2,2-dichloropropane	9.00	77	1432995	187.97	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9596\
Data File : 2A220745.D
Acq On : 13 Oct 2022 10:28 pm
Operator : PrashanS
Sample : IC9596-200
Misc : MS62754,V2A9596,5,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 14 08:54:37 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 08:54:13 2022
QLast Update : Fri Oct 14 08:54:13 2022
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) cis-1,2-dichloroethene	8.97	96	1115141	192.71	ug/L		97
37) propionitrile	8.98	54	1788583	1848.52	ug/L		94
38) bromochloromethane	9.26	130	750575	194.38	ug/L		96
39) tetrahydrofuran	9.28	42	421247	191.28	ug/L		99
40) chloroform	9.35	83	1796262	186.42	ug/L		97
41) tert-butyl formate	9.38	59	781168	198.13	ug/L		95
42) isobutyl alcohol	9.75	43	734272	1919.69	ug/L		95
44) methacrylonitrile	9.18	67	475808	197.75	ug/L		95
45) 1,1,1-trichloroethane	9.61	97	1642228	190.97	ug/L		98
46) cyclohexane	9.72	84	1614732	197.38	ug/L		90
47) 1,1-dichloropropene	9.77	75	1407461	190.05	ug/L		95
48) tert-amyl alcohol	9.91	73	364853	1000.33	ug/L		97
49) carbon tetrachloride	9.80	117	1493151	194.02	ug/L		97
52) 2,2,4-trimethylpentane	10.12	57	4396366	177.97	ug/L		97
53) tert-amyl methyl ether	10.10	73	2932956	183.10	ug/L		98
54) n-butyl alcohol	10.50	56	2147958	9563.40	ug/L		97
55) benzene	10.02	78	3676870	181.12	ug/L		96
56) heptane	10.28	57	889909	188.42	ug/L		99
57) isopropyl acetate	9.94	87	247983	203.91	ug/L	#	76
58) 1,2-dichloroethane	10.05	62	1556075	188.40	ug/L		97
59) trichloroethene	10.74	95	1115259	191.57	ug/L		98
60) ethyl acrylate	10.73	55	1695048	184.46	ug/L		98
61) 2-nitropropane	11.50	41	330862	198.41	ug/L		96
62) 2-chloroethyl vinyl ether	11.53	63	2323351	1398.17	ug/L		94
63) methyl methacrylate	11.00	100	303082	200.90	ug/L	#	88
64) 1,2-dichloropropane	11.03	63	1159125	190.97	ug/L		97
65) methylcyclohexane	11.04	83	1795504	192.53	ug/L		96
66) dibromomethane	11.14	93	665254	196.49	ug/L		99
67) bromodichloromethane	11.29	83	1422658	190.95	ug/L		96
68) epichlorohydrin	11.62	57	676410	976.97	ug/L		98
69) cis-1,3-dichloropropene	11.75	75	1694443	188.55	ug/L		99
70) 4-methyl-2-pentanone	11.86	58	1946621	728.54	ug/L	#	74
71) 3-methyl-1-butanol	11.86	70	658137	3943.04	ug/L		87
74) toluene	12.13	92	2313197	187.71	ug/L	#	86
75) trans-1,3-dichloropropene	12.32	75	1525568	190.34	ug/L		97
76) ethyl methacrylate	12.32	69	1360231	191.02	ug/L		98
77) 1,1,2-trichloroethane	12.54	83	781824	191.06	ug/L		99
78) 2-hexanone	12.71	58	2036472	715.12	ug/L	#	83
79) tetrachloroethene	12.69	166	1177318	191.47	ug/L		99
80) 1,3-dichloropropane	12.72	76	1456871	191.16	ug/L		96
81) butyl acetate	12.79	56	897509	196.51	ug/L		86
82) dibromochloromethane	12.96	129	1178178	198.95	ug/L		99
83) 1,2-dibromoethane	13.11	107	991122	194.01	ug/L		98
84) n-butyl ether	13.56	57	4259484	165.86	ug/L		91
85) chlorobenzene	13.60	112	2524343	182.58	ug/L		94
86) 1,1,1,2-tetrachloroethane	13.66	131	1042938	194.46	ug/L		96
87) ethylbenzene	13.66	91	3675438	166.05	ug/L		89
88) m,p-xylene	13.78	106	3265026	369.47	ug/L		83
89) o-xylene	14.18	91	3047807	172.38	ug/L		91
90) styrene	14.19	104	2589311	178.13	ug/L		95

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9596\
Data File : 2A220745.D
Acq On : 13 Oct 2022 10:28 pm
Operator : PrashanS
Sample : IC9596-200
Misc : MS62754,V2A9596,5,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 14 08:54:37 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 08:54:13 2022
QLast Update : Fri Oct 14 08:54:13 2022
Response via : Initial Calibration

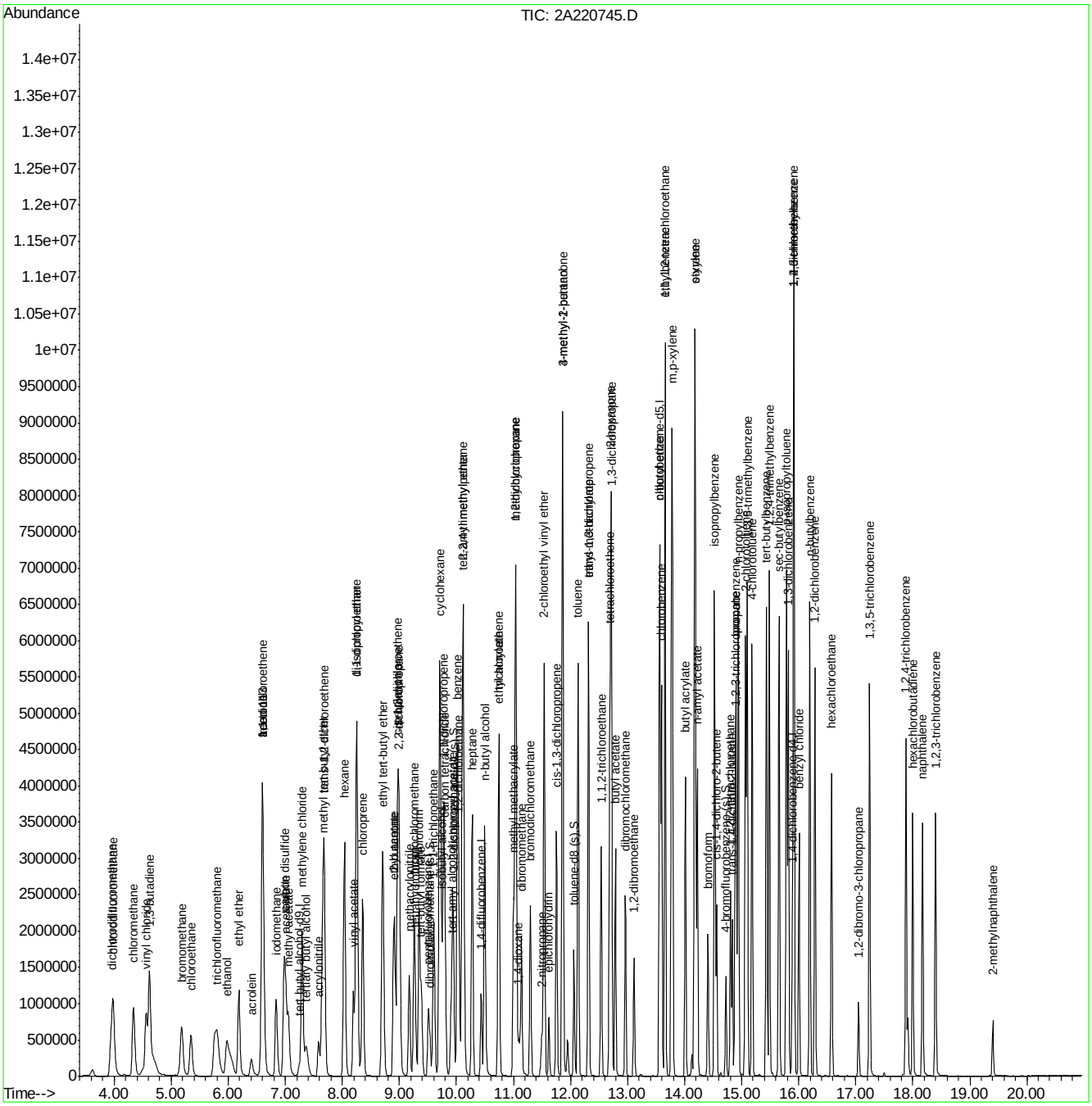
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
91) n-amyl acetate	14.22	70	744115	201.65 ug/L #	82
92) bromoform	14.41	173	855307	202.32 ug/L	99
93) butyl acrylate	14.01	55	2435538	177.99 ug/L	89
94) isopropylbenzene	14.52	105	3710505	171.51 ug/L	91
95) cis-1,4-dichloro-2-butene	14.56	88	463202	216.71 ug/L	98
98) bromobenzene	14.90	156	1212296	185.58 ug/L	98
99) 1,1,2,2-tetrachloroethane	14.80	83	1137167	184.28 ug/L	97
100) trans-1,4-dichloro-2-buten	14.84	53	406175	206.71 ug/L	96
101) 1,2,3-trichloropropane	14.88	110	314923	195.06 ug/L	98
102) n-propylbenzene	14.94	91	4186222	161.18 ug/L	89
103) 2-chlorotoluene	15.07	126	1113698	188.86 ug/L #	85
104) 4-chlorotoluene	15.18	91	2801962	173.75 ug/L	94
105) 1,3,5-trimethylbenzene	15.10	105	3084447	170.49 ug/L	92
106) tert-butylbenzene	15.44	119	2859966	175.93 ug/L	96
107) 1,2,4-trimethylbenzene	15.49	105	3116021	170.22 ug/L	91
108) sec-butylbenzene	15.66	105	3848194	165.64 ug/L	91
109) 1,3-dichlorobenzene	15.82	146	2076972	179.09 ug/L	94
110) p-isopropyltoluene	15.79	119	3426395	167.10 ug/L	90
111) benzyl chloride	16.01	91	1987667	184.57 ug/L	96
112) 1,2,3-trimethylbenzene	15.91	105	3043288	165.80 ug/L	92
113) 1,4-dichlorobenzene	15.91	146	2041631	174.29 ug/L	96
114) 1,2-dichlorobenzene	16.28	146	2007171	176.94 ug/L	94
115) n-butylbenzene	16.20	92	1827566	180.41 ug/L	87
116) 1,2-dibromo-3-chloropropan	17.05	157	267041	197.39 ug/L	99
117) 1,3,5-trichlorobenzene	17.24	180	1574841	175.62 ug/L	98
118) 1,2,4-trichlorobenzene	17.88	180	1356429	176.66 ug/L	97
119) hexachlorobutadiene	18.00	225	690185	180.78 ug/L	99
120) naphthalene	18.17	128	2492725	174.95 ug/L	98
121) 1,2,3-trichlorobenzene	18.40	180	1105382	178.28 ug/L	99
122) hexachloroethane	16.57	201	674608	209.05 ug/L	98
123) 2-methylnaphthalene	19.40	142	389985	110.21 ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9596\
Data File : 2A220745.D
Acq On : 13 Oct 2022 10:28 pm
Operator : PrashanS
Sample : IC9596-200
Misc : MS62754,V2A9596,5,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 14 08:54:37 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 08:54:13 2022
QLast Update : Fri Oct 14 08:54:13 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9596\
Data File : 2A220748.D
Acq On : 13 Oct 2022 11:54 pm
Operator : PrashanS
Sample : ICV9596-50
Misc : MS62754,V2A9596,5,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 14 18:46:36 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 09:22:42 2022
QLast Update : Fri Oct 14 09:22:42 2022
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) tert butyl alcohol-d9	7.24	65	369812	500.00	ug/L	-0.01
5) pentafluorobenzene	9.51	168	693907	50.00	ug/L	0.00
50) 1,4-difluorobenzene	10.43	114	940173	50.00	ug/L	0.00
72) chlorobenzene-d5	13.56	117	821608	50.00	ug/L	0.00
96) 1,4-dichlorobenzene-d4	15.89	152	428192	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	9.54	113	303264	49.56	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.12%			
51) 1,2-dichloroethane-d4 (s)	9.95	65	366109	49.49	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 98.98%			
73) toluene-d8 (s)	12.06	98	1048982	50.18	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.36%			
97) 4-bromofluorobenzene (s)	14.72	95	400404	49.46	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 98.92%			
Target Compounds						Qvalue
2) ethanol	5.97	45	366441	4919.71	ug/L	96
3) tertiary butyl alcohol	7.36	59	238222	251.61	ug/L	90
4) 1,4-dioxane	11.08	88	73032	1318.69	ug/L	92
7) dichlorodifluoromethane	3.95	85	363599	49.68	ug/L	99
8) chloromethane	4.34	50	459118	42.11	ug/L	99
9) vinyl chloride	4.56	62	406804	48.78	ug/L	98
10) 1,3-butadiene	4.62	54	477174	75.24	ug/L	97
11) bromomethane	5.19	94	247158	48.44	ug/L	100
12) chloroethane	5.35	64	228201	51.11	ug/L	100
13) trichlorofluoromethane	5.78	101	451462	50.28	ug/L	98
14) ethyl ether	6.19	74	164117	52.63	ug/L	89
15) acrolein	6.41	56	61942	46.08	ug/L	97
16) freon 113	6.61	151	237422	48.57	ug/L	96
17) 1,1-dichloroethene	6.60	96	253842	49.74	ug/L	98
18) acetone	6.60	43	571171	152.86	ug/L	99
20) iodomethane	6.84	142	502572	51.65	ug/L	99
21) carbon disulfide	6.98	76	902402	51.25	ug/L	100
22) methylene chloride	7.30	84	287149	50.49	ug/L	98
23) methyl acetate	7.06	43	327572	53.22	ug/L	96
24) methyl tert butyl ether	7.65	73	814742	50.70	ug/L	99
25) trans-1,2-dichloroethene	7.68	96	281405	48.92	ug/L	99
26) hexane	8.04	57	525349	45.96	ug/L	99
27) di-isopropyl ether	8.25	45	1186631	47.81	ug/L	99
28) ethyl tert-butyl ether	8.71	59	1044759	48.69	ug/L	100
29) 2-butanone	8.90	72	150131	188.19	ug/L	99
30) 1,1-dichloroethane	8.26	63	560419	50.47	ug/L	100
31) chloroprene	8.36	53	566044	53.63	ug/L	98
33) vinyl acetate	8.19	86	29260	34.82	ug/L #	94
34) ethyl acetate	8.92	45	58923	49.16	ug/L	96
35) 2,2-dichloropropane	9.00	77	381368	45.61	ug/L	99
36) cis-1,2-dichloroethene	8.97	96	304351	49.16	ug/L	99
37) propionitrile	8.98	54	462999	465.64	ug/L	93
38) bromochloromethane	9.26	130	205519	52.01	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9596\
Data File : 2A220748.D
Acq On : 13 Oct 2022 11:54 pm
Operator : PrashanS
Sample : ICV9596-50
Misc : MS62754,V2A9596,5,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 14 18:46:36 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 09:22:42 2022
QLast Update : Fri Oct 14 09:22:42 2022
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
39) tetrahydrofuran	9.28	42	115256	49.28	ug/L		98
40) chloroform	9.35	83	535983	50.79	ug/L		97
41) tert-butyl formate	9.38	59	106290	25.35	ug/L		99
42) isobutyl alcohol	9.74	43	184173	492.97	ug/L		92
44) methacrylonitrile	9.17	67	128585	52.50	ug/L		94
45) 1,1,1-trichloroethane	9.60	97	461517	51.19	ug/L		98
46) cyclohexane	9.71	84	433866	50.27	ug/L		96
47) 1,1-dichloropropene	9.77	75	394583	51.41	ug/L		98
48) tert-amyl alcohol	9.90	73	92471	234.69	ug/L		92
49) carbon tetrachloride	9.80	117	414725	52.98	ug/L		99
52) 2,2,4-trimethylpentane	10.12	57	1256769	47.94	ug/L		99
53) tert-amyl methyl ether	10.10	73	828943	47.86	ug/L		99
54) n-butyl alcohol	10.49	56	565608	2532.93	ug/L		98
55) benzene	10.02	78	1092064	51.10	ug/L		100
56) heptane	10.28	57	272587	53.94	ug/L		98
57) isopropyl acetate	9.94	87	65963	53.25	ug/L		95
58) 1,2-dichloroethane	10.04	62	442286	48.71	ug/L		100
59) trichloroethene	10.74	95	321667	54.03	ug/L		98
60) ethyl acrylate	10.73	55	457147	47.87	ug/L		100
61) 2-nitropropane	11.50	41	85805	53.55	ug/L		95
62) 2-chloroethyl vinyl ether	11.53	63	447556	358.25	ug/L		99
63) methyl methacrylate	11.00	100	84599	55.09	ug/L	#	68
64) 1,2-dichloropropane	11.03	63	324121	51.44	ug/L		99
65) methylcyclohexane	11.04	83	508216	51.43	ug/L		99
66) dibromomethane	11.14	93	180115	52.55	ug/L		98
67) bromodichloromethane	11.29	83	401420	51.69	ug/L		99
68) epichlorohydrin	11.62	57	169746	240.15	ug/L		99
69) cis-1,3-dichloropropene	11.75	75	468358	50.74	ug/L		99
70) 4-methyl-2-pentanone	11.86	58	561202	208.87	ug/L		99
71) 3-methyl-1-butanol	11.86	70	172605	1061.94	ug/L		98
74) toluene	12.13	92	662446	51.03	ug/L		99
75) trans-1,3-dichloropropene	12.32	75	429282	52.63	ug/L		98
76) ethyl methacrylate	12.32	69	365065	51.40	ug/L		99
77) 1,1,2-trichloroethane	12.54	83	218562	52.32	ug/L		98
78) 2-hexanone	12.70	58	565706	193.90	ug/L		100
80) 1,3-dichloropropane	12.72	76	415139	52.54	ug/L		98
81) butyl acetate	12.79	56	245119	52.27	ug/L		99
82) dibromochloromethane	12.96	129	324893	53.76	ug/L		97
83) 1,2-dibromoethane	13.11	107	279601	52.80	ug/L		100
84) n-butyl ether	13.56	57	1327410	48.94	ug/L		100
85) chlorobenzene	13.59	112	755546	52.15	ug/L		99
86) 1,1,1,2-tetrachloroethane	13.66	131	292537	53.03	ug/L		98
87) ethylbenzene	13.66	91	1202070	50.53	ug/L		99
88) m,p-xylene	13.78	106	972871	105.03	ug/L		96
89) o-xylene	14.18	91	955114	50.85	ug/L		100
90) styrene	14.19	104	787031	54.07	ug/L		100
91) n-amyl acetate	14.22	70	195898	53.55	ug/L		95
92) bromoform	14.41	173	228785	55.69	ug/L		98
93) butyl acrylate	14.01	55	705087	52.65	ug/L		99
94) isopropylbenzene	14.52	105	1170881	50.18	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9596\
Data File : 2A220748.D
Acq On : 13 Oct 2022 11:54 pm
Operator : PrashanS
Sample : ICV9596-50
Misc : MS62754,V2A9596,5,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 14 18:46:36 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 09:22:42 2022
QLast Update : Fri Oct 14 09:22:42 2022
Response via : Initial Calibration

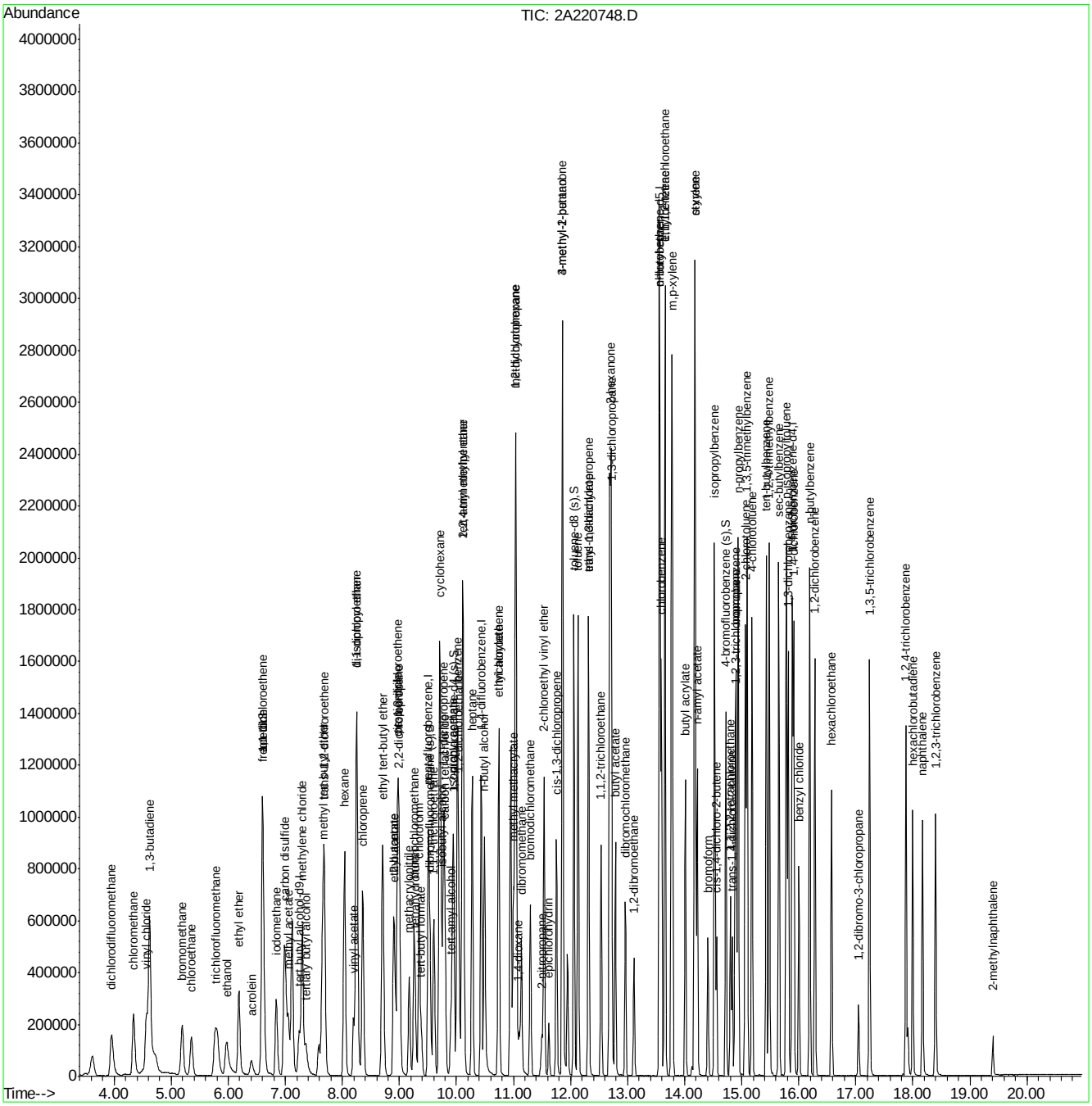
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
95) cis-1,4-dichloro-2-butene	14.56	88	104124	49.71	ug/L	98
98) bromobenzene	14.90	156	347580	50.20	ug/L	99
99) 1,1,2,2-tetrachloroethane	14.80	83	309798	48.12	ug/L	99
100) trans-1,4-dichloro-2-buten	14.84	53	104955	56.79	ug/L	97
101) 1,2,3-trichloropropane	14.88	110	87149	52.26	ug/L	99
102) n-propylbenzene	14.94	91	1375289	49.62	ug/L	99
103) 2-chlorotoluene	15.07	126	317899	51.82	ug/L	96
104) 4-chlorotoluene	15.18	91	860331	49.81	ug/L	99
105) 1,3,5-trimethylbenzene	15.09	105	956487	50.10	ug/L	98
106) tert-butylbenzene	15.43	119	862045	50.60	ug/L	100
107) 1,2,4-trimethylbenzene	15.48	105	967301	50.62	ug/L	99
108) sec-butylbenzene	15.65	105	1225575	49.72	ug/L	99
109) 1,3-dichlorobenzene	15.82	146	617830	49.64	ug/L	100
110) p-isopropyltoluene	15.78	119	1080357	51.56	ug/L	98
111) benzyl chloride	16.01	91	497101	49.55	ug/L	98
113) 1,4-dichlorobenzene	15.91	146	628301	50.25	ug/L	99
114) 1,2-dichlorobenzene	16.28	146	597742	50.16	ug/L	99
115) n-butylbenzene	16.20	92	531648	51.79	ug/L	100
116) 1,2-dibromo-3-chloropropan	17.05	157	71654	54.03	ug/L	100
117) 1,3,5-trichlorobenzene	17.24	180	467050	51.46	ug/L	100
118) 1,2,4-trichlorobenzene	17.88	180	392872	53.66	ug/L	100
119) hexachlorobutadiene	18.00	225	194688	49.83	ug/L	99
120) naphthalene	18.17	128	717383	53.07	ug/L	99
121) 1,2,3-trichlorobenzene	18.40	180	314127	53.20	ug/L	97
122) hexachloroethane	16.57	201	172567	56.81	ug/L	99
123) 2-methylnaphthalene	19.40	142	77521	21.50	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9596\
Data File : 2A220748.D
Acq On : 13 Oct 2022 11:54 pm
Operator : PrashanS
Sample : ICV9596-50
Misc : MS62754,V2A9596,5,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 14 18:46:36 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 09:22:42 2022
QLast Update : Fri Oct 14 09:22:42 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9596\
Data File : 2A220749.D
Acq On : 14 Oct 2022 12:22 am
Operator : PrashanS
Sample : ICV9596-50
Misc : MS62754,V2A9596,5,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 14 18:47:22 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 09:22:42 2022
QLast Update : Fri Oct 14 09:22:42 2022
Response via : Initial Calibration

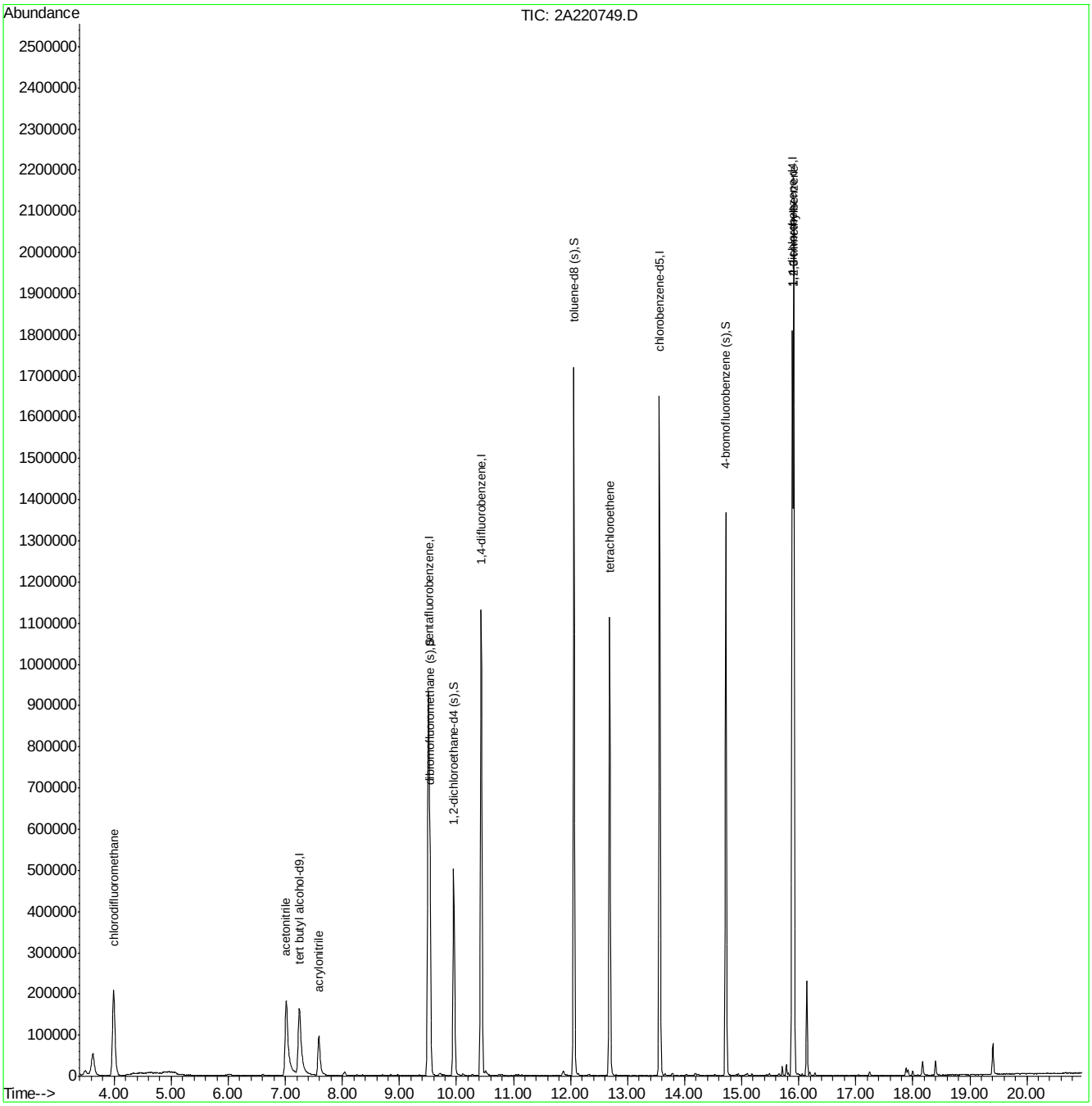
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) tert butyl alcohol-d9	7.25	65	359110	500.00	ug/L	0.00
5) pentafluorobenzene	9.51	168	680609	50.00	ug/L	0.00
50) 1,4-difluorobenzene	10.43	114	919619	50.00	ug/L	0.00
72) chlorobenzene-d5	13.56	117	818949	50.00	ug/L	0.00
96) 1,4-dichlorobenzene-d4	15.89	152	415765	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	9.54	113	298177	49.68	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.36%			
51) 1,2-dichloroethane-d4 (s)	9.95	65	367046	50.72	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 101.44%			
73) toluene-d8 (s)	12.06	98	1025873	49.24	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 98.48%			
97) 4-bromofluorobenzene (s)	14.72	95	398267	50.67	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 101.34%			
Target Compounds						Qvalue
6) chlorodifluoromethane	3.99	51	468309	49.55	ug/L	100
19) acetonitrile	7.01	41	399593	436.20	ug/L	98
32) acrylonitrile	7.59	53	109016	41.96	ug/L	95
79) tetrachloroethene	12.68	166	303799	44.74	ug/L	98
112) 1,2,3-trimethylbenzene	15.91	105	985335	52.09	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\V2A9596\
Data File : 2A220749.D
Acq On : 14 Oct 2022 12:22 am
Operator : PrashanS
Sample : ICV9596-50
Misc : MS62754,V2A9596,5,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 14 18:47:22 2022
Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 09:22:42 2022
QLast Update : Fri Oct 14 09:22:42 2022
Response via : Initial Calibration



M2A9596.M Mon Oct 17 08:53:03 2022 MS2A Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nelsonf\October\10-29-22\v2a9619\
Data File : 2a221287.d
Acq On : 27 Oct 2022 10:49 pm
Operator : nickw
Sample : cc9596-50 Inst : GCMS2A
Misc : MS63376,V2A9619,5,,,,1
ALS Vial : 29 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Results File: M2A9596.RES
Quant Time: Oct 29 02:37:22 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 09:22:42 2022
QLast Update : Fri Oct 14 09:22:42 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.246	65	323515	500.00	ug/L	0.00
5) pentafluorobenzene	9.506	168	662808	50.00	ug/L	0.00
50) 1,4-difluorobenzene	10.434	114	900072	50.00	ug/L	0.00
72) chlorobenzene-d5	13.558	117	731213	50.00	ug/L	0.00
96) 1,4-dichlorobenzene-d4	15.886	152	377292	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	9.537	113	289453	49.52	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.04%			
51) 1,2-dichloroethane-d4 (s)	9.951	65	312097	44.07	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 88.14%			
73) toluene-d8 (s)	12.059	98	926332	49.80	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.60%			
97) 4-bromofluorobenzene (s)	14.722	95	335954	47.10	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 94.20%			
Target Compounds						Qvalue
2) ethanol	5.966	45	295151	4529.66	ug/L	99
3) tertiary butyl alcohol	7.361	59	187216	226.04	ug/L	92
4) 1,4-dioxane	11.078	88	63659	1313.94	ug/L	89
6) chlorodifluoromethane	3.985	51	336539	36.56	ug/L	96
7) dichlorodifluoromethane	3.964	85	326945	46.76	ug/L	97
8) chloromethane	4.346	50	264542	25.40	ug/L	97
9) vinyl chloride	4.572	62	228612	28.70	ug/L	94
10) 1,3-butadiene	4.619	54	144629	23.88	ug/L	94
11) bromomethane	5.191	94	205064	42.08	ug/L	99
12) chloroethane	5.358	64	181077	42.45	ug/L	97
13) trichlorofluoromethane	5.783	101	394567	46.00	ug/L	100
14) ethyl ether	6.187	74	132088	44.34	ug/L	96
15) acrolein	6.407	56	53749	41.86	ug/L	93
16) freon 113	6.611	151	204805	43.86	ug/L	94
17) 1,1-dichloroethene	6.601	96	203948	41.84	ug/L	91
18) acetone	6.601	43	365595	102.43	ug/L	89
19) acetonitrile	7.010	41	384072	430.52	ug/L	96
20) iodomethane	6.842	142	441686	47.52	ug/L	97
21) carbon disulfide	6.984	76	669160	39.78	ug/L	94
22) methylene chloride	7.298	84	238412	43.89	ug/L	91
23) methyl acetate	7.057	43	232118	39.48	ug/L	98
24) methyl tert butyl ether	7.655	73	671316	43.74	ug/L	94
25) trans-1,2-dichloroethene	7.681	96	229787	41.82	ug/L	93
26) hexane	8.037	57	393238	36.01	ug/L	98
27) di-isopropyl ether	8.247	45	934862	39.44	ug/L	97
28) ethyl tert-butyl ether	8.709	59	874280	42.65	ug/L	99
29) 2-butanone	8.903	72	119495	156.82	ug/L	100
30) 1,1-dichloroethane	8.258	63	444613	41.92	ug/L	100
31) chloroprene	8.357	53	400514	39.72	ug/L	93
33) vinyl acetate	8.195	86	48007	59.80	ug/L #	76
34) ethyl acetate	8.924	45	49137	42.92	ug/L	81
35) 2,2-dichloropropane	8.997	77	294095	36.83	ug/L	97
36) cis-1,2-dichloroethene	8.965	96	259829	43.94	ug/L	94
37) propionitrile	8.976	54	438784	461.99	ug/L	91
38) bromochloromethane	9.259	130	182558	48.36	ug/L	89
39) tetrahydrofuran	9.280	42	95645	42.81	ug/L	93
40) chloroform	9.348	83	419283	41.60	ug/L	95
41) tert-butyl formate	9.385	59	221760	55.38	ug/L	97
42) isobutyl alcohol	9.747	43	141016	395.16	ug/L	93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nelsonf\October\10-29-22\v2a9619\
Data File : 2a221287.d
Acq On : 27 Oct 2022 10:49 pm
Operator : nickw
Sample : cc9596-50 Inst : GCMS2A
Misc : MS63376,V2A9619,5,,,,1
ALS Vial : 29 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Results File: M2A9596.RES
Quant Time: Oct 29 02:37:22 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 09:22:42 2022
QLast Update : Fri Oct 14 09:22:42 2022
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44)	methacrylonitrile	9.170	67	112454	48.07	ug/L		89
45)	1,1,1-trichloroethane	9.605	97	376799	43.75	ug/L		95
46)	cyclohexane	9.715	84	339826	41.22	ug/L		85
47)	1,1-dichloropropene	9.773	75	306032	41.75	ug/L		96
48)	tert-amyl alcohol	9.904	73	78867	209.56	ug/L		92
49)	carbon tetrachloride	9.799	117	340463	45.53	ug/L		98
52)	2,2,4-trimethylpentane	10.114	57	984826	39.24	ug/L		97
53)	tert-amyl methyl ether	10.103	73	724148	43.67	ug/L		98
54)	n-butyl alcohol	10.491	56	488692	2285.99	ug/L		95
55)	benzene	10.019	78	881441	43.08	ug/L		99
56)	heptane	10.276	57	202024	41.76	ug/L		97
57)	isopropyl acetate	9.935	87	56214	47.40	ug/L	#	76
58)	1,2-dichloroethane	10.040	62	341494	39.28	ug/L		98
59)	trichloroethene	10.743	95	251505	44.13	ug/L		99
60)	ethyl acrylate	10.732	55	411245	44.98	ug/L		98
61)	2-nitropropane	11.498	41	63689	41.52	ug/L		94
62)	2-chloroethyl vinyl ether	11.535	63	562206	470.07	ug/L		97
63)	methyl methacrylate	11.000	100	72873	49.57	ug/L	#	67
64)	1,2-dichloropropane	11.031	63	263418	43.67	ug/L		100
65)	methylcyclohexane	11.042	83	375319	39.68	ug/L		98
66)	dibromomethane	11.141	93	154839	47.19	ug/L		93
67)	bromodichloromethane	11.293	83	331520	44.60	ug/L		98
68)	epichlorohydrin	11.618	57	148073	218.82	ug/L		98
69)	cis-1,3-dichloropropene	11.755	75	374563	42.39	ug/L		89
70)	4-methyl-2-pentanone	11.860	58	464428	180.56	ug/L		87
71)	3-methyl-1-butanol	11.865	70	136499	877.21	ug/L		93
74)	toluene	12.132	92	519085	44.93	ug/L		99
75)	trans-1,3-dichloropropene	12.316	75	335042	46.16	ug/L		99
76)	ethyl methacrylate	12.311	69	303064	47.95	ug/L		92
77)	1,1,2-trichloroethane	12.536	83	180604	48.58	ug/L		95
78)	2-hexanone	12.704	58	438540	168.90	ug/L		90
79)	tetrachloroethene	12.683	166	286425	47.24	ug/L		97
80)	1,3-dichloropropane	12.720	76	323007	45.93	ug/L		99
81)	butyl acetate	12.788	56	192828	46.20	ug/L		86
82)	dibromochloromethane	12.961	129	285356	53.05	ug/L		99
83)	1,2-dibromoethane	13.113	107	243898	51.76	ug/L		99
84)	n-butyl ether	13.558	57	966104	40.02	ug/L		98
85)	chlorobenzene	13.590	112	597361	46.33	ug/L		98
86)	1,1,1,2-tetrachloroethane	13.658	131	249354	50.79	ug/L		99
87)	ethylbenzene	13.653	91	913383	43.14	ug/L		99
88)	m,p-xylene	13.773	106	731423	88.72	ug/L		99
89)	o-xylene	14.172	91	731324	43.75	ug/L		100
90)	styrene	14.188	104	598442	46.20	ug/L		99
91)	n-amyl acetate	14.219	70	144389	44.35	ug/L		88
92)	bromoform	14.408	173	211011	57.71	ug/L		99
93)	butyl acrylate	14.009	55	536216	44.99	ug/L		98
94)	isopropylbenzene	14.523	105	900345	43.35	ug/L		98
95)	cis-1,4-dichloro-2-butene	14.560	88	91280	48.97	ug/L	#	82
98)	bromobenzene	14.901	156	291290	47.75	ug/L		91
99)	1,1,2,2-tetrachloroethane	14.801	83	269150	47.44	ug/L		99
100)	trans-1,4-dichloro-2-b...	14.832	53	65734	40.37	ug/L		89
101)	1,2,3-trichloropropane	14.885	110	75534	51.41	ug/L		99
102)	n-propylbenzene	14.937	91	1012810	41.47	ug/L		98
103)	2-chlorotoluene	15.068	126	250735	46.38	ug/L		88
104)	4-chlorotoluene	15.178	91	649737	42.69	ug/L		96
105)	1,3,5-trimethylbenzene	15.095	105	728448	43.30	ug/L		100
106)	tert-butylbenzene	15.430	119	673151	44.84	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nelsonf\October\10-29-22\v2a9619\
Data File : 2a221287.d
Acq On : 27 Oct 2022 10:49 pm
Operator : nickw
Sample : cc9596-50 Inst : GCMS2A
Misc : MS63376,V2A9619,5,,,,1
ALS Vial : 29 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Results File: M2A9596.RES
Quant Time: Oct 29 02:37:22 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 09:22:42 2022
QLast Update : Fri Oct 14 09:22:42 2022
Response via : Initial Calibration

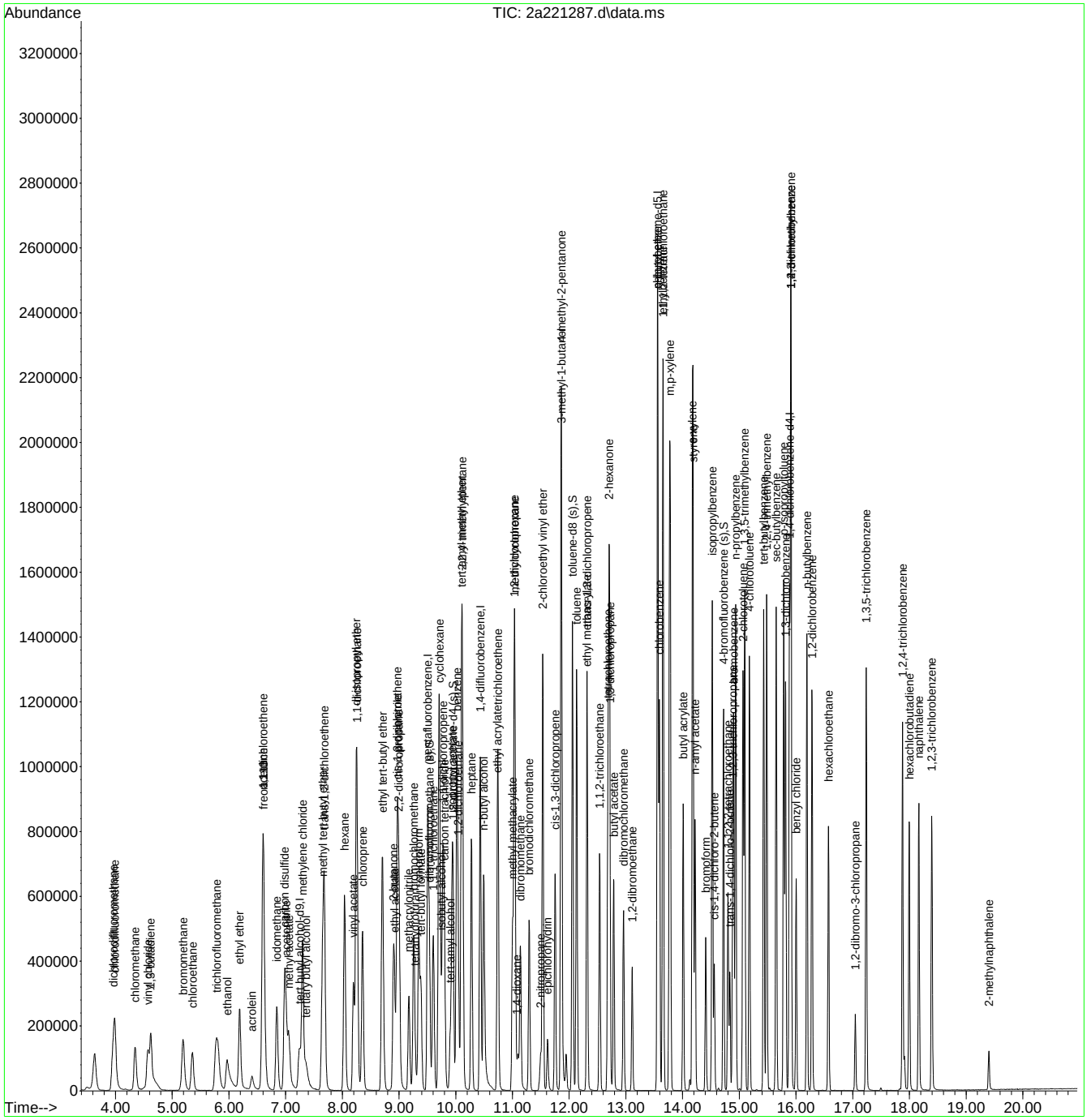
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
107) 1,2,4-trimethylbenzene	15.483	105	737436	43.79	ug/L	99
108) sec-butylbenzene	15.650	105	909072	41.86	ug/L	99
109) 1,3-dichlorobenzene	15.813	146	497174	45.33	ug/L	99
110) p-isopropyltoluene	15.781	119	832809	45.11	ug/L	99
111) benzyl chloride	16.002	91	402612	45.55	ug/L	99
112) 1,2,3-trimethylbenzene	15.913	105	746005	43.46	ug/L	99
113) 1,4-dichlorobenzene	15.913	146	497090	45.12	ug/L	99
114) 1,2-dichlorobenzene	16.285	146	494918	47.14	ug/L	97
115) n-butylbenzene	16.190	92	383997	42.45	ug/L	99
116) 1,2-dibromo-3-chloropr...	17.045	157	66770	57.14	ug/L	98
117) 1,3,5-trichlorobenzene	17.239	180	399972	50.01	ug/L	97
118) 1,2,4-trichlorobenzene	17.879	180	343894	53.31	ug/L	98
119) hexachlorobutadiene	17.999	225	170402	49.50	ug/L	99
120) naphthalene	18.167	128	655448	55.03	ug/L	99
121) 1,2,3-trichlorobenzene	18.392	180	274639	52.79	ug/L	99
122) hexachloroethane	16.573	201	134972	50.43	ug/L	97
123) 2-methylnaphthalene	19.404	142	61473	19.35	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\nelsonf\October\10-29-22\v2a9619\
Data File : 2a221287.d
Acq On : 27 Oct 2022 10:49 pm
Operator : nickw
Sample : cc9596-50 Inst : GCMS2A
Misc : MS63376,V2A9619,5,,,,1
ALS Vial : 29 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2A9596.M
Quant Results File: M2A9596.RES
Quant Time: Oct 29 02:37:22 2022
Quant Title : Method SW846 8260D, ZB624.1 60m x 0.25mm xFri May Fri Oct 14 09:22:42 2022
QLast Update : Fri Oct 14 09:22:42 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10548\
Data File : L348708.D
Acq On : 27 Oct 2022 1:55 am
Operator : PrashanS
Sample : IC10548-0.2
Misc : MS63290,VL10548,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 27 19:00:31 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Oct 27 08:49:04 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	3.063	65	273490	500.00	ug/L		0.00
5) pentafluorobenzene	4.282	168	264112	50.00	ug/L		0.00
51) 1,4-difluorobenzene	4.850	114	364197	50.00	ug/L		0.00
72) chlorobenzene-d5	7.241	117	315275	50.00	ug/L		0.00
95) 1,4-dichlorobenzene-d4	9.436	152	138144	50.00	ug/L		0.00
123) pentafluorobenzene(a)	4.282	168	264042	50.00	ug/L		0.00
127) 1,4-dichlorobenzene-d4(a)	9.436	152	138239	50.00	ug/L		0.00
System Monitoring Compounds							
43) dibromofluoromethane (s)	4.289	113	106096	46.19	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 92.38%				
52) 1,2-dichloroethane-d4 (s)	4.542	65	125041	52.72	ug/L		0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 105.44%				
73) toluene-d8 (s)	5.996	98	436466	55.57	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 111.14%				
96) 4-bromofluorobenzene (s)	8.319	95	153892	46.86	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 93.72%				
Target Compounds							Qvalue
6) chlorodifluoromethane	1.654	51	1169	0.22	ug/L	#	64
9) vinyl chloride	1.875	62	934	0.18	ug/L	#	49
12) chloroethane	2.216	64	501	0.19	ug/L		48
13) trichlorofluoromethane	2.392	101	866	0.15	ug/L		79
16) freon 113	2.761	151	478	0.19	ug/L	#	66
25) methyl tert butyl ether	3.262	73	1682	0.17	ug/L		73
29) ethyl tert-butyl ether	3.817	59	2178	0.20	ug/L		91
30) 2-butanone	3.939	72	559	0.73	ug/L	#	52
45) 1,1,1-trichloroethane	4.317	97	1109	0.24	ug/L	#	1
50) tert amyl alcohol	4.523	55	634	2.01	ug/L	#	13
59) trichloroethene	5.052	95	699	0.23	ug/L	#	59
62) 2-chloroethyl vinyl ether	5.630	63	2143	0.97	ug/L		77
64) 1,2-dichloropropane	5.254	63	607	0.20	ug/L	#	42
67) bromodichloromethane	5.434	83	960	0.23	ug/L		93
68) cis-1,3-dichloropropene	5.771	75	963	0.19	ug/L		77
74) toluene	6.050	92	1545	0.23	ug/L		96
77) 1,1,2-trichloroethane	6.387	83	434	0.19	ug/L	#	37
78) 2-hexanone	6.570	58	1531	0.79	ug/L	#	50
79) tetrachloroethene	6.487	166	502	0.18	ug/L	#	39
80) 1,3-dichloropropane	6.548	76	1015	0.24	ug/L	#	50
83) 1,2-dibromoethane	6.840	107	513	0.18	ug/L		74
85) chlorobenzene	7.270	112	1648	0.24	ug/L	#	58
87) ethylbenzene	7.347	91	2899	0.26	ug/L		71
88) m,p-xylene	7.456	106	2213	0.49	ug/L	#	93
91) styrene	7.834	104	1726	0.23	ug/L	#	70
97) bromobenzene	8.463	156	539	0.18	ug/L	#	52
98) 1,1,2,2-tetrachloroethane	8.441	83	1029	0.22	ug/L		90
103) 4-chlorotoluene	8.759	126	506	0.18	ug/L	#	86
104) 1,3,5-trimethylbenzene	8.714	105	2371	0.23	ug/L		67
105) tert-butylbenzene	9.019	119	1948	0.22	ug/L		85

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10548\
Data File : L348708.D
Acq On : 27 Oct 2022 1:55 am
Operator : PrashanS
Sample : IC10548-0.2
Misc : MS63290,VL10548,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 27 19:00:31 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Oct 27 08:49:04 2022
Response via : Initial Calibration

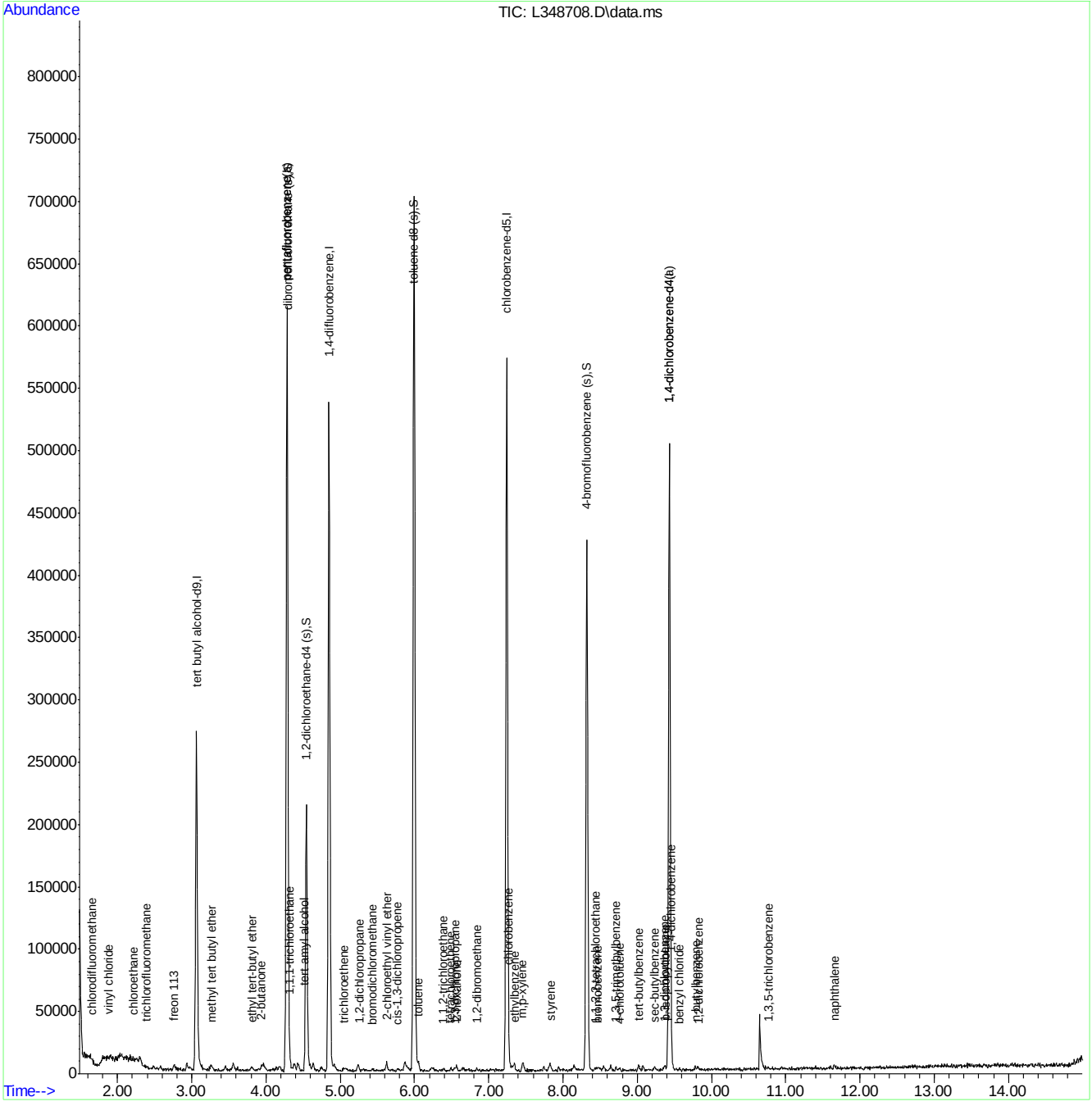
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
107) sec-butylbenzene	9.234	105	2593	0.20	ug/L		91
108) 1,3-dichlorobenzene	9.365	146	945	0.17	ug/L		87
109) p-isopropyltoluene	9.375	119	2082	0.21	ug/L	#	65
110) 1,4-dichlorobenzene	9.458	146	1210	0.24	ug/L		77
112) 1,2-dichlorobenzene	9.821	146	1052	0.21	ug/L	#	69
113) n-butylbenzene	9.785	92	979	0.18	ug/L		84
115) 1,3,5-trichlorobenzene	10.764	180	661	0.17	ug/L	#	60
118) naphthalene	11.656	128	1802	0.17	ug/L		71
121) benzyl chloride	9.570	91	1720	0.21	ug/L		60

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10548\
Data File : L348708.D
Acq On : 27 Oct 2022 1:55 am
Operator : PrashanS
Sample : IC10548-0.2
Misc : MS63290,VL10548,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 27 19:00:31 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Oct 27 08:49:04 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10548\
Data File : L348709.D
Acq On : 27 Oct 2022 2:18 am
Operator : PrashanS
Sample : IC10548-0.5
Misc : MS63290,VL10548,5,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 27 19:02:13 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Oct 27 08:49:04 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	3.066	65	284878	500.00	ug/L		0.00
5) pentafluorobenzene	4.282	168	252162	50.00	ug/L		0.00
51) 1,4-difluorobenzene	4.850	114	348592	50.00	ug/L		0.00
72) chlorobenzene-d5	7.241	117	312395	50.00	ug/L		0.00
95) 1,4-dichlorobenzene-d4	9.433	152	136984	50.00	ug/L		0.00
123) pentafluorobenzene(a)	4.282	168	252588	50.00	ug/L		0.00
127) 1,4-dichlorobenzene-d4(a)	9.433	152	136985	50.00	ug/L		0.00
System Monitoring Compounds							
43) dibromofluoromethane (s)	4.292	113	102329	46.66	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 93.32%				
52) 1,2-dichloroethane-d4 (s)	4.545	65	125090	55.11	ug/L		0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 110.22%				
73) toluene-d8 (s)	5.996	98	426828	54.85	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 109.70%				
96) 4-bromofluorobenzene (s)	8.322	95	150976	46.36	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 92.72%				
Target Compounds							Qvalue
3) ethanol	2.488	45	4326	55.44	ug/L		92
4) tertiary butyl alcohol	3.124	59	2423	2.78	ug/L		87
6) chlorodifluoromethane	1.654	51	2418	0.48	ug/L	#	75
7) dichlorodifluoromethane	1.635	85	2441	0.38	ug/L		84
8) chloromethane	1.799	50	2347	0.50	ug/L		69
9) vinyl chloride	1.882	62	2218	0.45	ug/L		85
10) 1,3-butadiene	1.908	54	1532	0.45	ug/L		81
12) chloroethane	2.212	64	1287	0.52	ug/L		57
13) trichlorofluoromethane	2.395	101	2309	0.43	ug/L		87
14) ethyl ether	2.575	74	1244	0.60	ug/L	#	59
16) freon 113	2.764	151	1247	0.52	ug/L	#	54
23) methylene chloride	3.095	84	1711	0.55	ug/L		86
24) methyl acetate	2.976	74	387	0.42	ug/L	#	78
25) methyl tert butyl ether	3.265	73	5013	0.53	ug/L		95
27) hexane	3.454	57	3155	0.60	ug/L		79
29) ethyl tert-butyl ether	3.811	59	5985	0.56	ug/L		90
30) 2-butanone	3.932	72	1733	2.36	ug/L	#	68
33) acrylonitrile	3.243	53	1006	0.46	ug/L		80
34) vinyl acetate	3.551	86	375	0.45	ug/L	#	1
35) ethyl acetate	3.942	45	373	0.44	ug/L	#	1
40) bromochloromethane	4.131	128	685	0.49	ug/L	#	57
41) tetrahydrofuran	4.131	72	438	0.54	ug/L	#	48
44) methacrylonitrile	4.093	67	1190	0.57	ug/L	#	51
45) 1,1,1-trichloroethane	4.321	97	2369	0.53	ug/L	#	32
47) 1,1-dichloropropene	4.433	75	2044	0.52	ug/L		87
48) carbon tetrachloride	4.427	117	1927	0.55	ug/L		91
56) benzene	4.581	78	6950	0.65	ug/L		97
57) heptane	4.754	57	1309	0.59	ug/L	#	73
59) trichloroethene	5.046	95	1688	0.59	ug/L		93
62) 2-chloroethyl vinyl ether	5.624	63	6202	2.93	ug/L		93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10548\
Data File : L348709.D
Acq On : 27 Oct 2022 2:18 am
Operator : PrashanS
Sample : IC10548-0.5
Misc : MS63290,VL10548,5,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 27 19:02:13 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Oct 27 08:49:04 2022
Response via : Initial Calibration

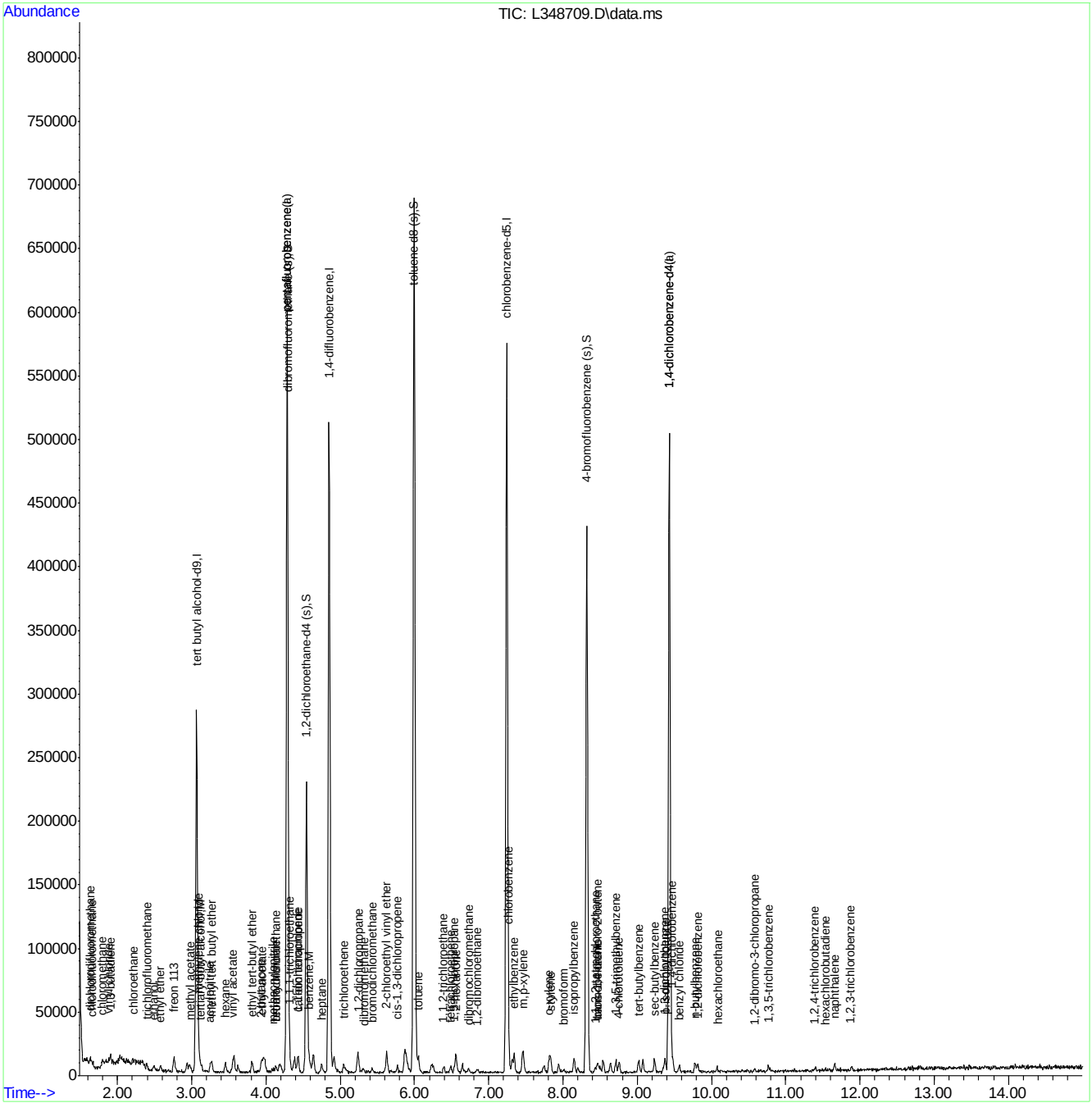
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
64)	1,2-dichloropropane	5.245	63	1751	0.59	ug/L		78
66)	dibromomethane	5.325	93	1066	0.64	ug/L	#	77
67)	bromodichloromethane	5.431	83	2353	0.59	ug/L		96
68)	cis-1,3-dichloropropene	5.771	75	2975	0.61	ug/L		88
74)	toluene	6.054	92	3757	0.57	ug/L		96
77)	1,1,2-trichloroethane	6.390	83	1280	0.56	ug/L		83
78)	2-hexanone	6.564	58	4840	2.53	ug/L		93
79)	tetrachloroethene	6.490	166	1599	0.58	ug/L		81
80)	1,3-dichloropropane	6.538	76	2609	0.62	ug/L		97
82)	dibromochloromethane	6.727	129	1652	0.62	ug/L		78
83)	1,2-dibromoethane	6.846	107	1720	0.61	ug/L		92
85)	chlorobenzene	7.267	112	3815	0.57	ug/L		86
87)	ethylbenzene	7.344	91	7257	0.65	ug/L		98
88)	m,p-xylene	7.459	106	5718	1.29	ug/L		82
89)	o-xylene	7.815	106	2562	0.56	ug/L		86
91)	styrene	7.828	104	4470	0.60	ug/L		67
92)	bromoform	8.008	173	1226	0.59	ug/L		74
93)	isopropylbenzene	8.146	105	6935	0.58	ug/L		87
97)	bromobenzene	8.470	156	1599	0.53	ug/L	#	58
98)	1,1,2,2-tetrachloroethane	8.438	83	2375	0.52	ug/L		68
99)	trans-1,4-dichloro-2-b...	8.463	53	634	0.52	ug/L	#	42
103)	4-chlorotoluene	8.752	126	1530	0.56	ug/L	#	51
104)	1,3,5-trimethylbenzene	8.714	105	5587	0.55	ug/L		86
105)	tert-butylbenzene	9.022	119	4496	0.52	ug/L		89
107)	sec-butylbenzene	9.237	105	7161	0.56	ug/L		86
108)	1,3-dichlorobenzene	9.365	146	2661	0.50	ug/L		89
109)	p-isopropyltoluene	9.378	119	5597	0.57	ug/L		86
110)	1,4-dichlorobenzene	9.461	146	2645	0.53	ug/L		95
112)	1,2-dichlorobenzene	9.814	146	2490	0.51	ug/L		79
113)	n-butylbenzene	9.776	92	2720	0.51	ug/L	#	65
114)	1,2-dibromo-3-chloropr...	10.578	157	590	0.47	ug/L	#	65
115)	1,3,5-trichlorobenzene	10.771	180	1744	0.46	ug/L	#	59
116)	1,2,4-trichlorobenzene	11.390	180	1362	0.41	ug/L		80
117)	hexachlorobutadiene	11.538	225	666	0.52	ug/L	#	18
118)	naphthalene	11.656	128	5333	0.51	ug/L		90
119)	1,2,3-trichlorobenzene	11.874	180	1326	0.44	ug/L	#	47
120)	hexachloroethane	10.084	119	927	0.46	ug/L	#	58
121)	benzyl chloride	9.567	91	4487	0.56	ug/L		91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10548\
Data File : L348709.D
Acq On : 27 Oct 2022 2:18 am
Operator : PrashanS
Sample : IC10548-0.5
Misc : MS63290,VL10548,5,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 27 19:02:13 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Oct 27 08:49:04 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10548\
Data File : L348710.D
Acq On : 27 Oct 2022 2:41 am
Operator : PrashanS
Sample : IC10548-1
Misc : MS63290,VL10548,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 28 17:51:15 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Oct 27 08:49:04 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	3.063	65	268266	500.00	ug/L		0.00
5) pentafluorobenzene	4.279	168	252786	50.00	ug/L		0.00
51) 1,4-difluorobenzene	4.847	114	347413	50.00	ug/L		0.00
72) chlorobenzene-d5	7.238	117	307527	50.00	ug/L		0.00
95) 1,4-dichlorobenzene-d4	9.433	152	132401	50.00	ug/L		0.00
123) pentafluorobenzene(a)	4.279	168	253888	50.00	ug/L		0.00
127) 1,4-dichlorobenzene-d4(a)	9.433	152	132401	50.00	ug/L		0.00
System Monitoring Compounds							
43) dibromofluoromethane (s)	4.289	113	101426	46.13	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 92.26%				
52) 1,2-dichloroethane-d4 (s)	4.542	65	120163	53.12	ug/L		0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 106.24%				
73) toluene-d8 (s)	5.993	98	426929	55.73	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 111.46%				
96) 4-bromofluorobenzene (s)	8.319	95	149376	47.46	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 94.92%				
Target Compounds							Qvalue
2) 1,4-dioxane	5.284	88	1440	26.89	ug/L	#	61
3) ethanol	2.482	45	8275	112.62	ug/L		88
4) tertiary butyl alcohol	3.118	59	3741	4.56	ug/L		80
6) chlorodifluoromethane	1.657	51	5413	1.06	ug/L	#	86
7) dichlorodifluoromethane	1.635	85	5576	0.86	ug/L		95
8) chloromethane	1.795	50	4303	0.92	ug/L		80
9) vinyl chloride	1.876	62	4727	0.95	ug/L		92
10) 1,3-butadiene	1.911	54	3613	1.07	ug/L		92
12) chloroethane	2.213	64	2526	1.02	ug/L		95
13) trichlorofluoromethane	2.392	101	5007	0.92	ug/L		93
14) ethyl ether	2.578	74	1976	0.95	ug/L	#	76
16) freon 113	2.748	151	2417	1.01	ug/L		89
17) 1,1-dichloroethene	2.761	96	2910	1.06	ug/L	#	72
18) acetone	2.771	58	3186	4.65	ug/L	#	73
22) carbon disulfide	2.935	76	11932	1.33	ug/L		95
23) methylene chloride	3.092	84	3238	1.04	ug/L		77
24) methyl acetate	2.980	74	863	0.92	ug/L		95
25) methyl tert butyl ether	3.255	73	10009	1.05	ug/L		91
26) trans-1,2-dichloroethene	3.278	96	3487	1.22	ug/L		89
27) hexane	3.451	57	5424	1.02	ug/L		85
29) ethyl tert-butyl ether	3.807	59	11518	1.08	ug/L		91
30) 2-butanone	3.936	72	2929	3.97	ug/L	#	58
31) 1,1-dichloroethane	3.567	63	6025	1.09	ug/L		90
32) chloroprene	3.618	53	5524	1.12	ug/L		79
33) acrylonitrile	3.236	53	2201	1.00	ug/L		85
34) vinyl acetate	3.544	86	720	0.85	ug/L	#	1
36) 2,2-dichloropropane	3.968	77	5092	1.21	ug/L		95
37) cis-1,2-dichloroethene	3.958	96	3214	1.05	ug/L	#	63
39) methyl acrylate	3.994	85	785	1.12	ug/L	#	1
40) bromochloromethane	4.122	128	1293	0.93	ug/L		84

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10548\
Data File : L348710.D
Acq On : 27 Oct 2022 2:41 am
Operator : PrashanS
Sample : IC10548-1
Misc : MS63290,VL10548,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 28 17:51:15 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Oct 27 08:49:04 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) tetrahydrofuran	4.135	72	777	0.96	ug/L	#	52
42) chloroform	4.180	83	6459	1.23	ug/L		91
44) methacrylonitrile	4.090	67	2347	1.12	ug/L		93
45) 1,1,1-trichloroethane	4.314	97	4857	1.09	ug/L	#	70
46) cyclohexane	4.382	84	5111	1.10	ug/L		83
47) 1,1-dichloropropene	4.424	75	4945	1.25	ug/L		90
48) carbon tetrachloride	4.433	117	3916	1.11	ug/L		99
49) isopropyl acetate	4.545	87	1026	1.10	ug/L	#	45
56) benzene	4.571	78	12588	1.17	ug/L		98
57) heptane	4.744	57	2538	1.15	ug/L		90
58) 1,2-dichloroethane	4.597	62	4466	1.24	ug/L		83
59) trichloroethene	5.040	95	3183	1.11	ug/L		79
61) 2-nitropropane	5.595	41	1612	1.19	ug/L		87
62) 2-chloroethyl vinyl ether	5.620	63	12285	5.82	ug/L		94
63) methyl methacrylate	5.235	100	1248	1.15	ug/L	#	46
64) 1,2-dichloropropane	5.239	63	3421	1.16	ug/L		83
65) methylcyclohexane	5.229	83	6132	1.17	ug/L		75
66) dibromomethane	5.303	93	1967	1.18	ug/L		84
67) bromodichloromethane	5.431	83	4632	1.17	ug/L		76
68) cis-1,3-dichloropropene	5.768	75	4853	0.99	ug/L		91
69) epichlorohydrin	5.681	57	3451	5.84	ug/L		82
70) 4-methyl-2-pentanone	5.868	58	9144	4.78	ug/L		90
74) toluene	6.044	92	8049	1.25	ug/L		79
75) trans-1,3-dichloropropene	6.217	75	5187	1.25	ug/L		91
77) 1,1,2-trichloroethane	6.394	83	2632	1.18	ug/L		95
78) 2-hexanone	6.554	58	10248	5.43	ug/L		97
79) tetrachloroethene	6.490	166	3372	1.24	ug/L		69
80) 1,3-dichloropropane	6.538	76	5182	1.25	ug/L		85
82) dibromochloromethane	6.731	129	3144	1.19	ug/L		88
83) 1,2-dibromoethane	6.843	107	3168	1.15	ug/L		87
85) chlorobenzene	7.270	112	7440	1.13	ug/L		90
86) 1,1,1,2-tetrachloroethane	7.334	131	2899	1.31	ug/L		71
87) ethylbenzene	7.340	91	14549	1.32	ug/L		99
88) m,p-xylene	7.453	106	10849	2.48	ug/L		90
89) o-xylene	7.812	106	5478	1.21	ug/L		91
91) styrene	7.828	104	9139	1.26	ug/L		90
92) bromoform	8.005	173	2456	1.19	ug/L		70
93) isopropylbenzene	8.146	105	14678	1.26	ug/L		88
94) cis-1,4-dichloro-2-butene	8.197	88	1176	0.89	ug/L	#	80
97) bromobenzene	8.464	156	3232	1.11	ug/L	#	69
98) 1,1,2,2-tetrachloroethane	8.428	83	4974	1.12	ug/L		86
99) trans-1,4-dichloro-2-b...	8.467	53	1068	0.91	ug/L	#	65
100) 1,2,3-trichloropropane	8.499	110	1285	1.06	ug/L	#	39
101) n-propylbenzene	8.541	91	15007	1.09	ug/L		91
102) 2-chlorotoluene	8.637	126	2972	1.08	ug/L		94
103) 4-chlorotoluene	8.759	126	3006	1.14	ug/L	#	66
104) 1,3,5-trimethylbenzene	8.707	105	11006	1.13	ug/L		82
105) tert-butylbenzene	9.015	119	9123	1.08	ug/L		87
106) 1,2,4-trimethylbenzene	9.076	105	11156	1.14	ug/L		98
107) sec-butylbenzene	9.234	105	13624	1.10	ug/L		95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10548\
Data File : L348710.D
Acq On : 27 Oct 2022 2:41 am
Operator : PrashanS
Sample : IC10548-1
Misc : MS63290,VL10548,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 28 17:51:15 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Oct 27 08:49:04 2022
Response via : Initial Calibration

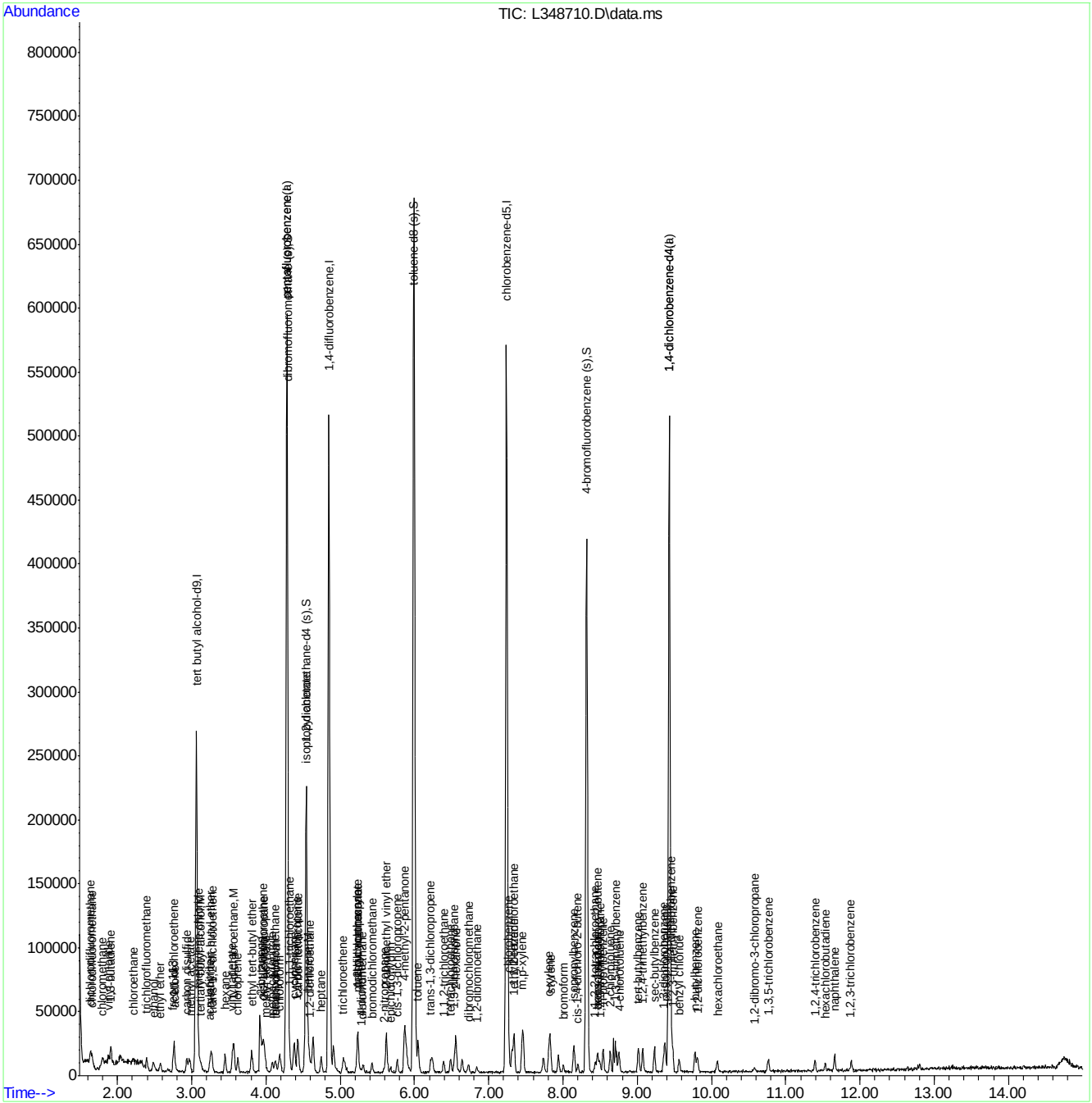
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
108) 1,3-dichlorobenzene	9.359	146	5696	1.10	ug/L		99
109) p-isopropyltoluene	9.378	119	10784	1.15	ug/L		96
110) 1,4-dichlorobenzene	9.458	146	5010	1.04	ug/L		81
111) 1,2,3-trimethylbenzene	9.484	105	11015	1.20	ug/L		84
112) 1,2-dichlorobenzene	9.811	146	5120	1.09	ug/L		91
113) n-butylbenzene	9.773	92	5015	0.97	ug/L	#	73
114) 1,2-dibromo-3-chloropr...	10.581	157	946	0.78	ug/L	#	75
115) 1,3,5-trichlorobenzene	10.768	180	3088	0.84	ug/L		88
116) 1,2,4-trichlorobenzene	11.393	180	2709	0.85	ug/L		98
117) hexachlorobutadiene	11.534	225	1418	1.15	ug/L	#	69
118) naphthalene	11.656	128	9891	0.97	ug/L		89
119) 1,2,3-trichlorobenzene	11.871	180	2792	0.96	ug/L	#	64
120) hexachloroethane	10.081	119	1886	0.96	ug/L		82
121) benzyl chloride	9.561	91	7643	0.99	ug/L		87

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10548\
Data File : L348710.D
Acq On : 27 Oct 2022 2:41 am
Operator : PrashanS
Sample : IC10548-1
Misc : MS63290,VL10548,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 28 17:51:15 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Oct 27 08:49:04 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10548\
Data File : L348711.D
Acq On : 27 Oct 2022 3:04 am
Operator : PrashanS
Sample : IC10548-2
Misc : MS63290,VL10548,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 27 19:04:02 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Oct 27 08:49:04 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	3.066	65	287293	500.00	ug/L		0.00
5) pentafluorobenzene	4.285	168	251349	50.00	ug/L		0.00
51) 1,4-difluorobenzene	4.850	114	353916	50.00	ug/L		0.00
72) chlorobenzene-d5	7.241	117	315209	50.00	ug/L		0.00
95) 1,4-dichlorobenzene-d4	9.433	152	135822	50.00	ug/L		0.00
123) pentafluorobenzene(a)	4.285	168	250900	50.00	ug/L		0.00
127) 1,4-dichlorobenzene-d4(a)	9.433	152	135844	50.00	ug/L		0.00
System Monitoring Compounds							
43) dibromofluoromethane (s)	4.292	113	102152	46.73	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 93.46%				
52) 1,2-dichloroethane-d4 (s)	4.545	65	129125	56.03	ug/L		0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 112.06%				
73) toluene-d8 (s)	5.996	98	425384	54.17	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 108.34%				
96) 4-bromofluorobenzene (s)	8.322	95	153826	47.64	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 95.28%				
Target Compounds							Qvalue
2) 1,4-dioxane	5.283	88	3093	53.93	ug/L		97
3) ethanol	2.485	45	15355	195.14	ug/L		97
4) tertiary butyl alcohol	3.127	59	8866	10.09	ug/L		92
6) chlorodifluoromethane	1.661	51	9388	1.85	ug/L	#	100
7) dichlorodifluoromethane	1.638	85	10960	1.70	ug/L		89
8) chloromethane	1.802	50	8465	1.81	ug/L		89
9) vinyl chloride	1.882	62	8743	1.77	ug/L		95
10) 1,3-butadiene	1.911	54	6628	1.97	ug/L		98
11) bromomethane	2.139	96	1256	1.12	ug/L		78
12) chloroethane	2.216	64	4843	1.97	ug/L		92
13) trichlorofluoromethane	2.402	101	10039	1.86	ug/L		76
14) ethyl ether	2.585	74	4262	2.06	ug/L		80
15) acrolein	2.687	56	2189	2.06	ug/L		92
16) freon 113	2.758	151	4636	1.94	ug/L		92
17) 1,1-dichloroethene	2.761	96	5980	2.19	ug/L		85
18) acetone	2.774	58	5348	7.85	ug/L		99
19) acetonitrile	2.963	40	7290	19.24	ug/L		97
20) iodomethane	2.877	142	1624	0.85	ug/L		81
22) carbon disulfide	2.935	76	20057	2.25	ug/L		96
23) methylene chloride	3.095	84	6707	2.16	ug/L		82
24) methyl acetate	2.979	74	1888	2.03	ug/L	#	56
25) methyl tert butyl ether	3.259	73	20012	2.11	ug/L		89
26) trans-1,2-dichloroethene	3.275	96	5864	2.07	ug/L		86
27) hexane	3.454	57	11521	2.18	ug/L		91
28) di-isopropyl ether	3.567	45	23612	2.27	ug/L		90
29) ethyl tert-butyl ether	3.814	59	22935	2.17	ug/L		95
30) 2-butanone	3.929	72	5856	7.98	ug/L	#	74
31) 1,1-dichloroethane	3.576	63	11680	2.12	ug/L		88
32) chloroprene	3.621	53	10682	2.18	ug/L		96
33) acrylonitrile	3.243	53	4084	1.87	ug/L		81

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10548\
Data File : L348711.D
Acq On : 27 Oct 2022 3:04 am
Operator : PrashanS
Sample : IC10548-2
Misc : MS63290,VL10548,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 27 19:04:02 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Oct 27 08:49:04 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
34) vinyl acetate	3.544	86	1777	2.12	ug/L	#	70
35) ethyl acetate	3.945	45	2009	2.39	ug/L	#	58
36) 2,2-dichloropropane	3.968	77	10177	2.43	ug/L		91
37) cis-1,2-dichloroethene	3.965	96	7186	2.36	ug/L		78
39) methyl acrylate	3.997	85	1731	2.48	ug/L	#	38
40) bromochloromethane	4.125	128	3056	2.20	ug/L		78
41) tetrahydrofuran	4.138	72	1702	2.11	ug/L	#	78
42) chloroform	4.180	83	12192	2.34	ug/L		92
44) methacrylonitrile	4.093	67	4276	2.06	ug/L	#	78
45) 1,1,1-trichloroethane	4.324	97	8704	1.97	ug/L		97
46) cyclohexane	4.379	84	9394	2.04	ug/L		87
47) 1,1-dichloropropene	4.427	75	8170	2.08	ug/L		94
48) carbon tetrachloride	4.433	117	7575	2.16	ug/L		85
49) isopropyl acetate	4.545	87	1568	1.69	ug/L	#	75
50) tert amyl alcohol	4.520	55	3958	13.16	ug/L	#	80
53) tert-amyl methyl ether	4.635	73	20927	2.42	ug/L		94
54) 2,2,4-trimethylpentane	4.638	57	22713	2.39	ug/L		86
55) n-butyl alcohol	4.908	56	21360	106.76	ug/L		96
56) benzene	4.577	78	25288	2.31	ug/L		94
57) heptane	4.751	57	4834	2.14	ug/L		87
58) 1,2-dichloroethane	4.597	62	8422	2.30	ug/L		94
59) trichloroethene	5.043	95	5683	1.94	ug/L		91
60) ethyl acrylate	5.062	55	12519	2.19	ug/L		93
61) 2-nitropropane	5.595	41	3037	2.20	ug/L	#	61
62) 2-chloroethyl vinyl ether	5.627	63	25652	11.93	ug/L		95
63) methyl methacrylate	5.248	100	2183	1.98	ug/L	#	71
64) 1,2-dichloropropane	5.242	63	7169	2.39	ug/L		88
65) methylcyclohexane	5.229	83	10778	2.02	ug/L		98
66) dibromomethane	5.309	93	4150	2.44	ug/L		83
67) bromodichloromethane	5.428	83	8562	2.12	ug/L		94
68) cis-1,3-dichloropropene	5.771	75	11042	2.22	ug/L		91
69) epichlorohydrin	5.681	57	6705	11.13	ug/L		87
70) 4-methyl-2-pentanone	5.871	58	18754	9.62	ug/L		98
71) 3-methyl-1-butanol	5.890	70	8790	48.29	ug/L		94
74) toluene	6.054	92	14598	2.21	ug/L		86
75) trans-1,3-dichloropropene	6.220	75	9600	2.25	ug/L		90
76) ethyl methacrylate	6.243	69	10173	2.27	ug/L		84
77) 1,1,2-trichloroethane	6.394	83	5142	2.24	ug/L		91
78) 2-hexanone	6.554	58	18591	9.62	ug/L		87
79) tetrachloroethene	6.487	166	6556	2.36	ug/L		87
80) 1,3-dichloropropane	6.541	76	10286	2.43	ug/L		93
81) butyl acetate	6.644	56	6327	2.24	ug/L		94
82) dibromochloromethane	6.724	129	5818	2.15	ug/L		94
83) 1,2-dibromoethane	6.843	107	6280	2.22	ug/L		93
84) n-butyl ether	7.315	57	27443	2.27	ug/L		96
85) chlorobenzene	7.273	112	14331	2.12	ug/L		98
86) 1,1,1,2-tetrachloroethane	7.340	131	4973	2.20	ug/L		94
87) ethylbenzene	7.344	91	28788	2.56	ug/L		89
88) m,p-xylene	7.456	106	21320	4.75	ug/L		93
89) o-xylene	7.812	106	10183	2.20	ug/L		95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10548\
Data File : L348711.D
Acq On : 27 Oct 2022 3:04 am
Operator : PrashanS
Sample : IC10548-2
Misc : MS63290,VL10548,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 27 19:04:02 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Oct 27 08:49:04 2022
Response via : Initial Calibration

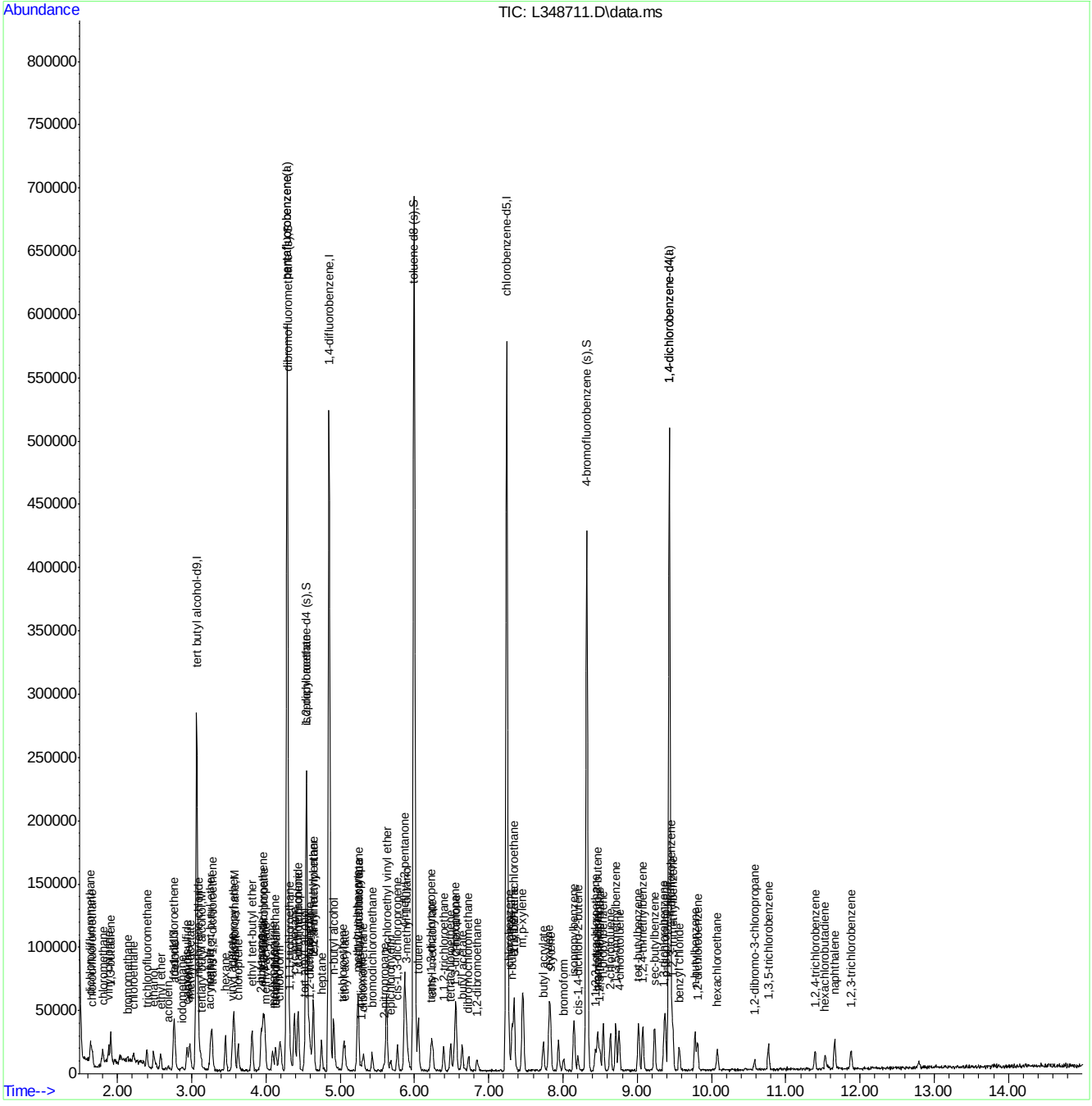
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
90)	butyl acrylate	7.738	55	15807	2.25	ug/L		95
91)	styrene	7.835	104	17284	2.32	ug/L		93
92)	bromoform	8.005	173	4554	2.16	ug/L		90
93)	isopropylbenzene	8.149	105	28082	2.34	ug/L		97
94)	cis-1,4-dichloro-2-butene	8.207	88	2474	1.82	ug/L		90
97)	bromobenzene	8.463	156	6183	2.06	ug/L	#	76
98)	1,1,2,2-tetrachloroethane	8.435	83	8793	1.94	ug/L		87
99)	trans-1,4-dichloro-2-b...	8.470	53	2302	1.91	ug/L		85
100)	1,2,3-trichloropropane	8.492	110	2528	2.04	ug/L		87
101)	n-propylbenzene	8.544	91	31235	2.22	ug/L		93
102)	2-chlorotoluene	8.640	126	5747	2.03	ug/L		93
103)	4-chlorotoluene	8.759	126	6608	2.44	ug/L	#	53
104)	1,3,5-trimethylbenzene	8.714	105	21197	2.12	ug/L		88
105)	tert-butylbenzene	9.015	119	18338	2.12	ug/L		97
106)	1,2,4-trimethylbenzene	9.076	105	21473	2.15	ug/L		94
107)	sec-butylbenzene	9.234	105	25722	2.02	ug/L		91
108)	1,3-dichlorobenzene	9.359	146	10174	1.91	ug/L		93
109)	p-isopropyltoluene	9.381	119	20897	2.16	ug/L		94
110)	1,4-dichlorobenzene	9.458	146	10571	2.14	ug/L		91
111)	1,2,3-trimethylbenzene	9.477	105	20420	2.17	ug/L		92
112)	1,2-dichlorobenzene	9.818	146	10304	2.13	ug/L		88
113)	n-butylbenzene	9.779	92	9683	1.83	ug/L		88
114)	1,2-dibromo-3-chloropr...	10.581	157	2462	1.97	ug/L		86
115)	1,3,5-trichlorobenzene	10.767	180	6474	1.71	ug/L	#	73
116)	1,2,4-trichlorobenzene	11.393	180	5071	1.55	ug/L		91
117)	hexachlorobutadiene	11.528	225	2428	1.91	ug/L		93
118)	naphthalene	11.663	128	19305	1.85	ug/L		95
119)	1,2,3-trichlorobenzene	11.878	180	5257	1.76	ug/L		86
120)	hexachloroethane	10.078	119	3164	1.57	ug/L		85
121)	benzyl chloride	9.567	91	15061	1.89	ug/L		90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10548\
Data File : L348711.D
Acq On : 27 Oct 2022 3:04 am
Operator : PrashanS
Sample : IC10548-2
Misc : MS63290,VL10548,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 27 19:04:02 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Oct 27 08:49:04 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10548\
Data File : L348712.D
Acq On : 27 Oct 2022 3:27 am
Operator : PrashanS
Sample : IC10548-4
Misc : MS63290,VL10548,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 27 19:04:07 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Oct 27 08:49:04 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	3.066	65	279687	500.00	ug/L		0.00
5) pentafluorobenzene	4.282	168	245159	50.00	ug/L		0.00
51) 1,4-difluorobenzene	4.850	114	343111	50.00	ug/L		0.00
72) chlorobenzene-d5	7.244	117	302187	50.00	ug/L		0.00
95) 1,4-dichlorobenzene-d4	9.433	152	131580	50.00	ug/L		0.00
123) pentafluorobenzene(a)	4.282	168	246007	50.00	ug/L		0.00
127) 1,4-dichlorobenzene-d4(a)	9.433	152	131599	50.00	ug/L		0.00
System Monitoring Compounds							
43) dibromofluoromethane (s)	4.292	113	99117	46.49	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 92.98%				
52) 1,2-dichloroethane-d4 (s)	4.545	65	120490	53.93	ug/L		0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 107.86%				
73) toluene-d8 (s)	5.996	98	418100	55.54	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 111.08%				
96) 4-bromofluorobenzene (s)	8.319	95	145910	46.65	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 93.30%				
Target Compounds							Qvalue
2) 1,4-dioxane	5.280	88	5292	94.78	ug/L		99
3) ethanol	2.488	45	29849	389.66	ug/L		100
4) tertiary butyl alcohol	3.124	59	17059	19.94	ug/L		96
6) chlorodifluoromethane	1.657	51	18166	3.67	ug/L	#	96
7) dichlorodifluoromethane	1.638	85	21876	3.47	ug/L		91
8) chloromethane	1.802	50	16971	3.73	ug/L		90
9) vinyl chloride	1.879	62	17271	3.58	ug/L		97
10) 1,3-butadiene	1.911	54	13639	4.15	ug/L		98
11) bromomethane	2.139	96	2943	2.68	ug/L		86
12) chloroethane	2.216	64	8907	3.71	ug/L		87
13) trichlorofluoromethane	2.402	101	18970	3.61	ug/L		97
14) ethyl ether	2.588	74	7961	3.95	ug/L		87
15) acrolein	2.691	56	3832	3.70	ug/L		87
16) freon 113	2.758	151	9437	4.06	ug/L		95
17) 1,1-dichloroethene	2.761	96	11114	4.16	ug/L		95
18) acetone	2.777	58	10479	15.76	ug/L		99
19) acetonitrile	2.967	40	15764	42.65	ug/L		82
20) iodomethane	2.877	142	3457	1.85	ug/L		87
21) iso-butyl alcohol	4.433	43	14703	47.73	ug/L		90
22) carbon disulfide	2.938	76	36179	4.16	ug/L		96
23) methylene chloride	3.095	84	11408	3.77	ug/L		85
24) methyl acetate	2.983	74	3623	4.00	ug/L	#	88
25) methyl tert butyl ether	3.262	73	36630	3.96	ug/L		93
26) trans-1,2-dichloroethene	3.281	96	11613	4.20	ug/L		93
27) hexane	3.454	57	20445	3.97	ug/L		94
28) di-isopropyl ether	3.567	45	43849	4.32	ug/L		95
29) ethyl tert-butyl ether	3.811	59	41600	4.03	ug/L		90
30) 2-butanone	3.936	72	10636	14.87	ug/L	#	70
31) 1,1-dichloroethane	3.576	63	22211	4.14	ug/L		92
32) chloroprene	3.628	53	19911	4.17	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10548\
Data File : L348712.D
Acq On : 27 Oct 2022 3:27 am
Operator : PrashanS
Sample : IC10548-4
Misc : MS63290,VL10548,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 27 19:04:07 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Oct 27 08:49:04 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
33) acrylonitrile	3.246	53	7469	3.51	ug/L		86
34) vinyl acetate	3.554	86	2913	3.56	ug/L	#	84
35) ethyl acetate	3.945	45	3940	4.80	ug/L	#	56
36) 2,2-dichloropropane	3.968	77	17783	4.36	ug/L		96
37) cis-1,2-dichloroethene	3.965	96	12619	4.24	ug/L		96
38) propionitrile	3.981	54	33665	44.98	ug/L		83
39) methyl acrylate	3.981	85	2927	4.29	ug/L	#	83
40) bromochloromethane	4.131	128	5538	4.09	ug/L	#	82
41) tetrahydrofuran	4.147	72	3244	4.12	ug/L		85
42) chloroform	4.186	83	21055	4.14	ug/L		83
44) methacrylonitrile	4.087	67	7859	3.88	ug/L		88
45) 1,1,1-trichloroethane	4.327	97	16346	3.79	ug/L		90
46) cyclohexane	4.382	84	18929	4.20	ug/L		96
47) 1,1-dichloropropene	4.430	75	15912	4.16	ug/L		94
48) carbon tetrachloride	4.436	117	13919	4.08	ug/L		93
49) isopropyl acetate	4.552	87	3779	4.18	ug/L	#	87
50) tert amyl alcohol	4.523	55	5919	20.17	ug/L		95
53) tert-amyl methyl ether	4.638	73	36495	4.35	ug/L		96
54) 2,2,4-trimethylpentane	4.638	57	41961	4.55	ug/L		93
55) n-butyl alcohol	4.911	56	40866	210.68	ug/L		100
56) benzene	4.577	78	46433	4.38	ug/L		97
57) heptane	4.748	57	8854	4.05	ug/L		95
58) 1,2-dichloroethane	4.600	62	15188	4.29	ug/L		90
59) trichloroethene	5.049	95	11331	3.99	ug/L		96
60) ethyl acrylate	5.062	55	22984	4.14	ug/L		94
61) 2-nitropropane	5.595	41	4979	3.72	ug/L		89
62) 2-chloroethyl vinyl ether	5.627	63	47031	22.56	ug/L		98
63) methyl methacrylate	5.242	100	4586	4.29	ug/L		92
64) 1,2-dichloropropane	5.245	63	12300	4.24	ug/L		89
65) methylcyclohexane	5.232	83	21656	4.19	ug/L		96
66) dibromomethane	5.316	93	6725	4.08	ug/L		85
67) bromodichloromethane	5.434	83	15233	3.88	ug/L		89
68) cis-1,3-dichloropropene	5.771	75	19269	4.00	ug/L		89
69) epichlorohydrin	5.678	57	12670	21.70	ug/L		93
70) 4-methyl-2-pentanone	5.867	58	33735	17.84	ug/L		94
71) 3-methyl-1-butanol	5.893	70	15666	88.77	ug/L		92
74) toluene	6.054	92	27768	4.39	ug/L		91
75) trans-1,3-dichloropropene	6.220	75	16716	4.09	ug/L		94
76) ethyl methacrylate	6.243	69	19371	4.51	ug/L		90
77) 1,1,2-trichloroethane	6.391	83	9037	4.11	ug/L		87
78) 2-hexanone	6.554	58	35656	19.24	ug/L		93
79) tetrachloroethene	6.490	166	11690	4.39	ug/L		98
80) 1,3-dichloropropane	6.541	76	18857	4.64	ug/L		98
81) butyl acetate	6.644	56	12472	4.60	ug/L		81
82) dibromochloromethane	6.724	129	11687	4.51	ug/L		87
83) 1,2-dibromoethane	6.846	107	11203	4.13	ug/L		96
84) n-butyl ether	7.311	57	52072	4.50	ug/L		94
85) chlorobenzene	7.270	112	27783	4.28	ug/L		95
86) 1,1,1,2-tetrachloroethane	7.337	131	10192	4.70	ug/L		85
87) ethylbenzene	7.344	91	50917	4.72	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10548\
Data File : L348712.D
Acq On : 27 Oct 2022 3:27 am
Operator : PrashanS
Sample : IC10548-4
Misc : MS63290,VL10548,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 27 19:04:07 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Oct 27 08:49:04 2022
Response via : Initial Calibration

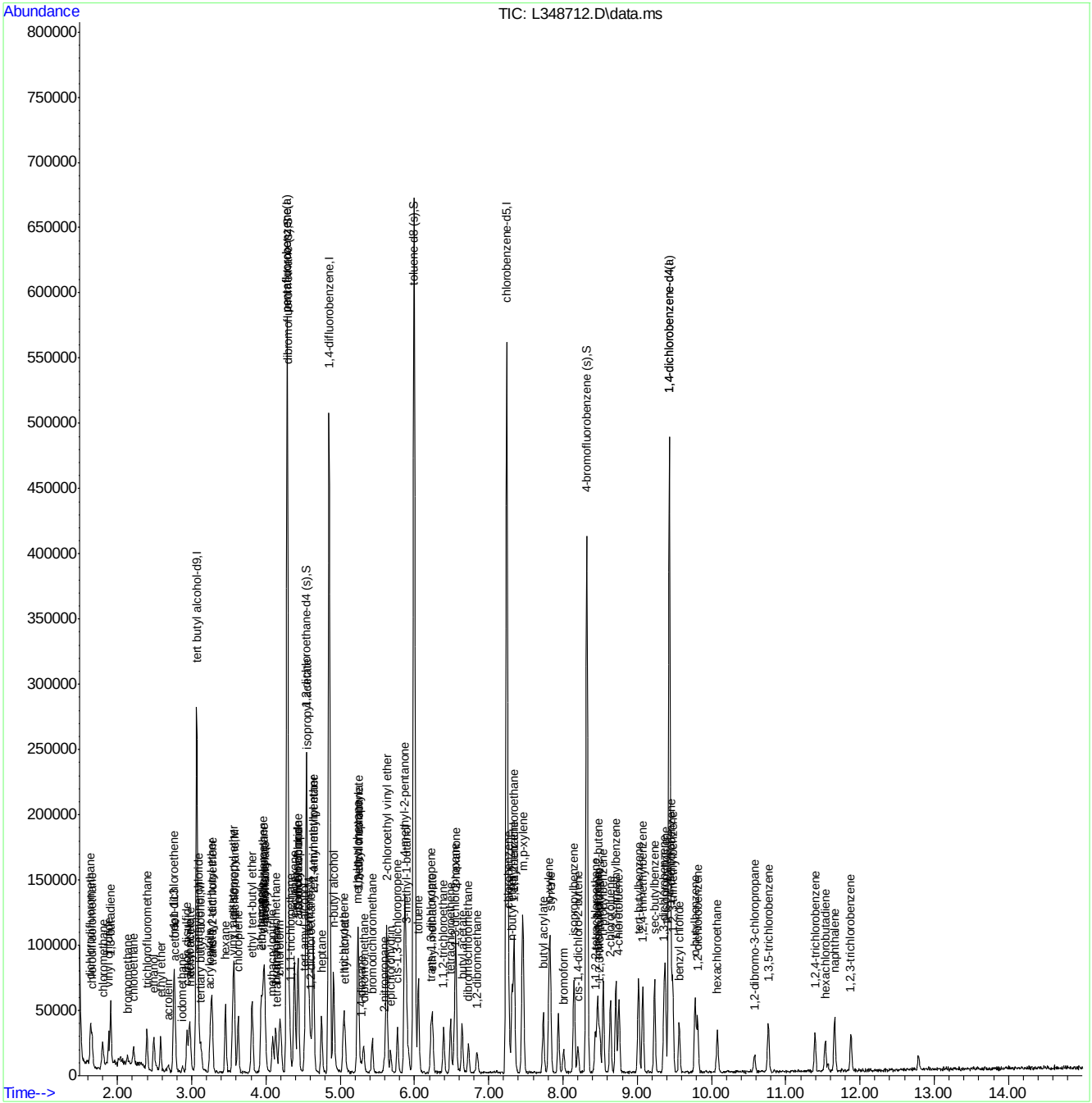
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
88)	m,p-xylene	7.459	106	39203	9.11	ug/L		94
89)	o-xylene	7.815	106	20761	4.68	ug/L		99
90)	butyl acrylate	7.735	55	27949	4.15	ug/L		98
91)	styrene	7.831	104	32292	4.52	ug/L		99
92)	bromoform	8.008	173	8428	4.17	ug/L		92
93)	isopropylbenzene	8.149	105	51865	4.52	ug/L		97
94)	cis-1,4-dichloro-2-butene	8.200	88	4966	3.82	ug/L		90
97)	bromobenzene	8.467	156	10966	3.77	ug/L		87
98)	1,1,2,2-tetrachloroethane	8.435	83	16581	3.77	ug/L		96
99)	trans-1,4-dichloro-2-b...	8.473	53	4280	3.67	ug/L		90
100)	1,2,3-trichloropropane	8.492	110	4841	4.03	ug/L		88
101)	n-propylbenzene	8.540	91	55990	4.11	ug/L		92
102)	2-chlorotoluene	8.643	126	10765	3.92	ug/L		92
103)	4-chlorotoluene	8.755	126	10816	4.12	ug/L	#	82
104)	1,3,5-trimethylbenzene	8.711	105	39467	4.07	ug/L		93
105)	tert-butylbenzene	9.019	119	33298	3.98	ug/L		93
106)	1,2,4-trimethylbenzene	9.073	105	38903	4.01	ug/L		93
107)	sec-butylbenzene	9.234	105	50123	4.07	ug/L		95
108)	1,3-dichlorobenzene	9.362	146	18859	3.66	ug/L		92
109)	p-isopropyltoluene	9.378	119	38302	4.09	ug/L		94
110)	1,4-dichlorobenzene	9.458	146	18540	3.87	ug/L		94
111)	1,2,3-trimethylbenzene	9.477	105	38048	4.17	ug/L		95
112)	1,2-dichlorobenzene	9.808	146	18098	3.87	ug/L		88
113)	n-butylbenzene	9.776	92	18785	3.66	ug/L		96
114)	1,2-dibromo-3-chloropr...	10.578	157	4346	3.60	ug/L	#	76
115)	1,3,5-trichlorobenzene	10.767	180	12822	3.51	ug/L		85
116)	1,2,4-trichlorobenzene	11.396	180	9779	3.08	ug/L		81
117)	hexachlorobutadiene	11.538	225	4633	3.77	ug/L	#	72
118)	naphthalene	11.660	128	34954	3.45	ug/L		96
119)	1,2,3-trichlorobenzene	11.875	180	9183	3.18	ug/L		92
120)	hexachloroethane	10.071	119	6873	3.53	ug/L	#	66
121)	benzyl chloride	9.567	91	28347	3.68	ug/L		96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10548\
Data File : L348712.D
Acq On : 27 Oct 2022 3:27 am
Operator : PrashanS
Sample : IC10548-4
Misc : MS63290,VL10548,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 27 19:04:07 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Oct 27 08:49:04 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10548\
Data File : L348713.D
Acq On : 27 Oct 2022 3:50 am
Operator : PrashanS
Sample : IC10548-8
Misc : MS63290,VL10548,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 27 08:49:30 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Oct 27 08:49:04 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	3.060	65	251783	500.00	ug/L		0.00
5) pentafluorobenzene	4.279	168	239569	50.00	ug/L		0.00
51) 1,4-difluorobenzene	4.847	114	336556	50.00	ug/L		0.00
72) chlorobenzene-d5	7.241	117	298907	50.00	ug/L		0.00
95) 1,4-dichlorobenzene-d4	9.433	152	125181	50.00	ug/L		0.00
123) pentafluorobenzene(a)	4.279	168	239853	50.00	ug/L		0.00
127) 1,4-dichlorobenzene-d4(a)	9.433	152	125145	50.00	ug/L		0.00
System Monitoring Compounds							
43) dibromofluoromethane (s)	4.289	113	98002	47.04	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 94.08%				
52) 1,2-dichloroethane-d4 (s)	4.542	65	121155	55.28	ug/L		0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 110.56%				
73) toluene-d8 (s)	5.993	98	409644	55.02	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 110.04%				
96) 4-bromofluorobenzene (s)	8.319	95	144151	48.44	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 96.88%				
Target Compounds							Qvalue
2) 1,4-dioxane	5.277	88	9519	189.38	ug/L		87
3) ethanol	2.489	45	54018	783.31	ug/L		94
4) tertiary butyl alcohol	3.118	59	30435	39.51	ug/L		97
6) chlorodifluoromethane	1.657	51	36555	7.57	ug/L	#	92
7) dichlorodifluoromethane	1.638	85	43224	7.02	ug/L		98
8) chloromethane	1.799	50	32152	7.22	ug/L		98
9) vinyl chloride	1.879	62	35028	7.44	ug/L		98
10) 1,3-butadiene	1.911	54	26650	8.29	ug/L		90
11) bromomethane	2.132	96	5954	5.56	ug/L		95
12) chloroethane	2.216	64	17344	7.40	ug/L		90
13) trichlorofluoromethane	2.396	101	38016	7.41	ug/L		96
14) ethyl ether	2.578	74	14951	7.58	ug/L		93
15) acrolein	2.681	56	7388	7.29	ug/L		98
16) freon 113	2.755	151	17242	7.59	ug/L		96
17) 1,1-dichloroethene	2.758	96	21216	8.13	ug/L		90
18) acetone	2.768	58	20511	31.57	ug/L		86
19) acetonitrile	2.964	40	28278	78.29	ug/L		92
20) iodomethane	2.874	142	8561	4.69	ug/L		87
21) iso-butyl alcohol	4.433	43	25586	85.00	ug/L		90
22) carbon disulfide	2.935	76	70370	8.28	ug/L		98
23) methylene chloride	3.085	84	23093	7.80	ug/L		99
24) methyl acetate	2.980	74	6701	7.57	ug/L		88
25) methyl tert butyl ether	3.256	73	73383	8.12	ug/L		99
26) trans-1,2-dichloroethene	3.275	96	21844	8.08	ug/L		94
27) hexane	3.448	57	40015	7.95	ug/L		97
28) di-isopropyl ether	3.560	45	83884	8.46	ug/L		98
29) ethyl tert-butyl ether	3.807	59	80657	7.99	ug/L		96
30) 2-butanone	3.929	72	21015	30.06	ug/L		90
31) 1,1-dichloroethane	3.570	63	45508	8.68	ug/L		94
32) chloroprene	3.618	53	38746	8.31	ug/L		95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10548\
Data File : L348713.D
Acq On : 27 Oct 2022 3:50 am
Operator : PrashanS
Sample : IC10548-8
Misc : MS63290,VL10548,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 27 08:49:30 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Oct 27 08:49:04 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
33) acrylonitrile	3.236	53	15826	7.62	ug/L		96
34) vinyl acetate	3.544	86	6073	7.60	ug/L	#	54
35) ethyl acetate	3.939	45	7082	8.82	ug/L	#	68
36) 2,2-dichloropropane	3.968	77	34905	8.76	ug/L		94
37) cis-1,2-dichloroethene	3.958	96	25391	8.73	ug/L		81
38) propionitrile	3.978	54	63808	87.25	ug/L		95
39) methyl acrylate	3.981	85	5994	9.00	ug/L		96
40) bromochloromethane	4.122	128	10763	8.13	ug/L		95
41) tetrahydrofuran	4.138	72	5942	7.72	ug/L	#	76
42) chloroform	4.176	83	40540	8.16	ug/L		97
44) methacrylonitrile	4.087	67	15612	7.88	ug/L		100
45) 1,1,1-trichloroethane	4.318	97	33063	7.84	ug/L		96
46) cyclohexane	4.375	84	36935	8.40	ug/L		97
47) 1,1-dichloropropene	4.424	75	32380	8.65	ug/L		92
48) carbon tetrachloride	4.433	117	27786	8.33	ug/L		97
49) isopropyl acetate	4.542	87	6887	7.79	ug/L	#	88
50) tert amyl alcohol	4.520	55	12188	42.51	ug/L		94
53) tert-amyl methyl ether	4.635	73	73883	8.97	ug/L		95
54) 2,2,4-trimethylpentane	4.635	57	81579	9.02	ug/L		95
55) n-butyl alcohol	4.902	56	75555	397.11	ug/L		93
56) benzene	4.574	78	92305	8.89	ug/L		98
57) heptane	4.744	57	17565	8.19	ug/L		96
58) 1,2-dichloroethane	4.597	62	30192	8.69	ug/L		92
59) trichloroethene	5.043	95	21712	7.79	ug/L		96
60) ethyl acrylate	5.062	55	46191	8.49	ug/L		95
61) 2-nitropropane	5.592	41	11059	8.43	ug/L		87
62) 2-chloroethyl vinyl ether	5.620	63	87578	42.82	ug/L		97
63) methyl methacrylate	5.242	100	8498	8.10	ug/L	#	89
64) 1,2-dichloropropane	5.242	63	25620	9.00	ug/L		84
65) methylcyclohexane	5.229	83	42971	8.48	ug/L		96
66) dibromomethane	5.309	93	13810	8.54	ug/L		86
67) bromodichloromethane	5.425	83	31721	8.24	ug/L		97
68) cis-1,3-dichloropropene	5.768	75	40417	8.55	ug/L		95
69) epichlorohydrin	5.672	57	24528	42.82	ug/L		93
70) 4-methyl-2-pentanone	5.868	58	65651	35.40	ug/L		94
71) 3-methyl-1-butanol	5.887	70	28958	167.28	ug/L		98
74) toluene	6.047	92	54999	8.79	ug/L		92
75) trans-1,3-dichloropropene	6.224	75	34996	8.65	ug/L		94
76) ethyl methacrylate	6.243	69	37836	8.91	ug/L		87
77) 1,1,2-trichloroethane	6.394	83	18629	8.57	ug/L		95
78) 2-hexanone	6.554	58	68529	37.39	ug/L		92
79) tetrachloroethene	6.487	166	21988	8.35	ug/L		95
80) 1,3-dichloropropane	6.538	76	35164	8.75	ug/L		99
81) butyl acetate	6.638	56	24130	9.00	ug/L		96
82) dibromochloromethane	6.724	129	22095	8.61	ug/L		97
83) 1,2-dibromoethane	6.843	107	22884	8.52	ug/L		95
84) n-butyl ether	7.312	57	103808	9.06	ug/L		98
85) chlorobenzene	7.267	112	54117	8.43	ug/L		97
86) 1,1,1,2-tetrachloroethane	7.337	131	18996	8.85	ug/L		92
87) ethylbenzene	7.344	91	99820	9.35	ug/L		95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10548\
Data File : L348713.D
Acq On : 27 Oct 2022 3:50 am
Operator : PrashanS
Sample : IC10548-8
Misc : MS63290,VL10548,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 27 08:49:30 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Oct 27 08:49:04 2022
Response via : Initial Calibration

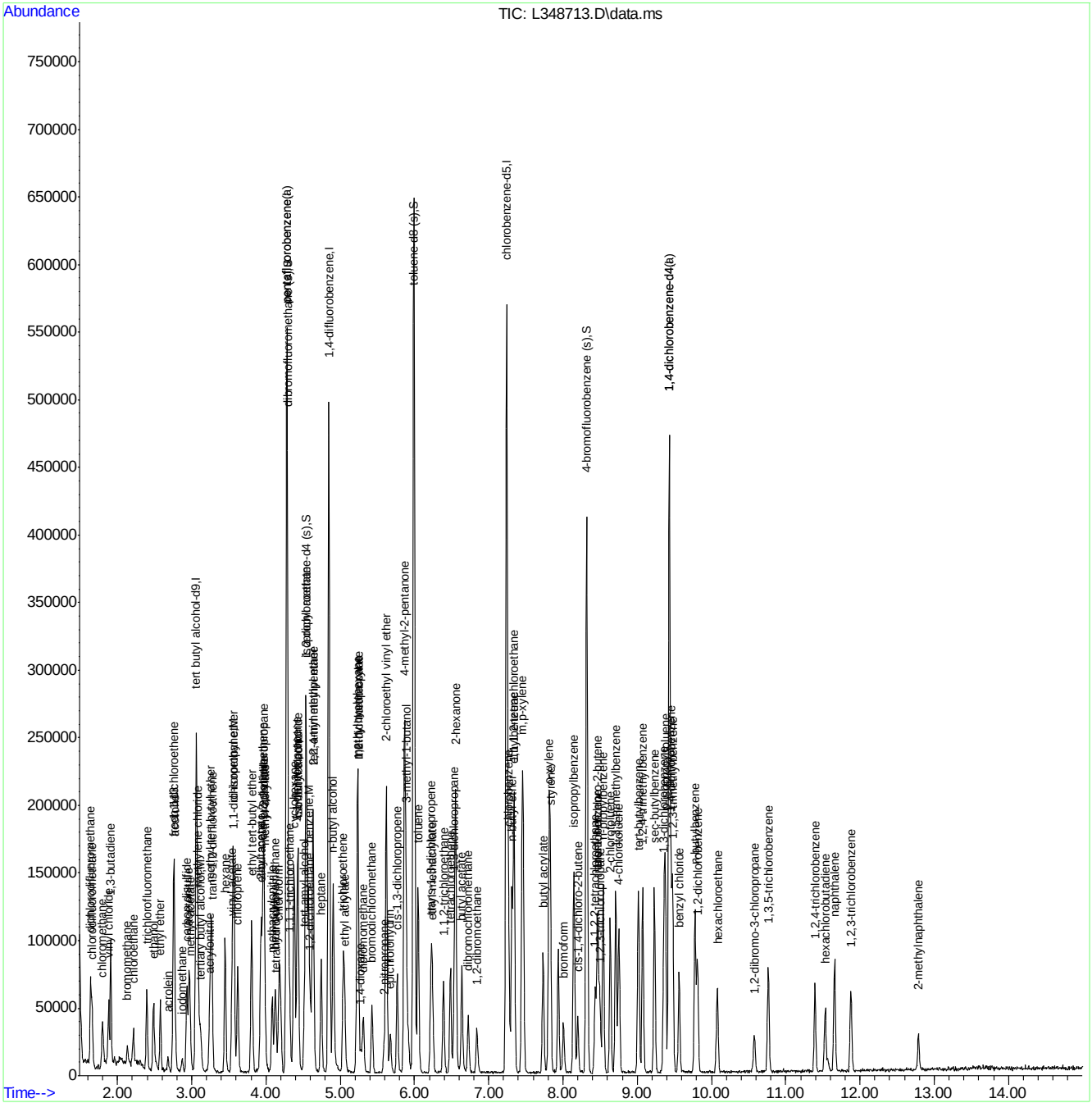
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
88)	m,p-xylene	7.453	106	79607	18.70	ug/L	92
89)	o-xylene	7.812	106	40560	9.25	ug/L	95
90)	butyl acrylate	7.732	55	55986	8.41	ug/L	96
91)	styrene	7.831	104	64513	9.12	ug/L	98
92)	bromoform	8.005	173	17126	8.57	ug/L	98
93)	isopropylbenzene	8.146	105	103550	9.12	ug/L	96
94)	cis-1,4-dichloro-2-butene	8.200	88	10080	7.83	ug/L	96
97)	bromobenzene	8.464	156	21984	7.95	ug/L	96
98)	1,1,2,2-tetrachloroethane	8.431	83	33951	8.11	ug/L	96
99)	trans-1,4-dichloro-2-b...	8.470	53	8165	7.35	ug/L	99
100)	1,2,3-trichloropropane	8.502	110	9483	8.31	ug/L	84
101)	n-propylbenzene	8.544	91	111946	8.63	ug/L	97
102)	2-chlorotoluene	8.637	126	20915	8.01	ug/L	91
103)	4-chlorotoluene	8.752	126	20757	8.31	ug/L	94
104)	1,3,5-trimethylbenzene	8.711	105	76026	8.23	ug/L	98
105)	tert-butylbenzene	9.019	119	66989	8.41	ug/L	96
106)	1,2,4-trimethylbenzene	9.073	105	78786	8.55	ug/L	99
107)	sec-butylbenzene	9.230	105	98286	8.38	ug/L	96
108)	1,3-dichlorobenzene	9.362	146	39420	8.04	ug/L	96
109)	p-isopropyltoluene	9.375	119	75913	8.53	ug/L	95
110)	1,4-dichlorobenzene	9.455	146	35757	7.84	ug/L	96
111)	1,2,3-trimethylbenzene	9.478	105	73877	8.50	ug/L	93
112)	1,2-dichlorobenzene	9.808	146	36642	8.23	ug/L	94
113)	n-butylbenzene	9.779	92	38014	7.79	ug/L	97
114)	1,2-dibromo-3-chloropr...	10.581	157	8236	7.17	ug/L	90
115)	1,3,5-trichlorobenzene	10.764	180	25735	7.40	ug/L	94
116)	1,2,4-trichlorobenzene	11.393	180	20692	6.86	ug/L	89
117)	hexachlorobutadiene	11.535	225	9198	7.87	ug/L	87
118)	naphthalene	11.656	128	70433	7.31	ug/L	97
119)	1,2,3-trichlorobenzene	11.878	180	19588	7.13	ug/L	94
120)	hexachloroethane	10.081	119	14535	7.84	ug/L	95
121)	benzyl chloride	9.564	91	54158	7.38	ug/L	98
122)	2-methylnaphthalene	12.789	142	13415	2.73	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10548\
Data File : L348713.D
Acq On : 27 Oct 2022 3:50 am
Operator : PrashanS
Sample : IC10548-8
Misc : MS63290,VL10548,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 27 08:49:30 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Oct 27 08:49:04 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10548\
Data File : L348714.D
Acq On : 27 Oct 2022 4:14 am
Operator : PrashanS
Sample : IC10548-20
Misc : MS63290,VL10548,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 27 08:57:11 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Oct 27 08:49:04 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	3.060	65	253373	500.00	ug/L		0.00
5) pentafluorobenzene	4.282	168	223344	50.00	ug/L		0.00
51) 1,4-difluorobenzene	4.847	114	324550	50.00	ug/L		0.00
72) chlorobenzene-d5	7.241	117	297358	50.00	ug/L		0.00
95) 1,4-dichlorobenzene-d4	9.433	152	121279	50.00	ug/L		0.00
123) pentafluorobenzene(a)	4.282	168	223265	50.00	ug/L		0.00
127) 1,4-dichlorobenzene-d4(a)	9.433	152	121315	50.00	ug/L		0.00
System Monitoring Compounds							
43) dibromofluoromethane (s)	4.289	113	94399	48.60	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 97.20%				
52) 1,2-dichloroethane-d4 (s)	4.539	65	112624	53.29	ug/L		0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 106.58%				
73) toluene-d8 (s)	5.993	98	385621	52.06	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 104.12%				
96) 4-bromofluorobenzene (s)	8.319	95	141705	49.15	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 98.30%				
Target Compounds							Qvalue
2) 1,4-dioxane	5.277	88	24000	474.49	ug/L		92
3) ethanol	2.482	45	133011	1916.69	ug/L		99
4) tertiary butyl alcohol	3.117	59	75291	97.12	ug/L		95
6) chlorodifluoromethane	1.657	51	86404	19.19	ug/L	#	99
7) dichlorodifluoromethane	1.638	85	104915	18.28	ug/L		97
8) chloromethane	1.799	50	78135	18.83	ug/L		99
9) vinyl chloride	1.879	62	83649	19.05	ug/L		96
10) 1,3-butadiene	1.908	54	61521	20.53	ug/L		95
11) bromomethane	2.132	96	17422	17.44	ug/L		89
12) chloroethane	2.212	64	43011	19.67	ug/L		98
13) trichlorofluoromethane	2.392	101	90091	18.83	ug/L		99
14) ethyl ether	2.578	74	35772	19.46	ug/L		93
15) acrolein	2.681	56	17278	18.29	ug/L		91
16) freon 113	2.752	151	42759	20.19	ug/L		96
17) 1,1-dichloroethene	2.758	96	49798	20.48	ug/L		98
18) acetone	2.768	58	48748	80.48	ug/L		97
19) acetonitrile	2.960	40	66647	197.92	ug/L		89
20) iodomethane	2.874	142	25597	15.03	ug/L		93
21) iso-butyl alcohol	4.430	43	57035	203.24	ug/L		100
22) carbon disulfide	2.931	76	157655	19.89	ug/L		99
23) methylene chloride	3.089	84	53625	19.43	ug/L		97
24) methyl acetate	2.976	74	16808	20.36	ug/L	#	84
25) methyl tert butyl ether	3.255	73	175084	20.79	ug/L		97
26) trans-1,2-dichloroethene	3.271	96	51821	20.56	ug/L		96
27) hexane	3.448	57	91836	19.56	ug/L		97
28) di-isopropyl ether	3.560	45	194533	21.04	ug/L		97
29) ethyl tert-butyl ether	3.807	59	194064	20.63	ug/L		97
30) 2-butanone	3.926	72	53255	81.71	ug/L		96
31) 1,1-dichloroethane	3.567	63	100221	20.50	ug/L		98
32) chloroprene	3.624	53	88946	20.46	ug/L		93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10548\
Data File : L348714.D
Acq On : 27 Oct 2022 4:14 am
Operator : PrashanS
Sample : IC10548-20
Misc : MS63290,VL10548,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 27 08:57:11 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Oct 27 08:49:04 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
33) acrylonitrile	3.233	53	37068	19.14	ug/L		88
34) vinyl acetate	3.541	86	15084	20.25	ug/L	#	93
35) ethyl acetate	3.936	45	15487	20.69	ug/L	#	58
36) 2,2-dichloropropane	3.965	77	79600	21.42	ug/L		97
37) cis-1,2-dichloroethene	3.955	96	55558	20.49	ug/L		95
38) propionitrile	3.974	54	143010	209.76	ug/L		97
39) methyl acrylate	3.977	85	12598	20.29	ug/L	#	75
40) bromochloromethane	4.122	128	25087	20.32	ug/L		96
41) tetrahydrofuran	4.131	72	14525	20.23	ug/L		91
42) chloroform	4.176	83	94011	20.30	ug/L		94
44) methacrylonitrile	4.083	67	36064	19.53	ug/L		89
45) 1,1,1-trichloroethane	4.314	97	78412	19.95	ug/L		90
46) cyclohexane	4.378	84	84444	20.59	ug/L		96
47) 1,1-dichloropropene	4.423	75	71941	20.62	ug/L		98
48) carbon tetrachloride	4.430	117	64280	20.66	ug/L		90
49) isopropyl acetate	4.545	87	17010	20.63	ug/L	#	87
50) tert amyl alcohol	4.520	55	27706	103.65	ug/L		93
53) tert-amyl methyl ether	4.632	73	167818	21.13	ug/L		98
54) 2,2,4-trimethylpentane	4.635	57	183601	21.06	ug/L		96
55) n-butyl alcohol	4.905	56	180849	985.68	ug/L		98
56) benzene	4.571	78	211155	21.08	ug/L		99
57) heptane	4.741	57	40337	19.51	ug/L		93
58) 1,2-dichloroethane	4.597	62	70300	20.97	ug/L		97
59) trichloroethene	5.040	95	53837	20.04	ug/L		95
60) ethyl acrylate	5.056	55	107080	20.41	ug/L		97
61) 2-nitropropane	5.591	41	25118	19.85	ug/L		96
62) 2-chloroethyl vinyl ether	5.620	63	202231	102.54	ug/L		96
63) methyl methacrylate	5.242	100	20671	20.44	ug/L	#	89
64) 1,2-dichloropropane	5.238	63	57383	20.89	ug/L		95
65) methylcyclohexane	5.229	83	96363	19.71	ug/L		99
66) dibromomethane	5.309	93	32201	20.64	ug/L		97
67) bromodichloromethane	5.428	83	74555	20.09	ug/L		99
68) cis-1,3-dichloropropene	5.765	75	93885	20.59	ug/L		97
69) epichlorohydrin	5.675	57	56180	101.71	ug/L		93
70) 4-methyl-2-pentanone	5.864	58	148670	83.12	ug/L		90
71) 3-methyl-1-butanol	5.887	70	68017	407.45	ug/L		96
74) toluene	6.047	92	127034	20.41	ug/L		92
75) trans-1,3-dichloropropene	6.217	75	83534	20.75	ug/L		98
76) ethyl methacrylate	6.240	69	88072	20.85	ug/L		99
77) 1,1,2-trichloroethane	6.394	83	44396	20.53	ug/L		92
78) 2-hexanone	6.554	58	161932	88.81	ug/L		99
79) tetrachloroethene	6.484	166	53376	20.37	ug/L		99
80) 1,3-dichloropropane	6.535	76	87887	21.97	ug/L		95
81) butyl acetate	6.638	56	56189	21.07	ug/L		96
82) dibromochloromethane	6.724	129	53637	21.02	ug/L		100
83) 1,2-dibromoethane	6.843	107	53212	19.92	ug/L		97
84) n-butyl ether	7.311	57	248174	21.77	ug/L		97
85) chlorobenzene	7.270	112	131439	20.59	ug/L		95
86) 1,1,1,2-tetrachloroethane	7.340	131	45658	21.39	ug/L		99
87) ethylbenzene	7.340	91	235474	22.16	ug/L		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10548\
Data File : L348714.D
Acq On : 27 Oct 2022 4:14 am
Operator : PrashanS
Sample : IC10548-20
Misc : MS63290,VL10548,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 27 08:57:11 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Oct 27 08:49:04 2022
Response via : Initial Calibration

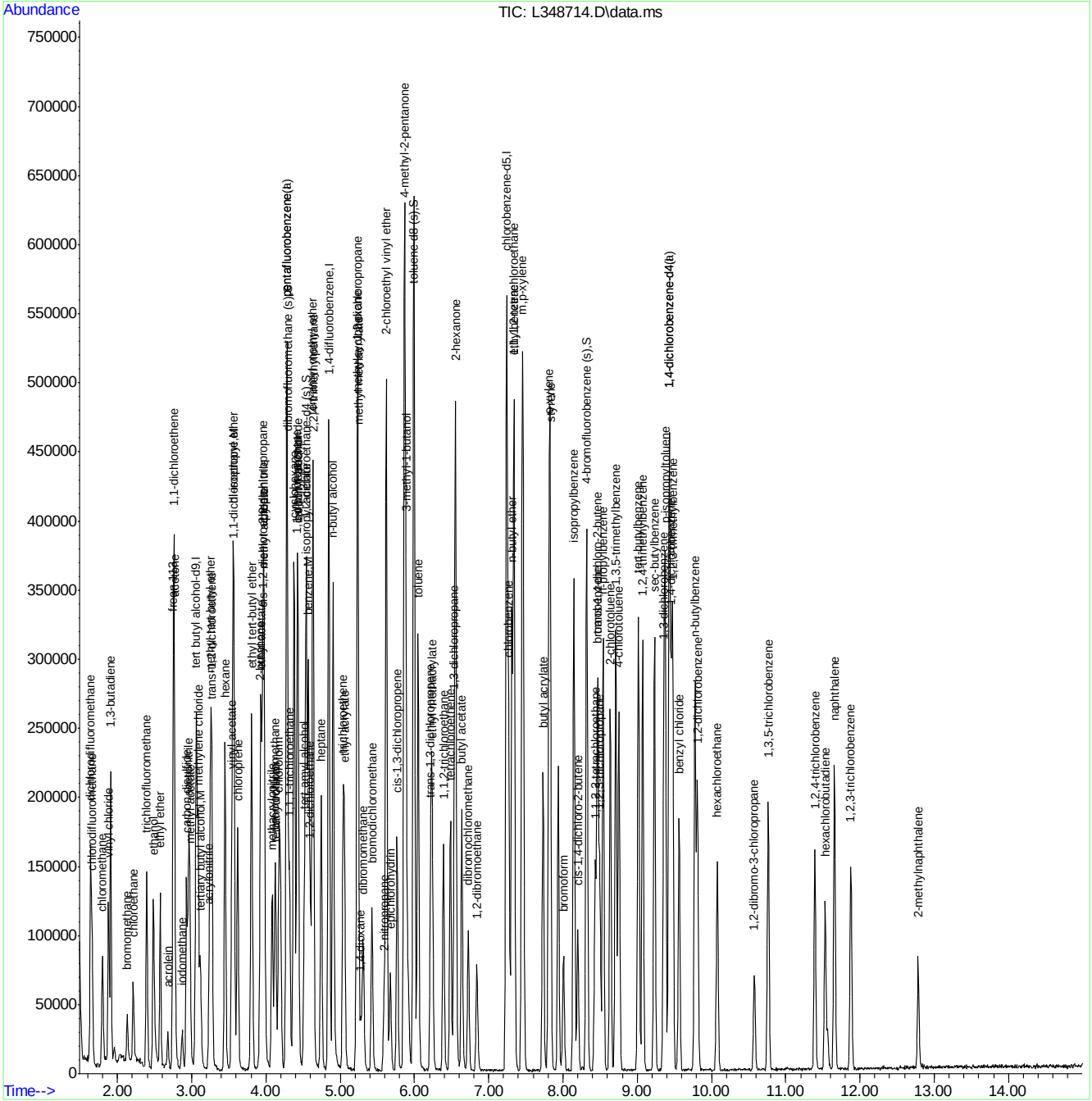
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
88) m,p-xylene	7.456	106	179599	42.40	ug/L	98
89) o-xylene	7.815	106	89515	20.52	ug/L	97
90) butyl acrylate	7.732	55	139329	21.05	ug/L	97
91) styrene	7.828	104	150770	21.42	ug/L	96
92) bromoform	8.008	173	40020	20.12	ug/L	92
93) isopropylbenzene	8.149	105	237639	21.03	ug/L	99
94) cis-1,4-dichloro-2-butene	8.200	88	25736	20.10	ug/L	91
97) bromobenzene	8.463	156	53398	19.94	ug/L	95
98) 1,1,2,2-tetrachloroethane	8.435	83	80371	19.82	ug/L	98
99) trans-1,4-dichloro-2-b...	8.467	53	20792	19.33	ug/L	90
100) 1,2,3-trichloropropane	8.492	110	22246	20.11	ug/L	89
101) n-propylbenzene	8.540	91	254174	20.22	ug/L	96
102) 2-chlorotoluene	8.637	126	49915	19.73	ug/L	93
103) 4-chlorotoluene	8.752	126	49206	20.34	ug/L	99
104) 1,3,5-trimethylbenzene	8.711	105	180979	20.23	ug/L	100
105) tert-butylbenzene	9.015	119	154776	20.05	ug/L	96
106) 1,2,4-trimethylbenzene	9.076	105	180752	20.24	ug/L	98
107) sec-butylbenzene	9.234	105	228063	20.07	ug/L	98
108) 1,3-dichlorobenzene	9.359	146	95229	20.05	ug/L	97
109) p-isopropyltoluene	9.378	119	174854	20.28	ug/L	95
110) 1,4-dichlorobenzene	9.458	146	87996	19.91	ug/L	97
111) 1,2,3-trimethylbenzene	9.477	105	174654	20.75	ug/L	98
112) 1,2-dichlorobenzene	9.808	146	86868	20.14	ug/L	97
113) n-butylbenzene	9.779	92	91871	19.43	ug/L	99
114) 1,2-dibromo-3-chloropr...	10.575	157	20273	18.21	ug/L	93
115) 1,3,5-trichlorobenzene	10.764	180	63458	18.82	ug/L	95
116) 1,2,4-trichlorobenzene	11.396	180	52743	18.04	ug/L	89
117) hexachlorobutadiene	11.531	225	22947	20.26	ug/L	96
118) naphthalene	11.656	128	181860	19.47	ug/L	99
119) 1,2,3-trichlorobenzene	11.874	180	49090	18.46	ug/L	97
120) hexachloroethane	10.078	119	33978	18.92	ug/L	94
121) benzyl chloride	9.561	91	139257	19.60	ug/L	99
122) 2-methylnaphthalene	12.786	142	40080	8.41	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10548\
Data File : L348714.D
Acq On : 27 Oct 2022 4:14 am
Operator : PrashanS
Sample : IC10548-20
Misc : MS63290,VL10548,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 27 08:57:11 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Oct 27 08:49:04 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10548\
Data File : L348715.D
Acq On : 27 Oct 2022 4:37 am
Operator : PrashanS
Sample : ICC10548-50
Misc : MS63290,VL10548,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 27 08:57:18 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Oct 27 08:49:04 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	3.060	65	246731	500.00	ug/L		0.00
5) pentafluorobenzene	4.279	168	216854	50.00	ug/L		0.00
51) 1,4-difluorobenzene	4.847	114	317373	50.00	ug/L		0.00
72) chlorobenzene-d5	7.241	117	303269	50.00	ug/L		0.00
95) 1,4-dichlorobenzene-d4	9.429	152	120454	50.00	ug/L		0.00
123) pentafluorobenzene(a)	4.279	168	216067	50.00	ug/L		0.00
127) 1,4-dichlorobenzene-d4(a)	9.429	152	120452	50.00	ug/L		0.00
System Monitoring Compounds							
43) dibromofluoromethane (s)	4.289	113	94301	50.00	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.00%				
52) 1,2-dichloroethane-d4 (s)	4.539	65	103334	50.00	ug/L		0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 100.00%				
73) toluene-d8 (s)	5.989	98	377732	50.00	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.00%				
96) 4-bromofluorobenzene (s)	8.316	95	143167	50.00	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.00%				
Target Compounds							Qvalue
2) 1,4-dioxane	5.277	88	61568	1250.00	ug/L		100
3) ethanol	2.485	45	337886	5000.00	ug/L		100
4) tertiary butyl alcohol	3.118	59	188721	250.00	ug/L		100
6) chlorodifluoromethane	1.654	51	218639	50.00	ug/L	#	100
7) dichlorodifluoromethane	1.635	85	278580	50.00	ug/L		100
8) chloromethane	1.795	50	201474	50.00	ug/L		100
9) vinyl chloride	1.879	62	213116	50.00	ug/L		100
10) 1,3-butadiene	1.908	54	145446	50.00	ug/L		100
11) bromomethane	2.126	96	48499	50.00	ug/L		100
12) chloroethane	2.209	64	106145	50.00	ug/L		100
13) trichlorofluoromethane	2.392	101	232214	50.00	ug/L		100
14) ethyl ether	2.578	74	89232	50.00	ug/L		100
15) acrolein	2.681	56	45849	50.00	ug/L		100
16) freon 113	2.748	151	102832	50.00	ug/L		100
17) 1,1-dichloroethene	2.758	96	118041	50.00	ug/L		100
18) acetone	2.768	58	117625	200.00	ug/L		100
19) acetonitrile	2.960	40	163475	500.00	ug/L		100
20) iodomethane	2.870	142	82656	50.00	ug/L		100
21) iso-butyl alcohol	4.427	43	136235	500.00	ug/L		100
22) carbon disulfide	2.931	76	384754	50.00	ug/L		100
23) methylene chloride	3.089	84	134007	50.00	ug/L		100
24) methyl acetate	2.973	74	40082	50.00	ug/L		100
25) methyl tert butyl ether	3.252	73	408857	50.00	ug/L		100
26) trans-1,2-dichloroethene	3.272	96	122355	50.00	ug/L		100
27) hexane	3.448	57	227933	50.00	ug/L		100
28) di-isopropyl ether	3.560	45	448892	50.00	ug/L		100
29) ethyl tert-butyl ether	3.807	59	456634	50.00	ug/L		100
30) 2-butanone	3.926	72	126563	200.00	ug/L		100
31) 1,1-dichloroethane	3.567	63	237317	50.00	ug/L		100
32) chloroprene	3.618	53	211062	50.00	ug/L		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10548\
Data File : L348715.D
Acq On : 27 Oct 2022 4:37 am
Operator : PrashanS
Sample : ICC10548-50
Misc : MS63290,VL10548,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 27 08:57:18 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Oct 27 08:49:04 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) acrylonitrile	3.233	53	94014	50.00	ug/L	100
34) vinyl acetate	3.541	86	36156	50.00	ug/L	100
35) ethyl acetate	3.939	45	36332	50.00	ug/L	100
36) 2,2-dichloropropane	3.965	77	180413	50.00	ug/L	100
37) cis-1,2-dichloroethene	3.952	96	131614	50.00	ug/L	100
38) propionitrile	3.974	54	330982	500.00	ug/L	100
39) methyl acrylate	3.984	85	30145	50.00	ug/L	100
40) bromochloromethane	4.122	128	59935	50.00	ug/L	100
41) tetrahydrofuran	4.132	72	34849	50.00	ug/L	100
42) chloroform	4.176	83	224821	50.00	ug/L	100
44) methacrylonitrile	4.083	67	89642	50.00	ug/L	100
45) 1,1,1-trichloroethane	4.318	97	190786	50.00	ug/L	100
46) cyclohexane	4.375	84	199121	50.00	ug/L	100
47) 1,1-dichloropropene	4.420	75	169354	50.00	ug/L	100
48) carbon tetrachloride	4.430	117	151039	50.00	ug/L	100
49) isopropyl acetate	4.545	87	40025	50.00	ug/L	100
50) tert amyl alcohol	4.520	55	64884	250.00	ug/L	100
53) tert-amyl methyl ether	4.629	73	388384	50.00	ug/L	100
54) 2,2,4-trimethylpentane	4.632	57	426203	50.00	ug/L	100
55) n-butyl alcohol	4.905	56	448546	2500.00	ug/L	100
56) benzene	4.571	78	489783	50.00	ug/L	100
57) heptane	4.741	57	101088	50.00	ug/L	100
58) 1,2-dichloroethane	4.594	62	163885	50.00	ug/L	100
59) trichloroethene	5.040	95	131340	50.00	ug/L	100
60) ethyl acrylate	5.056	55	256581	50.00	ug/L	100
61) 2-nitropropane	5.592	41	61864	50.00	ug/L	100
62) 2-chloroethyl vinyl ether	5.620	63	482154	250.00	ug/L	100
63) methyl methacrylate	5.235	100	49452	50.00	ug/L	100
64) 1,2-dichloropropane	5.239	63	134277	50.00	ug/L	100
65) methylcyclohexane	5.226	83	238992	50.00	ug/L	100
66) dibromomethane	5.306	93	76270	50.00	ug/L	100
67) bromodichloromethane	5.425	83	181461	50.00	ug/L	100
68) cis-1,3-dichloropropene	5.765	75	222922	50.00	ug/L	100
69) epichlorohydrin	5.675	57	135041	250.00	ug/L	100
70) 4-methyl-2-pentanone	5.864	58	349809	200.00	ug/L	100
71) 3-methyl-1-butanol	5.887	70	163241	1000.00	ug/L	100
74) toluene	6.047	92	317417	50.00	ug/L	100
75) trans-1,3-dichloropropene	6.221	75	205246	50.00	ug/L	100
76) ethyl methacrylate	6.237	69	215371	50.00	ug/L	100
77) 1,1,2-trichloroethane	6.391	83	110259	50.00	ug/L	100
78) 2-hexanone	6.551	58	371900	200.00	ug/L	100
79) tetrachloroethene	6.487	166	133633	50.00	ug/L	100
80) 1,3-dichloropropane	6.535	76	203960	50.00	ug/L	100
81) butyl acetate	6.638	56	135978	50.00	ug/L	100
82) dibromochloromethane	6.721	129	130147	50.00	ug/L	100
83) 1,2-dibromoethane	6.843	107	136194	50.00	ug/L	100
84) n-butyl ether	7.312	57	581270	50.00	ug/L	100
85) chlorobenzene	7.267	112	325567	50.00	ug/L	100
86) 1,1,1,2-tetrachloroethane	7.337	131	108871	50.00	ug/L	100
87) ethylbenzene	7.340	91	541759	50.00	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10548\
Data File : L348715.D
Acq On : 27 Oct 2022 4:37 am
Operator : PrashanS
Sample : ICC10548-50
Misc : MS63290,VL10548,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 27 08:57:18 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Oct 27 08:49:04 2022
Response via : Initial Calibration

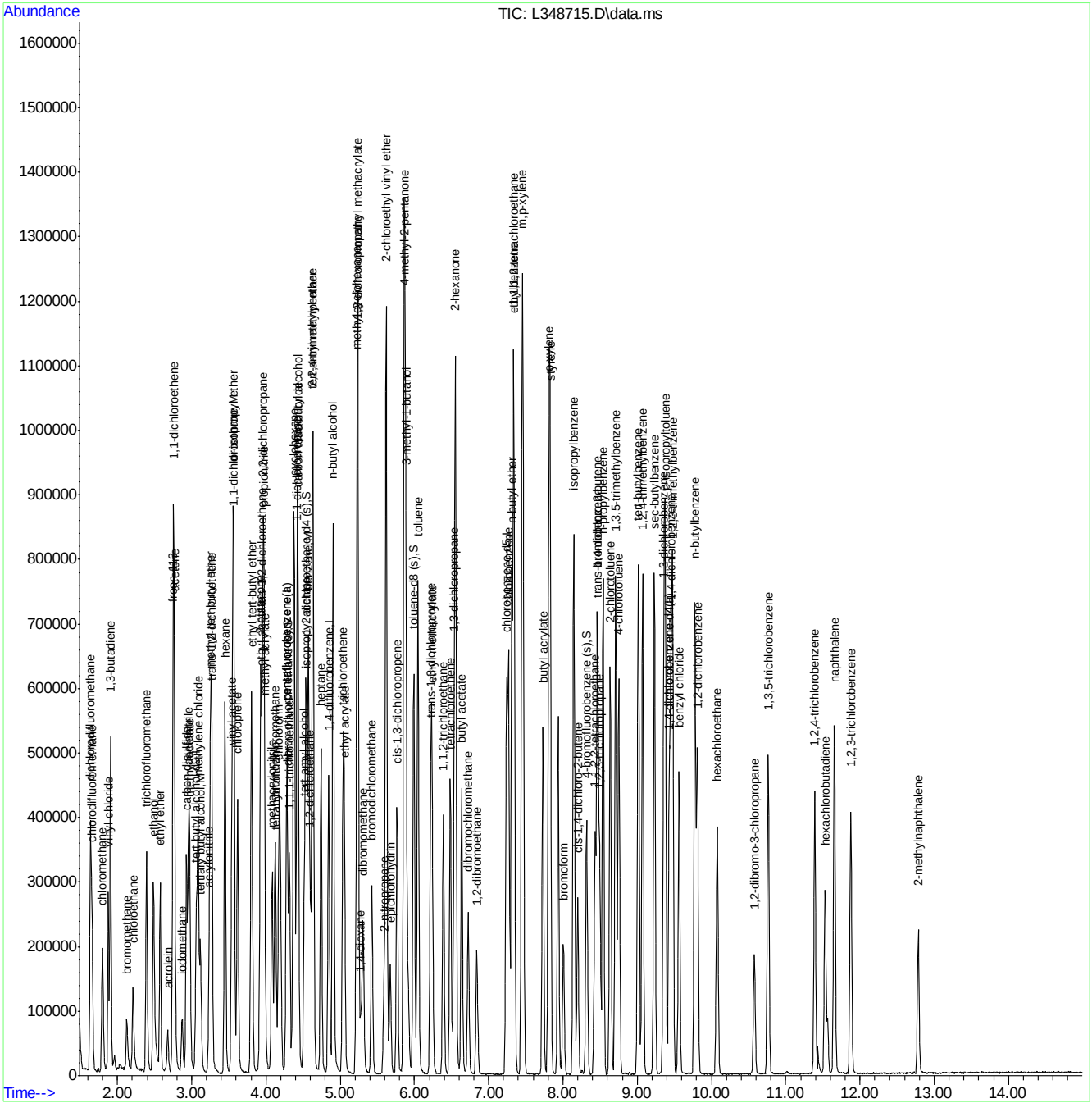
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
88)	m,p-xylene	7.456	106	431955	100.00	ug/L	100
89)	o-xylene	7.812	106	222468	50.00	ug/L	100
90)	butyl acrylate	7.732	55	337598	50.00	ug/L	100
91)	styrene	7.828	104	358866	50.00	ug/L	100
92)	bromoform	8.008	173	101429	50.00	ug/L	100
93)	isopropylbenzene	8.146	105	576163	50.00	ug/L	100
94)	cis-1,4-dichloro-2-butene	8.200	88	65295	50.00	ug/L	100
97)	bromobenzene	8.464	156	132995	50.00	ug/L	100
98)	1,1,2,2-tetrachloroethane	8.431	83	201379	50.00	ug/L	100
99)	trans-1,4-dichloro-2-b...	8.470	53	53419	50.00	ug/L	100
100)	1,2,3-trichloropropane	8.492	110	54935	50.00	ug/L	100
101)	n-propylbenzene	8.541	91	624299	50.00	ug/L	100
102)	2-chlorotoluene	8.637	126	125658	50.00	ug/L	100
103)	4-chlorotoluene	8.752	126	120142	50.00	ug/L	100
104)	1,3,5-trimethylbenzene	8.711	105	444241	50.00	ug/L	100
105)	tert-butylbenzene	9.015	119	383395	50.00	ug/L	100
106)	1,2,4-trimethylbenzene	9.073	105	443542	50.00	ug/L	100
107)	sec-butylbenzene	9.230	105	564380	50.00	ug/L	100
108)	1,3-dichlorobenzene	9.359	146	235862	50.00	ug/L	100
109)	p-isopropyltoluene	9.378	119	428262	50.00	ug/L	100
110)	1,4-dichlorobenzene	9.455	146	219494	50.00	ug/L	100
111)	1,2,3-trimethylbenzene	9.478	105	418015	50.00	ug/L	100
112)	1,2-dichlorobenzene	9.811	146	214204	50.00	ug/L	100
113)	n-butylbenzene	9.776	92	234843	50.00	ug/L	100
114)	1,2-dibromo-3-chloropr...	10.578	157	55278	50.00	ug/L	100
115)	1,3,5-trichlorobenzene	10.764	180	167402	50.00	ug/L	100
116)	1,2,4-trichlorobenzene	11.390	180	145170	50.00	ug/L	100
117)	hexachlorobutadiene	11.531	225	56233	50.00	ug/L	100
118)	naphthalene	11.656	128	463847	50.00	ug/L	100
119)	1,2,3-trichlorobenzene	11.878	180	132092	50.00	ug/L	100
120)	hexachloroethane	10.078	119	89162	50.00	ug/L	100
121)	benzyl chloride	9.564	91	352889	50.00	ug/L	100
122)	2-methylnaphthalene	12.786	142	118302	25.00	ug/L	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10548\
Data File : L348715.D
Acq On : 27 Oct 2022 4:37 am
Operator : PrashanS
Sample : ICC10548-50
Misc : MS63290,VL10548,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 27 08:57:18 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Oct 27 08:49:04 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10548\
Data File : L348716.D
Acq On : 27 Oct 2022 5:00 am
Operator : PrashanS
Sample : IC10548-100
Misc : MS63290,VL10548,5,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 27 08:57:24 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Oct 27 08:49:04 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	3.066	65	236238	500.00	ug/L		0.00
5) pentafluorobenzene	4.279	168	204150	50.00	ug/L		0.00
51) 1,4-difluorobenzene	4.847	114	304073	50.00	ug/L		0.00
72) chlorobenzene-d5	7.241	117	295346	50.00	ug/L		0.00
95) 1,4-dichlorobenzene-d4	9.432	152	114742	50.00	ug/L		0.00
123) pentafluorobenzene(a)	4.279	168	203541	50.00	ug/L		0.00
127) 1,4-dichlorobenzene-d4(a)	9.432	152	114835	50.00	ug/L		0.00
System Monitoring Compounds							
43) dibromofluoromethane (s)	4.289	113	88230	49.69	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.38%				
52) 1,2-dichloroethane-d4 (s)	4.539	65	97364	49.17	ug/L		0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 98.34%				
73) toluene-d8 (s)	5.992	98	366034	49.75	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.50%				
96) 4-bromofluorobenzene (s)	8.319	95	136978	50.22	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.44%				
Target Compounds							Qvalue
2) 1,4-dioxane	5.283	88	110320	2339.29	ug/L		91
3) ethanol	2.488	45	583783	9022.47	ug/L		98
4) tertiary butyl alcohol	3.121	59	324925	449.55	ug/L		96
6) chlorodifluoromethane	1.654	51	380837	92.51	ug/L	#	99
7) dichlorodifluoromethane	1.635	85	495158	94.40	ug/L		98
8) chloromethane	1.798	50	363108	95.72	ug/L		99
9) vinyl chloride	1.879	62	373111	92.98	ug/L		98
10) 1,3-butadiene	1.908	54	250031	91.30	ug/L		97
11) bromomethane	2.116	96	101946	111.64	ug/L		91
12) chloroethane	2.206	64	183818	91.98	ug/L		99
13) trichlorofluoromethane	2.389	101	414671	94.84	ug/L		98
14) ethyl ether	2.575	74	155913	92.80	ug/L		92
15) acrolein	2.678	56	81247	94.12	ug/L		97
16) freon 113	2.748	151	180610	93.28	ug/L		98
17) 1,1-dichloroethene	2.758	96	201375	90.61	ug/L		99
18) acetone	2.771	58	204716	369.74	ug/L		97
19) acetonitrile	2.960	40	284051	922.85	ug/L		91
20) iodomethane	2.873	142	166123	106.74	ug/L		99
21) iso-butyl alcohol	4.433	43	225396	878.71	ug/L		95
22) carbon disulfide	2.931	76	678558	93.67	ug/L		98
23) methylene chloride	3.085	84	232675	92.22	ug/L		93
24) methyl acetate	2.973	74	69814	92.51	ug/L		91
25) methyl tert butyl ether	3.252	73	687556	89.32	ug/L		99
26) trans-1,2-dichloroethene	3.271	96	213528	92.69	ug/L		96
27) hexane	3.448	57	407651	94.99	ug/L		99
28) di-isopropyl ether	3.560	45	754173	89.23	ug/L		98
29) ethyl tert-butyl ether	3.804	59	783252	91.10	ug/L		99
30) 2-butanone	3.926	72	225871	379.14	ug/L	#	88
31) 1,1-dichloroethane	3.567	63	403364	90.27	ug/L		100
32) chloroprene	3.618	53	373511	93.99	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10548\
Data File : L348716.D
Acq On : 27 Oct 2022 5:00 am
Operator : PrashanS
Sample : IC10548-100
Misc : MS63290,VL10548,5,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 27 08:57:24 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Oct 27 08:49:04 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
33) acrylonitrile	3.233	53	171360	96.81	ug/L		99
34) vinyl acetate	3.538	86	60606	89.03	ug/L		96
35) ethyl acetate	3.936	45	63755	93.20	ug/L	#	69
36) 2,2-dichloropropane	3.964	77	307501	90.52	ug/L		100
37) cis-1,2-dichloroethene	3.955	96	222031	89.60	ug/L		99
38) propionitrile	3.974	54	570069	914.77	ug/L		99
39) methyl acrylate	3.981	85	55603	97.97	ug/L		96
40) bromochloromethane	4.122	128	104869	92.93	ug/L		93
41) tetrahydrofuran	4.131	72	60985	92.94	ug/L		95
42) chloroform	4.176	83	388554	91.79	ug/L		98
44) methacrylonitrile	4.086	67	159467	94.48	ug/L		99
45) 1,1,1-trichloroethane	4.314	97	342348	95.30	ug/L		99
46) cyclohexane	4.372	84	360522	96.16	ug/L		87
47) 1,1-dichloropropene	4.423	75	298290	93.55	ug/L		97
48) carbon tetrachloride	4.430	117	261097	91.81	ug/L		96
49) isopropyl acetate	4.542	87	72464	96.16	ug/L	#	90
50) tert amyl alcohol	4.523	55	111977	458.30	ug/L		96
53) tert-amyl methyl ether	4.632	73	663792	89.19	ug/L		99
54) 2,2,4-trimethylpentane	4.632	57	744248	91.13	ug/L		98
55) n-butyl alcohol	4.911	56	755161	4393.04	ug/L		99
56) benzene	4.574	78	844049	89.93	ug/L		98
57) heptane	4.744	57	190659	98.43	ug/L		92
58) 1,2-dichloroethane	4.593	62	285478	90.91	ug/L		98
59) trichloroethene	5.039	95	239732	95.26	ug/L		93
60) ethyl acrylate	5.059	55	437809	89.05	ug/L		99
61) 2-nitropropane	5.591	41	111827	94.33	ug/L		98
62) 2-chloroethyl vinyl ether	5.620	63	800620	433.28	ug/L		98
63) methyl methacrylate	5.235	100	87648	92.50	ug/L		97
64) 1,2-dichloropropane	5.238	63	235220	91.42	ug/L		99
65) methylcyclohexane	5.229	83	424753	92.75	ug/L		99
66) dibromomethane	5.309	93	138491	94.76	ug/L		92
67) bromodichloromethane	5.428	83	327637	94.23	ug/L		99
68) cis-1,3-dichloropropene	5.768	75	396661	92.86	ug/L		96
69) epichlorohydrin	5.675	57	245711	474.78	ug/L		98
70) 4-methyl-2-pentanone	5.864	58	591449	352.95	ug/L		95
71) 3-methyl-1-butanol	5.890	70	272519	1742.45	ug/L		98
74) toluene	6.047	92	555558	89.86	ug/L		100
75) trans-1,3-dichloropropene	6.220	75	368530	92.19	ug/L		98
76) ethyl methacrylate	6.240	69	370591	88.34	ug/L		99
77) 1,1,2-trichloroethane	6.390	83	195937	91.24	ug/L		98
78) 2-hexanone	6.554	58	638172	352.40	ug/L		99
79) tetrachloroethene	6.487	166	241106	92.63	ug/L		97
80) 1,3-dichloropropane	6.535	76	360339	90.71	ug/L		99
81) butyl acetate	6.638	56	238836	90.18	ug/L		98
82) dibromochloromethane	6.727	129	238204	93.97	ug/L		95
83) 1,2-dibromoethane	6.843	107	245962	92.72	ug/L		99
84) n-butyl ether	7.311	57	990855	87.52	ug/L		98
85) chlorobenzene	7.266	112	582351	91.84	ug/L		97
86) 1,1,1,2-tetrachloroethane	7.337	131	191249	90.19	ug/L		99
87) ethylbenzene	7.340	91	917127	86.91	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10548\
Data File : L348716.D
Acq On : 27 Oct 2022 5:00 am
Operator : PrashanS
Sample : IC10548-100
Misc : MS63290,VL10548,5,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 27 08:57:24 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Oct 27 08:49:04 2022
Response via : Initial Calibration

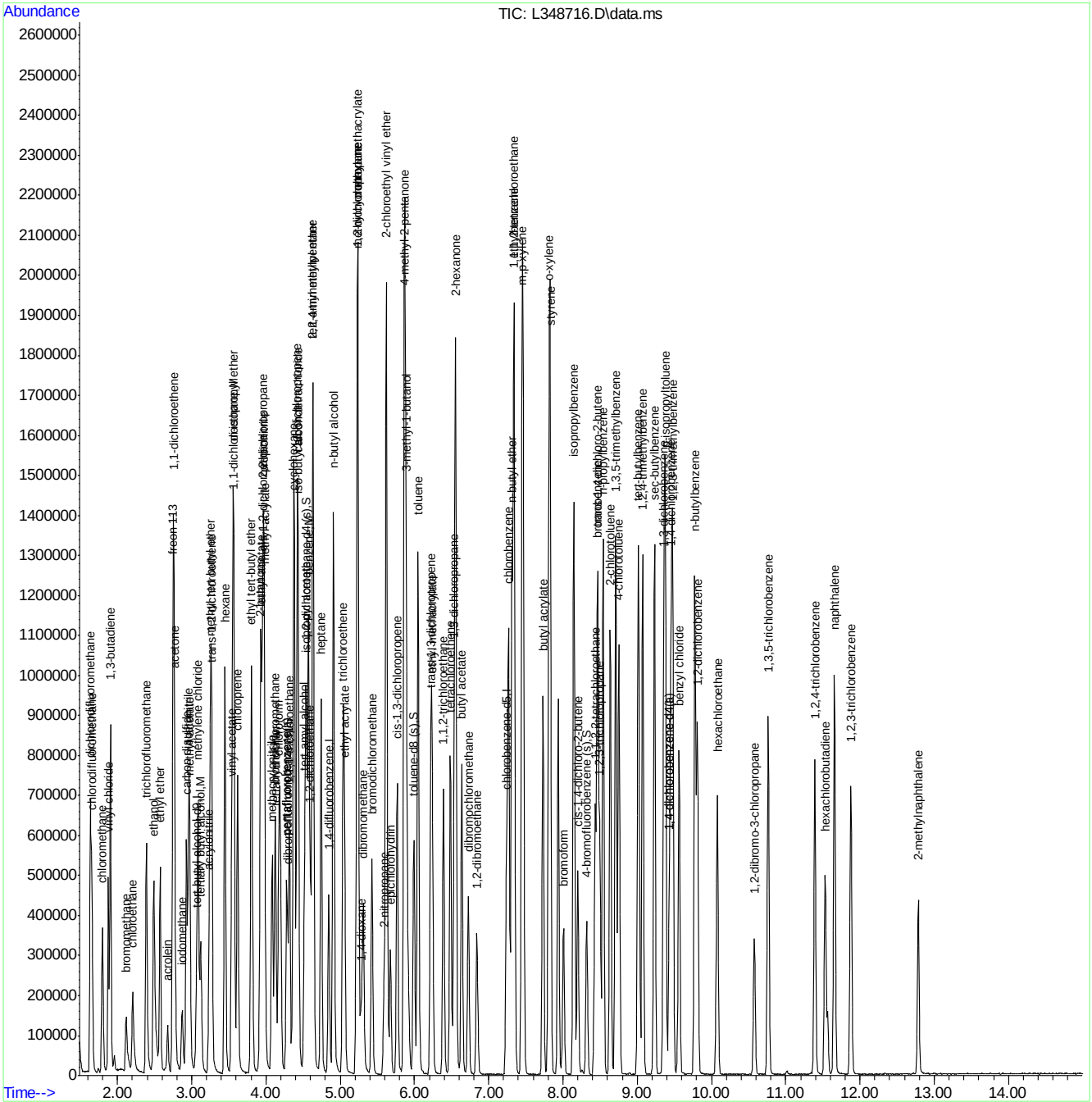
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
88) m,p-xylene	7.456	106	754267	179.30	ug/L	99
89) o-xylene	7.815	106	389739	89.94	ug/L	95
90) butyl acrylate	7.732	55	585899	89.10	ug/L	98
91) styrene	7.828	104	618148	88.44	ug/L	97
92) bromoform	8.004	173	179994	91.11	ug/L	94
93) isopropylbenzene	8.146	105	983847	87.67	ug/L	95
94) cis-1,4-dichloro-2-butene	8.200	88	124792	98.12	ug/L	93
97) bromobenzene	8.463	156	233036	91.97	ug/L	97
98) 1,1,2,2-tetrachloroethane	8.434	83	352132	91.78	ug/L	96
99) trans-1,4-dichloro-2-b...	8.467	53	95480	93.82	ug/L	86
100) 1,2,3-trichloropropane	8.495	110	93700	89.53	ug/L	95
101) n-propylbenzene	8.540	91	1068860	89.87	ug/L	95
102) 2-chlorotoluene	8.637	126	221851	92.67	ug/L	94
103) 4-chlorotoluene	8.752	126	215210	94.02	ug/L	95
104) 1,3,5-trimethylbenzene	8.710	105	757195	89.47	ug/L	98
105) tert-butylbenzene	9.015	119	661816	90.61	ug/L	98
106) 1,2,4-trimethylbenzene	9.076	105	756980	89.58	ug/L	98
107) sec-butylbenzene	9.233	105	968483	90.07	ug/L	98
108) 1,3-dichlorobenzene	9.359	146	412982	91.91	ug/L	95
109) p-isopropyltoluene	9.378	119	724395	88.78	ug/L	99
110) 1,4-dichlorobenzene	9.458	146	393340	94.06	ug/L	96
111) 1,2,3-trimethylbenzene	9.477	105	716992	90.03	ug/L	98
112) 1,2-dichlorobenzene	9.811	146	373882	91.62	ug/L	98
113) n-butylbenzene	9.776	92	421706	94.25	ug/L	96
114) 1,2-dibromo-3-chloropr...	10.578	157	104202	98.94	ug/L	96
115) 1,3,5-trichlorobenzene	10.764	180	298285	93.53	ug/L	95
116) 1,2,4-trichlorobenzene	11.393	180	258102	93.32	ug/L	99
117) hexachlorobutadiene	11.531	225	102718	95.88	ug/L	99
118) naphthalene	11.656	128	818666	92.64	ug/L	98
119) 1,2,3-trichlorobenzene	11.878	180	239770	95.28	ug/L	99
120) hexachloroethane	10.081	119	160617	94.55	ug/L	95
121) benzyl chloride	9.564	91	609262	90.62	ug/L	99
122) 2-methylnaphthalene	12.783	142	224478	49.80	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10548\
Data File : L348716.D
Acq On : 27 Oct 2022 5:00 am
Operator : PrashanS
Sample : IC10548-100
Misc : MS63290,VL10548,5,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 27 08:57:24 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Oct 27 08:49:04 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10548\
Data File : L348717.D
Acq On : 27 Oct 2022 5:23 am
Operator : PrashanS
Sample : IC10548-200
Misc : MS63290,VL10548,5,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 28 17:51:22 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Oct 27 08:49:04 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.076	65	198716	500.00	ug/L	0.02
5) pentafluorobenzene	4.279	168	191757	50.00	ug/L	0.00
51) 1,4-difluorobenzene	4.847	114	293073	50.00	ug/L	0.00
72) chlorobenzene-d5	7.241	117	289829	50.00	ug/L	0.00
95) 1,4-dichlorobenzene-d4	9.432	152	105209	50.00	ug/L	0.00
123) pentafluorobenzene(a)	4.279	168	191721	50.00	ug/L	0.00
127) 1,4-dichlorobenzene-d4(a)	9.432	152	105207	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	4.285	113	85053	51.00	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 102.00%			
52) 1,2-dichloroethane-d4 (s)	4.542	65	89874	47.09	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 94.18%			
73) toluene-d8 (s)	5.992	98	352086	48.77	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 97.54%			
96) 4-bromofluorobenzene (s)	8.319	95	127446	50.96	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 101.92%			
Target Compounds						Qvalue
2) 1,4-dioxane	5.290	88	198971	5015.75	ug/L	99
3) ethanol	2.501	45	936864	17213.42	ug/L	100
4) tertiary butyl alcohol	3.130	59	561160	922.99	ug/L	97
6) chlorodifluoromethane	1.654	51	666951	172.49	ug/L #	99
7) dichlorodifluoromethane	1.635	85	886842	180.00	ug/L	96
8) chloromethane	1.798	50	644663	180.93	ug/L	97
9) vinyl chloride	1.879	62	647546	171.81	ug/L	98
10) 1,3-butadiene	1.904	54	416604	161.96	ug/L	99
12) chloroethane	2.196	64	304258	162.08	ug/L	95
13) trichlorofluoromethane	2.386	101	732181	178.29	ug/L	98
14) ethyl ether	2.575	74	278920	176.74	ug/L	93
15) acrolein	2.678	56	152718	188.34	ug/L	97
16) freon 113	2.745	151	318052	174.89	ug/L	99
17) 1,1-dichloroethene	2.755	96	356835	170.93	ug/L	96
18) acetone	2.771	58	363440	698.84	ug/L	86
19) acetonitrile	2.963	40	487615	1686.60	ug/L	93
21) iso-butyl alcohol	4.439	43	381033	1581.47	ug/L	95
22) carbon disulfide	2.928	76	1192324	175.23	ug/L	98
23) methylene chloride	3.085	84	424154	178.97	ug/L	98
24) methyl acetate	2.973	74	122729	173.13	ug/L	99
25) methyl tert butyl ether	3.255	73	1185092	163.90	ug/L	98
26) trans-1,2-dichloroethene	3.268	96	372983	172.37	ug/L	97
27) hexane	3.445	57	708417	175.74	ug/L	98
28) di-isopropyl ether	3.560	45	1251336	157.62	ug/L	97
29) ethyl tert-butyl ether	3.804	59	1364602	168.98	ug/L	96
30) 2-butanone	3.929	72	401267	717.09	ug/L #	82
31) 1,1-dichloroethane	3.567	63	687600	163.83	ug/L	99
32) chloroprene	3.618	53	654536	175.35	ug/L	94
33) acrylonitrile	3.233	53	304899	183.38	ug/L	97
34) vinyl acetate	3.541	86	115245	180.23	ug/L #	75

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10548\
Data File : L348717.D
Acq On : 27 Oct 2022 5:23 am
Operator : PrashanS
Sample : IC10548-200
Misc : MS63290,VL10548,5,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 28 17:51:22 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Oct 27 08:49:04 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
35) ethyl acetate	3.939	45	111664	173.78	ug/L		96
36) 2,2-dichloropropane	3.964	77	539538	169.10	ug/L		99
37) cis-1,2-dichloroethene	3.955	96	400506	172.07	ug/L		99
38) propionitrile	3.980	54	943727	1612.23	ug/L		83
39) methyl acrylate	3.980	85	95850	179.79	ug/L		96
40) bromochloromethane	4.122	128	190550	179.77	ug/L		97
41) tetrahydrofuran	4.131	72	112089	181.87	ug/L		91
42) chloroform	4.176	83	689858	173.50	ug/L		96
44) methacrylonitrile	4.083	67	294151	185.54	ug/L		98
45) 1,1,1-trichloroethane	4.317	97	619135	183.50	ug/L		97
46) cyclohexane	4.375	84	631620	179.36	ug/L		94
47) 1,1-dichloropropene	4.423	75	527813	176.23	ug/L		96
48) carbon tetrachloride	4.430	117	463620	173.56	ug/L		95
49) isopropyl acetate	4.542	87	134017	189.33	ug/L		98
50) tert amyl alcohol	4.529	55	185534	808.43	ug/L	#	85
53) tert-amyl methyl ether	4.632	73	1143249	159.38	ug/L		96
54) 2,2,4-trimethylpentane	4.632	57	1271201	161.50	ug/L		97
55) n-butyl alcohol	4.918	56	1267827	7652.22	ug/L		99
56) benzene	4.571	78	1449377	160.23	ug/L		93
57) heptane	4.744	57	332279	177.98	ug/L		95
58) 1,2-dichloroethane	4.597	62	511862	169.11	ug/L		96
59) trichloroethene	5.039	95	432508	178.30	ug/L		91
60) ethyl acrylate	5.059	55	769500	162.39	ug/L		98
61) 2-nitropropane	5.591	41	203801	178.37	ug/L		99
62) 2-chloroethyl vinyl ether	5.620	63	1351929	759.11	ug/L		93
63) methyl methacrylate	5.238	100	152957	167.47	ug/L	#	89
64) 1,2-dichloropropane	5.238	63	405932	163.69	ug/L		97
65) methylcyclohexane	5.226	83	743185	168.38	ug/L		97
66) dibromomethane	5.309	93	253529	179.99	ug/L		92
67) bromodichloromethane	5.428	83	597712	178.35	ug/L		97
68) cis-1,3-dichloropropene	5.768	75	715575	173.81	ug/L		95
69) epichlorohydrin	5.678	57	437226	876.55	ug/L		96
70) 4-methyl-2-pentanone	5.864	58	1005907	622.80	ug/L	#	83
71) 3-methyl-1-butanol	5.893	70	464775	3083.24	ug/L		97
74) toluene	6.047	92	1000311	164.88	ug/L		95
75) trans-1,3-dichloropropene	6.220	75	665768	169.71	ug/L		96
76) ethyl methacrylate	6.240	69	649033	157.67	ug/L		99
77) 1,1,2-trichloroethane	6.390	83	357667	169.72	ug/L		99
78) 2-hexanone	6.554	58	1044571	587.80	ug/L		93
79) tetrachloroethene	6.483	166	440865	172.60	ug/L		95
80) 1,3-dichloropropane	6.535	76	638538	163.79	ug/L		97
81) butyl acetate	6.637	56	425488	163.71	ug/L		96
82) dibromochloromethane	6.724	129	439496	176.68	ug/L		96
83) 1,2-dibromoethane	6.843	107	455399	174.94	ug/L		93
84) n-butyl ether	7.311	57	1639545	147.57	ug/L		93
85) chlorobenzene	7.266	112	1047214	168.29	ug/L		99
86) 1,1,1,2-tetrachloroethane	7.337	131	335179	161.07	ug/L		97
87) ethylbenzene	7.340	91	1526824	147.45	ug/L		92
88) m,p-xylene	7.456	106	1301686	315.32	ug/L		89
89) o-xylene	7.812	106	684045	160.87	ug/L		92

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10548\
Data File : L348717.D
Acq On : 27 Oct 2022 5:23 am
Operator : PrashanS
Sample : IC10548-200
Misc : MS63290,VL10548,5,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 28 17:51:22 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Oct 27 08:49:04 2022
Response via : Initial Calibration

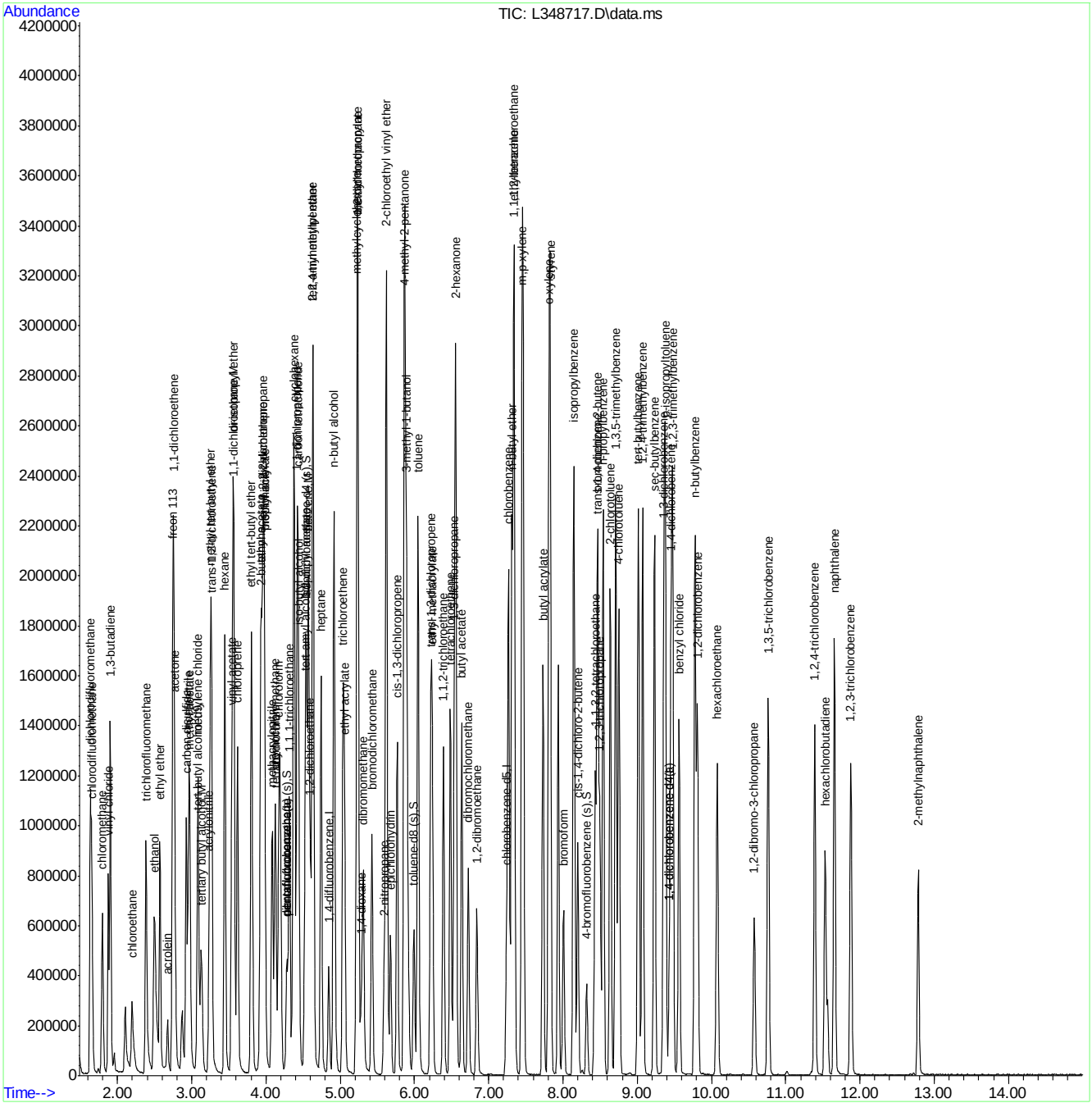
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
90)	butyl acrylate	7.732	55	999080	154.83	ug/L		97
91)	styrene	7.828	104	1055691	153.91	ug/L		96
92)	bromoform	8.008	173	326696	168.51	ug/L		93
93)	isopropylbenzene	8.146	105	1655581	150.34	ug/L		92
94)	cis-1,4-dichloro-2-butene	8.200	88	224131	179.59	ug/L		96
97)	bromobenzene	8.463	156	409858	176.42	ug/L		96
98)	1,1,2,2-tetrachloroethane	8.434	83	611976	173.96	ug/L		95
99)	trans-1,4-dichloro-2-b...	8.470	53	167373	179.36	ug/L		93
100)	1,2,3-trichloropropane	8.495	110	166348	173.34	ug/L		94
101)	n-propylbenzene	8.540	91	1770344	162.33	ug/L		93
102)	2-chlorotoluene	8.637	126	396722	180.73	ug/L		90
103)	4-chlorotoluene	8.752	126	382581	182.29	ug/L	#	86
104)	1,3,5-trimethylbenzene	8.710	105	1260800	162.47	ug/L		95
105)	tert-butylbenzene	9.015	119	1129275	168.61	ug/L		95
106)	1,2,4-trimethylbenzene	9.073	105	1258214	162.39	ug/L		95
107)	sec-butylbenzene	9.233	105	1601223	162.41	ug/L		95
108)	1,3-dichlorobenzene	9.359	146	719590	174.65	ug/L		97
109)	p-isopropyltoluene	9.378	119	1190188	159.09	ug/L		97
110)	1,4-dichlorobenzene	9.455	146	679843	177.31	ug/L		95
111)	1,2,3-trimethylbenzene	9.477	105	1197339	163.97	ug/L		96
112)	1,2-dichlorobenzene	9.811	146	643476	171.97	ug/L		96
113)	n-butylbenzene	9.776	92	723527	176.37	ug/L		93
114)	1,2-dibromo-3-chloropr...	10.575	157	197330	204.35	ug/L		97
115)	1,3,5-trichlorobenzene	10.764	180	526650	180.09	ug/L		99
116)	1,2,4-trichlorobenzene	11.390	180	469282	185.05	ug/L		97
117)	hexachlorobutadiene	11.531	225	187366	190.74	ug/L		98
118)	naphthalene	11.656	128	1445629	178.41	ug/L		95
119)	1,2,3-trichlorobenzene	11.874	180	433991	188.08	ug/L		98
120)	hexachloroethane	10.077	119	285379	183.22	ug/L		98
121)	benzyl chloride	9.564	91	1063169	172.47	ug/L		97
122)	2-methylnaphthalene	12.786	142	426140	103.10	ug/L		94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10548\
Data File : L348717.D
Acq On : 27 Oct 2022 5:23 am
Operator : PrashanS
Sample : IC10548-200
Misc : MS63290,VL10548,5,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 28 17:51:22 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Oct 27 08:49:04 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10548\
Data File : L348720.D
Acq On : 27 Oct 2022 6:33 am
Operator : PrashanS
Sample : ICV10548-50
Misc : MS63290,VL10548,5,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 28 17:52:35 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Fri Oct 28 17:50:59 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	3.063	65	247503	500.00	ug/L		0.00
5) pentafluorobenzene	4.279	168	214189	50.00	ug/L		0.00
51) 1,4-difluorobenzene	4.847	114	319370	50.00	ug/L		0.00
72) chlorobenzene-d5	7.241	117	306171	50.00	ug/L		0.00
95) 1,4-dichlorobenzene-d4	9.433	152	121496	50.00	ug/L		0.00
123) pentafluorobenzene(a)	4.279	168	214338	50.00	ug/L		0.00
127) 1,4-dichlorobenzene-d4(a)	9.433	152	121478	50.00	ug/L		0.00
System Monitoring Compounds							
43) dibromofluoromethane (s)	4.289	113	93713	52.56	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 105.12%				
52) 1,2-dichloroethane-d4 (s)	4.539	65	106435	48.67	ug/L		0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 97.34%				
73) toluene-d8 (s)	5.993	98	378791	46.72	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 93.44%				
96) 4-bromofluorobenzene (s)	8.322	95	143466	51.34	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 102.68%				
Target Compounds							Qvalue
2) 1,4-dioxane	5.277	88	59087	1205.42	ug/L		96
3) ethanol	2.485	45	337933	5049.43	ug/L		99
4) tertiary butyl alcohol	3.117	59	203916	275.09	ug/L		95
7) dichlorodifluoromethane	1.635	85	219598	45.09	ug/L		99
8) chloromethane	1.799	50	166949	44.62	ug/L		97
9) vinyl chloride	1.879	62	187316	48.37	ug/L		98
10) 1,3-butadiene	1.908	54	180296	64.34	ug/L		98
11) bromomethane	2.129	96	45400	45.50	ug/L		93
12) chloroethane	2.209	64	101266	50.40	ug/L		96
13) trichlorofluoromethane	2.392	101	210758	50.55	ug/L		98
14) ethyl ether	2.578	74	82239	47.19	ug/L		94
15) acrolein	2.678	56	44610	51.74	ug/L		92
16) freon 113	2.748	151	89480	45.14	ug/L		98
17) 1,1-dichloroethene	2.758	96	110031	47.23	ug/L		97
18) acetone	2.768	58	101121	175.88	ug/L		99
20) iodomethane	2.870	142	64300	40.02	ug/L		95
21) iso-butyl alcohol	4.427	43	144054	540.55	ug/L		99
22) carbon disulfide	2.931	76	355902	44.94	ug/L		99
23) methylene chloride	3.085	84	122627	46.75	ug/L		99
24) methyl acetate	2.976	74	40595	54.13	ug/L		92
25) methyl tert butyl ether	3.255	73	394940	50.09	ug/L		98
26) trans-1,2-dichloroethene	3.275	96	114637	46.66	ug/L		95
27) hexane	3.451	57	211899	46.58	ug/L		97
28) di-isopropyl ether	3.560	45	436789	49.23	ug/L		100
29) ethyl tert-butyl ether	3.807	59	444082	48.91	ug/L		99
30) 2-butanone	3.929	72	127299	207.63	ug/L		97
31) 1,1-dichloroethane	3.570	63	227424	48.41	ug/L		97
32) chloroprene	3.618	53	202857	47.84	ug/L		98
34) vinyl acetate	3.541	86	25189	37.56	ug/L	#	92
35) ethyl acetate	3.936	45	36747	48.89	ug/L	#	60

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10548\
Data File : L348720.D
Acq On : 27 Oct 2022 6:33 am
Operator : PrashanS
Sample : ICV10548-50
Misc : MS63290,VL10548,5,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 28 17:52:35 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Fri Oct 28 17:50:59 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) 2,2-dichloropropane	3.965	77	172075	45.80	ug/L		99
37) cis-1,2-dichloroethene	3.955	96	125988	47.52	ug/L		96
38) propionitrile	3.974	54	311724	477.96	ug/L		99
39) methyl acrylate	3.984	85	29437	46.82	ug/L		98
40) bromochloromethane	4.125	128	57141	48.86	ug/L		97
41) tetrahydrofuran	4.131	72	33604	49.17	ug/L		88
42) chloroform	4.176	83	227713	49.67	ug/L		98
44) methacrylonitrile	4.083	67	90799	50.73	ug/L		95
45) 1,1,1-trichloroethane	4.314	97	184464	48.30	ug/L		96
46) cyclohexane	4.379	84	194161	48.71	ug/L		95
47) 1,1-dichloropropene	4.423	75	163731	47.37	ug/L		99
48) carbon tetrachloride	4.430	117	143809	47.31	ug/L		98
49) isopropyl acetate	4.542	87	41104	52.63	ug/L		97
50) tert amyl alcohol	4.520	55	65974	252.01	ug/L	#	88
53) tert-amyl methyl ether	4.629	73	368264	46.06	ug/L		99
54) 2,2,4-trimethylpentane	4.632	57	387657	43.74	ug/L		98
55) n-butyl alcohol	4.905	56	457490	2630.37	ug/L		100
56) benzene	4.571	78	466236	44.41	ug/L		98
57) heptane	4.744	57	94249	44.91	ug/L		98
58) 1,2-dichloroethane	4.597	62	158621	46.03	ug/L		99
59) trichloroethene	5.043	95	130518	48.29	ug/L		93
60) ethyl acrylate	5.059	55	251210	49.26	ug/L		98
61) 2-nitropropane	5.591	41	65627	52.04	ug/L		94
62) 2-chloroethyl vinyl ether	5.620	63	425130	211.74	ug/L		100
63) methyl methacrylate	5.239	100	52745	52.92	ug/L	#	87
64) 1,2-dichloropropane	5.239	63	129604	45.70	ug/L		97
65) methylcyclohexane	5.229	83	210872	43.59	ug/L		98
66) dibromomethane	5.309	93	74266	45.19	ug/L		94
67) bromodichloromethane	5.428	83	183144	48.24	ug/L		97
68) cis-1,3-dichloropropene	5.765	75	224388	49.24	ug/L		95
69) epichlorohydrin	5.672	57	138269	245.81	ug/L		96
70) 4-methyl-2-pentanone	5.864	58	359663	196.56	ug/L		98
71) 3-methyl-1-butanol	5.883	70	167584	1016.85	ug/L		97
74) toluene	6.050	92	313975	46.15	ug/L		98
75) trans-1,3-dichloropropene	6.220	75	210331	49.02	ug/L		96
76) ethyl methacrylate	6.240	69	212903	48.32	ug/L		95
77) 1,1,2-trichloroethane	6.391	83	111121	48.65	ug/L		98
78) 2-hexanone	6.554	58	379810	185.41	ug/L		96
80) 1,3-dichloropropane	6.535	76	204898	45.30	ug/L		99
81) butyl acetate	6.638	56	143556	51.05	ug/L		92
82) dibromochloromethane	6.724	129	135099	48.32	ug/L		95
83) 1,2-dibromoethane	6.840	107	137809	48.73	ug/L		96
84) n-butyl ether	7.311	57	586119	49.28	ug/L		100
85) chlorobenzene	7.267	112	334552	48.68	ug/L		97
86) 1,1,1,2-tetrachloroethane	7.337	131	112282	48.25	ug/L		99
87) ethylbenzene	7.340	91	555752	45.15	ug/L		98
88) m,p-xylene	7.456	106	446552	93.13	ug/L		98
89) o-xylene	7.812	106	232734	49.14	ug/L		97
90) butyl acrylate	7.732	55	348228	51.57	ug/L		98
91) styrene	7.828	104	376031	48.17	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10548\
Data File : L348720.D
Acq On : 27 Oct 2022 6:33 am
Operator : PrashanS
Sample : ICV10548-50
Misc : MS63290,VL10548,5,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 28 17:52:35 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Fri Oct 28 17:50:59 2022
Response via : Initial Calibration

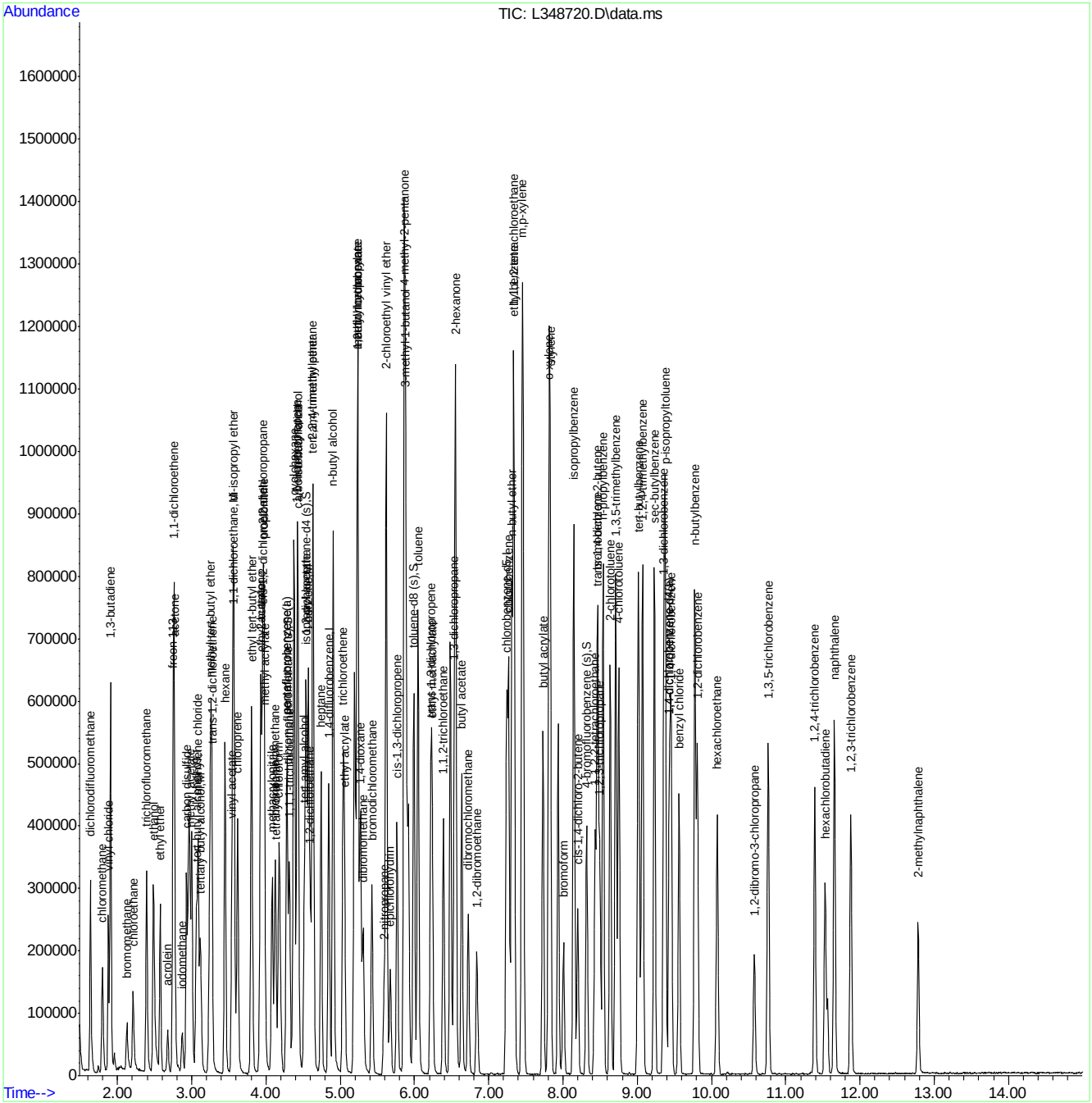
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
92) bromoform	8.008	173	104635	49.34	ug/L	96
93) isopropylbenzene	8.146	105	593882	48.13	ug/L	99
94) cis-1,4-dichloro-2-butene	8.200	88	64997	51.78	ug/L	95
97) bromobenzene	8.463	156	137981	52.41	ug/L	94
98) 1,1,2,2-tetrachloroethane	8.431	83	203808	50.28	ug/L	94
99) trans-1,4-dichloro-2-b...	8.470	53	58061	56.74	ug/L	97
100) 1,2,3-trichloropropane	8.496	110	57290	52.36	ug/L	96
101) n-propylbenzene	8.540	91	651935	51.58	ug/L	98
102) 2-chlorotoluene	8.637	126	128598	51.45	ug/L	97
103) 4-chlorotoluene	8.752	126	128455	51.29	ug/L	98
104) 1,3,5-trimethylbenzene	8.707	105	458853	50.11	ug/L	98
105) tert-butylbenzene	9.019	119	407915	52.33	ug/L	100
106) 1,2,4-trimethylbenzene	9.073	105	453136	50.59	ug/L	98
107) sec-butylbenzene	9.230	105	597405	52.44	ug/L	99
108) 1,3-dichlorobenzene	9.359	146	243935	53.21	ug/L	96
109) p-isopropyltoluene	9.378	119	447700	50.69	ug/L	98
110) 1,4-dichlorobenzene	9.458	146	235902	52.56	ug/L	96
112) 1,2-dichlorobenzene	9.808	146	225581	52.07	ug/L	98
113) n-butylbenzene	9.776	92	248303	55.19	ug/L	95
114) 1,2-dibromo-3-chloropr...	10.581	157	59549	57.07	ug/L	95
115) 1,3,5-trichlorobenzene	10.764	180	173246	56.68	ug/L	97
116) 1,2,4-trichlorobenzene	11.390	180	150609	59.06	ug/L	97
117) hexachlorobutadiene	11.531	225	61541	54.26	ug/L	92
118) naphthalene	11.653	128	481526	55.23	ug/L	98
119) 1,2,3-trichlorobenzene	11.878	180	137422	56.40	ug/L	95
120) hexachloroethane	10.078	119	93764	56.30	ug/L	98
121) benzyl chloride	9.564	91	342932	49.65	ug/L	99
122) 2-methylnaphthalene	12.783	142	123960	28.54	ug/L	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10548\
Data File : L348720.D
Acq On : 27 Oct 2022 6:33 am
Operator : PrashanS
Sample : ICV10548-50
Misc : MS63290,VL10548,5,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 28 17:52:35 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Fri Oct 28 17:50:59 2022
Response via : Initial Calibration



ML10548.M Fri Oct 28 17:54:00 2022 1 Page: 4

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10548\
Data File : L348721.D
Acq On : 27 Oct 2022 6:56 am
Operator : PrashanS
Sample : ICV10548-50
Misc : MS63290,VL10548,5,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 27 19:08:15 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Oct 27 19:06:54 2022
Response via : Initial Calibration

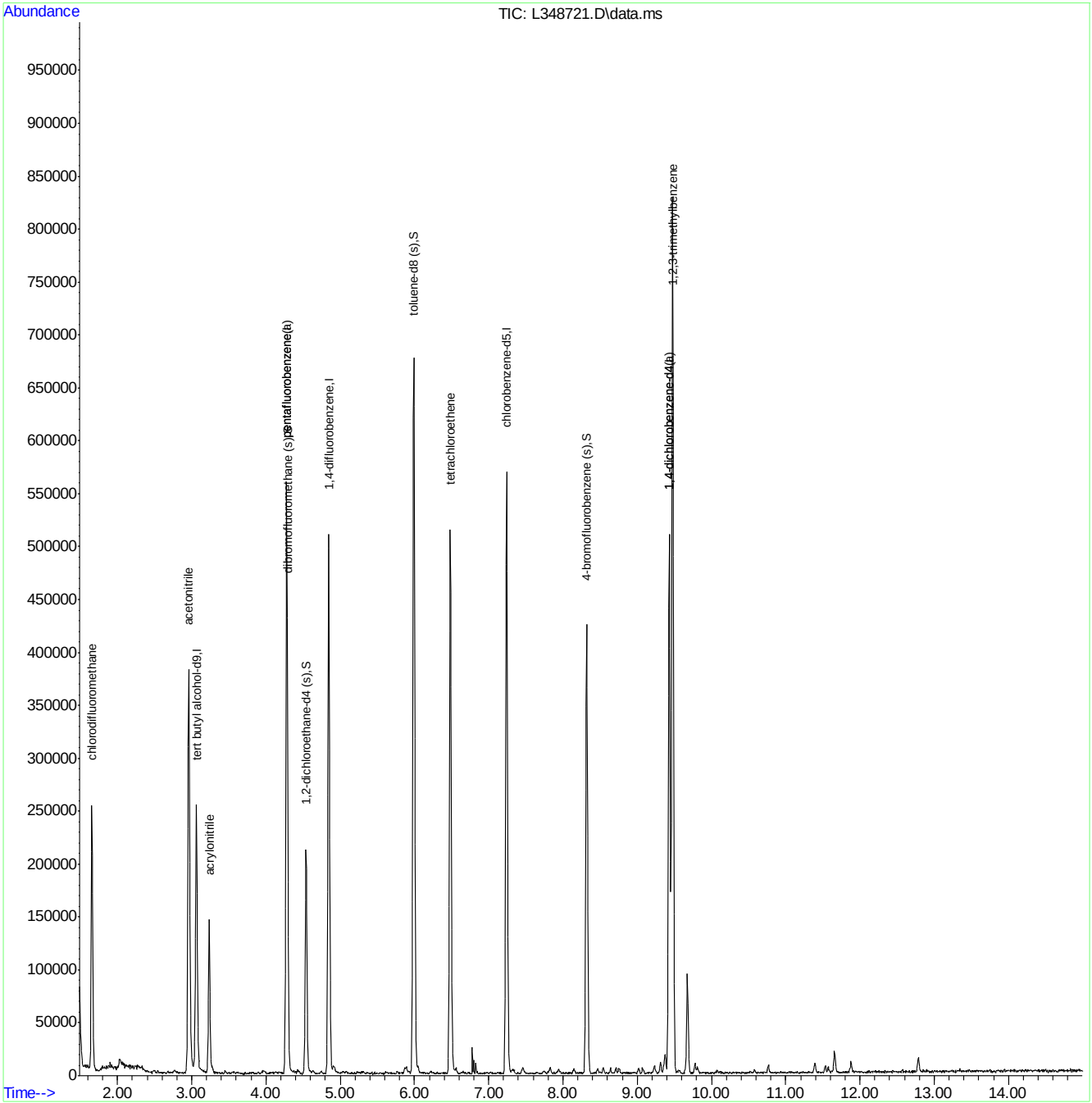
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.063	65	252630	500.00	ug/L	0.00
5) pentafluorobenzene	4.279	168	237506	50.00	ug/L	0.00
51) 1,4-difluorobenzene	4.847	114	345732	50.00	ug/L	0.00
72) chlorobenzene-d5	7.241	117	307317	50.00	ug/L	0.00
95) 1,4-dichlorobenzene-d4	9.433	152	135096	50.00	ug/L	0.00
123) pentafluorobenzene(a)	4.279	168	237706	50.00	ug/L	0.00
127) 1,4-dichlorobenzene-d4(a)	9.433	152	135096	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	4.289	113	100761	50.97	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 101.94%			
52) 1,2-dichloroethane-d4 (s)	4.539	65	124009	52.39	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 104.78%			
73) toluene-d8 (s)	5.993	98	428648	52.68	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 105.36%			
96) 4-bromofluorobenzene (s)	8.319	95	150210	48.34	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 96.68%			
Target Compounds						Qvalue
6) chlorodifluoromethane	1.654	51	229869	49.75	ug/L #	99
19) acetonitrile	2.960	40	179733	519.56	ug/L	86
33) acrylonitrile	3.236	53	89622	45.90	ug/L	92
79) tetrachloroethene	6.484	166	151906	53.74	ug/L	92
111) 1,2,3-trimethylbenzene	9.477	105	488449	51.17	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VL10548\
Data File : L348721.D
Acq On : 27 Oct 2022 6:56 am
Operator : PrashanS
Sample : ICV10548-50
Misc : MS63290,VL10548,5,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 27 19:08:15 2022
Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Thu Oct 27 19:06:54 2022
Response via : Initial Calibration



ML10548.M Fri Oct 28 17:54:02 2022 1 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\October 2022\Oct. 31, 2022\vl10552\
Data File : l348799.d
Acq On : 29 Oct 2022 10:33 am
Operator : BridgetK
Sample : cc10548-20 Inst : GCMSL
Misc : MS63359,VL10552,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Results File: ML10548.RES
Quant Time: Oct 31 22:19:58 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Fri Oct 28 18:07:24 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	3.063	65	246849	500.00	ug/L		0.00
5) pentafluorobenzene	4.282	168	242496	50.00	ug/L		0.00
51) 1,4-difluorobenzene	4.850	114	334022	50.00	ug/L		0.00
72) chlorobenzene-d5	7.244	117	312296	50.00	ug/L		0.00
95) 1,4-dichlorobenzene-d4	9.432	152	126617	50.00	ug/L		0.00
123) pentafluorobenzene(a)	4.282	168	242358	50.00	ug/L		0.00
127) 1,4-dichlorobenzene-d4(a)	9.432	152	126677	50.00	ug/L		0.00
System Monitoring Compounds							
43) dibromofluoromethane (s)	4.289	113	98861	48.98	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 97.96%				
52) 1,2-dichloroethane-d4 (s)	4.545	65	119733	52.35	ug/L		0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 104.70%				
73) toluene-d8 (s)	5.996	98	399652	48.33	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 96.66%				
96) 4-bromofluorobenzene (s)	8.319	95	149592	51.37	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 102.74%				
Target Compounds							Qvalue
2) 1,4-dioxane	5.280	88	18958	387.78	ug/L		98
3) ethanol	2.485	45	117059	1753.74	ug/L		98
4) tertiary butyl alcohol	3.120	59	69563	94.09	ug/L		94
6) chlorodifluoromethane	1.651	51	82105	17.40	ug/L	#	94
7) dichlorodifluoromethane	1.638	85	87552	15.88	ug/L		98
8) chloromethane	1.795	50	70164	16.56	ug/L		99
9) vinyl chloride	1.882	62	71534	16.32	ug/L		97
10) 1,3-butadiene	1.908	54	79710	25.13	ug/L		97
11) bromomethane	2.135	96	27213	24.80	ug/L		97
12) chloroethane	2.216	64	38587	16.96	ug/L		95
13) trichlorofluoromethane	2.398	101	83323	17.65	ug/L		96
14) ethyl ether	2.578	74	34398	17.43	ug/L		97
15) acrolein	2.681	56	20065	20.56	ug/L		94
16) freon 113	2.755	151	39191	17.46	ug/L		99
17) 1,1-dichloroethene	2.761	96	46120	17.49	ug/L		92
18) acetone	2.771	58	40409	62.08	ug/L		97
19) acetonitrile	2.960	40	66478	188.21	ug/L		92
20) iodomethane	2.873	142	36723	21.15	ug/L		97
21) iso-butyl alcohol	4.430	43	54132	179.41	ug/L		97
22) carbon disulfide	2.934	76	148584	16.57	ug/L		99
23) methylene chloride	3.088	84	52668	17.73	ug/L		99
24) methyl acetate	2.983	74	15564	18.33	ug/L		88
25) methyl tert butyl ether	3.255	73	173362	19.42	ug/L		98
26) trans-1,2-dichloroethene	3.275	96	49061	17.64	ug/L		99
27) hexane	3.454	57	90042	17.48	ug/L		98
28) di-isopropyl ether	3.563	45	189897	18.90	ug/L		98
29) ethyl tert-butyl ether	3.810	59	193251	18.80	ug/L		95
30) 2-butanone	3.929	72	50349	72.54	ug/L		97
31) 1,1-dichloroethane	3.573	63	98147	18.45	ug/L		98
32) chloroprene	3.624	53	81706	17.02	ug/L		96
33) acrylonitrile	3.236	53	34871	17.49	ug/L		95
34) vinyl acetate	3.544	86	15296	20.14	ug/L	#	85
35) ethyl acetate	3.936	45	15629	18.37	ug/L	#	41
36) 2,2-dichloropropane	3.971	77	80805	19.00	ug/L		96
37) cis-1,2-dichloroethene	3.958	96	52054	17.34	ug/L		89
38) propionitrile	3.977	54	139972	189.57	ug/L		91
39) methyl acrylate	3.984	85	13080	18.37	ug/L		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\October 2022\Oct. 31, 2022\vl10552\
Data File : l348799.d
Acq On : 29 Oct 2022 10:33 am
Operator : BridgetK
Sample : cc10548-20 Inst : GCMSL
Misc : MS63359,VL10552,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Results File: ML10548.RES
Quant Time: Oct 31 22:19:58 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Fri Oct 28 18:07:24 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
40) bromochloromethane	4.125	128	24375	18.41	ug/L		93
41) tetrahydrofuran	4.141	72	14601	18.87	ug/L		98
42) chloroform	4.179	83	91043	17.54	ug/L		94
44) methacrylonitrile	4.086	67	36483	18.00	ug/L		98
45) 1,1,1-trichloroethane	4.324	97	72299	16.72	ug/L		95
46) cyclohexane	4.378	84	67551	14.97	ug/L		94
47) 1,1-dichloropropene	4.430	75	67158	17.16	ug/L		93
48) carbon tetrachloride	4.433	117	58387	16.96	ug/L		98
49) isopropyl acetate	4.545	87	17430	19.71	ug/L	#	81
50) tert amyl alcohol	4.526	55	25295	85.34	ug/L		95
53) tert-amyl methyl ether	4.638	73	163785	19.58	ug/L		98
54) 2,2,4-trimethylpentane	4.638	57	174920	18.87	ug/L		95
55) n-butyl alcohol	4.908	56	161071	885.47	ug/L		99
56) benzene	4.577	78	195524	17.81	ug/L		99
57) heptane	4.751	57	40199	18.31	ug/L		96
58) 1,2-dichloroethane	4.600	62	70656	19.61	ug/L		97
59) trichloroethene	5.046	95	49898	17.65	ug/L		93
60) ethyl acrylate	5.062	55	108322	20.31	ug/L		98
61) 2-nitropropane	5.591	41	24495	18.57	ug/L		94
62) 2-chloroethyl vinyl ether	5.623	63	202612	96.49	ug/L		98
63) methyl methacrylate	5.242	100	21465	20.59	ug/L		95
64) 1,2-dichloropropane	5.242	63	56386	19.01	ug/L		99
65) methylcyclohexane	5.229	83	91998	18.18	ug/L		94
66) dibromomethane	5.312	93	32305	18.79	ug/L		95
67) bromodichloromethane	5.431	83	71372	17.97	ug/L		98
68) cis-1,3-dichloropropene	5.771	75	87244	18.31	ug/L		93
69) epichlorohydrin	5.675	57	56115	95.38	ug/L		98
70) 4-methyl-2-pentanone	5.864	58	149495	78.12	ug/L		96
71) 3-methyl-1-butanol	5.887	70	59423	344.74	ug/L		90
74) toluene	6.053	92	120511	17.37	ug/L		90
75) trans-1,3-dichloropropene	6.223	75	80614	18.42	ug/L		95
76) ethyl methacrylate	6.240	69	89407	19.89	ug/L		95
77) 1,1,2-trichloroethane	6.394	83	44687	19.18	ug/L		93
78) 2-hexanone	6.557	58	157910	75.58	ug/L		93
79) tetrachloroethene	6.487	166	51729	18.01	ug/L		93
80) 1,3-dichloropropane	6.535	76	87247	18.91	ug/L		98
81) butyl acetate	6.637	56	55183	19.24	ug/L		88
82) dibromochloromethane	6.724	129	51576	18.09	ug/L		94
83) 1,2-dibromoethane	6.846	107	55665	19.30	ug/L		98
84) n-butyl ether	7.311	57	234891	19.36	ug/L		98
85) chlorobenzene	7.270	112	127659	18.21	ug/L		91
86) 1,1,1,2-tetrachloroethane	7.340	131	43611	18.37	ug/L		97
87) ethylbenzene	7.343	91	220150	17.54	ug/L		98
88) m,p-xylene	7.456	106	172425	35.26	ug/L		98
89) o-xylene	7.812	106	87131	18.04	ug/L		97
90) butyl acrylate	7.735	55	137287	19.93	ug/L		99
91) styrene	7.831	104	146593	18.41	ug/L		96
92) bromoform	8.008	173	37461	17.32	ug/L		99
93) isopropylbenzene	8.149	105	226893	18.03	ug/L		99
94) cis-1,4-dichloro-2-butene	8.203	88	15935	12.45	ug/L		88
97) bromobenzene	8.467	156	52418	19.10	ug/L		94
98) 1,1,2,2-tetrachloroethane	8.434	83	82702	19.58	ug/L		96
99) trans-1,4-dichloro-2-b...	8.470	53	13987	13.12	ug/L		94
100) 1,2,3-trichloropropane	8.495	110	21933	19.24	ug/L		94
101) n-propylbenzene	8.544	91	248397	18.86	ug/L		98
102) 2-chlorotoluene	8.640	126	47891	18.39	ug/L		96
103) 4-chlorotoluene	8.752	126	48676	18.65	ug/L		89

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\October 2022\Oct. 31, 2022\vl10552\
Data File : l348799.d
Acq On : 29 Oct 2022 10:33 am
Operator : BridgetK
Sample : cc10548-20 Inst : GCMSL
Misc : MS63359,VL10552,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Results File: ML10548.RES
Quant Time: Oct 31 22:19:58 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Fri Oct 28 18:07:24 2022
Response via : Initial Calibration

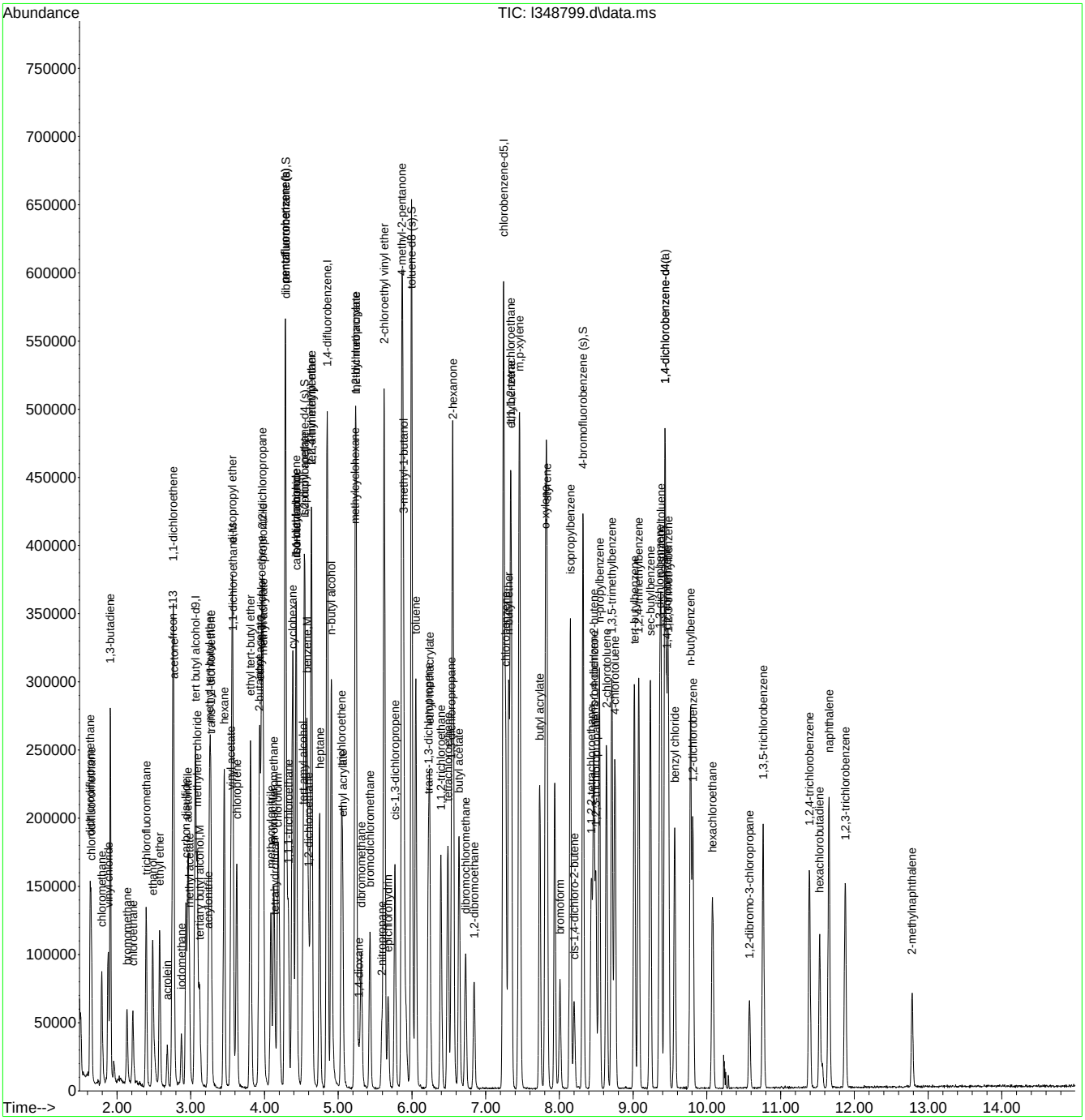
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3,5-trimethylbenzene	8.710	105	173657	18.20	ug/L	97
105) tert-butylbenzene	9.018	119	145718	17.94	ug/L	98
106) 1,2,4-trimethylbenzene	9.073	105	175286	18.78	ug/L	96
107) sec-butylbenzene	9.233	105	219537	18.49	ug/L	97
108) 1,3-dichlorobenzene	9.362	146	91217	19.09	ug/L	98
109) p-isopropyltoluene	9.378	119	167640	18.21	ug/L	99
110) 1,4-dichlorobenzene	9.458	146	84041	17.97	ug/L	96
111) 1,2,3-trimethylbenzene	9.477	105	166681	18.63	ug/L	96
112) 1,2-dichlorobenzene	9.811	146	86274	19.11	ug/L	93
113) n-butylbenzene	9.776	92	88678	18.91	ug/L	97
114) 1,2-dibromo-3-chloropr...	10.575	157	19675	18.09	ug/L	96
115) 1,3,5-trichlorobenzene	10.764	180	63624	19.97	ug/L	95
116) 1,2,4-trichlorobenzene	11.390	180	53382	20.09	ug/L	96
117) hexachlorobutadiene	11.528	225	22239	18.82	ug/L	88
118) naphthalene	11.656	128	175357	19.30	ug/L	98
119) 1,2,3-trichlorobenzene	11.878	180	48624	19.15	ug/L	96
120) hexachloroethane	10.077	119	32062	18.47	ug/L	94
121) benzyl chloride	9.564	91	148576	20.64	ug/L	99
122) 2-methylnaphthalene	12.779	142	36074	7.97	ug/L	89

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\October 2022\Oct. 31, 2022\vl10552\
Data File : l348799.d
Acq On : 29 Oct 2022 10:33 am
Operator : BridgetK
Sample : cc10548-20 Inst : GCMSL
Misc : MS63359,VL10552,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\ML10548.M
Quant Results File: ML10548.RES
Quant Time: Oct 31 22:19:58 2022
Quant Title : SW846 Method V8260C/D, column ZB-624 60m x 0.25mm x 1.4 um
QLast Update : Fri Oct 28 18:07:24 2022
Response via : Initial Calibration



GCMS Volatile Run Log

Standard / Reagents	Lot #					
Standard	ABK: V022-2752-121.51	EC: V022-2756-1.1	AA: V022-2752-125.37	EXT PA: V022-2752-137.1	Column	Rxi-624(60mx0.25mmx1.4um)
Standard Concentration	100-10,000ppm	100ppm	100ppm	10/19/22	Method	v8260d
Expiration Date	10/21/2022	10/19/22	10/27/2022	11/3/2022	Init Calib Date	10/14/22
Standard	EXT ABK: V022-2752-144.1	EXT EC: V022-2752-147	EXT Acrolein: V022-2752-128.1	EXT Chlorodifluoromethane:		
Standard Concentration	100-10,000ppm	100ppm	10/19/22	10/19/22	Analysis Date	10/13/2022
Expiration Date	11/8/2022	10/18/22	10/27/2022	10/20/2022	Sequence loaded by	Prashant S.
Internal Surrogate	V022-2752-135				Data processed by	Bridget K.
Internal Surrogate Concentration	50/500ppm				Batch ID	V2A9596
Expiration Date	10/30/2022				Matrix	AQ
					Approved By:	MOHUI
pH paper Lot# (wide range):	222221	8/1/2024	Initial Calibration Method	M2A9596	Approved Date:	10/28/2022 6:10:02 PM

Data File		Sample ID	Bot #	Dil	Workgroup #	Test	Purge Vol (ml)	IS/Surr	pH	ALS #	Status	Comments
2A	220735	BFB		NA			5			1	ok	5:42pm
2A	220736	IC9596-0.2		NA		AQ Initial Calibration	5			2	ok	2ul abk,ec,aa/1000ml
2A	220737	IC9596-0.5		NA		AQ Initial Calibration	5			3	ok	5ul abk,ec,aa/1000ml
2A	220738	IC9596-1		NA		AQ Initial Calibration	5			4	ok	1ul abk,ec,aa/100ml
2A	220739	IC9596-2		NA		AQ Initial Calibration	5			5	ok	2ul abk,ec,aa/100ml
2A	220740	IC9596-4		NA		AQ Initial Calibration	5			6	ok	4ul abk,ec,aa/100ml
2A	220741	IC9596-8		NA		AQ Initial Calibration	5			7	ok	8ul abk,ec,aa/100ml
2A	220742	IC9596-20		NA		AQ Initial Calibration	5			8	ok	20ul abk,ec,aa/100ml
2A	220743	ICC9596-50		NA		AQ Initial Calibration	5			9	ok	50ul abk,ec,aa/100ml
2A	220744	IC9596-100		NA		AQ Initial Calibration	5			10	ok	100ul abk,ec,aa/100ml
2A	220745	IC9596-200		NA		AQ Initial Calibration	5			11	ok	200ul abk,ec,aa/100ml

Data File		Sample ID	Bot #	Dil	Workgroup #	Test	Purge Vol (ml)	IS/Surr	pH	ALS #	Status	Comments
2A	220746	IB		NA			5			12	ok	
2A	220747	IB		NA			5			13	ok	
2A	220748	ICV9596-50		NA		AQ Initial Calibration	5			14	ok	50ul EXT abk,ec,acrolein/100ml
2A	220749	ICV9596-50		NA		AQ Initial Calibration	5			15	ok	50ul EXT PA, Chlorodifluoromethane/100ml

GCMS Volatile Run Log

Standard / Reagents	Lot #				Column	Rxi-624(60mx0.25mmx1.4um)
Standard	ABK: V022-2756-10.10	EC: V022-2756-13.8	AA: V022-2752-125.8		Method	v8260d
Standard Concentration	100-10,000ppm	100ppm	100ppm		Init Calib Date	10/14/22
Expiration Date	11/18/2022	10/27/22	10/27/2022			
Internal Surrogate	V022-2752-135					
Internal Surrogate Concentration	250/2500ppm				Analysis Date	10/27/2022
Expiration Date	10/30/2022				Sequence loaded by	nickw
					Data processed by	nelsonf
					Batch ID	V2A9619
Rough reviewed by					Matrix	AQ
					Approved By:	MOHUI
pH paper Lot# (wide range):	222221	8/1/2024	Initial Calibration Method	M2A9596	Approved Date:	11/1/2022 5:47:02 PM

Data File		Sample ID	Bot #	Dil	Workgroup #	Test	Purge Vol (ml)	IS/Surr	pH	ALS #	Status	Comments
2a	221286	IB		NA			5			1	OK	
2a	221287	BFB/CC9596-50		NA			5			2	OK/OK	50uL ABK, AA, EC/ 100mL, (10:49PM)
2a	221288	CC9596-1		NA			5			3	OK	1uL ABK, AA, EC/ 100mL
2a	221289	BS		NA			5			4	OK	50uL ABK, AA, EC/ 100mL
2a	221290	IB		NA			5			5	OK	
2a	221291	MB		NA			5			6	OK	
2a	221292	JD54302-5	2	NA	MS63421	V8260TCL42	5		1	7	OK	
2a	221293	JD54302-4	2	10X	MS63421	V8260TCL42	5/50		1	8	RR	O/D
2a	221294	JD54347-1	1	NA	MS63447	V8260TICS+	5		1	9	OK	
2a	221295	JD54347-2	2	NA	MS63447	V8260TICS+	5		1	10	OK	
2a	221296	JD54302-4MS	2	10x	MS63421	V8260TCL42	5/50		1	11	OK	25uL ABK, AA, EC/ 50mL

Data File		Sample ID	Bot #	Dil	Workgroup #	Test	Purge Vol (ml)	IS/Surr	pH	ALS #	Status	Comments
2a	221297	JD54302-4MSD	2	10x	MS63421	V8260TCL42	5/50		1	12	OK	25uL ABK, AA, EC/ 50mL
2a	221298	IB		NA			5			13	OK	
2a	221299	JD54347-3	2	NA	MS63447	V8260TICS+	5		1	14	OK	
2a	221300	JD54347-4	1	NA	MS63447	V8260TICS+	5		1	15	OK	
2a	221301	JD54250-4	2	10x	MS63398	V8260TCL20+	5/50		1	16	RR	CC HIT, O/D
2a	221302	JD54250-5	2	5x	MS63398	V8260TCL20+	10/50		1	17	RR	CC HIT, O/D
2a	221303	JD54250-1	2	NA	MS63398	V8260TCL20+	5		1	18	OK	
2a	221304	JD54250-2	2	NA	MS63398	V8260TCL20+	5		1	19	RR	CC HIT
2a	221305	JD54250-3	2	NA	MS63398	V8260TCL20+	5		1	20	RR	CC HIT, F/D
2a	221306	JD54250-6	2	NA	MS63398	V8260TCL20+	5		1	21	OK	
2a	221307	JD54250-7	4	NA	MS63398	V8260TCL20+	5		1	22	OK	
2a	221308	JD54302-1	2	NA	MS63421	V8260TCL42	5		1	23	OK	8:44A.M.
2a	221309	JD54302-2	2	NA	MS63421	V8260TCL42	5			24	NR	
2a	221310	JD54302-3	2	NA	MS63421	V8260TCL42	5			25	NR	

GCMS Volatile Run Log

Standard / Reagents	Lot #					
Standard	ABK: V022-2756-10.25	EC: V022-2756-13.2	AA :V022-2756-24.21	EXT PA v022-2752-137.1	Column	Rxi-624(60mx0.25mmx1.4um)
Standard Concentration	100-10,000ppm	100ppm	100ppm	100ppm	Method	V8260D
Expiration Date	11/18/22	10/27/22	11/27/2022	11/13/22	Init Calib Date	10/27/22
Internal Surrogate	V022-2752-136					
Internal Surrogate Concentration	50/500ppm				Analysis Date	10/27/2022
Expiration Date	10/30/2022				Sequence loaded by	Prashant S
Standard	EXT ABK v022-2752-144.5	EXT EC v022-2756-22.2	EXT Acro v022-2756-25.4	EXT Chlorodifluoromethane	Data processed by	Bridget Kelly
Standard Concentration	100-10,000ppm	100ppm	100ppm	100ppm	Batch ID	VL10548
Expiration Date	11/8/22	11/3/22	11/27/2022	11/24/22	Matrix	AQ
					Approved By:	MOHUI
pH paper Lot# (narrow range):	222221	8/1/2024	Initial Calibration Method	ML10548	Approved Date:	11/8/2022 9:19:35 AM

Data File		Sample ID	Bot #	Dil	Workgroup #	Test	Purge Vol (ml)	IS/Surr	pH	ALS #	Status	Comments
I	348706	IB		NA			5			1	ok	
I	348707	BFB		NA			5			2	ok	
I	348708	IC10548-0.2		NA			5			3	ok	2 uL ABK EC AA / 1000 mL
I	348709	IC10548-0.5		NA			5			4	ok	5 uL ABK EC AA / 1000 mL
I	348710	IC10548-1		NA			5			5	ok	1 uL ABK EC AA / 100 mL
I	348711	IC10548-2		NA			5			6	ok	2 uL ABK EC AA / 100 mL
I	348712	IC10548-4		NA			5			7	ok	4 uL ABK EC AA / 100 mL
I	348713	IC10548-8		NA			5			8	ok	8 uL ABK EC AA / 100 mL
I	348714	IC10548-20		NA			5			9	ok	20 uL ABK EC AA / 100 mL
I	348715	ICC10548-50		NA			5			10	ok	50 uL ABK EC AA / 100 mL
I	348716	IC10548-100		NA			5			11	ok	100 uL ABK EC AA / 100 mL

Data File		Sample ID	Bot #	Dil	Workgroup #	Test	Purge Vol (ml)	IS/Surr	pH	ALS #	Status	Comments
I	348717	IC10548-200		NA			5			12	ok	200 uL ABK EC AA / 100 mL
I	348718	IB		NA			5			13	ok	
I	348719	IB		NA			5			14	ok	
I	348720	ICV10548-50		NA			5			15	ok	50 uL EXT ABK EC Acro / 100 mL
I	348721	ICV10548-50		NA			5			16	ok	50 uL EXT PA Chlorodifluoromethane

GCMS Volatile Run Log

Standard / Reagents	Lot #				Column	Rxi-624(60mx0.25mmx1.4um)
Standard	ABK: V022-2756-10.24	EC: V022-2756-16.2	AA :V022-2756-24.1		Method	V8260D
Standard Concentration	100-10,000ppm	100ppm	100ppm		Init Calib Date	10/27/22
Expiration Date	11/18/22	11/1/2022	11/27/2022			
Internal Surrogate	V022-2752-136					
Internal Surrogate Concentration	50/500ppm				Analysis Date	10/29/2022
Expiration Date	10/30/2022				Sequence loaded by	Bridget Kelly
					Data processed by	angieg
					Batch ID	VL10552
Rough reviewed by					Matrix	AQ
					Approved By:	MEI
pH paper Lot# (narrow range):	222221	8/1/2024	Initial Calibration Method	ML10548	Approved Date:	11/1/2022 6:26:22 PM

Data File		Sample ID	Bot #	Dil	Workgroup #	Test	Purge Vol (ml)	IS/Surr	pH	ALS #	Status	Comments
I	348797	IB		NA			5			1	ok	
I	348798	CC10548-20		NA			5			2	not used	20 uL ABK EC AA / 100 mL
I	348799	BFB/CC10548-20		NA			5			3	ok/ok	10:33am 20 uL ABK EC AA / 100 mL
I	348800	CC10548-1		NA			5			4	ok	1 uL ABK EC AA / 100 mL
I	348801	BS		NA			5			5	ok	50 uL ABK EC AA / 100 mL
I	348802	IB		NA			5			6	ok	
I	348803	MB		NA			5			7	ok	
I	348804	JD54302-4	1	NA	MS63421	V8260TCL42	5		1	8	rr	f/d
I	348805	JD54227-6	1	10x	MS63376	V8260TCL20	5/50		1	9	ok	
I	348806	JD54227-6	1	NA	MS63376	V8260TCL20	5		1	10	rr	f/d
I	348807	JD54210-28	2	250x	MS63354	V8260MASTD	0.2/50		1	11	ok	

Data File		Sample ID	Bot #	Dil	Workgroup #	Test	Purge Vol (ml)	IS/Surr	pH	ALS #	Status	Comments
I	348808	JD54210-32	2	500x	MS63354	V8260MASTD	0.1/50		1	12	ok	
I	348809	JD54108-4	2	50x	MS63384	V8260SL	1/50		1	13	ok	dilution due to NT
I	348810	JD54108-5	2	50x	MS63384	V8260SL	1/50		1	14	ok	
I	348811	JD54108-4MS	2	50x	MS63384	V8260SL	1/50		1	15	ok	25 uL ABK EC AA / 50 mL
I	348812	JD54108-4MSD	2	50x	MS63384	V8260SL	1/50		1	16	ok	25 uL ABK EC AA / 50 mL
I	348813	IB		NA			5			17	ok	
I	348814	JD54085-3	2	NA	MS63305	V8260MA8010L	5		1	18	ok	
I	348815	JD54263-11	3	NA	MS63401	V8260CP51GTCL20	5		1	19	ok	
I	348816	JD54302-2	2	NA	MS63421	V8260TCL42	5		1	20	ok	
I	348817	JD54302-3	2	NA	MS63421	V8260TCL42	5		1	21	ok	
I	348818	JD54435-1	1	NA	MS63499	V8260BTXMT	5		1	22	ok	
I	348819	JD54435-2	1	NA	MS63499	V8260BTXMT	5		1	23	ok	
I	348820	JD54435-3	1	NA	MS63499	V8260BTXMT	5		1	24	ok	
I	348821	JD54435-4	1	10x	MS63499	V8260BTXMT	5/50		1	25	ok	
I	348822	JD54435-5	2	NA	MS63499	V8260BTXMT	5		1	26	ok	
I	348823	JD54435-6	2	NA	MS63499	V8260BTXMT	5		1	27	ok	
I	348824	JD54435-7	1	NA	MS63499	V8260BTXMT	5		1	28	ok	
I	348825	JD54435-8	1	NA	MS63499	V8260BTXMT	5		1	29	ok	
I	348826	JD54085-1	2	2500x	MS63305	V8260MA8010L	20uL/50 mL		1	30	ok	
I	348827	JD54085-1	2	250x	MS63305	V8260MA8010L	0.2/50		1	31	rr	f/d

Data File		Sample ID	Bot #	Dil	Workgroup #	Test	Purge Vol (ml)	IS/Surr	pH	ALS #	Status	Comments
I	348828	JD54085-2	2	500x	MS63305	V8260MA8010L	0.1/50		1	32	ok	
I	348829	JD54085-2	2	50x	MS63305	V8260MA8010L	1/50		1	33	rr	f/d; 10:25pm
I	348830	IB		NA			5			34	ok	

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

WSP USA Environment & Infrastructure Inc

EPT, Ithaca, NY

31405608.001 02

SGS Job Number: JD54338

Sampling Date: 10/24/22



Report to:

WSP
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ATTN: Nathaniel Winston

Total number of pages in report: 640

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

David Chastain
General Manager

Client Service contact: Tammy McCloskey 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA(68-00408), RI, SC, TX, UT, VA, WV

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SGS North America Inc.

Sample Summary

WSP USA Environment & Infrastructure Inc

Job No: JD54338

EPT, Ithaca, NY
Project No: 31405608.001 02

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JD54338-1	10/24/22	12:00	NW	10/25/22	AIR	Soil Vapor Comp.	VPOST GAC
JD54338-2	10/24/22	12:20	NW	10/25/22	AIR	Soil Vapor Comp.	VINF

This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the MDL

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	WSP USA Environment & Infrastructure Inc	**Job No**	JD54338
Site:	EPT, Ithaca, NY	**Report Date**	11/10/2022 2:34:24 P

On 10/25/2022, 2 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of XXXXNO TEMPERATURE FOUNDXXXX C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JD54338 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

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

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

MS Volatiles By Method TO-15

Matrix: AIR **Batch ID:** V6W1137

- All samples were analyzed within the recommended method holding time.
- Sample(s) JD53652-1DUP were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Matrix: AIR **Batch ID:** V6W1138

- All samples were analyzed within the recommended method holding time.
- Sample(s) JD54423-15DUP were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

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

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

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

Summary of Hits

Job Number: JD54338
Account: WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY
Collected: 10/24/22

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD54338-1	**VPOST GAC**					
Acetone (2-Propanone)		11.6	0.80	0.58	ppbv	TO-15
Benzene		3.0	0.80	0.25	ppbv	TO-15
Dichlorodifluoromethane		0.53 J	0.80	0.13	ppbv	TO-15
cis-1,2-Dichloroethylene		6.4	0.16	0.31	ppbv	TO-15
Ethanol		39.8	2.0	1.6	ppbv	TO-15
Ethyl Acetate		411	8.0	4.2	ppbv	TO-15
Heptane		0.42 J	0.80	0.37	ppbv	TO-15
Isopropyl Alcohol		5.5	0.80	0.56	ppbv	TO-15
Methylene chloride		2.4	0.80	0.22	ppbv	TO-15
Toluene		11.3	0.80	0.23	ppbv	TO-15
Trichloroethylene		9.5	0.16	0.076	ppbv	TO-15
Trichlorofluoromethane		0.45	0.40	0.14	ppbv	TO-15
Vinyl chloride		1.5	0.16	0.28	ppbv	TO-15
Vinyl Acetate		7.7	0.80	0.45	ppbv	TO-15
Acetone (2-Propanone)		27.6	1.9	1.4	ug/m3	TO-15
Benzene		9.6	2.6	0.80	ug/m3	TO-15
Dichlorodifluoromethane		2.6 J	4.0	0.64	ug/m3	TO-15
cis-1,2-Dichloroethylene		25	0.63	1.2	ug/m3	TO-15
Ethanol		75.0	3.8	3.0	ug/m3	TO-15
Ethyl Acetate		1480	29	15	ug/m3	TO-15
Heptane		1.7 J	3.3	1.5	ug/m3	TO-15
Isopropyl Alcohol		14	2.0	1.4	ug/m3	TO-15
Methylene chloride		8.3	2.8	0.76	ug/m3	TO-15
Toluene		42.6	3.0	0.87	ug/m3	TO-15
Trichloroethylene		51	0.86	0.41	ug/m3	TO-15
Trichlorofluoromethane		2.5	2.2	0.79	ug/m3	TO-15
Vinyl chloride		3.8	0.41	0.72	ug/m3	TO-15
Vinyl Acetate		27	2.8	1.6	ug/m3	TO-15
JD54338-2	**VINF**					
Acetone (2-Propanone)		8.8	0.80	0.58	ppbv	TO-15
Benzene		0.74 J	0.80	0.25	ppbv	TO-15
Dichlorodifluoromethane		0.50 J	0.80	0.13	ppbv	TO-15
cis-1,2-Dichloroethylene		7.3	0.16	0.31	ppbv	TO-15
Ethanol		17.2	2.0	1.6	ppbv	TO-15
Ethyl Acetate		141	0.80	0.42	ppbv	TO-15
Isopropyl Alcohol		2.1	0.80	0.56	ppbv	TO-15
Methylene chloride		2.0	0.80	0.22	ppbv	TO-15
Toluene		2.6	0.80	0.23	ppbv	TO-15
Trichloroethylene		3.1	0.16	0.076	ppbv	TO-15
Vinyl Acetate		1.4	0.80	0.45	ppbv	TO-15
Acetone (2-Propanone)		21	1.9	1.4	ug/m3	TO-15

Summary of Hits

Job Number: JD54338
Account: WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY
Collected: 10/24/22

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Benzene		2.4 J	2.6	0.80	ug/m3	TO-15
Dichlorodifluoromethane		2.5 J	4.0	0.64	ug/m3	TO-15
cis-1,2-Dichloroethylene		29	0.63	1.2	ug/m3	TO-15
Ethanol		32.4	3.8	3.0	ug/m3	TO-15
Ethyl Acetate		507	2.9	1.5	ug/m3	TO-15
Isopropyl Alcohol		5.2	2.0	1.4	ug/m3	TO-15
Methylene chloride		6.9	2.8	0.76	ug/m3	TO-15
Toluene		9.8	3.0	0.87	ug/m3	TO-15
Trichloroethylene		17	0.86	0.41	ug/m3	TO-15
Vinyl Acetate		4.9	2.8	1.6	ug/m3	TO-15

Sample Results

Report of Analysis

SGS North America Inc.

Report of Analysis

Client Sample ID:	VPOST GAC		
Lab Sample ID:	JD54338-1	**Date Sampled:**	10/24/22
Matrix:	AIR - Soil Vapor Comp. Summa ID: A502	**Date Received:**	10/25/22
Method:	TO-15	**Percent Solids:**	n/a
Project:	EPT, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6W26841.D	1	11/03/22 21:12	TCH	n/a	n/a	V6W1137
Run #2	6W26868.D	1	11/04/22 12:51	TCH	n/a	n/a	V6W1138

	Initial Volume
Run #1	100 ml
Run #2	10.0 ml

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone (2-Propanone)	11.6	0.80	0.58	ppbv		27.6	1.9	1.4	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.34	ppbv		ND	1.8	0.75	ug/m3
71-43-2	78.11	Benzene	3.0	0.80	0.25	ppbv		9.6	2.6	0.80	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.40	0.12	ppbv		ND	2.7	0.80	ug/m3
75-25-2	252.8	Bromoform	ND	0.16	0.28	ppbv		ND	1.7	2.9	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.28	ppbv		ND	3.1	1.1	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.24	ppbv		ND	3.5	1.0	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.50	ppbv		ND	4.1	2.6	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.80	0.18	ppbv		ND	2.5	0.56	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.30	ppbv		ND	3.7	1.4	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.27	ppbv		ND	2.1	0.71	ug/m3
67-66-3	119.4	Chloroform	ND	0.80	0.15	ppbv		ND	3.9	0.73	ug/m3
74-87-3	50.49	Chloromethane	ND	0.80	0.36	ppbv		ND	1.7	0.74	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.33	ppbv		ND	2.5	1.0	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.29	ppbv		ND	4.1	1.5	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.16	0.16	ppbv		ND	1.0	1.0	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.80	0.44	ppbv		ND	2.8	1.5	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.80	0.23	ppbv		ND	3.2	0.93	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.16	0.24	ppbv		ND	0.63	0.95	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	ND	0.40	0.39	ppbv		ND	3.1	3.0	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.28	ppbv		ND	3.2	1.1	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.25	ppbv		ND	3.7	1.2	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.47	ppbv		ND	2.9	1.7	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.53	0.80	0.13	ppbv	J	2.6	4.0	0.64	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.40	0.21	ppbv		ND	3.4	1.8	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.28	ppbv		ND	3.2	1.1	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	6.4	0.16	0.31	ppbv		25	0.63	1.2	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.25	ppbv		ND	3.6	1.1	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.40	0.16	ppbv		ND	2.4	0.96	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.16	0.62	ppbv		ND	0.96	3.7	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.40	0.76	ppbv		ND	2.4	4.6	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.40	ppbv		ND	3.6	1.8	ug/m3

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

Report of Analysis

Client Sample ID: VPOST GAC
Lab Sample ID: JD54338-1
Matrix: AIR - Soil Vapor Comp. Summa ID: A502
Method: TO-15
Project: EPT, Ithaca, NY

Date Sampled: 10/24/22
Date Received: 10/25/22
Percent Solids: n/a

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	39.8	2.0	1.6	ppbv		75.0	3.8	3.0	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.80	0.24	ppbv		ND	3.5	1.0	ug/m3
141-78-6	88	Ethyl Acetate	411 [a]	8.0	4.2	ppbv		1480 [a]	29	15	ug/m3
622-96-8	120.19	4-Ethyltoluene	ND	0.80	0.38	ppbv		ND	3.9	1.9	ug/m3
76-13-1	187.4	Freon 113	ND	0.40	0.12	ppbv		ND	3.1	0.92	ug/m3
76-14-2	170.9	Freon 114	ND	0.40	0.20	ppbv		ND	2.8	1.4	ug/m3
142-82-5	100.2	Heptane	0.42	0.80	0.37	ppbv	J	1.7	3.3	1.5	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.36	0.25	ppbv		ND	3.8	2.7	ug/m3
110-54-3	86.18	Hexane	ND	0.80	0.45	ppbv		ND	2.8	1.6	ug/m3
591-78-6	100	2-Hexanone	ND	0.80	0.58	ppbv		ND	3.3	2.4	ug/m3
67-63-0	60.1	Isopropyl Alcohol	5.5	0.80	0.56	ppbv		14	2.0	1.4	ug/m3
75-09-2	84.94	Methylene chloride	2.4	0.80	0.22	ppbv		8.3	2.8	0.76	ug/m3
78-93-3	72.11	Methyl ethyl ketone	ND	0.80	0.44	ppbv		ND	2.4	1.3	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.80	0.29	ppbv		ND	3.3	1.2	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.32	ppbv		ND	2.9	1.2	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.28	ppbv		ND	3.3	1.1	ug/m3
115-07-1	42	Propylene	ND	2.0	0.57	ppbv		ND	3.4	0.98	ug/m3
100-42-5	104.1	Styrene	ND	0.80	0.47	ppbv		ND	3.4	2.0	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.40	0.15	ppbv		ND	2.2	0.82	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	ND	0.40	0.19	ppbv		ND	2.7	1.3	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.40	0.15	ppbv		ND	2.2	0.82	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.40	0.48	ppbv		ND	3.0	3.6	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	ND	0.80	0.35	ppbv		ND	3.9	1.7	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	ND	0.80	0.32	ppbv		ND	3.9	1.6	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.80	0.38	ppbv		ND	3.7	1.8	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.80	0.37	ppbv		ND	2.4	1.1	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	0.16	0.056	ppbv		ND	1.1	0.38	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.80	0.36	ppbv		ND	2.4	1.1	ug/m3
108-88-3	92.14	Toluene	11.3	0.80	0.23	ppbv		42.6	3.0	0.87	ug/m3
79-01-6	131.4	Trichloroethylene	9.5	0.16	0.076	ppbv		51	0.86	0.41	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.45	0.40	0.14	ppbv		2.5	2.2	0.79	ug/m3
75-01-4	62.5	Vinyl chloride	1.5	0.16	0.28	ppbv		3.8	0.41	0.72	ug/m3
108-05-4	86	Vinyl Acetate	7.7	0.80	0.45	ppbv		27	2.8	1.6	ug/m3
	106.2	m,p-Xylene	ND	0.80	0.56	ppbv		ND	3.5	2.4	ug/m3
95-47-6	106.2	o-Xylene	ND	0.80	0.31	ppbv		ND	3.5	1.3	ug/m3
1330-20-7	106.2	Xylenes (total)	ND	0.80	0.31	ppbv		ND	3.5	1.3	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	99%	97%	65-128%

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

Report of Analysis

Client Sample ID:	VPOST GAC		
Lab Sample ID:	JD54338-1	**Date Sampled:**	10/24/22
Matrix:	AIR - Soil Vapor Comp. Summa ID: A502	**Date Received:**	10/25/22
Method:	TO-15	**Percent Solids:**	n/a
Project:	EPT, Ithaca, NY		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units

(a) Result is from Run# 2

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

SGS North America Inc.

Report of Analysis

Client Sample ID:	VINF		
Lab Sample ID:	JD54338-2	**Date Sampled:**	10/24/22
Matrix:	AIR - Soil Vapor Comp. Summa ID: A409	**Date Received:**	10/25/22
Method:	TO-15	**Percent Solids:**	n/a
Project:	EPT, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6W26842.D	1.48	11/03/22 21:46	TCH	n/a	n/a	V6W1137
Run #2							

	Initial Volume
Run #1	148 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone (2-Propanone)	8.8	0.80	0.58	ppbv		21	1.9	1.4	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.34	ppbv		ND	1.8	0.75	ug/m3
71-43-2	78.11	Benzene	0.74	0.80	0.25	ppbv	J	2.4	2.6	0.80	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.40	0.12	ppbv		ND	2.7	0.80	ug/m3
75-25-2	252.8	Bromoform	ND	0.16	0.28	ppbv		ND	1.7	2.9	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.28	ppbv		ND	3.1	1.1	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.24	ppbv		ND	3.5	1.0	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.50	ppbv		ND	4.1	2.6	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.80	0.18	ppbv		ND	2.5	0.56	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.30	ppbv		ND	3.7	1.4	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.27	ppbv		ND	2.1	0.71	ug/m3
67-66-3	119.4	Chloroform	ND	0.80	0.15	ppbv		ND	3.9	0.73	ug/m3
74-87-3	50.49	Chloromethane	ND	0.80	0.36	ppbv		ND	1.7	0.74	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.33	ppbv		ND	2.5	1.0	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.29	ppbv		ND	4.1	1.5	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.16	0.16	ppbv		ND	1.0	1.0	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.80	0.44	ppbv		ND	2.8	1.5	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.80	0.23	ppbv		ND	3.2	0.93	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.16	0.24	ppbv		ND	0.63	0.95	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	ND	0.40	0.39	ppbv		ND	3.1	3.0	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.28	ppbv		ND	3.2	1.1	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.25	ppbv		ND	3.7	1.2	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.47	ppbv		ND	2.9	1.7	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.50	0.80	0.13	ppbv	J	2.5	4.0	0.64	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.40	0.21	ppbv		ND	3.4	1.8	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.28	ppbv		ND	3.2	1.1	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	7.3	0.16	0.31	ppbv		29	0.63	1.2	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.25	ppbv		ND	3.6	1.1	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.40	0.16	ppbv		ND	2.4	0.96	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.16	0.62	ppbv		ND	0.96	3.7	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.40	0.76	ppbv		ND	2.4	4.6	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.40	ppbv		ND	3.6	1.8	ug/m3

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

Report of Analysis

Client Sample ID: VINF
Lab Sample ID: JD54338-2
Matrix: AIR - Soil Vapor Comp. Summa ID: A409
Method: TO-15
Project: EPT, Ithaca, NY

Date Sampled: 10/24/22
Date Received: 10/25/22
Percent Solids: n/a

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	17.2	2.0	1.6	ppbv		32.4	3.8	3.0	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.80	0.24	ppbv		ND	3.5	1.0	ug/m3
141-78-6	88	Ethyl Acetate	141	0.80	0.42	ppbv		507	2.9	1.5	ug/m3
622-96-8	120.19	4-Ethyltoluene	ND	0.80	0.38	ppbv		ND	3.9	1.9	ug/m3
76-13-1	187.4	Freon 113	ND	0.40	0.12	ppbv		ND	3.1	0.92	ug/m3
76-14-2	170.9	Freon 114	ND	0.40	0.20	ppbv		ND	2.8	1.4	ug/m3
142-82-5	100.2	Heptane	ND	0.80	0.37	ppbv		ND	3.3	1.5	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.36	0.25	ppbv		ND	3.8	2.7	ug/m3
110-54-3	86.18	Hexane	ND	0.80	0.45	ppbv		ND	2.8	1.6	ug/m3
591-78-6	100	2-Hexanone	ND	0.80	0.58	ppbv		ND	3.3	2.4	ug/m3
67-63-0	60.1	Isopropyl Alcohol	2.1	0.80	0.56	ppbv		5.2	2.0	1.4	ug/m3
75-09-2	84.94	Methylene chloride	2.0	0.80	0.22	ppbv		6.9	2.8	0.76	ug/m3
78-93-3	72.11	Methyl ethyl ketone	ND	0.80	0.44	ppbv		ND	2.4	1.3	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.80	0.29	ppbv		ND	3.3	1.2	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.32	ppbv		ND	2.9	1.2	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.28	ppbv		ND	3.3	1.1	ug/m3
115-07-1	42	Propylene	ND	2.0	0.57	ppbv		ND	3.4	0.98	ug/m3
100-42-5	104.1	Styrene	ND	0.80	0.47	ppbv		ND	3.4	2.0	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.40	0.15	ppbv		ND	2.2	0.82	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	ND	0.40	0.19	ppbv		ND	2.7	1.3	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.40	0.15	ppbv		ND	2.2	0.82	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.40	0.48	ppbv		ND	3.0	3.6	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	ND	0.80	0.35	ppbv		ND	3.9	1.7	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	ND	0.80	0.32	ppbv		ND	3.9	1.6	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.80	0.38	ppbv		ND	3.7	1.8	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.80	0.37	ppbv		ND	2.4	1.1	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	0.16	0.056	ppbv		ND	1.1	0.38	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.80	0.36	ppbv		ND	2.4	1.1	ug/m3
108-88-3	92.14	Toluene	2.6	0.80	0.23	ppbv		9.8	3.0	0.87	ug/m3
79-01-6	131.4	Trichloroethylene	3.1	0.16	0.076	ppbv		17	0.86	0.41	ug/m3
75-69-4	137.4	Trichlorofluoromethane	ND	0.40	0.14	ppbv		ND	2.2	0.79	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.16	0.28	ppbv		ND	0.41	0.72	ug/m3
108-05-4	86	Vinyl Acetate	1.4	0.80	0.45	ppbv		4.9	2.8	1.6	ug/m3
	106.2	m,p-Xylene	ND	0.80	0.56	ppbv		ND	3.5	2.4	ug/m3
95-47-6	106.2	o-Xylene	ND	0.80	0.31	ppbv		ND	3.5	1.3	ug/m3
1330-20-7	106.2	Xylenes (total)	ND	0.80	0.31	ppbv		ND	3.5	1.3	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	98%		65-128%

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

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Summa Canister and Flow Controller Log
- Sample Tracking Chronicle
- 2021 MDL Study - Method: TO-15

SGS Air

CHAIN OF CUSTODY - AIR

PAGE 1 OF 1

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FED-EX Tracking # 581473675729 | Bottle Order Control # TS-112321-189
SGS Quote # | SGS Job # JD54338

Client / Reporting Information
Company Name: WSP USA
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City: Buffalo State: NY Zip: 14202
Project Contact: Jeff Baker E-mail: Jeffrey.Baker@wsp.com
Phone #: 734-883-9723
Sampler(s) Name(s):

Project Information
Project Name: EPT, Ithaca, NY
Street:
City: Ithaca State: NY
Project #: 31405664.001 C'd
Client Purchase Order #:

Weather Parameters
Temperature (Fahrenheit) Start: Maximum: Stop: Minimum:
Atmoshpheric Pressure (inches of Hg) Start: Maximum: Stop: Minimum:
Other weather comment:

Requested Analysis
TO-15

Lab Sample #	Field ID / Point of Collection	Air Type: Ind (I) Soil Vap (SV) Amb (A)	Air Type: Res (R) Non-Res (NR)	Sampling Equipment Info: Canister Serial #	Canister Size 6L or 1L	Flow Controller Serial #	Start Sampling Information: Date	Time (24hr clock)	Canister Pressure ("Hg)	Interior Temp (F)	Sampler Init.	Stop Sampling Information: Date	Time (24hr clock)	Canister Pressure ("Hg)	Interior Temp (F)	Sampler Init.	TO-15
1	VPOST 61AC	SV	NR	A502	1-L	—	—	—	—	—	—	10/24/22	1300	-	66	NW	X
2	VINF	SV	NR	1104	1-L	—	—	—	—	—	—	10/24/22	1330	-	66	NW	X

WSP
EPT Ithaca NY
TS-112321-189
Please place on the back of original (white copy of COC
This will assist us in processing your samples
Thank You

Turnaround Time
- 15 Business Days
- X 10 Business Days
- 5 Business Days
- 3 Business Days *
- 2 Business Days *
- 1 Business Day *
- Other

Approved by: Date:
* Approval needed for 1-3 Business Day TAT

Data Deliverable Information
All NJDEP TO-15 is mandatory Full T1
Comm A
Comm B
Reduced T2
Full T1
Other: NYSCATS
DKQP reporting

Comments / Remarks
Initial Assessment: YB 10/25
Label Verification:
Sample inventory is verified upon receipt in the Laboratory

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Laboratory:	Date / Time:	Received By:	Relinquished By:	Date / Time:	Received By:
1 W.	10/25/22 13:15	1	2		2
Relinquished by: 3	Date / Time: 10/24/22 1500	Received By: 3 Fed Ex	Relinquished By: 4 Fed Ex	Date / Time: 10/25/22 9:30	Received By: 4
Relinquished by: 5	Date / Time:	Received By: 5	Custody Seal #		

http://www.sgs.com/en/terms-and-conditions

EHSA-QAC-0022-01-FORM-Dayton-Air COC
Rev.date:1/15/2021

JD54338: Chain of Custody
Page 1 of 2

SGS Sample Receipt Summary

Job Number: JD54338 **Client:** WSP **Project:** EPT, ITHACA, NY

Date / Time Received: 10/25/2022 9:30:00 AM **Delivery Method:** Fed Ex **Airbill #'s:** 5894 7367 5179

Cooler Temps (Raw Measured) °C:

Cooler Temps (Corrected) °C:

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☐		☐
2. Cooler temp verification:	N/A		
3. Cooler media:	N/A		
4. No. Coolers:	N/A		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	☑
2. Trip Blank listed on COC:	☐		☐	☑
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 231619 pH 12+: 203117A Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17

Summa Canister and Flow Controller Log

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY
Received: 10/25/22

SUMMA CANISTERS

Shipping							Receiving					
Summa ID	L	Vac " Hg	Date Out	By	SCC Batch	SCC FileID	Sample Number	Date In	By	Vac " Hg	Pres psig	Final psig	Dil Fact
A502	1	29.4	10/04/22	ML	CP11846	6W25454.D	JD54338-1	10/26/22	JL	0			1
A409	1	29.4	10/04/22	ML	CP11872	2W61627.D	JD54338-2	10/26/22	JL	8		1.2	1.48

SGS Bottle Order(s):
TS-112321-189

Prep Date	Room Temp(F)	Bar Pres "Hg
10/04/22	70	29.92

Internal Sample Tracking Chronicle

WSP USA Environment & Infrastructure Inc

Job No: JD54338

EPT, Ithaca, NY
Project No: 31405608.001 02

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD54338-1	Collected: 24-OCT-22 12:00 By: NW		Received: 25-OCT-22 By: JK			
VPOST GAC						
JD54338-1	TO-15	03-NOV-22 21:12	TCH			VTO15NYSVLL
JD54338-1	TO-15	04-NOV-22 12:51	TCH			VTO15NYSVLL
JD54338-2	Collected: 24-OCT-22 12:20 By: NW		Received: 25-OCT-22 By: JK			
VINF						
JD54338-2	TO-15	03-NOV-22 21:46	TCH			VTO15NYSVLL

SGS North America Inc.-Dayton laboratory
TO-15 FINAL MDL for 2020-2021

METHODRI	LOGINNUN	SPEC_MAT	SAMPLENUM	CLIENTID	MEASUREDATE	INSTRUME	PARM_STO	PARM_SYN	FINAL MDL	RDLVALUE	COMMENT	UNITS
TO-15	JD18443D	STYA	JD18443D-4D	MDLV : 0.04 PPBV 2W	12/30/21 4:00	GCMS2W	120-82-1	1,2,4-Trichlorobenzene	0.121	0.2	2W Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-4D	MDLV : 0.04 PPBV 2W	12/30/21 4:00	GCMS2W	541-73-1	m-Dichlorobenzene	0.04	0.2	2W Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-4D	MDLV : 0.04 PPBV 2W	12/30/21 4:00	GCMS2W	91-20-3	Naphthalene	0.127	0.2	2W Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-4D	MDLV : 0.04 PPBV 2W	12/30/21 4:00	GCMS2W	127-18-4	Tetrachloroethylene	0.014	0.04	2W Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-4D	MDLV : 0.04 PPBV 2W	12/30/21 4:00	GCMS2W	79-01-6	Trichloroethylene	0.019	0.04	2W Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2 PPBV 5W	12/30/21 5:36	GCMS5W	630-20-6	1,1,1,2-Tetrachloroethane	0.042	0.2	5W Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2 PPBV 5W	12/30/21 5:36	GCMS5W	71-55-6	1,1,1-Trichloroethane	0.037	0.2	5W Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2 PPBV 5W	12/30/21 5:36	GCMS5W	79-34-5	1,1,2,2-Tetrachloroethane	0.048	0.2	5W Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2 PPBV 5W	12/30/21 5:36	GCMS5W	79-00-5	1,1,2-Trichloroethane	0.038	0.2	5W Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2 PPBV 5W	12/30/21 5:36	GCMS5W	75-34-3	1,1-Dichloroethane	0.057	0.2	5W Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2 PPBV 5W	12/30/21 5:36	GCMS5W	75-35-4	1,1-Dichloroethylene	0.059	0.2	5W Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2 PPBV 5W	12/30/21 5:36	GCMS5W	96-18-4	1,2,3-Trichloropropane	0.05	0.2	5W Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2 PPBV 5W	12/30/21 5:36	GCMS5W	526-73-8	1,2,3-Trimethylbenzene	0.099	0.2	5W Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2 PPBV 5W	12/30/21 5:36	GCMS5W	95-63-6	1,2,4-Trimethylbenzene	0.087	0.2	5W Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2 PPBV 5W	12/30/21 5:36	GCMS5W	106-93-4	1,2-Dibromoethane (EDB)	0.097	0.2	5W Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2 PPBV 5W	12/30/21 5:36	GCMS5W	107-06-2	1,2-Dichloroethane	0.07	0.2	5W Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2 PPBV 5W	12/30/21 5:36	GCMS5W	78-87-5	1,2-Dichloropropane	0.062	0.2	5W Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2 PPBV 5W	12/30/21 5:36	GCMS5W	108-67-8	1,3,5-Trimethylbenzene	0.062	0.2	5W Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2 PPBV 5W	12/30/21 5:36	GCMS5W	106-99-0	1,3-Butadiene	0.084	0.2	5W Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2 PPBV 5W	12/30/21 5:36	GCMS5W	142-28-9	1,3-Dichloropropane	0.057	0.2	5W Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2 PPBV 5W	12/30/21 5:36	GCMS5W	123-91-1	1,4-Dioxane	0.117	0.2	5W Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2 PPBV 5W	12/30/21 5:36	GCMS5W	540-84-1	2,2,4-Trimethylpentane	0.095	0.2	5W Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2 PPBV 5W	12/30/21 5:36	GCMS5W	565-59-3	2,3-Dimethylpentane	0.089	0.2	5W Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2 PPBV 5W	12/30/21 5:36	GCMS5W	108-08-7	2,4-Dimethylpentane	0.104	0.2	5W Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2 PPBV 5W	12/30/21 5:36	GCMS5W	95-49-8	2-Chlorotoluene	0.072	0.2	5W Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2 PPBV 5W	12/30/21 5:36	GCMS5W	591-78-6	2-Hexanone	0.145	0.2	5W Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2 PPBV 5W	12/30/21 5:36	GCMS5W	107-05-1	3-Chloropropene	0.083	0.2	5W Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2 PPBV 5W	12/30/21 5:36	GCMS5W	622-96-8	4-Ethyltoluene	0.095	0.2	5W Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2 PPBV 5W	12/30/21 5:36	GCMS5W	67-64-1	Acetone (2-Propanone)	0.145	0.2	5W Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2 PPBV 5W	12/30/21 5:36	GCMS5W	75-05-8	Acetonitrile	0.171	0.2	5W Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2 PPBV 5W	12/30/21 5:36	GCMS5W	107-02-8	Acrolein	0.0883	0.2	5W Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2 PPBV 5W	12/30/21 5:36	GCMS5W	107-13-1	Acrylonitrile	0.091	0.2	5W Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2 PPBV 5W	12/30/21 5:36	GCMS5W	71-43-2	Benzene	0.062	0.2	5W Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2 PPBV 5W	12/30/21 5:36	GCMS5W	100-44-7	Benzyl Chloride	0.125	0.2	5W Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2 PPBV 5W	12/30/21 5:36	GCMS5W	108-86-1	Bromobenzene	0.154	0.2	5W Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2 PPBV 5W	12/30/21 5:36	GCMS5W	75-27-4	Bromodichloromethane	0.03	0.2	5W Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2 PPBV 5W	12/30/21 5:36	GCMS5W	593-60-2	Bromoethene	0.061	0.2	5W Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2 PPBV 5W	12/30/21 5:36	GCMS5W	75-25-2	Bromoform	0.071	0.2	5W Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2 PPBV 5W	12/30/21 5:36	GCMS5W	74-83-9	Bromomethane	0.069	0.2	5W Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2 PPBV 5W	12/30/21 5:36	GCMS5W	75-15-0	Carbon disulfide	0.045	0.2	5W Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2 PPBV 5W	12/30/21 5:36	GCMS5W	56-23-5	Carbon tetrachloride	0.04	0.2	5W Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2 PPBV 5W	12/30/21 5:36	GCMS5W	108-90-7	Chlorobenzene	0.074	0.2	5W Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2 PPBV 5W	12/30/21 5:36	GCMS5W	75-45-6	Chlorodifluoromethane	0.106	0.2	5W Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2 PPBV 5W	12/30/21 5:36	GCMS5W	75-00-3	Chloroethane	0.068	0.2	5W Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2 PPBV 5W	12/30/21 5:36	GCMS5W	67-66-3	Chloroform	0.037	0.2	5W Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2 PPBV 5W	12/30/21 5:36	GCMS5W	74-87-3	Chloromethane	0.09	0.2	5W Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2 PPBV 5W	12/30/21 5:36	GCMS5W	79-38-9	Chlorotrifluoroethene	0.024	0.2	5W Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2 PPBV 5W	12/30/21 5:36	GCMS5W	156-59-2	cis-1,2-Dichloroethylene	0.077	0.2	5W Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2 PPBV 5W	12/30/21 5:36	GCMS5W	10061-01-5	cis-1,3-Dichloropropene	0.062	0.2	5W Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2 PPBV 5W	12/30/21 5:36	GCMS5W	110-82-7	Cyclohexane	0.11	0.2	5W Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2 PPBV 5W	12/30/21 5:36	GCMS5W	124-48-1	Dibromochloromethane	0.052	0.2	5W Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2 PPBV 5W	12/30/21 5:36	GCMS5W	74-95-3	Dibromomethane	0.053	0.2	5W Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2 PPBV 5W	12/30/21 5:36	GCMS5W	75-71-8	Dichlorodifluoromethane	0.032	0.2	5W Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2 PPBV 5W	12/30/21 5:36	GCMS5W	75-43-4	Dichlorofluoromethane	0.066	0.2	5W Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2 PPBV 5W	12/30/21 5:36	GCMS5W	108-20-3	Di-isopropyl ether	0.082	0.2	5W Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2 PPBV 5W	12/30/21 5:36	GCMS5W	64-17-5	Ethanol	0.394	0.5	5W Q-4	I ppbv

TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2	PPBV	5W	12/30/21	5:36	GCMS5W	141-78-6	Ethyl Acetate	0.104	0.2	5W	Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2	PPBV	5W	12/30/21	5:36	GCMS5W	140-88-5	Ethyl Acrylate	0.105	0.2	5W	Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2	PPBV	5W	12/30/21	5:36	GCMS5W	100-41-4	Ethylbenzene	0.061	0.2	5W	Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2	PPBV	5W	12/30/21	5:36	GCMS5W	76-13-1	Freon 113	0.031	0.2	5W	Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2	PPBV	5W	12/30/21	5:36	GCMS5W	76-14-2	Freon 114	0.05	0.2	5W	Q-4	I ppbv
TO-15	JD18443B	STYA	JD18443B-1F	MDLV : 0.2	PPBV	3W	4/27/21	5:01	GCMS3W	76-15-3	Freon 115	0.0077	0.2	3W	Q-2	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2	PPBV	5W	12/30/21	5:36	GCMS5W	306-83-2	Freon 123	0.083	0.2	5W	Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2	PPBV	5W	12/30/21	5:36	GCMS5W	354-23-4	Freon 123A	0.068	0.2	5W	Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2	PPBV	5W	12/30/21	5:36	GCMS5W	75-68-3	Freon 142B	0.07	0.2	5W	Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2	PPBV	5W	12/30/21	5:36	GCMS5W	75-37-6	Freon 152A	0.06	0.2	5W	Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2	PPBV	5W	12/30/21	5:36	GCMS5W	142-82-5	Heptane	0.092	0.2	5W	Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2	PPBV	5W	12/30/21	5:36	GCMS5W	87-68-3	Hexachlorobutadiene	0.062	0.2	5W	Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2	PPBV	5W	12/30/21	5:36	GCMS5W	67-72-1	Hexachloroethane	0.082	0.2	5W	Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2	PPBV	5W	12/30/21	5:36	GCMS5W	110-54-3	Hexane	0.112	0.2	5W	Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2	PPBV	5W	12/30/21	5:36	GCMS5W	74-88-4	Iodomethane	0.037	0.2	5W	Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2	PPBV	5W	12/30/21	5:36	GCMS5W	67-63-0	Isopropyl Alcohol	0.187	0.2	5W	Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2	PPBV	5W	12/30/21	5:36	GCMS5W	98-82-8	Isopropylbenzene	0.064	0.2	5W	Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2	PPBV	5W	12/30/21	5:36	GCMS5W	M,P-XYLEN	m,p-Xylene	0.139	0.2	5W	Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2	PPBV	5W	12/30/21	5:36	GCMS5W	78-93-3	Methyl ethyl ketone	0.11	0.2	5W	Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2	PPBV	5W	12/30/21	5:36	GCMS5W	108-10-1	Methyl Isobutyl Ketone	0.073	0.2	5W	Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2	PPBV	5W	12/30/21	5:36	GCMS5W	1634-04-4	Methyl Tert Butyl Ether	0.08	0.2	5W	Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2	PPBV	5W	12/30/21	5:36	GCMS5W	75-09-2	Methylene chloride	0.056	0.2	5W	Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2	PPBV	5W	12/30/21	5:36	GCMS5W	80-62-6	Methylmethacrylate	0.07	0.2	5W	Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2	PPBV	5W	12/30/21	5:36	GCMS5W	106-97-8	n-Butane	0.106	0.2	5W	Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2	PPBV	5W	12/30/21	5:36	GCMS5W	104-51-8	n-Butylbenzene	0.106	0.2	5W	Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2	PPBV	5W	12/30/21	5:36	GCMS5W	111-84-2	Nonane	0.1	0.2	5W	Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2	PPBV	5W	12/30/21	5:36	GCMS5W	103-65-1	n-Propylbenzene	0.091	0.2	5W	Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2	PPBV	5W	12/30/21	5:36	GCMS5W	111-65-9	Octane	0.12	0.2	5W	Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2	PPBV	5W	12/30/21	5:36	GCMS5W	95-50-1	o-Dichlorobenzene	0.154	0.2	5W	Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2	PPBV	5W	12/30/21	5:36	GCMS5W	95-47-6	o-Xylene	0.077	0.2	5W	Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2	PPBV	5W	12/30/21	5:36	GCMS5W	106-46-7	p-Dichlorobenzene	0.191	0.2	5W	Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2	PPBV	5W	12/30/21	5:36	GCMS5W	109-66-0	Pentane	0.138	0.2	5W	Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2	PPBV	5W	12/30/21	5:36	GCMS5W	99-87-6	p-Isopropyltoluene	0.08	0.2	5W	Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2	PPBV	5W	12/30/21	5:36	GCMS5W	115-07-1	Propylene	0.142	0.5	5W	Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2	PPBV	5W	12/30/21	5:36	GCMS5W	135-98-8	sec-Butylbenzene	0.081	0.2	5W	Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2	PPBV	5W	12/30/21	5:36	GCMS5W	100-42-5	Styrene	0.118	0.2	5W	Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2	PPBV	5W	12/30/21	5:36	GCMS5W	98-06-6	tert-Butylbenzene	0.083	0.2	5W	Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2	PPBV	5W	12/30/21	5:36	GCMS5W	75-65-0	Tertiary Butyl Alcohol	0.093	0.2	5W	Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2	PPBV	5W	12/30/21	5:36	GCMS5W	109-99-9	Tetrahydrofuran	0.09	0.2	5W	Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2	PPBV	5W	12/30/21	5:36	GCMS5W	108-88-3	Toluene	0.057	0.2	5W	Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2	PPBV	5W	12/30/21	5:36	GCMS5W	156-60-5	trans-1,2-Dichloroethylene	0.069	0.2	5W	Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2	PPBV	5W	12/30/21	5:36	GCMS5W	10061-02-6	trans-1,3-Dichloropropene	0.101	0.2	5W	Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2	PPBV	5W	12/30/21	5:36	GCMS5W	75-69-4	Trichlorofluoromethane	0.036	0.2	5W	Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2	PPBV	5W	12/30/21	5:36	GCMS5W	TVHC AS EC	TVHC As Equiv Pentane	0.136	10	5W	Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2	PPBV	5W	12/30/21	5:36	GCMS5W	108-05-4	Vinyl Acetate	0.112	0.2	5W	Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-2F	MDLV : 0.2	PPBV	5W	12/30/21	5:36	GCMS5W	75-01-4	Vinyl chloride	0.069	0.2	5W	Q-4	I ppbv
TO-15	JD18443D	STYA	JD18443D-4E	MDLV : 0.1	PPBV	2W	12/30/21	4:35	GCMS2W	67-63-0	Isopropyl Alcohol	0.141	0.2	2W	Q-4	I ppbv

MS Volatiles

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V6W1137-MB	6W26830.D	1	11/03/22	TCH	n/a	n/a	V6W1137

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

JD54338-1, JD54338-2

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.20	0.15	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.084	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.062	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.071	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.069	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	0.061	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.13	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.045	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.074	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.068	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.037	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.090	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	0.083	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	0.072	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.040	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	0.11	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.057	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.059	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane (EDB)	ND	0.20	0.097	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.070	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.062	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	0.12	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.032	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.052	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.069	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.077	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.062	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.040	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.15	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.19	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.10	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	0.39	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.061	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	0.10	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.095	ppbv		ND	0.98	ug/m3

Method Blank Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V6W1137-MB	6W26830.D	1	11/03/22	TCH	n/a	n/a	V6W1137

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

JD54338-1, JD54338-2

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	0.031	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	0.050	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	0.092	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.062	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	0.11	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.15	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	0.14	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.056	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.11	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.073	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.080	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	0.070	ppbv		ND	0.82	ug/m3
115-07-1	Propylene	ND	0.50	0.14	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	0.12	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.037	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.048	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.038	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.12	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.087	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.080	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	0.095	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	0.093	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	0.014	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	0.090	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	0.057	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.036	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.069	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.11	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.14	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.077	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	0.077	ppbv		ND	0.87	ug/m3

Method Blank Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V6W1137-MB	6W26830.D	1	11/03/22	TCH	n/a	n/a	V6W1137

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

JD54338-1, JD54338-2

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	98%	65-128%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
124-38-9	Carbon dioxide	1.66	6.3	ppbv	JN
	Total TIC, Volatile		0	ppbv	

Method Blank Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V6W1138-MB	6W26867.D	1	11/04/22	TCH	n/a	n/a	V6W1138

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

JD54338-1

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
141-78-6	Ethyl Acetate	ND	0.20	0.10	ppbv		ND	0.72	ug/m3

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	98%	65-128%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
124-38-9	Carbon dioxide	1.66	5.5	ppbv	JN
	Total TIC, Volatile		0	ppbv	

Method Blank Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V6W1083-MB	6W25444.D	1	08/11/22	TCH	n/a	n/a	V6W1083

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

V6W1083-SCC

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.20	0.15	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.084	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.062	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.071	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.069	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	0.061	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.13	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.045	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.074	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.068	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.037	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.090	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	0.083	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	0.072	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.040	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	0.11	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.057	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.059	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane (EDB)	ND	0.20	0.097	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.070	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.062	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	0.12	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.032	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.052	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.069	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.077	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.062	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.040	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.15	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.19	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.10	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	0.39	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.061	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	0.10	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.095	ppbv		ND	0.98	ug/m3

Method Blank Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V6W1083-MB	6W25444.D	1	08/11/22	TCH	n/a	n/a	V6W1083

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

V6W1083-SCC

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	0.031	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	0.050	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	0.092	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.062	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	0.11	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.15	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	0.14	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.056	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.11	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.073	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.080	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	0.070	ppbv		ND	0.82	ug/m3
115-07-1	Propylene	ND	0.50	0.14	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	0.12	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.037	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.048	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.038	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.12	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.087	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.080	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	0.095	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	0.093	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	0.014	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	0.090	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	0.057	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.036	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.069	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.11	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.14	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.077	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	0.077	ppbv		ND	0.87	ug/m3

Method Blank Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V6W1083-MB	6W25444.D	1	08/11/22	TCH	n/a	n/a	V6W1083

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

V6W1083-SCC

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	94%	65-128%

Method Blank Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2734-MB	2W61615.D	1	09/27/22	TCH	n/a	n/a	V2W2734

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

V2W2734-SCC

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.20	0.15	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.084	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.062	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.071	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.069	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	0.061	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.13	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.045	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.074	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.068	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.037	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.090	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	0.083	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	0.072	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.040	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	0.11	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.057	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.059	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane (EDB)	ND	0.20	0.097	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.070	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.062	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	0.12	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.032	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.052	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.069	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.077	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.062	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.040	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.15	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.19	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.10	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	0.39	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.061	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	0.10	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.095	ppbv		ND	0.98	ug/m3

Method Blank Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2734-MB	2W61615.D	1	09/27/22	TCH	n/a	n/a	V2W2734

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

V2W2734-SCC

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	0.031	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	0.050	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	0.092	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.062	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	0.11	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.15	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	0.14	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.056	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.11	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.073	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.080	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	0.070	ppbv		ND	0.82	ug/m3
115-07-1	Propylene	ND	0.50	0.14	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	0.12	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.037	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.048	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.038	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.12	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.087	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.080	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	0.095	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	0.093	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	0.014	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	0.090	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	0.057	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.036	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.069	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.11	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.14	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.077	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	0.077	ppbv		ND	0.87	ug/m3

Method Blank Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2734-MB	2W61615.D	1	09/27/22	TCH	n/a	n/a	V2W2734

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

V2W2734-SCC

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	96%	65-128%

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V6W1137-BS	6W26824.D	1	11/03/22	TCH	n/a	n/a	V6W1137
V6W1137-BSD	6W26825.D	1	11/03/22	TCH	n/a	n/a	V6W1137

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

JD54338-1, JD54338-2

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone (2-Propanone)	10	10.2	102	10.3	103	1	70-130/30
106-99-0	1,3-Butadiene	10	10.2	102	10.5	105	3	70-130/30
71-43-2	Benzene	10	9.4	94	9.4	94	0	70-130/30
75-27-4	Bromodichloromethane	10	9.0	90	9.3	93	3	70-130/30
75-25-2	Bromoform	10	9.2	92	9.5	95	3	70-130/30
74-83-9	Bromomethane	10	11.1	111	11.1	111	0	70-130/30
593-60-2	Bromoethene	10	11.0	110	11.0	110	0	70-130/30
100-44-7	Benzyl Chloride	10	11.3	113	11.8	118	4	70-130/30
75-15-0	Carbon disulfide	10	9.9	99	10	100	1	70-130/30
108-90-7	Chlorobenzene	10	9.4	94	9.9	99	5	70-130/30
75-00-3	Chloroethane	10	11.2	112	11.3	113	1	70-130/30
67-66-3	Chloroform	10	9.4	94	9.5	95	1	70-130/30
74-87-3	Chloromethane	10	9.7	97	9.7	97	0	70-130/30
107-05-1	3-Chloropropene	10	10.2	102	10.3	103	1	70-130/30
95-49-8	2-Chlorotoluene	10	10.2	102	10.6	106	4	70-130/30
56-23-5	Carbon tetrachloride	10	8.9	89	9.1	91	2	70-130/30
110-82-7	Cyclohexane	10	9.8	98	10	100	2	70-130/30
75-34-3	1,1-Dichloroethane	10	9.7	97	9.8	98	1	70-130/30
75-35-4	1,1-Dichloroethylene	10	10.0	100	10.2	102	2	70-130/30
106-93-4	1,2-Dibromoethane (EDB)	10	8.9	89	9.2	92	3	70-130/30
107-06-2	1,2-Dichloroethane	10	9.0	90	9.1	91	1	70-130/30
78-87-5	1,2-Dichloropropane	10	9.7	97	10	100	3	70-130/30
123-91-1	1,4-Dioxane	10	11.9	119	12.3	123	3	70-130/30
75-71-8	Dichlorodifluoromethane	10	11.9	119	12.0	120	1	70-130/30
124-48-1	Dibromochloromethane	10	8.6	86	8.8	88	2	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10	9.8	98	10	100	2	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10	9.5	95	9.7	97	2	70-130/30
10061-01-5	cis-1,3-Dichloropropene	10	8.6	86	8.8	88	2	70-130/30
541-73-1	m-Dichlorobenzene	10	10.5	105	10.8	108	3	70-130/30
95-50-1	o-Dichlorobenzene	10	10.5	105	10.9	109	4	70-130/30
106-46-7	p-Dichlorobenzene	10	10.6	106	10.9	109	3	70-130/30
10061-02-6	trans-1,3-Dichloropropene	10	8.6	86	9.0	90	5	70-130/30
64-17-5	Ethanol	10	9.5	95	9.8	98	3	70-130/30
100-41-4	Ethylbenzene	10	8.6	86	8.9	89	3	70-130/30
141-78-6	Ethyl Acetate	10	10.1	101	10.4	104	3	70-130/30
622-96-8	4-Ethyltoluene	10	10.8	108	11.3	113	5	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V6W1137-BS	6W26824.D	1	11/03/22	TCH	n/a	n/a	V6W1137
V6W1137-BSD	6W26825.D	1	11/03/22	TCH	n/a	n/a	V6W1137

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

JD54338-1, JD54338-2

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
76-13-1	Freon 113	10	9.6	96	9.7	97	1	70-130/30
76-14-2	Freon 114	10	10.1	101	10.3	103	2	70-130/30
142-82-5	Heptane	10	8.1	81	8.3	83	2	70-130/30
87-68-3	Hexachlorobutadiene	10	10.5	105	11.0	110	5	70-130/30
110-54-3	Hexane	10	9.4	94	9.6	96	2	70-130/30
591-78-6	2-Hexanone	10	12.1	121	12.6	126	4	70-130/30
67-63-0	Isopropyl Alcohol	10	9.2	92	9.5	95	3	70-130/30
75-09-2	Methylene chloride	10	9.3	93	9.5	95	2	70-130/30
78-93-3	Methyl ethyl ketone	10	10.3	103	10.4	104	1	70-130/30
108-10-1	Methyl Isobutyl Ketone	10	10.3	103	10.8	108	5	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10	8.2	82	8.4	84	2	70-130/30
80-62-6	Methylmethacrylate	10	9.3	93	9.6	96	3	70-130/30
115-07-1	Propylene	10	7.7	77	7.9	79	3	70-130/30
100-42-5	Styrene	10	10.4	104	10.8	108	4	70-130/30
71-55-6	1,1,1-Trichloroethane	10	8.7	87	8.9	89	2	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	10	10	100	10.3	103	3	70-130/30
79-00-5	1,1,2-Trichloroethane	10	8.7	87	9.0	90	3	70-130/30
120-82-1	1,2,4-Trichlorobenzene	10	11.6	116	12.0	120	3	70-130/30
95-63-6	1,2,4-Trimethylbenzene	10	10.8	108	11.1	111	3	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10	10.6	106	11.0	110	4	70-130/30
540-84-1	2,2,4-Trimethylpentane	10	9.9	99	10.2	102	3	70-130/30
75-65-0	Tertiary Butyl Alcohol	10	8.8	88	9.1	91	3	70-130/30
127-18-4	Tetrachloroethylene	10	9.1	91	9.3	93	2	70-130/30
109-99-9	Tetrahydrofuran	10	10.5	105	10.6	106	1	70-130/30
108-88-3	Toluene	10	8.2	82	8.4	84	2	70-130/30
79-01-6	Trichloroethylene	10	9.4	94	9.6	96	2	70-130/30
75-69-4	Trichlorofluoromethane	10	9.9	99	10.0	100	1	70-130/30
75-01-4	Vinyl chloride	10	10.3	103	10.5	105	2	70-130/30
108-05-4	Vinyl Acetate	10	10.5	105	10.8	108	3	70-130/30
	m,p-Xylene	20	17.8	89	18.3	92	3	70-130/30
95-47-6	o-Xylene	10	9.0	90	9.4	94	4	70-130/30
1330-20-7	Xylenes (total)	30	26.7	89	27.7	92	4	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V6W1137-BS	6W26824.D	1	11/03/22	TCH	n/a	n/a	V6W1137
V6W1137-BSD	6W26825.D	1	11/03/22	TCH	n/a	n/a	V6W1137

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

JD54338-1, JD54338-2

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

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V6W1138-BS	6W26864.D	1	11/04/22	TCH	n/a	n/a	V6W1138
V6W1138-BSD	6W26865.D	1	11/04/22	TCH	n/a	n/a	V6W1138

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

JD54338-1

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
141-78-6	Ethyl Acetate	10	10.2	102	10.9	109	7	70-130/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	102%	100%	65-128%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V6W1083-BS	6W25440.D	1	08/11/22	TCH	n/a	n/a	V6W1083
V6W1083-BSD	6W25441.D	1	08/11/22	TCH	n/a	n/a	V6W1083

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

V6W1083-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone (2-Propanone)	10	8.7	87	8.8	88	1	70-130/30
106-99-0	1,3-Butadiene	10	9.2	92	9.3	93	1	70-130/30
71-43-2	Benzene	10	8.5	85	8.6	86	1	70-130/30
75-27-4	Bromodichloromethane	10	9.4	94	9.6	96	2	70-130/30
75-25-2	Bromoform	10	11.5	115	11.5	115	0	70-130/30
74-83-9	Bromomethane	10	9.5	95	9.6	96	1	70-130/30
593-60-2	Bromoethene	10	9.9	99	9.9	99	0	70-130/30
100-44-7	Benzyl Chloride	10	8.1	81	8.5	85	5	70-130/30
75-15-0	Carbon disulfide	10	9.6	96	9.6	96	0	70-130/30
108-90-7	Chlorobenzene	10	9.6	96	9.6	96	0	70-130/30
75-00-3	Chloroethane	10	8.2	82	8.2	82	0	70-130/30
67-66-3	Chloroform	10	8.9	89	9.0	90	1	70-130/30
74-87-3	Chloromethane	10	9.3	93	9.3	93	0	70-130/30
107-05-1	3-Chloropropene	10	9.0	90	9.1	91	1	70-130/30
95-49-8	2-Chlorotoluene	10	10.1	101	10.2	102	1	70-130/30
56-23-5	Carbon tetrachloride	10	9.2	92	9.2	92	0	70-130/30
110-82-7	Cyclohexane	10	9.0	90	9.2	92	2	70-130/30
75-34-3	1,1-Dichloroethane	10	9.2	92	9.2	92	0	70-130/30
75-35-4	1,1-Dichloroethylene	10	9.5	95	9.4	94	1	70-130/30
106-93-4	1,2-Dibromoethane (EDB)	10	9.3	93	9.4	94	1	70-130/30
107-06-2	1,2-Dichloroethane	10	7.8	78	7.9	79	1	70-130/30
78-87-5	1,2-Dichloropropane	10	9.1	91	9.1	91	0	70-130/30
123-91-1	1,4-Dioxane	10	10.8	108	11.0	110	2	70-130/30
75-71-8	Dichlorodifluoromethane	10	11.6	116	9.8	98	17	70-130/30
124-48-1	Dibromochloromethane	10	10.2	102	10.2	102	0	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10	9.5	95	9.5	95	0	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10	8.8	88	10	100	13	70-130/30
10061-01-5	cis-1,3-Dichloropropene	10	8.8	88	9.1	91	3	70-130/30
541-73-1	m-Dichlorobenzene	10	10.2	102	10.3	103	1	70-130/30
95-50-1	o-Dichlorobenzene	10	10.4	104	10.2	102	2	70-130/30
106-46-7	p-Dichlorobenzene	10	10.4	104	10.3	103	1	70-130/30
10061-02-6	trans-1,3-Dichloropropene	10	8.4	84	8.6	86	2	70-130/30
64-17-5	Ethanol	10	8.5	85	8.5	85	0	70-130/30
100-41-4	Ethylbenzene	10	9.2	92	9.1	91	1	70-130/30
141-78-6	Ethyl Acetate	10	8.6	86	8.7	87	1	70-130/30
622-96-8	4-Ethyltoluene	10	9.9	99	9.7	97	2	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V6W1083-BS	6W25440.D	1	08/11/22	TCH	n/a	n/a	V6W1083
V6W1083-BSD	6W25441.D	1	08/11/22	TCH	n/a	n/a	V6W1083

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

V6W1083-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
76-13-1	Freon 113	10	10.6	106	10.6	106	0	70-130/30
76-14-2	Freon 114	10	9.7	97	9.8	98	1	70-130/30
142-82-5	Heptane	10	7.3	73	7.4	74	1	70-130/30
87-68-3	Hexachlorobutadiene	10	10.2	102	10.2	102	0	70-130/30
110-54-3	Hexane	10	7.8	78	7.8	78	0	70-130/30
591-78-6	2-Hexanone	10	10.6	106	10.8	108	2	70-130/30
67-63-0	Isopropyl Alcohol	10	8.4	84	8.4	84	0	70-130/30
75-09-2	Methylene chloride	10	9.5	95	9.5	95	0	70-130/30
78-93-3	Methyl ethyl ketone	10	10.5	105	10.4	104	1	70-130/30
108-10-1	Methyl Isobutyl Ketone	10	9.3	93	9.5	95	2	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10	8.8	88	8.9	89	1	70-130/30
80-62-6	Methylmethacrylate	10	9.4	94	9.5	95	1	70-130/30
115-07-1	Propylene	10	7.2	72	7.2	72	0	70-130/30
100-42-5	Styrene	10	10.0	100	9.9	99	1	70-130/30
71-55-6	1,1,1-Trichloroethane	10	8.7	87	8.8	88	1	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	10	9.5	95	9.6	96	1	70-130/30
79-00-5	1,1,2-Trichloroethane	10	9.1	91	9.3	93	2	70-130/30
120-82-1	1,2,4-Trichlorobenzene	10	11.3	113	11.4	114	1	70-130/30
95-63-6	1,2,4-Trimethylbenzene	10	9.8	98	9.8	98	0	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10	9.7	97	9.6	96	1	70-130/30
540-84-1	2,2,4-Trimethylpentane	10	8.2	82	8.3	83	1	70-130/30
75-65-0	Tertiary Butyl Alcohol	10	8.0	80	8.0	80	0	70-130/30
127-18-4	Tetrachloroethylene	10	10.3	103	10.4	104	1	70-130/30
109-99-9	Tetrahydrofuran	10	9.3	93	9.3	93	0	70-130/30
108-88-3	Toluene	10	8.8	88	8.9	89	1	70-130/30
79-01-6	Trichloroethylene	10	9.2	92	9.4	94	2	70-130/30
75-69-4	Trichlorofluoromethane	10	9.4	94	9.4	94	0	70-130/30
75-01-4	Vinyl chloride	10	8.6	86	8.8	88	2	70-130/30
108-05-4	Vinyl Acetate	10	10.4	104	10.6	106	2	70-130/30
	m,p-Xylene	20	18.6	93	18.6	93	0	70-130/30
95-47-6	o-Xylene	10	9.2	92	9.1	91	1	70-130/30
1330-20-7	Xylenes (total)	30	27.8	93	27.8	93	0	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V6W1083-BS	6W25440.D	1	08/11/22	TCH	n/a	n/a	V6W1083
V6W1083-BSD	6W25441.D	1	08/11/22	TCH	n/a	n/a	V6W1083

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

V6W1083-SCC

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	96%	96%	65-128%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2734-BS	2W61612.D	1	09/27/22	TCH	n/a	n/a	V2W2734
V2W2734-BSD	2W61613.D	1	09/27/22	TCH	n/a	n/a	V2W2734

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

V2W2734-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone (2-Propanone)	10	8.4	84	7.9	79	6	70-130/30
106-99-0	1,3-Butadiene	10	9.6	96	9.0	90	6	70-130/30
71-43-2	Benzene	10	10.2	102	9.7	97	5	70-130/30
75-27-4	Bromodichloromethane	10	10.2	102	9.8	98	4	70-130/30
75-25-2	Bromoform	10	10.9	109	10.5	105	4	70-130/30
74-83-9	Bromomethane	10	9.9	99	9.4	94	5	70-130/30
593-60-2	Bromoethene	10	10.7	107	9.9	99	8	70-130/30
100-44-7	Benzyl Chloride	10	8.5	85	8.2	82	4	70-130/30
75-15-0	Carbon disulfide	10	12.2	122	11.2	112	9	70-130/30
108-90-7	Chlorobenzene	10	9.5	95	9.2	92	3	70-130/30
75-00-3	Chloroethane	10	11.5	115	10.7	107	7	70-130/30
67-66-3	Chloroform	10	10.2	102	9.7	97	5	70-130/30
74-87-3	Chloromethane	10	9.0	90	8.3	83	8	70-130/30
107-05-1	3-Chloropropene	10	11.1	111	10.4	104	7	70-130/30
95-49-8	2-Chlorotoluene	10	9.5	95	9.2	92	3	70-130/30
56-23-5	Carbon tetrachloride	10	9.9	99	9.4	94	5	70-130/30
110-82-7	Cyclohexane	10	9.6	96	9.4	94	2	70-130/30
75-34-3	1,1-Dichloroethane	10	11.1	111	10.5	105	6	70-130/30
75-35-4	1,1-Dichloroethylene	10	11.1	111	10.5	105	6	70-130/30
106-93-4	1,2-Dibromoethane (EDB)	10	9.7	97	9.4	94	3	70-130/30
107-06-2	1,2-Dichloroethane	10	10.7	107	10.2	102	5	70-130/30
78-87-5	1,2-Dichloropropane	10	10.4	104	10.1	101	3	70-130/30
123-91-1	1,4-Dioxane	10	11.0	110	10.8	108	2	70-130/30
75-71-8	Dichlorodifluoromethane	10	9.9	99	9.4	94	5	70-130/30
124-48-1	Dibromochloromethane	10	9.9	99	9.7	97	2	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10	10.2	102	9.7	97	5	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10	9.8	98	9.4	94	4	70-130/30
10061-01-5	cis-1,3-Dichloropropene	10	10	100	9.9	99	1	70-130/30
541-73-1	m-Dichlorobenzene	10	10	100	9.6	96	4	70-130/30
95-50-1	o-Dichlorobenzene	10	9.9	99	9.6	96	3	70-130/30
106-46-7	p-Dichlorobenzene	10	10	100	9.6	96	4	70-130/30
10061-02-6	trans-1,3-Dichloropropene	10	9.6	96	9.4	94	2	70-130/30
64-17-5	Ethanol	10	7.5	75	7.0	70	7	70-130/30
100-41-4	Ethylbenzene	10	10.3	103	10	100	3	70-130/30
141-78-6	Ethyl Acetate	10	11.0	110	10.4	104	6	70-130/30
622-96-8	4-Ethyltoluene	10	10.5	105	10.2	102	3	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2734-BS	2W61612.D	1	09/27/22	TCH	n/a	n/a	V2W2734
V2W2734-BSD	2W61613.D	1	09/27/22	TCH	n/a	n/a	V2W2734

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

V2W2734-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
76-13-1	Freon 113	10	10.4	104	9.8	98	6	70-130/30
76-14-2	Freon 114	10	10.4	104	9.7	97	7	70-130/30
142-82-5	Heptane	10	8.4	84	8.2	82	2	70-130/30
87-68-3	Hexachlorobutadiene	10	9.3	93	8.9	89	4	70-130/30
110-54-3	Hexane	10	10.1	101	9.7	97	4	70-130/30
591-78-6	2-Hexanone	10	10.9	109	10.6	106	3	70-130/30
67-63-0	Isopropyl Alcohol	10	9.5	95	8.9	89	7	70-130/30
75-09-2	Methylene chloride	10	9.8	98	9.1	91	7	70-130/30
78-93-3	Methyl ethyl ketone	10	11.2	112	10.8	108	4	70-130/30
108-10-1	Methyl Isobutyl Ketone	10	11.7	117	11.2	112	4	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10	9.4	94	9.0	90	4	70-130/30
80-62-6	Methylmethacrylate	10	10.6	106	10.5	105	1	70-130/30
115-07-1	Propylene	10	8.1	81	7.7	77	5	70-130/30
100-42-5	Styrene	10	11.1	111	10.6	106	5	70-130/30
71-55-6	1,1,1-Trichloroethane	10	9.6	96	9.1	91	5	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	10	10.5	105	10.2	102	3	70-130/30
79-00-5	1,1,2-Trichloroethane	10	9.7	97	9.5	95	2	70-130/30
120-82-1	1,2,4-Trichlorobenzene	10	9.9	99	9.3	93	6	70-130/30
95-63-6	1,2,4-Trimethylbenzene	10	10.4	104	10.3	103	1	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10	10.4	104	10.2	102	2	70-130/30
540-84-1	2,2,4-Trimethylpentane	10	9.6	96	9.4	94	2	70-130/30
75-65-0	Tertiary Butyl Alcohol	10	10.1	101	9.6	96	5	70-130/30
127-18-4	Tetrachloroethylene	10	8.9	89	8.8	88	1	70-130/30
109-99-9	Tetrahydrofuran	10	11.1	111	10.5	105	6	70-130/30
108-88-3	Toluene	10	9.7	97	9.4	94	3	70-130/30
79-01-6	Trichloroethylene	10	10.0	100	9.8	98	2	70-130/30
75-69-4	Trichlorofluoromethane	10	10.9	109	10.2	102	7	70-130/30
75-01-4	Vinyl chloride	10	11.0	110	10.5	105	5	70-130/30
108-05-4	Vinyl Acetate	10	11.0	110	10.4	104	6	70-130/30
	m,p-Xylene	20	20.8	104	20.1	101	3	70-130/30
95-47-6	o-Xylene	10	10.4	104	10	100	4	70-130/30
1330-20-7	Xylenes (total)	30	31.2	104	30.1	100	4	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2734-BS	2W61612.D	1	09/27/22	TCH	n/a	n/a	V2W2734
V2W2734-BSD	2W61613.D	1	09/27/22	TCH	n/a	n/a	V2W2734

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

V2W2734-SCC

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	101%	100%	65-128%

* = Outside of Control Limits.

Duplicate Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD53652-1DUP	6W26834.D	1	11/03/22	TCH	n/a	n/a	V6W1137
JD53652-1	6W26833.D	1	11/03/22	TCH	n/a	n/a	V6W1137

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

JD54338-1, JD54338-2

CAS No.	Compound	JD53652-1 ppbv	Q	DUP ppbv	Q	RPD	Limits
67-64-1	Acetone (2-Propanone)	16.4		16.3		1	25
106-99-0	1,3-Butadiene	ND		ND		nc	25
71-43-2	Benzene	6.8		7.0		3	25
75-27-4	Bromodichloromethane	ND		ND		nc	25
75-25-2	Bromoform	ND		ND		nc	25
74-83-9	Bromomethane	ND		ND		nc	25
593-60-2	Bromoethene	ND		ND		nc	25
100-44-7	Benzyl Chloride	ND		ND		nc	25
75-15-0	Carbon disulfide	ND		ND		nc	25
108-90-7	Chlorobenzene	ND		ND		nc	25
75-00-3	Chloroethane	ND		ND		nc	25
67-66-3	Chloroform	ND		ND		nc	25
74-87-3	Chloromethane	ND		ND		nc	25
107-05-1	3-Chloropropene	ND		ND		nc	25
95-49-8	2-Chlorotoluene	ND		ND		nc	25
56-23-5	Carbon tetrachloride	ND		ND		nc	25
110-82-7	Cyclohexane	3.2		3.2		0	25
75-34-3	1,1-Dichloroethane	ND		ND		nc	25
75-35-4	1,1-Dichloroethylene	ND		ND		nc	25
106-93-4	1,2-Dibromoethane (EDB)	ND		ND		nc	25
107-06-2	1,2-Dichloroethane	ND		ND		nc	25
78-87-5	1,2-Dichloropropane	ND		ND		nc	25
123-91-1	1,4-Dioxane	ND		ND		nc	25
75-71-8	Dichlorodifluoromethane	0.49	J	0.51	J	4	25
124-48-1	Dibromochloromethane	ND		ND		nc	25
156-60-5	trans-1,2-Dichloroethylene	ND		ND		nc	25
156-59-2	cis-1,2-Dichloroethylene	12.6		12.7		1	25
10061-01-5	cis-1,3-Dichloropropene	ND		ND		nc	25
541-73-1	m-Dichlorobenzene	ND		ND		nc	25
95-50-1	o-Dichlorobenzene	ND		ND		nc	25
106-46-7	p-Dichlorobenzene	ND		ND		nc	25
10061-02-6	trans-1,3-Dichloropropene	ND		ND		nc	25
64-17-5	Ethanol	3.6		3.8		5	25
100-41-4	Ethylbenzene	1.0		1.0		0	25
141-78-6	Ethyl Acetate	ND		ND		nc	25
622-96-8	4-Ethyltoluene	ND		ND		nc	25

* = Outside of Control Limits.

Duplicate Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD53652-1DUP	6W26834.D	1	11/03/22	TCH	n/a	n/a	V6W1137
JD53652-1	6W26833.D	1	11/03/22	TCH	n/a	n/a	V6W1137

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

JD54338-1, JD54338-2

CAS No.	Compound	JD53652-1 ppbv	Q	DUP ppbv	Q	RPD	Limits
76-13-1	Freon 113	ND		ND		nc	25
76-14-2	Freon 114	ND		ND		nc	25
142-82-5	Heptane	3.7		4.2		13	25
87-68-3	Hexachlorobutadiene	ND		ND		nc	25
110-54-3	Hexane	15.8		16.2		2	25
591-78-6	2-Hexanone	ND		ND		nc	25
67-63-0	Isopropyl Alcohol	0.99		1.1		11	25
75-09-2	Methylene chloride	0.93		0.97		4	25
78-93-3	Methyl ethyl ketone	0.50	J	0.50	J	0	25
108-10-1	Methyl Isobutyl Ketone	ND		ND		nc	25
1634-04-4	Methyl Tert Butyl Ether	ND		ND		nc	25
80-62-6	Methylmethacrylate	ND		ND		nc	25
115-07-1	Propylene	42.9		43.9		2	25
100-42-5	Styrene	ND		ND		nc	25
71-55-6	1,1,1-Trichloroethane	2.3		2.4		4	25
79-34-5	1,1,2,2-Tetrachloroethane	ND		ND		nc	25
79-00-5	1,1,2-Trichloroethane	ND		ND		nc	25
120-82-1	1,2,4-Trichlorobenzene	ND		ND		nc	25
95-63-6	1,2,4-Trimethylbenzene	0.39	J	0.38	J	3	25
108-67-8	1,3,5-Trimethylbenzene	ND		ND		nc	25
540-84-1	2,2,4-Trimethylpentane	36.6		40.0		9	25
75-65-0	Tertiary Butyl Alcohol	2.8		2.9		4	25
127-18-4	Tetrachloroethylene	2.6		2.6		0	25
109-99-9	Tetrahydrofuran	ND		ND		nc	25
108-88-3	Toluene	12.0		12.2		2	25
79-01-6	Trichloroethylene	2.8		2.7		4	25
75-69-4	Trichlorofluoromethane	0.59	J	0.63	J	7	25
75-01-4	Vinyl chloride	2.1		2.2		5	25
108-05-4	Vinyl Acetate	ND		ND		nc	25
	m,p-Xylene	4.8		4.9		2	25
95-47-6	o-Xylene	1.5		1.5		0	25
1330-20-7	Xylenes (total)	6.2		6.3		2	25

* = Outside of Control Limits.

Duplicate Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD53652-1DUP	6W26834.D	1	11/03/22	TCH	n/a	n/a	V6W1137
JD53652-1	6W26833.D	1	11/03/22	TCH	n/a	n/a	V6W1137

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

JD54338-1, JD54338-2

CAS No.	Surrogate Recoveries	DUP	JD53652-1	Limits
460-00-4	4-Bromofluorobenzene	99%	98%	65-128%

* = Outside of Control Limits.

Duplicate Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD54423-15DUP	6W26872.D	1	11/04/22	TCH	n/a	n/a	V6W1138
JD54423-15	6W26871.D	1	11/04/22	TCH	n/a	n/a	V6W1138

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

JD54338-1

CAS No.	Compound	JD54423-15 ppbv	Q	DUP ppbv	Q	RPD	Limits
141-78-6	Ethyl Acetate	1.5		1.6		6	25

CAS No.	Surrogate Recoveries	DUP	JD54423-15	Limits
460-00-4	4-Bromofluorobenzene	99%	98%	65-128%

* = Outside of Control Limits.

Summa Cleaning Certification

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V6W1083-SCC	6W25452.D	1	08/11/22	TCH	n/a	n/a	V6W1083

The QC reported here (Summa A406) applies to the following samples: **Method:** TO-15

Batch CP11846 cleaned 08/05/22: JD54338-1(A502)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.80	0.58	ppbv		ND	1.9	ug/m3
106-99-0	1,3-Butadiene	ND	0.80	0.34	ppbv		ND	1.8	ug/m3
71-43-2	Benzene	ND	0.80	0.25	ppbv		ND	2.6	ug/m3
75-27-4	Bromodichloromethane	ND	0.80	0.12	ppbv		ND	5.4	ug/m3
75-25-2	Bromoform	ND	0.80	0.28	ppbv		ND	8.3	ug/m3
74-83-9	Bromomethane	ND	0.80	0.28	ppbv		ND	3.1	ug/m3
593-60-2	Bromoethene	ND	0.80	0.24	ppbv		ND	3.5	ug/m3
100-44-7	Benzyl Chloride	ND	0.80	0.50	ppbv		ND	4.1	ug/m3
75-15-0	Carbon disulfide	ND	0.80	0.18	ppbv		ND	2.5	ug/m3
108-90-7	Chlorobenzene	ND	0.80	0.30	ppbv		ND	3.7	ug/m3
75-00-3	Chloroethane	ND	0.80	0.27	ppbv		ND	2.1	ug/m3
67-66-3	Chloroform	ND	0.80	0.15	ppbv		ND	3.9	ug/m3
74-87-3	Chloromethane	ND	0.80	0.36	ppbv		ND	1.7	ug/m3
107-05-1	3-Chloropropene	ND	0.80	0.33	ppbv		ND	2.5	ug/m3
95-49-8	2-Chlorotoluene	ND	0.80	0.29	ppbv		ND	4.1	ug/m3
56-23-5	Carbon tetrachloride	ND	0.80	0.16	ppbv		ND	5.0	ug/m3
110-82-7	Cyclohexane	ND	0.80	0.44	ppbv		ND	2.8	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.80	0.23	ppbv		ND	3.2	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.80	0.24	ppbv		ND	3.2	ug/m3
106-93-4	1,2-Dibromoethane (EDB)	ND	0.80	0.39	ppbv		ND	6.1	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.80	0.28	ppbv		ND	3.2	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.80	0.25	ppbv		ND	3.7	ug/m3
123-91-1	1,4-Dioxane	ND	0.80	0.47	ppbv		ND	2.9	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.80	0.13	ppbv		ND	4.0	ug/m3
124-48-1	Dibromochloromethane	ND	0.80	0.21	ppbv		ND	6.8	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.80	0.28	ppbv		ND	3.2	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.80	0.31	ppbv		ND	3.2	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.80	0.25	ppbv		ND	3.6	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.80	0.16	ppbv		ND	4.8	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.80	0.62	ppbv		ND	4.8	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.80	0.76	ppbv		ND	4.8	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.80	0.40	ppbv		ND	3.6	ug/m3
64-17-5	Ethanol	ND	2.0	1.6	ppbv		ND	3.8	ug/m3
100-41-4	Ethylbenzene	ND	0.80	0.24	ppbv		ND	3.5	ug/m3
141-78-6	Ethyl Acetate	ND	0.80	0.42	ppbv		ND	2.9	ug/m3
622-96-8	4-Ethyltoluene	ND	0.80	0.38	ppbv		ND	3.9	ug/m3

Summa Cleaning Certification

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V6W1083-SCC	6W25452.D	1	08/11/22	TCH	n/a	n/a	V6W1083

The QC reported here (Summa A406) applies to the following samples: **Method:** TO-15

Batch CP11846 cleaned 08/05/22: JD54338-1(A502)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.80	0.12	ppbv		ND	6.1	ug/m3
76-14-2	Freon 114	ND	0.80	0.20	ppbv		ND	5.6	ug/m3
142-82-5	Heptane	ND	0.80	0.37	ppbv		ND	3.3	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.80	0.25	ppbv		ND	8.5	ug/m3
110-54-3	Hexane	ND	0.80	0.45	ppbv		ND	2.8	ug/m3
591-78-6	2-Hexanone	ND	0.80	0.58	ppbv		ND	3.3	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.80	0.56	ppbv		ND	2.0	ug/m3
75-09-2	Methylene chloride	ND	0.80	0.22	ppbv		ND	2.8	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.80	0.44	ppbv		ND	2.4	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.80	0.29	ppbv		ND	3.3	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.80	0.32	ppbv		ND	2.9	ug/m3
80-62-6	Methylmethacrylate	ND	0.80	0.28	ppbv		ND	3.3	ug/m3
115-07-1	Propylene	ND	2.0	0.57	ppbv		ND	3.4	ug/m3
100-42-5	Styrene	ND	0.80	0.47	ppbv		ND	3.4	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.80	0.15	ppbv		ND	4.4	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.80	0.19	ppbv		ND	5.5	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.80	0.15	ppbv		ND	4.4	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.80	0.48	ppbv		ND	5.9	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.80	0.35	ppbv		ND	3.9	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.80	0.32	ppbv		ND	3.9	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.80	0.38	ppbv		ND	3.7	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.80	0.37	ppbv		ND	2.4	ug/m3
127-18-4	Tetrachloroethylene	ND	0.16	0.056	ppbv		ND	1.1	ug/m3
109-99-9	Tetrahydrofuran	ND	0.80	0.36	ppbv		ND	2.4	ug/m3
108-88-3	Toluene	ND	0.80	0.23	ppbv		ND	3.0	ug/m3
79-01-6	Trichloroethylene	ND	0.16	0.076	ppbv		ND	0.86	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.80	0.14	ppbv		ND	4.5	ug/m3
75-01-4	Vinyl chloride	ND	0.80	0.28	ppbv		ND	2.0	ug/m3
108-05-4	Vinyl Acetate	ND	0.80	0.45	ppbv		ND	2.8	ug/m3
	m,p-Xylene	ND	0.80	0.56	ppbv		ND	3.5	ug/m3
95-47-6	o-Xylene	ND	0.80	0.31	ppbv		ND	3.5	ug/m3
1330-20-7	Xylenes (total)	ND	0.80	0.31	ppbv		ND	3.5	ug/m3

Summa Cleaning Certification

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V6W1083-SCC	6W25452.D	1	08/11/22	TCH	n/a	n/a	V6W1083

The QC reported here (Summa A406) applies to the following samples: **Method:** TO-15

Batch CP11846 cleaned 08/05/22: JD54338-1(A502)

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	93%	65-128%

Summa Cleaning Certification

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2734-SCC	2W61625.D	1	09/27/22	TCH	n/a	n/a	V2W2734

The QC reported here (Summa M441) applies to the following samples: **Method:** TO-15

Batch CP11872 cleaned 09/21/22: JD54338-2(A409)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.80	0.58	ppbv		ND	1.9	ug/m3
106-99-0	1,3-Butadiene	ND	0.80	0.34	ppbv		ND	1.8	ug/m3
71-43-2	Benzene	ND	0.80	0.25	ppbv		ND	2.6	ug/m3
75-27-4	Bromodichloromethane	ND	0.80	0.12	ppbv		ND	5.4	ug/m3
75-25-2	Bromoform	ND	0.80	0.28	ppbv		ND	8.3	ug/m3
74-83-9	Bromomethane	ND	0.80	0.28	ppbv		ND	3.1	ug/m3
593-60-2	Bromoethene	ND	0.80	0.24	ppbv		ND	3.5	ug/m3
100-44-7	Benzyl Chloride	ND	0.80	0.50	ppbv		ND	4.1	ug/m3
75-15-0	Carbon disulfide	ND	0.80	0.18	ppbv		ND	2.5	ug/m3
108-90-7	Chlorobenzene	ND	0.80	0.30	ppbv		ND	3.7	ug/m3
75-00-3	Chloroethane	ND	0.80	0.27	ppbv		ND	2.1	ug/m3
67-66-3	Chloroform	ND	0.80	0.15	ppbv		ND	3.9	ug/m3
74-87-3	Chloromethane	ND	0.80	0.36	ppbv		ND	1.7	ug/m3
107-05-1	3-Chloropropene	ND	0.80	0.33	ppbv		ND	2.5	ug/m3
95-49-8	2-Chlorotoluene	ND	0.80	0.29	ppbv		ND	4.1	ug/m3
56-23-5	Carbon tetrachloride	ND	0.80	0.16	ppbv		ND	5.0	ug/m3
110-82-7	Cyclohexane	ND	0.80	0.44	ppbv		ND	2.8	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.80	0.23	ppbv		ND	3.2	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.80	0.24	ppbv		ND	3.2	ug/m3
106-93-4	1,2-Dibromoethane (EDB)	ND	0.80	0.39	ppbv		ND	6.1	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.80	0.28	ppbv		ND	3.2	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.80	0.25	ppbv		ND	3.7	ug/m3
123-91-1	1,4-Dioxane	ND	0.80	0.47	ppbv		ND	2.9	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.80	0.13	ppbv		ND	4.0	ug/m3
124-48-1	Dibromochloromethane	ND	0.80	0.21	ppbv		ND	6.8	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.80	0.28	ppbv		ND	3.2	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.80	0.31	ppbv		ND	3.2	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.80	0.25	ppbv		ND	3.6	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.80	0.16	ppbv		ND	4.8	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.80	0.62	ppbv		ND	4.8	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.80	0.76	ppbv		ND	4.8	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.80	0.40	ppbv		ND	3.6	ug/m3
64-17-5	Ethanol	ND	2.0	1.6	ppbv		ND	3.8	ug/m3
100-41-4	Ethylbenzene	ND	0.80	0.24	ppbv		ND	3.5	ug/m3
141-78-6	Ethyl Acetate	ND	0.80	0.42	ppbv		ND	2.9	ug/m3
622-96-8	4-Ethyltoluene	ND	0.80	0.38	ppbv		ND	3.9	ug/m3

Summa Cleaning Certification

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2734-SCC	2W61625.D	1	09/27/22	TCH	n/a	n/a	V2W2734

The QC reported here (Summa M441) applies to the following samples: **Method:** TO-15

Batch CP11872 cleaned 09/21/22: JD54338-2(A409)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.80	0.12	ppbv		ND	6.1	ug/m3
76-14-2	Freon 114	ND	0.80	0.20	ppbv		ND	5.6	ug/m3
142-82-5	Heptane	ND	0.80	0.37	ppbv		ND	3.3	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.80	0.25	ppbv		ND	8.5	ug/m3
110-54-3	Hexane	ND	0.80	0.45	ppbv		ND	2.8	ug/m3
591-78-6	2-Hexanone	ND	0.80	0.58	ppbv		ND	3.3	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.80	0.56	ppbv		ND	2.0	ug/m3
75-09-2	Methylene chloride	ND	0.80	0.22	ppbv		ND	2.8	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.80	0.44	ppbv		ND	2.4	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.80	0.29	ppbv		ND	3.3	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.80	0.32	ppbv		ND	2.9	ug/m3
80-62-6	Methylmethacrylate	ND	0.80	0.28	ppbv		ND	3.3	ug/m3
115-07-1	Propylene	ND	2.0	0.57	ppbv		ND	3.4	ug/m3
100-42-5	Styrene	ND	0.80	0.47	ppbv		ND	3.4	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.80	0.15	ppbv		ND	4.4	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.80	0.19	ppbv		ND	5.5	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.80	0.15	ppbv		ND	4.4	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.80	0.48	ppbv		ND	5.9	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.80	0.35	ppbv		ND	3.9	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.80	0.32	ppbv		ND	3.9	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.80	0.38	ppbv		ND	3.7	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.80	0.37	ppbv		ND	2.4	ug/m3
127-18-4	Tetrachloroethylene	ND	0.16	0.056	ppbv		ND	1.1	ug/m3
109-99-9	Tetrahydrofuran	ND	0.80	0.36	ppbv		ND	2.4	ug/m3
108-88-3	Toluene	ND	0.80	0.23	ppbv		ND	3.0	ug/m3
79-01-6	Trichloroethylene	ND	0.16	0.076	ppbv		ND	0.86	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.80	0.14	ppbv		ND	4.5	ug/m3
75-01-4	Vinyl chloride	ND	0.80	0.28	ppbv		ND	2.0	ug/m3
108-05-4	Vinyl Acetate	ND	0.80	0.45	ppbv		ND	2.8	ug/m3
	m,p-Xylene	ND	0.80	0.56	ppbv		ND	3.5	ug/m3
95-47-6	o-Xylene	ND	0.80	0.31	ppbv		ND	3.5	ug/m3
1330-20-7	Xylenes (total)	ND	0.80	0.31	ppbv		ND	3.5	ug/m3

Summa Cleaning Certification

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2W2734-SCC	2W61625.D	1	09/27/22	TCH	n/a	n/a	V2W2734

The QC reported here (Summa M441) applies to the following samples: **Method:** TO-15

Batch CP11872 cleaned 09/21/22: JD54338-2(A409)

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	93%	65-128%

Instrument Performance Check (BFB)

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample:	V2W2709-BFB	**Injection Date:**	08/19/22
Lab File ID:	2W61009.D	**Injection Time:**	10:50
Instrument ID:	GCMS2W		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	14581	21.8		Pass
75	30.0 - 66.0% of mass 95	32835	49.2		Pass
95	Base peak, 100% relative abundance	66739	100.0		Pass
96	5.0 - 9.0% of mass 95	4420	6.62		Pass
173	Less than 2.0% of mass 174	243	0.36	(0.44) [a]	Pass
174	50.0 - 120.0% of mass 95	55160	82.7		Pass
175	4.0 - 9.01% of mass 174	3990	5.98	(7.23) [a]	Pass
176	93.0 - 101.0% of mass 174	52933	79.3	(96.0) [a]	Pass
177	5.0 - 9.0% of mass 176	3276	4.91	(6.19) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V2W2709-IC2709	2W61010.D	08/19/22	11:22	00:32	Initial cal 0.04
V2W2709-IC2709	2W61011.D	08/19/22	11:55	01:05	Initial cal 0.1
V2W2709-IC2709	2W61012.D	08/19/22	12:27	01:37	Initial cal 0.2
V2W2709-IC2709	2W61013.D	08/19/22	12:59	02:09	Initial cal 0.5
V2W2709-IC2709	2W61015.D	08/19/22	14:02	03:12	Initial cal 5
V2W2709-ICC2709	2W61016.D	08/19/22	14:34	03:44	Initial cal 10
V2W2709-IC2709	2W61017.D	08/19/22	15:08	04:18	Initial cal 20
V2W2709-IC2709	2W61018.D	08/19/22	15:45	04:55	Initial cal 40
V2W2709-IC2709	2W61019.D	08/19/22	16:25	05:35	Initial cal 50
V2W2709-ICV2709	2W61022.D	08/19/22	18:00	07:10	Initial cal verification 10

Instrument Performance Check (BFB)

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample:	V2W2734-BFB	**Injection Date:**	09/27/22
Lab File ID:	2W61610.D	**Injection Time:**	07:25
Instrument ID:	GCMS2W		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	16757	22.1		Pass
75	30.0 - 66.0% of mass 95	39912	52.7		Pass
95	Base peak, 100% relative abundance	75664	100.0		Pass
96	5.0 - 9.0% of mass 95	4899	6.47		Pass
173	Less than 2.0% of mass 174	263	0.35	(0.42) [a]	Pass
174	50.0 - 120.0% of mass 95	63341	83.7		Pass
175	4.0 - 9.01% of mass 174	4486	5.93	(7.08) [a]	Pass
176	93.0 - 101.0% of mass 174	59096	78.1	(93.3) [a]	Pass
177	5.0 - 9.0% of mass 176	4116	5.44	(6.96) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V2W2734-CC2709	2W61611.D	09/27/22	07:58	00:33	Continuing cal 10
V2W2734-BS	2W61612.D	09/27/22	08:57	01:32	Blank Spike
V2W2734-BSD	2W61613.D	09/27/22	09:29	02:04	Blank Spike Duplicate
V2W2734-MB	2W61615.D	09/27/22	10:49	03:24	Method Blank
ZZZZZZ	2W61616.D	09/27/22	11:38	04:13	(unrelated sample)
ZZZZZZ	2W61617.D	09/27/22	12:16	04:51	(unrelated sample)
JD52279-6	2W61618.D	09/27/22	12:55	05:30	(used for QC only; not part of job JD54338)
JD52279-6DUP	2W61619.D	09/27/22	13:36	06:11	Duplicate
ZZZZZZ	2W61620.D	09/27/22	14:08	06:43	(unrelated sample)
ZZZZZZ	2W61621.D	09/27/22	14:59	07:34	(unrelated sample)
V2W2734-SCC	2W61622.D	09/27/22	15:37	08:12	Summa Cleaning Certification
V2W2734-SCC	2W61623.D	09/27/22	16:15	08:50	Summa Cleaning Certification
V2W2734-SCC	2W61625.D	09/27/22	17:24	09:59	Summa Cleaning Certification
V2W2734-SCC	2W61626.D	09/27/22	17:57	10:32	Summa Cleaning Certification
V2W2734-SCC	2W61627.D	09/27/22	18:29	11:04	Summa Cleaning Certification

Instrument Performance Check (BFB)

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample:	V6W1077-BFB	**Injection Date:**	08/04/22
Lab File ID:	6W25315.D	**Injection Time:**	17:09
Instrument ID:	GCMS6W		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	11429	23.1		Pass
75	30.0 - 66.0% of mass 95	25645	51.8		Pass
95	Base peak, 100% relative abundance	49485	100.0		Pass
96	5.0 - 9.0% of mass 95	3335	6.74		Pass
173	Less than 2.0% of mass 174	242	0.49	(0.61) [a]	Pass
174	50.0 - 120.0% of mass 95	39416	79.7		Pass
175	4.0 - 9.01% of mass 174	2844	5.75	(7.22) [a]	Pass
176	93.0 - 101.0% of mass 174	38541	77.9	(97.8) [a]	Pass
177	5.0 - 9.0% of mass 176	2529	5.11	(6.56) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V6W1077-IC1077	6W25316.D	08/04/22	17:54	00:45	Initial cal 0.04
V6W1077-IC1077	6W25317.D	08/04/22	18:39	01:30	Initial cal 0.1
V6W1077-IC1077	6W25318.D	08/04/22	19:25	02:16	Initial cal 0.2
V6W1077-IC1077	6W25319.D	08/04/22	20:11	03:02	Initial cal 0.5
V6W1077-IC1077	6W25321.D	08/04/22	21:41	04:32	Initial cal 5
V6W1077-ICC1077	6W25322.D	08/04/22	22:26	05:17	Initial cal 10
V6W1077-IC1077	6W25323.D	08/04/22	23:14	06:05	Initial cal 20
V6W1077-IC1077	6W25324.D	08/05/22	00:05	06:56	Initial cal 40
V6W1077-IC1077	6W25325.D	08/05/22	00:59	07:50	Initial cal 50
V6W1077-ICV1077	6W25328.D	08/05/22	03:17	10:08	Initial cal verification 10

Instrument Performance Check (BFB)

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample: V6W1083-BFB
Lab File ID: 6W25438.D
Instrument ID: GCMS6W
Injection Date: 08/11/22
Injection Time: 07:24

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	11717	20.6		Pass
75	30.0 - 66.0% of mass 95	28251	49.8		Pass
95	Base peak, 100% relative abundance	56760	100.0		Pass
96	5.0 - 9.0% of mass 95	3771	6.64		Pass
173	Less than 2.0% of mass 174	353	0.62	(0.71) [a]	Pass
174	50.0 - 120.0% of mass 95	49619	87.4		Pass
175	4.0 - 9.01% of mass 174	3741	6.59	(7.54) [a]	Pass
176	93.0 - 101.0% of mass 174	48008	84.6	(96.8) [a]	Pass
177	5.0 - 9.0% of mass 176	3126	5.51	(6.51) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V6W1083-CC1077	6W25439.D	08/11/22	08:20	00:56	Continuing cal 10
V6W1083-BS	6W25440.D	08/11/22	09:21	01:57	Blank Spike
V6W1083-BSD	6W25441.D	08/11/22	10:25	03:01	Blank Spike Duplicate
V6W1083-MB	6W25444.D	08/11/22	12:47	05:23	Method Blank
JD49709-1	6W25445.D	08/11/22	13:33	06:09	(used for QC only; not part of job JD54338)
JD49709-1DUP	6W25446.D	08/11/22	14:19	06:55	Duplicate
ZZZZZZ	6W25447.D	08/11/22	15:24	08:00	(unrelated sample)
V6W1083-SCC	6W25451.D	08/11/22	18:38	11:14	Summa Cleaning Certification
V6W1083-SCC	6W25452.D	08/11/22	19:25	12:01	Summa Cleaning Certification
V6W1083-SCC	6W25453.D	08/11/22	20:12	12:48	Summa Cleaning Certification
V6W1083-SCC	6W25454.D	08/11/22	20:58	13:34	Summa Cleaning Certification
V6W1083-SCC	6W25455.D	08/11/22	21:50	14:26	Summa Cleaning Certification

Instrument Performance Check (BFB)

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample:	V6W1125-BFB	**Injection Date:**	10/19/22
Lab File ID:	6W26446.D	**Injection Time:**	17:44
Instrument ID:	GCMS6W		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	11894	25.6		Pass
75	30.0 - 66.0% of mass 95	23544	50.6		Pass
95	Base peak, 100% relative abundance	46541	100.0		Pass
96	5.0 - 9.0% of mass 95	3244	6.97		Pass
173	Less than 2.0% of mass 174	352	0.76	(0.98) [a]	Pass
174	50.0 - 120.0% of mass 95	35928	77.2		Pass
175	4.0 - 9.01% of mass 174	2432	5.23	(6.77) [a]	Pass
176	93.0 - 101.0% of mass 174	34165	73.4	(95.1) [a]	Pass
177	5.0 - 9.0% of mass 176	2442	5.25	(7.15) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V6W1125-IC1125	6W26448.D	10/19/22	19:10	01:26	Initial cal 0.04
V6W1125-IC1125	6W26449.D	10/19/22	19:43	01:59	Initial cal 0.1
V6W1125-IC1125	6W26450.D	10/19/22	20:15	02:31	Initial cal 0.2
V6W1125-IC1125	6W26451.D	10/19/22	20:47	03:03	Initial cal 0.5
V6W1125-IC1125	6W26453.D	10/19/22	21:52	04:08	Initial cal 5
V6W1125-ICC1125	6W26454.D	10/19/22	22:25	04:41	Initial cal 10
V6W1125-IC1125	6W26455.D	10/19/22	22:57	05:13	Initial cal 20
V6W1125-IC1125	6W26456.D	10/19/22	23:29	05:45	Initial cal 40
V6W1125-IC1125	6W26457.D	10/20/22	00:03	06:19	Initial cal 50
V6W1125-ICV1125	6W26462.D	10/20/22	09:08	15:24	Initial cal verification 10

Instrument Performance Check (BFB)

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample: V6W1137-BFB
Lab File ID: 6W26822.D
Instrument ID: GCMS6W
Injection Date: 11/03/22
Injection Time: 09:04

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	9728	24.4		Pass
75	30.0 - 66.0% of mass 95	20293	50.9		Pass
95	Base peak, 100% relative abundance	39835	100.0		Pass
96	5.0 - 9.0% of mass 95	2732	6.86		Pass
173	Less than 2.0% of mass 174	369	0.93	(1.16) [a]	Pass
174	50.0 - 120.0% of mass 95	31795	79.8		Pass
175	4.0 - 9.01% of mass 174	2169	5.44	(6.82) [a]	Pass
176	93.0 - 101.0% of mass 174	31512	79.1	(99.1) [a]	Pass
177	5.0 - 9.0% of mass 176	2021	5.07	(6.41) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V6W1137-CC1125	6W26823.D	11/03/22	09:36	00:32	Continuing cal 10
V6W1137-BS	6W26824.D	11/03/22	10:14	01:10	Blank Spike
V6W1137-BSD	6W26825.D	11/03/22	10:45	01:41	Blank Spike Duplicate
V6W1137-MB	6W26830.D	11/03/22	14:39	05:35	Method Blank
ZZZZZZ	6W26831.D	11/03/22	15:48	06:44	(unrelated sample)
ZZZZZZ	6W26832.D	11/03/22	16:21	07:17	(unrelated sample)
JD53652-1	6W26833.D	11/03/22	16:53	07:49	(used for QC only; not part of job JD54338)
JD53652-1DUP	6W26834.D	11/03/22	17:26	08:22	Duplicate
ZZZZZZ	6W26835.D	11/03/22	17:59	08:55	(unrelated sample)
ZZZZZZ	6W26836.D	11/03/22	18:31	09:27	(unrelated sample)
ZZZZZZ	6W26837.D	11/03/22	19:03	09:59	(unrelated sample)
ZZZZZZ	6W26838.D	11/03/22	19:35	10:31	(unrelated sample)
ZZZZZZ	6W26839.D	11/03/22	20:07	11:03	(unrelated sample)
ZZZZZZ	6W26840.D	11/03/22	20:40	11:36	(unrelated sample)
JD54338-1	6W26841.D	11/03/22	21:12	12:08	VPOST GAC
JD54338-2	6W26842.D	11/03/22	21:46	12:42	VINF
ZZZZZZ	6W26843.D	11/03/22	22:19	13:15	(unrelated sample)
ZZZZZZ	6W26844.D	11/03/22	22:51	13:47	(unrelated sample)
ZZZZZZ	6W26846.D	11/03/22	23:58	14:54	(unrelated sample)
ZZZZZZ	6W26847.D	11/04/22	00:31	15:27	(unrelated sample)
ZZZZZZ	6W26848.D	11/04/22	01:04	16:00	(unrelated sample)
ZZZZZZ	6W26849.D	11/04/22	01:37	16:33	(unrelated sample)
V6W1137-SCC	6W26852.D	11/04/22	03:16	18:12	Summa Cleaning Certification
V6W1137-SCC	6W26853.D	11/04/22	03:48	18:44	Summa Cleaning Certification

Instrument Performance Check (BFB)

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample:	V6W1137-BFB	**Injection Date:**	11/03/22
Lab File ID:	6W26822.D	**Injection Time:**	09:04
Instrument ID:	GCMS6W		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V6W1137-SCC	6W26854.D	11/04/22	04:20	19:16	Summa Cleaning Certification
V6W1137-SCC	6W26855.D	11/04/22	04:53	19:49	Summa Cleaning Certification
V6W1137-SCC	6W26856.D	11/04/22	05:25	20:21	Summa Cleaning Certification
V6W1137-SCC	6W26859.D	11/04/22	07:04	22:00	Summa Cleaning Certification
V6W1137-SCC	6W26860.D	11/04/22	07:37	22:33	Summa Cleaning Certification

Instrument Performance Check (BFB)

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample: V6W1138-BFB
Lab File ID: 6W26862.D
Instrument ID: GCMS6W
Injection Date: 11/04/22
Injection Time: 09:04

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	8.0 - 40.0% of mass 95	10199	24.6		Pass
75	30.0 - 66.0% of mass 95	21080	50.8		Pass
95	Base peak, 100% relative abundance	41456	100.0		Pass
96	5.0 - 9.0% of mass 95	2916	7.03		Pass
173	Less than 2.0% of mass 174	288	0.69	(0.89) [a]	Pass
174	50.0 - 120.0% of mass 95	32229	77.7		Pass
175	4.0 - 9.01% of mass 174	2498	6.03	(7.75) [a]	Pass
176	93.0 - 101.0% of mass 174	31000	74.8	(96.2) [a]	Pass
177	5.0 - 9.0% of mass 176	2186	5.27	(7.05) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V6W1138-CC1125	6W26863.D	11/04/22	09:36	00:32	Continuing cal 10
V6W1138-BS	6W26864.D	11/04/22	10:15	01:11	Blank Spike
V6W1138-BSD	6W26865.D	11/04/22	10:47	01:43	Blank Spike Duplicate
V6W1138-MB	6W26867.D	11/04/22	11:58	02:54	Method Blank
JD54338-1	6W26868.D	11/04/22	12:51	03:47	VPOST GAC
ZZZZZZ	6W26869.D	11/04/22	13:22	04:18	(unrelated sample)
ZZZZZZ	6W26870.D	11/04/22	13:54	04:50	(unrelated sample)
JD54423-15	6W26871.D	11/04/22	14:27	05:23	(used for QC only; not part of job JD54338)
JD54423-15DUP	6W26872.D	11/04/22	15:00	05:56	Duplicate
ZZZZZZ	6W26874.D	11/04/22	16:06	07:02	(unrelated sample)
ZZZZZZ	6W26876.D	11/04/22	17:10	08:06	(unrelated sample)
ZZZZZZ	6W26878.D	11/04/22	18:16	09:12	(unrelated sample)
ZZZZZZ	6W26880.D	11/04/22	19:21	10:17	(unrelated sample)
ZZZZZZ	6W26882.D	11/04/22	20:25	11:21	(unrelated sample)
ZZZZZZ	6W26884.D	11/04/22	21:30	12:26	(unrelated sample)
V6W1138-SCC	6W26899.D	11/05/22	05:49	20:45	Summa Cleaning Certification
V6W1138-SCC	6W26900.D	11/05/22	06:21	21:17	Summa Cleaning Certification

Internal Standard Area Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Check Std:	V2W2734-CC2709	**Injection Date:**	09/27/22
Lab File ID:	2W61611.D	**Injection Time:**	07:58
Instrument ID:	GCMS2W	**Method:**	TO-15

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Check Std	79324	3.61	441027	4.93	400342	10.59
Upper Limit [a]	111054	3.94	617438	5.26	560479	10.92
Lower Limit [b]	47594	3.28	264616	4.60	240205	10.26

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
V2W2734-BS	79585	3.61	440838	4.93	389034	10.59
V2W2734-BSD	86056	3.61	462656	4.93	409400	10.59
V2W2734-MB	77815	3.61	428161	4.93	371065	10.58
ZZZZZZ	73348	3.61	403612	4.93	359340	10.58
ZZZZZZ	75503	3.61	406784	4.93	359285	10.59
JD52279-6	71319	3.61	391417	4.93	343130	10.58
JD52279-6DUP	62960	3.61	350279	4.93	333718	10.58
ZZZZZZ	62377	3.62	345287	4.94	328575	10.59
ZZZZZZ	71275	3.62	404314	4.93	345074	10.59
V2W2734-SCC	73103	3.61	402675	4.93	347492	10.59
V2W2734-SCC	72509	3.61	401802	4.93	353462	10.58
V2W2734-SCC	70657	3.61	391460	4.93	335472	10.59
V2W2734-SCC	69380	3.61	382933	4.93	332342	10.59
V2W2734-SCC	69067	3.61	380725	4.93	330185	10.59

IS 1 = Bromochloromethane
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5

(a) Upper Limit = +40% of check standard area; Retention time +0.33 minutes.
(b) Lower Limit = -40% of check standard area; Retention time -0.33 minutes.

Internal Standard Area Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Check Std:	V6W1083-CC1077	**Injection Date:**	08/11/22
Lab File ID:	6W25439.D	**Injection Time:**	08:20
Instrument ID:	GCMS6W	**Method:**	TO-15

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Check Std	58959	3.42	301259	4.79	259233	10.60
Upper Limit [a]	82543	3.75	421763	5.12	362926	10.93
Lower Limit [b]	35375	3.09	180755	4.46	155540	10.27

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
V6W1083-BS	60504	3.42	307857	4.79	263070	10.61
V6W1083-BSD	60081	3.41	304482	4.79	262246	10.61
V6W1083-MB	62033	3.42	317377	4.79	278641	10.60
JD49709-1	62367	3.42	323254	4.79	282750	10.61
JD49709-1DUP	62231	3.42	320711	4.79	278424	10.60
ZZZZZZ	62233	3.42	328767	4.79	279151	10.60
V6W1083-SCC	61133	3.42	310280	4.79	271754	10.61
V6W1083-SCC	58536	3.42	298947	4.79	263446	10.61
V6W1083-SCC	59517	3.42	305815	4.79	270764	10.60
V6W1083-SCC	58606	3.42	300854	4.79	270026	10.61
V6W1083-SCC	59215	3.42	303901	4.79	267290	10.61

IS 1 = Bromochloromethane
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5

(a) Upper Limit = +40% of check standard area; Retention time +0.33 minutes.
(b) Lower Limit = -40% of check standard area; Retention time -0.33 minutes.

Internal Standard Area Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Check Std:	V6W1137-CC1125	**Injection Date:**	11/03/22
Lab File ID:	6W26823.D	**Injection Time:**	09:36
Instrument ID:	GCMS6W	**Method:**	TO-15

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Check Std	45375	3.34	225669	4.73	185640	10.59
Upper Limit [a]	63525	3.67	315937	5.06	259896	10.92
Lower Limit [b]	27225	3.01	135401	4.40	111384	10.26

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
V6W1137-BS	45781	3.34	229465	4.73	188055	10.58
V6W1137-BSD	46044	3.34	228615	4.73	186065	10.59
V6W1137-MB	44863	3.34	225395	4.73	177281	10.58
ZZZZZZ	46311	3.34	233915	4.73	184536	10.58
ZZZZZZ	46321	3.34	231889	4.74	185520	10.59
JD53652-1	46064	3.34	230866	4.74	185266	10.59
JD53652-1DUP	45425	3.34	228554	4.74	185306	10.59
ZZZZZZ	45471	3.34	226890	4.74	186201	10.58
ZZZZZZ	45636	3.34	230801	4.74	187292	10.59
ZZZZZZ	44404	3.34	226103	4.73	182708	10.59
ZZZZZZ	44973	3.34	228366	4.73	185054	10.58
ZZZZZZ	46218	3.34	233544	4.73	185806	10.58
ZZZZZZ	45831	3.34	227794	4.74	182134	10.59
JD54338-1	44814	3.34	228657	4.74	182102	10.59
JD54338-2	44877	3.34	225821	4.74	180115	10.59
ZZZZZZ	46528	3.34	232549	4.74	184554	10.59
ZZZZZZ	46845	3.34	233978	4.74	186850	10.59
ZZZZZZ	45733	3.34	231862	4.73	185363	10.59
ZZZZZZ	45629	3.34	231303	4.74	184161	10.59
ZZZZZZ	46093	3.34	233234	4.74	188550	10.59
ZZZZZZ	45709	3.34	229580	4.73	185671	10.59
V6W1137-SCC	45404	3.34	229315	4.74	183331	10.59
V6W1137-SCC	44537	3.34	226134	4.73	179728	10.59
V6W1137-SCC	44548	3.34	226227	4.73	180042	10.59
V6W1137-SCC	44511	3.34	224346	4.73	177193	10.59
V6W1137-SCC	44942	3.34	223311	4.74	177299	10.59
V6W1137-SCC	45108	3.34	227705	4.73	180276	10.59
V6W1137-SCC	45255	3.34	225281	4.73	179524	10.58

IS 1 = Bromochloromethane
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5

(a) Upper Limit = +40% of check standard area; Retention time +0.33 minutes.
(b) Lower Limit = -40% of check standard area; Retention time -0.33 minutes.

Internal Standard Area Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Check Std:	V6W1138-CC1125	**Injection Date:**	11/04/22
Lab File ID:	6W26863.D	**Injection Time:**	09:36
Instrument ID:	GCMS6W	**Method:**	TO-15

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Check Std	45370	3.34	228035	4.74	188440	10.59
Upper Limit [a]	63518	3.67	319249	5.07	263816	10.92
Lower Limit [b]	27222	3.01	136821	4.41	113064	10.26

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
V6W1138-BS	47373	3.34	236723	4.73	191883	10.59
V6W1138-BSD	45663	3.34	229639	4.73	189185	10.59
V6W1138-MB	46239	3.34	231869	4.73	184569	10.59
JD54338-1	45513	3.34	230658	4.73	180587	10.58
ZZZZZZ	45306	3.34	228528	4.73	182025	10.58
ZZZZZZ	45536	3.34	228467	4.74	181743	10.59
JD54423-15	45433	3.34	229327	4.74	183979	10.59
JD54423-15DUP	45230	3.34	226403	4.73	182016	10.59
ZZZZZZ	46312	3.34	233539	4.74	188202	10.59
ZZZZZZ	44815	3.34	226816	4.73	180341	10.59
ZZZZZZ	45328	3.34	226568	4.73	184172	10.59
ZZZZZZ	44947	3.34	227308	4.73	183588	10.59
ZZZZZZ	46256	3.34	229392	4.74	186227	10.59
ZZZZZZ	44852	3.34	227775	4.73	181525	10.59
V6W1138-SCC	44619	3.34	226255	4.74	180009	10.59
V6W1138-SCC	43545	3.34	220625	4.73	176124	10.59

IS 1 = Bromochloromethane
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5

(a) Upper Limit = +40% of check standard area; Retention time +0.33 minutes.
(b) Lower Limit = -40% of check standard area; Retention time -0.33 minutes.

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V2W2709-IC2709	2W61010.D	08/19/22 11:22	TCH	0.04	GCMS2W	TO-15	Reporting this level
V2W2709-IC2709	2W61011.D	08/19/22 11:55	TCH	0.1	GCMS2W	TO-15	
V2W2709-IC2709	2W61012.D	08/19/22 12:27	TCH	0.2	GCMS2W	TO-15	
V2W2709-IC2709	2W61013.D	08/19/22 12:59	TCH	0.5	GCMS2W	TO-15	
V2W2709-IC2709	2W61015.D	08/19/22 14:02	TCH	5	GCMS2W	TO-15	
V2W2709-ICC2709	2W61016.D	08/19/22 14:34	TCH	10	GCMS2W	TO-15	
V2W2709-IC2709	2W61017.D	08/19/22 15:08	TCH	20	GCMS2W	TO-15	
V2W2709-IC2709	2W61018.D	08/19/22 15:45	TCH	40	GCMS2W	TO-15	
V2W2709-IC2709	2W61019.D	08/19/22 16:25	TCH	50	GCMS2W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Tetrachloroethylene	9.45	4.93	1.917	ok	1.917	1.857-1.977
Trichloroethylene	5.52	4.93	1.120	ok	1.119	1.059-1.179

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.61	ok	3.61	3.28-3.94	65497	ok	69048	41429-96667
1,4-Difluorobenzene	4.93	ok	4.93	4.60-5.26	359956	ok	370656	222394-518918
Chlorobenzene-D5	10.59	ok	10.59	10.26-10.92	318930	ok	336964	202178-471750

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD54338
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Project: EPT, Ithaca, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V2W2709-IC2709	2W61010.D	08/19/22 11:22	TCH	0.04	GCMS2W	TO-15	
V2W2709-IC2709	2W61011.D	08/19/22 11:55	TCH	0.1	GCMS2W	TO-15	Reporting this level
V2W2709-IC2709	2W61012.D	08/19/22 12:27	TCH	0.2	GCMS2W	TO-15	
V2W2709-IC2709	2W61013.D	08/19/22 12:59	TCH	0.5	GCMS2W	TO-15	
V2W2709-IC2709	2W61015.D	08/19/22 14:02	TCH	5	GCMS2W	TO-15	
V2W2709-ICC2709	2W61016.D	08/19/22 14:34	TCH	10	GCMS2W	TO-15	
V2W2709-IC2709	2W61017.D	08/19/22 15:08	TCH	20	GCMS2W	TO-15	
V2W2709-IC2709	2W61018.D	08/19/22 15:45	TCH	40	GCMS2W	TO-15	
V2W2709-IC2709	2W61019.D	08/19/22 16:25	TCH	50	GCMS2W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	2.47	3.61	0.684	ok	0.682	0.622-0.742
Acrolein	2.42	3.61	0.670	ok	0.670	0.610-0.730
Acrylonitrile	2.60	3.61	0.720	ok	0.721	0.661-0.781
Acetonitrile	2.37	3.61	0.657	ok	0.657	0.597-0.717
1,3-Butadiene	2.08	3.61	0.576	ok	0.578	0.518-0.638
Benzene	4.60	3.61	1.274	ok	1.274	1.214-1.334
Bromobenzene	14.31	10.59	1.351	ok	1.352	1.292-1.412
Bromodichloromethane	5.46	4.93	1.108	ok	1.108	1.048-1.168
Bromoform	11.78	10.59	1.112	ok	1.114	1.054-1.174
Bromomethane	2.18	3.61	0.604	ok	0.606	0.546-0.666
Bromoethene	2.38	3.61	0.659	ok	0.659	0.599-0.719
n-Butane	2.10	3.61	0.582	ok	0.584	0.524-0.644
Benzyl Chloride	16.85	10.59	1.591	ok	1.592	1.532-1.652
n-Butylbenzene	17.57	10.59	1.659	ok	1.660	1.600-1.720
sec-Butylbenzene	17.04	10.59	1.609	ok	1.610	1.550-1.670
tert-Butylbenzene	16.75	10.59	1.582	ok	1.583	1.523-1.643
Carbon disulfide	2.84	3.61	0.787	ok	0.787	0.727-0.847
Chlorobenzene	10.66	10.59	1.007	ok	1.007	0.947-1.067
Chlorodifluoromethane	1.86	3.61	0.515	ok	0.517	0.457-0.577
Chloroethane	2.25	3.61	0.623	ok	0.623	0.563-0.683
Chlorotrifluoroethene	1.87	3.61	0.518	ok	0.520	0.460-0.580
Chloroform	3.69	3.61	1.022	ok	1.021	0.961-1.081
Chloromethane	1.95	3.61	0.540	ok	0.542	0.482-0.602
3-Chloropropene	2.79	3.61	0.773	ok	0.773	0.713-0.833
2-Chlorotoluene	15.45	10.59	1.459	ok	1.459	1.399-1.519
Carbon tetrachloride	4.71	3.61	1.305	ok	1.305	1.245-1.365
Cyclohexane	4.81	4.93	0.976	ok	0.976	0.916-1.036
1,1-Dichloroethane	3.16	3.61	0.875	ok	0.875	0.815-0.935
1,1-Dichloroethylene	2.71	3.61	0.751	ok	0.751	0.691-0.811
1,2-Dibromoethane (EDB)	8.59	4.93	1.742	ok	1.743	1.683-1.803
1,2-Dichloroethane	4.11	3.61	1.139	ok	1.139	1.079-1.199
1,2-Dichloropropane	5.28	4.93	1.071	ok	1.071	1.011-1.131
1,3-Dichloropropane	7.76	4.93	1.574	ok	1.574	1.514-1.634
Dichlorodifluoromethane	1.89	3.61	0.524	ok	0.526	0.466-0.586
Dichlorofluoromethane	2.28	3.61	0.632	ok	0.633	0.573-0.693
Dibromochloromethane	8.24	4.93	1.671	ok	1.671	1.611-1.731
Dibromomethane	5.24	4.93	1.063	ok	1.063	1.003-1.123
trans-1,2-Dichloroethylene	3.08	3.61	0.853	ok	0.853	0.793-0.913
cis-1,2-Dichloroethylene	3.54	3.61	0.981	ok	0.978	0.918-1.038

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V2W2709-IC2709	2W61010.D	08/19/22 11:22	TCH	0.04	GCMS2W	TO-15	
V2W2709-IC2709	2W61011.D	08/19/22 11:55	TCH	0.1	GCMS2W	TO-15	Reporting this level
V2W2709-IC2709	2W61012.D	08/19/22 12:27	TCH	0.2	GCMS2W	TO-15	
V2W2709-IC2709	2W61013.D	08/19/22 12:59	TCH	0.5	GCMS2W	TO-15	
V2W2709-IC2709	2W61015.D	08/19/22 14:02	TCH	5	GCMS2W	TO-15	
V2W2709-ICC2709	2W61016.D	08/19/22 14:34	TCH	10	GCMS2W	TO-15	
V2W2709-IC2709	2W61017.D	08/19/22 15:08	TCH	20	GCMS2W	TO-15	
V2W2709-IC2709	2W61018.D	08/19/22 15:45	TCH	40	GCMS2W	TO-15	
V2W2709-IC2709	2W61019.D	08/19/22 16:25	TCH	50	GCMS2W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
cis-1,3-Dichloropropene	6.46	4.93	1.310	ok	1.313	1.253-1.373
m-Dichlorobenzene	16.82	10.59	1.588	ok	1.590	1.530-1.650
o-Dichlorobenzene	17.20	10.59	1.624	ok	1.626	1.566-1.686
p-Dichlorobenzene	16.91	10.59	1.597	ok	1.598	1.538-1.658
trans-1,3-Dichloropropene	7.16	4.93	1.452	ok	1.452	1.392-1.512
Di-Isopropyl ether	3.67	3.61	1.017	ok	1.017	0.957-1.077
2,3-Dimethylpentane	5.08	4.93	1.030	ok	1.029	0.969-1.089
2,4-Dimethylpentane	4.19	3.61	1.161	ok	1.162	1.102-1.222
Ethanol	2.28	3.61	0.632	ok	0.634	0.574-0.694
Ethylbenzene	11.54	10.59	1.090	ok	1.091	1.031-1.151
Ethyl Acrylate	5.41	4.93	1.097	ok	1.095	1.035-1.155
4-Ethyltoluene	16.15	10.59	1.525	ok	1.525	1.465-1.585
Freon 113	2.85	3.61	0.789	ok	0.787	0.727-0.847
Freon 114	1.99	3.61	0.551	ok	0.553	0.493-0.613
Freon 123	2.44	3.61	0.676	ok	0.674	0.614-0.734
Freon 123A	2.45	3.61	0.679	ok	0.679	0.619-0.739
Freon 142B	1.94	3.61	0.537	ok	0.540	0.480-0.600
Freon 152A	1.84	3.61	0.510	ok	0.512	0.452-0.572
Heptane	5.93	4.93	1.203	ok	1.204	1.144-1.264
Hexachlorobutadiene	18.80	10.59	1.775	ok	1.776	1.716-1.836
Hexachloroethane	17.75	10.59	1.676	ok	1.677	1.617-1.737
Hexane	3.67	3.61	1.017	ok	1.015	0.955-1.075
2-Hexanone	8.29	4.93	1.682	ok	1.678	1.618-1.738
Iodomethane	2.69	3.61	0.745	ok	0.745	0.685-0.805
Isopropylbenzene	14.43	10.59	1.363	ok	1.364	1.304-1.424
Isopropyl Alcohol	2.54	3.61	0.704	ok	0.702	0.642-0.762
p-Isopropyltoluene	17.22	10.59	1.626	ok	1.627	1.567-1.687
Methylene chloride	2.75	3.61	0.762	ok	0.762	0.702-0.822
Methyl ethyl ketone	3.34	3.61	0.925	ok	0.923	0.863-0.983
Methyl Isobutyl Ketone	6.59	4.93	1.337	ok	1.334	1.274-1.394
Methyl Tert Butyl Ether	3.19	3.61	0.884	ok	0.884	0.824-0.944
Methylmethacrylate	5.84	4.93	1.185	ok	1.182	1.122-1.242
Naphthalene	18.53	10.59	1.750	ok	1.751	1.691-1.811
Nonane	14.03	10.59	1.325	ok	1.326	1.266-1.386
Octane	9.59	4.93	1.945	ok	1.946	1.886-2.006
Pentane	2.63	3.61	0.729	ok	0.729	0.669-0.789
n-Propylbenzene	15.78	10.59	1.490	ok	1.491	1.431-1.551
Propylene	1.87	3.61	0.518	ok	0.520	0.460-0.580
Styrene	12.70	10.59	1.199	ok	1.200	1.140-1.260

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V2W2709-IC2709	2W61010.D	08/19/22 11:22	TCH	0.04	GCMS2W	TO-15	
V2W2709-IC2709	2W61011.D	08/19/22 11:55	TCH	0.1	GCMS2W	TO-15	Reporting this level
V2W2709-IC2709	2W61012.D	08/19/22 12:27	TCH	0.2	GCMS2W	TO-15	
V2W2709-IC2709	2W61013.D	08/19/22 12:59	TCH	0.5	GCMS2W	TO-15	
V2W2709-IC2709	2W61015.D	08/19/22 14:02	TCH	5	GCMS2W	TO-15	
V2W2709-ICC2709	2W61016.D	08/19/22 14:34	TCH	10	GCMS2W	TO-15	
V2W2709-IC2709	2W61017.D	08/19/22 15:08	TCH	20	GCMS2W	TO-15	
V2W2709-IC2709	2W61018.D	08/19/22 15:45	TCH	40	GCMS2W	TO-15	
V2W2709-IC2709	2W61019.D	08/19/22 16:25	TCH	50	GCMS2W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
1,1,1-Trichloroethane	4.27	3.61	1.183	ok	1.185	1.125-1.245
1,1,1,2-Tetrachloroethane	10.67	10.59	1.008	ok	1.009	0.949-1.069
1,1,2,2-Tetrachloroethane	12.92	10.59	1.220	ok	1.221	1.161-1.281
1,1,2-Trichloroethane	7.32	4.93	1.485	ok	1.486	1.426-1.546
1,2,4-Trichlorobenzene	18.49	10.59	1.746	ok	1.747	1.687-1.807
1,2,3-Trichloropropane	13.21	10.59	1.247	ok	1.248	1.188-1.308
1,2,3-Trimethylbenzene	17.15	10.59	1.619	ok	1.620	1.560-1.680
1,2,4-Trimethylbenzene	16.76	10.59	1.583	ok	1.584	1.524-1.644
1,3,5-Trimethylbenzene	16.30	10.59	1.539	ok	1.540	1.480-1.600
2,2,4-Trimethylpentane	5.62	4.93	1.140	ok	1.139	1.079-1.199
Tertiary Butyl Alcohol	2.72	3.61	0.753	ok	0.753	0.693-0.813
Tetrachloroethylene	9.45	4.93	1.917	ok	1.917	1.857-1.977
Tetrahydrofuran	3.93	3.61	1.089	ok	1.083	1.023-1.143
Toluene	7.70	4.93	1.562	ok	1.562	1.502-1.622
Trichloroethylene	5.52	4.93	1.120	ok	1.119	1.059-1.179
Trichlorofluoromethane	2.52	3.61	0.698	ok	0.698	0.638-0.758
Vinyl chloride	2.03	3.61	0.562	ok	0.565	0.505-0.625
Vinyl Acetate	3.23	3.61	0.895	ok	0.895	0.835-0.955
m,p-Xylene	11.98	10.59	1.131	ok	1.132	1.072-1.192
o-Xylene	12.91	10.59	1.219	ok	1.220	1.160-1.280

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.61	ok	3.61	3.28-3.94	64903	ok	69048	41429-96667
1,4-Difluorobenzene	4.93	ok	4.93	4.60-5.26	355487	ok	370656	222394-518918
Chlorobenzene-D5	10.59	ok	10.59	10.26-10.92	317521	ok	336964	202178-471750

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD54338
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Project: EPT, Ithaca, NY

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V2W2709-IC2709	2W61011.D	08/19/22 11:55	TCH	0.1	GCMS2W	TO-15	
V2W2709-IC2709	2W61012.D	08/19/22 12:27	TCH	0.2	GCMS2W	TO-15	Reporting this level
V2W2709-IC2709	2W61013.D	08/19/22 12:59	TCH	0.5	GCMS2W	TO-15	
V2W2709-IC2709	2W61015.D	08/19/22 14:02	TCH	5	GCMS2W	TO-15	
V2W2709-ICC2709	2W61016.D	08/19/22 14:34	TCH	10	GCMS2W	TO-15	
V2W2709-IC2709	2W61017.D	08/19/22 15:08	TCH	20	GCMS2W	TO-15	
V2W2709-IC2709	2W61018.D	08/19/22 15:45	TCH	40	GCMS2W	TO-15	
V2W2709-IC2709	2W61019.D	08/19/22 16:25	TCH	50	GCMS2W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	2.47	3.61	0.684	ok	0.682	0.622-0.742
Acrolein	2.41	3.61	0.668	ok	0.670	0.610-0.730
Acrylonitrile	2.60	3.61	0.720	ok	0.721	0.661-0.781
Acetonitrile	2.37	3.61	0.657	ok	0.657	0.597-0.717
1,3-Butadiene	2.08	3.61	0.576	ok	0.578	0.518-0.638
Benzene	4.60	3.61	1.274	ok	1.274	1.214-1.334
Bromobenzene	14.30	10.59	1.350	ok	1.352	1.292-1.412
Bromodichloromethane	5.46	4.93	1.108	ok	1.108	1.048-1.168
Bromoform	11.79	10.59	1.113	ok	1.114	1.054-1.174
Bromomethane	2.19	3.61	0.607	ok	0.606	0.546-0.666
Bromoethene	2.38	3.61	0.659	ok	0.659	0.599-0.719
n-Butane	2.11	3.61	0.584	ok	0.584	0.524-0.644
Benzyl Chloride	16.85	10.59	1.591	ok	1.592	1.532-1.652
n-Butylbenzene	17.57	10.59	1.659	ok	1.660	1.600-1.720
sec-Butylbenzene	17.04	10.59	1.609	ok	1.610	1.550-1.670
tert-Butylbenzene	16.76	10.59	1.583	ok	1.583	1.523-1.643
Carbon disulfide	2.85	3.61	0.789	ok	0.787	0.727-0.847
Chlorobenzene	10.66	10.59	1.007	ok	1.007	0.947-1.067
Chlorodifluoromethane	1.86	3.61	0.515	ok	0.517	0.457-0.577
Chloroethane	2.25	3.61	0.623	ok	0.623	0.563-0.683
Chlorotrifluoroethene	1.88	3.61	0.521	ok	0.520	0.460-0.580
Chloroform	3.68	3.61	1.019	ok	1.021	0.961-1.081
Chloromethane	1.95	3.61	0.540	ok	0.542	0.482-0.602
3-Chloropropene	2.79	3.61	0.773	ok	0.773	0.713-0.833
2-Chlorotoluene	15.43	10.59	1.457	ok	1.459	1.399-1.519
Carbon tetrachloride	4.71	3.61	1.305	ok	1.305	1.245-1.365
Cyclohexane	4.81	4.93	0.976	ok	0.976	0.916-1.036
1,1-Dichloroethane	3.15	3.61	0.873	ok	0.875	0.815-0.935
1,1-Dichloroethylene	2.71	3.61	0.751	ok	0.751	0.691-0.811
1,2-Dibromoethane (EDB)	8.58	4.93	1.740	ok	1.743	1.683-1.803
1,2-Dichloroethane	4.11	3.61	1.139	ok	1.139	1.079-1.199
1,2-Dichloropropane	5.28	4.93	1.071	ok	1.071	1.011-1.131
1,3-Dichloropropane	7.75	4.93	1.572	ok	1.574	1.514-1.634
1,4-Dioxane	5.58	4.93	1.132	ok	1.123	1.063-1.183
Dichlorodifluoromethane	1.90	3.61	0.526	ok	0.526	0.466-0.586
Dichlorofluoromethane	2.28	3.61	0.632	ok	0.633	0.573-0.693
Dibromochloromethane	8.23	4.93	1.669	ok	1.671	1.611-1.731
Dibromomethane	5.24	4.93	1.063	ok	1.063	1.003-1.123
trans-1,2-Dichloroethylene	3.08	3.61	0.853	ok	0.853	0.793-0.913

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V2W2709-IC2709	2W61010.D	08/19/22 11:22	TCH	0.04	GCMS2W	TO-15	
V2W2709-IC2709	2W61011.D	08/19/22 11:55	TCH	0.1	GCMS2W	TO-15	
V2W2709-IC2709	2W61012.D	08/19/22 12:27	TCH	0.2	GCMS2W	TO-15	Reporting this level
V2W2709-IC2709	2W61013.D	08/19/22 12:59	TCH	0.5	GCMS2W	TO-15	
V2W2709-IC2709	2W61015.D	08/19/22 14:02	TCH	5	GCMS2W	TO-15	
V2W2709-ICC2709	2W61016.D	08/19/22 14:34	TCH	10	GCMS2W	TO-15	
V2W2709-IC2709	2W61017.D	08/19/22 15:08	TCH	20	GCMS2W	TO-15	
V2W2709-IC2709	2W61018.D	08/19/22 15:45	TCH	40	GCMS2W	TO-15	
V2W2709-IC2709	2W61019.D	08/19/22 16:25	TCH	50	GCMS2W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
cis-1,2-Dichloroethylene	3.53	3.61	0.978	ok	0.978	0.918-1.038
cis-1,3-Dichloropropene	6.47	4.93	1.312	ok	1.313	1.253-1.373
m-Dichlorobenzene	16.83	10.59	1.589	ok	1.590	1.530-1.650
o-Dichlorobenzene	17.21	10.59	1.625	ok	1.626	1.566-1.686
p-Dichlorobenzene	16.91	10.59	1.597	ok	1.598	1.538-1.658
trans-1,3-Dichloropropene	7.16	4.93	1.452	ok	1.452	1.392-1.512
Di-Isopropyl ether	3.67	3.61	1.017	ok	1.017	0.957-1.077
2,3-Dimethylpentane	5.07	4.93	1.028	ok	1.029	0.969-1.089
2,4-Dimethylpentane	4.20	3.61	1.163	ok	1.162	1.102-1.222
Ethanol	2.29	3.61	0.634	ok	0.634	0.574-0.694
Ethylbenzene	11.55	10.59	1.091	ok	1.091	1.031-1.151
Ethyl Acetate	3.67	3.61	1.017	ok	1.018	0.958-1.078
Ethyl Acrylate	5.40	4.93	1.095	ok	1.095	1.035-1.155
4-Ethyltoluene	16.14	10.59	1.524	ok	1.525	1.465-1.585
Freon 113	2.84	3.61	0.787	ok	0.787	0.727-0.847
Freon 114	1.99	3.61	0.551	ok	0.553	0.493-0.613
Freon 123	2.43	3.61	0.673	ok	0.674	0.614-0.734
Freon 123A	2.45	3.61	0.679	ok	0.679	0.619-0.739
Freon 142B	1.95	3.61	0.540	ok	0.540	0.480-0.600
Freon 152A	1.84	3.61	0.510	ok	0.512	0.452-0.572
Heptane	5.93	4.93	1.203	ok	1.204	1.144-1.264
Hexachlorobutadiene	18.80	10.59	1.775	ok	1.776	1.716-1.836
Hexachloroethane	17.75	10.59	1.676	ok	1.677	1.617-1.737
Hexane	3.66	3.61	1.014	ok	1.015	0.955-1.075
2-Hexanone	8.29	4.93	1.682	ok	1.678	1.618-1.738
Iodomethane	2.69	3.61	0.745	ok	0.745	0.685-0.805
Isopropylbenzene	14.43	10.59	1.363	ok	1.364	1.304-1.424
Isopropyl Alcohol	2.53	3.61	0.701	ok	0.702	0.642-0.762
p-Isopropyltoluene	17.22	10.59	1.626	ok	1.627	1.567-1.687
Methylene chloride	2.75	3.61	0.762	ok	0.762	0.702-0.822
Methyl ethyl ketone	3.34	3.61	0.925	ok	0.923	0.863-0.983
Methyl Isobutyl Ketone	6.58	4.93	1.335	ok	1.334	1.274-1.394
Methyl Tert Butyl Ether	3.19	3.61	0.884	ok	0.884	0.824-0.944
Methylmethacrylate	5.83	4.93	1.183	ok	1.182	1.122-1.242
Naphthalene	18.53	10.59	1.750	ok	1.751	1.691-1.811
Nonane	14.03	10.59	1.325	ok	1.326	1.266-1.386
Octane	9.60	4.93	1.947	ok	1.946	1.886-2.006
Pentane	2.63	3.61	0.729	ok	0.729	0.669-0.789
n-Propylbenzene	15.77	10.59	1.489	ok	1.491	1.431-1.551

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V2W2709-IC2709	2W61010.D	08/19/22 11:22	TCH	0.04	GCMS2W	TO-15	
V2W2709-IC2709	2W61011.D	08/19/22 11:55	TCH	0.1	GCMS2W	TO-15	
V2W2709-IC2709	2W61012.D	08/19/22 12:27	TCH	0.2	GCMS2W	TO-15	Reporting this level
V2W2709-IC2709	2W61013.D	08/19/22 12:59	TCH	0.5	GCMS2W	TO-15	
V2W2709-IC2709	2W61015.D	08/19/22 14:02	TCH	5	GCMS2W	TO-15	
V2W2709-ICC2709	2W61016.D	08/19/22 14:34	TCH	10	GCMS2W	TO-15	
V2W2709-IC2709	2W61017.D	08/19/22 15:08	TCH	20	GCMS2W	TO-15	
V2W2709-IC2709	2W61018.D	08/19/22 15:45	TCH	40	GCMS2W	TO-15	
V2W2709-IC2709	2W61019.D	08/19/22 16:25	TCH	50	GCMS2W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Propylene	1.88	3.61	0.521	ok	0.520	0.460-0.580
Styrene	12.70	10.59	1.199	ok	1.200	1.140-1.260
1,1,1-Trichloroethane	4.28	3.61	1.186	ok	1.185	1.125-1.245
1,1,1,2-Tetrachloroethane	10.67	10.59	1.008	ok	1.009	0.949-1.069
1,1,2,2-Tetrachloroethane	12.92	10.59	1.220	ok	1.221	1.161-1.281
1,1,2-Trichloroethane	7.33	4.93	1.487	ok	1.486	1.426-1.546
1,2,4-Trichlorobenzene	18.49	10.59	1.746	ok	1.747	1.687-1.807
1,2,3-Trichloropropane	13.22	10.59	1.248	ok	1.248	1.188-1.308
1,2,3-Trimethylbenzene	17.15	10.59	1.619	ok	1.620	1.560-1.680
1,2,4-Trimethylbenzene	16.77	10.59	1.584	ok	1.584	1.524-1.644
1,3,5-Trimethylbenzene	16.30	10.59	1.539	ok	1.540	1.480-1.600
2,2,4-Trimethylpentane	5.61	4.93	1.138	ok	1.139	1.079-1.199
Tertiary Butyl Alcohol	2.72	3.61	0.753	ok	0.753	0.693-0.813
Tetrachloroethylene	9.45	4.93	1.917	ok	1.917	1.857-1.977
Tetrahydrofuran	3.93	3.61	1.089	ok	1.083	1.023-1.143
Toluene	7.70	4.93	1.562	ok	1.562	1.502-1.622
Trichloroethylene	5.52	4.93	1.120	ok	1.119	1.059-1.179
Trichlorofluoromethane	2.52	3.61	0.698	ok	0.698	0.638-0.758
Vinyl chloride	2.04	3.61	0.565	ok	0.565	0.505-0.625
Vinyl Acetate	3.24	3.61	0.898	ok	0.895	0.835-0.955
m,p-Xylene	11.98	10.59	1.131	ok	1.132	1.072-1.192
o-Xylene	12.91	10.59	1.219	ok	1.220	1.160-1.280

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.61	ok	3.61	3.28-3.94	64509	ok	69048	41429-96667
1,4-Difluorobenzene	4.93	ok	4.93	4.60-5.26	353558	ok	370656	222394-518918
Chlorobenzene-D5	10.59	ok	10.59	10.26-10.92	315511	ok	336964	202178-471750

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD54338
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Project: EPT, Ithaca, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V2W2709-IC2709	2W61010.D	08/19/22 11:22	TCH	0.04	GCMS2W	TO-15	
V2W2709-IC2709	2W61011.D	08/19/22 11:55	TCH	0.1	GCMS2W	TO-15	
V2W2709-IC2709	2W61012.D	08/19/22 12:27	TCH	0.2	GCMS2W	TO-15	
V2W2709-IC2709	2W61013.D	08/19/22 12:59	TCH	0.5	GCMS2W	TO-15	Reporting this level
V2W2709-IC2709	2W61015.D	08/19/22 14:02	TCH	5	GCMS2W	TO-15	
V2W2709-ICC2709	2W61016.D	08/19/22 14:34	TCH	10	GCMS2W	TO-15	
V2W2709-IC2709	2W61017.D	08/19/22 15:08	TCH	20	GCMS2W	TO-15	
V2W2709-IC2709	2W61018.D	08/19/22 15:45	TCH	40	GCMS2W	TO-15	
V2W2709-IC2709	2W61019.D	08/19/22 16:25	TCH	50	GCMS2W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	2.46	3.61	0.681	ok	0.682	0.622-0.742
Acrolein	2.43	3.61	0.673	ok	0.670	0.610-0.730
Acrylonitrile	2.60	3.61	0.720	ok	0.721	0.661-0.781
Acetonitrile	2.37	3.61	0.657	ok	0.657	0.597-0.717
1,3-Butadiene	2.09	3.61	0.579	ok	0.578	0.518-0.638
Benzene	4.60	3.61	1.274	ok	1.274	1.214-1.334
Bromobenzene	14.31	10.58	1.353	ok	1.352	1.292-1.412
Bromodichloromethane	5.46	4.93	1.108	ok	1.108	1.048-1.168
Bromoform	11.79	10.58	1.114	ok	1.114	1.054-1.174
Bromomethane	2.19	3.61	0.607	ok	0.606	0.546-0.666
Bromoethene	2.38	3.61	0.659	ok	0.659	0.599-0.719
n-Butane	2.11	3.61	0.584	ok	0.584	0.524-0.644
Benzyl Chloride	16.85	10.58	1.593	ok	1.592	1.532-1.652
n-Butylbenzene	17.57	10.58	1.661	ok	1.660	1.600-1.720
sec-Butylbenzene	17.04	10.58	1.611	ok	1.610	1.550-1.670
tert-Butylbenzene	16.76	10.58	1.584	ok	1.583	1.523-1.643
Carbon disulfide	2.84	3.61	0.787	ok	0.787	0.727-0.847
Chlorobenzene	10.66	10.58	1.008	ok	1.007	0.947-1.067
Chlorodifluoromethane	1.87	3.61	0.518	ok	0.517	0.457-0.577
Chloroethane	2.25	3.61	0.623	ok	0.623	0.563-0.683
Chlorotrifluoroethene	1.88	3.61	0.521	ok	0.520	0.460-0.580
Chloroform	3.68	3.61	1.019	ok	1.021	0.961-1.081
Chloromethane	1.96	3.61	0.543	ok	0.542	0.482-0.602
3-Chloropropene	2.79	3.61	0.773	ok	0.773	0.713-0.833
2-Chlorotoluene	15.44	10.58	1.459	ok	1.459	1.399-1.519
Carbon tetrachloride	4.71	3.61	1.305	ok	1.305	1.245-1.365
Cyclohexane	4.81	4.93	0.976	ok	0.976	0.916-1.036
1,1-Dichloroethane	3.16	3.61	0.875	ok	0.875	0.815-0.935
1,1-Dichloroethylene	2.71	3.61	0.751	ok	0.751	0.691-0.811
1,2-Dibromoethane (EDB)	8.59	4.93	1.742	ok	1.743	1.683-1.803
1,2-Dichloroethane	4.11	3.61	1.139	ok	1.139	1.079-1.199
1,2-Dichloropropane	5.28	4.93	1.071	ok	1.071	1.011-1.131
1,3-Dichloropropane	7.75	4.93	1.572	ok	1.574	1.514-1.634
1,4-Dioxane	5.55	4.93	1.126	ok	1.123	1.063-1.183
Dichlorodifluoromethane	1.90	3.61	0.526	ok	0.526	0.466-0.586
Dichlorofluoromethane	2.29	3.61	0.634	ok	0.633	0.573-0.693
Dibromochloromethane	8.23	4.93	1.669	ok	1.671	1.611-1.731
Dibromomethane	5.24	4.93	1.063	ok	1.063	1.003-1.123
trans-1,2-Dichloroethylene	3.08	3.61	0.853	ok	0.853	0.793-0.913

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V2W2709-IC2709	2W61010.D	08/19/22 11:22	TCH	0.04	GCMS2W	TO-15	
V2W2709-IC2709	2W61011.D	08/19/22 11:55	TCH	0.1	GCMS2W	TO-15	
V2W2709-IC2709	2W61012.D	08/19/22 12:27	TCH	0.2	GCMS2W	TO-15	
V2W2709-IC2709	2W61013.D	08/19/22 12:59	TCH	0.5	GCMS2W	TO-15	Reporting this level
V2W2709-IC2709	2W61015.D	08/19/22 14:02	TCH	5	GCMS2W	TO-15	
V2W2709-ICC2709	2W61016.D	08/19/22 14:34	TCH	10	GCMS2W	TO-15	
V2W2709-IC2709	2W61017.D	08/19/22 15:08	TCH	20	GCMS2W	TO-15	
V2W2709-IC2709	2W61018.D	08/19/22 15:45	TCH	40	GCMS2W	TO-15	
V2W2709-IC2709	2W61019.D	08/19/22 16:25	TCH	50	GCMS2W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
cis-1,2-Dichloroethylene	3.53	3.61	0.978	ok	0.978	0.918-1.038
cis-1,3-Dichloropropene	6.47	4.93	1.312	ok	1.313	1.253-1.373
m-Dichlorobenzene	16.83	10.58	1.591	ok	1.590	1.530-1.650
o-Dichlorobenzene	17.20	10.58	1.626	ok	1.626	1.566-1.686
p-Dichlorobenzene	16.91	10.58	1.598	ok	1.598	1.538-1.658
trans-1,3-Dichloropropene	7.15	4.93	1.450	ok	1.452	1.392-1.512
Di-Isopropyl ether	3.67	3.61	1.017	ok	1.017	0.957-1.077
2,3-Dimethylpentane	5.07	4.93	1.028	ok	1.029	0.969-1.089
2,4-Dimethylpentane	4.19	3.61	1.161	ok	1.162	1.102-1.222
Ethanol	2.29	3.61	0.634	ok	0.634	0.574-0.694
Ethylbenzene	11.54	10.58	1.091	ok	1.091	1.031-1.151
Ethyl Acetate	3.68	3.61	1.019	ok	1.018	0.958-1.078
Ethyl Acrylate	5.40	4.93	1.095	ok	1.095	1.035-1.155
4-Ethyltoluene	16.14	10.58	1.526	ok	1.525	1.465-1.585
Freon 113	2.84	3.61	0.787	ok	0.787	0.727-0.847
Freon 114	2.00	3.61	0.554	ok	0.553	0.493-0.613
Freon 123	2.43	3.61	0.673	ok	0.674	0.614-0.734
Freon 123A	2.45	3.61	0.679	ok	0.679	0.619-0.739
Freon 142B	1.95	3.61	0.540	ok	0.540	0.480-0.600
Freon 152A	1.85	3.61	0.512	ok	0.512	0.452-0.572
Heptane	5.93	4.93	1.203	ok	1.204	1.144-1.264
Hexachlorobutadiene	18.79	10.58	1.776	ok	1.776	1.716-1.836
Hexachloroethane	17.75	10.58	1.678	ok	1.677	1.617-1.737
Hexane	3.67	3.61	1.017	ok	1.015	0.955-1.075
2-Hexanone	8.29	4.93	1.682	ok	1.678	1.618-1.738
Iodomethane	2.69	3.61	0.745	ok	0.745	0.685-0.805
Isopropylbenzene	14.43	10.58	1.364	ok	1.364	1.304-1.424
Isopropyl Alcohol	2.54	3.61	0.704	ok	0.702	0.642-0.762
p-Isopropyltoluene	17.22	10.58	1.628	ok	1.627	1.567-1.687
Methylene chloride	2.75	3.61	0.762	ok	0.762	0.702-0.822
Methyl ethyl ketone	3.34	3.61	0.925	ok	0.923	0.863-0.983
Methyl Isobutyl Ketone	6.58	4.93	1.335	ok	1.334	1.274-1.394
Methyl Tert Butyl Ether	3.19	3.61	0.884	ok	0.884	0.824-0.944
Methylmethacrylate	5.83	4.93	1.183	ok	1.182	1.122-1.242
Naphthalene	18.53	10.58	1.751	ok	1.751	1.691-1.811
Nonane	14.02	10.58	1.325	ok	1.326	1.266-1.386
Octane	9.59	4.93	1.945	ok	1.946	1.886-2.006
Pentane	2.63	3.61	0.729	ok	0.729	0.669-0.789
n-Propylbenzene	15.78	10.58	1.491	ok	1.491	1.431-1.551

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V2W2709-IC2709	2W61010.D	08/19/22 11:22	TCH	0.04	GCMS2W	TO-15	
V2W2709-IC2709	2W61011.D	08/19/22 11:55	TCH	0.1	GCMS2W	TO-15	
V2W2709-IC2709	2W61012.D	08/19/22 12:27	TCH	0.2	GCMS2W	TO-15	
V2W2709-IC2709	2W61013.D	08/19/22 12:59	TCH	0.5	GCMS2W	TO-15	Reporting this level
V2W2709-IC2709	2W61015.D	08/19/22 14:02	TCH	5	GCMS2W	TO-15	
V2W2709-ICC2709	2W61016.D	08/19/22 14:34	TCH	10	GCMS2W	TO-15	
V2W2709-IC2709	2W61017.D	08/19/22 15:08	TCH	20	GCMS2W	TO-15	
V2W2709-IC2709	2W61018.D	08/19/22 15:45	TCH	40	GCMS2W	TO-15	
V2W2709-IC2709	2W61019.D	08/19/22 16:25	TCH	50	GCMS2W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Propylene	1.88	3.61	0.521	ok	0.520	0.460-0.580
Styrene	12.69	10.58	1.199	ok	1.200	1.140-1.260
1,1,1-Trichloroethane	4.27	3.61	1.183	ok	1.185	1.125-1.245
1,1,1,2-Tetrachloroethane	10.68	10.58	1.009	ok	1.009	0.949-1.069
1,1,2,2-Tetrachloroethane	12.92	10.58	1.221	ok	1.221	1.161-1.281
1,1,2-Trichloroethane	7.32	4.93	1.485	ok	1.486	1.426-1.546
1,2,4-Trichlorobenzene	18.49	10.58	1.748	ok	1.747	1.687-1.807
1,2,3-Trichloropropane	13.20	10.58	1.248	ok	1.248	1.188-1.308
1,2,3-Trimethylbenzene	17.15	10.58	1.621	ok	1.620	1.560-1.680
1,2,4-Trimethylbenzene	16.77	10.58	1.585	ok	1.584	1.524-1.644
1,3,5-Trimethylbenzene	16.30	10.58	1.541	ok	1.540	1.480-1.600
2,2,4-Trimethylpentane	5.61	4.93	1.138	ok	1.139	1.079-1.199
Tertiary Butyl Alcohol	2.72	3.61	0.753	ok	0.753	0.693-0.813
Tetrachloroethylene	9.44	4.93	1.915	ok	1.917	1.857-1.977
Tetrahydrofuran	3.92	3.61	1.086	ok	1.083	1.023-1.143
Toluene	7.70	4.93	1.562	ok	1.562	1.502-1.622
Trichloroethylene	5.52	4.93	1.120	ok	1.119	1.059-1.179
Trichlorofluoromethane	2.52	3.61	0.698	ok	0.698	0.638-0.758
Vinyl chloride	2.04	3.61	0.565	ok	0.565	0.505-0.625
Vinyl Acetate	3.23	3.61	0.895	ok	0.895	0.835-0.955
m,p-Xylene	11.97	10.58	1.131	ok	1.132	1.072-1.192
o-Xylene	12.91	10.58	1.220	ok	1.220	1.160-1.280

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.61	ok	3.61	3.28-3.94	64185	ok	69048	41429-96667
1,4-Difluorobenzene	4.93	ok	4.93	4.60-5.26	349033	ok	370656	222394-518918
Chlorobenzene-D5	10.58	ok	10.59	10.26-10.92	311657	ok	336964	202178-471750

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V2W2709-IC2709	2W61010.D	08/19/22 11:22	TCH	0.04	GCMS2W	TO-15	
V2W2709-IC2709	2W61011.D	08/19/22 11:55	TCH	0.1	GCMS2W	TO-15	
V2W2709-IC2709	2W61012.D	08/19/22 12:27	TCH	0.2	GCMS2W	TO-15	
V2W2709-IC2709	2W61013.D	08/19/22 12:59	TCH	0.5	GCMS2W	TO-15	
V2W2709-IC2709	2W61015.D	08/19/22 14:02	TCH	5	GCMS2W	TO-15	Reporting this level
V2W2709-ICC2709	2W61016.D	08/19/22 14:34	TCH	10	GCMS2W	TO-15	
V2W2709-IC2709	2W61017.D	08/19/22 15:08	TCH	20	GCMS2W	TO-15	
V2W2709-IC2709	2W61018.D	08/19/22 15:45	TCH	40	GCMS2W	TO-15	
V2W2709-IC2709	2W61019.D	08/19/22 16:25	TCH	50	GCMS2W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	2.46	3.61	0.681	ok	0.682	0.622-0.742
Acrolein	2.42	3.61	0.670	ok	0.670	0.610-0.730
Acrylonitrile	2.60	3.61	0.720	ok	0.721	0.661-0.781
Acetonitrile	2.37	3.61	0.657	ok	0.657	0.597-0.717
1,3-Butadiene	2.09	3.61	0.579	ok	0.578	0.518-0.638
Benzene	4.60	3.61	1.274	ok	1.274	1.214-1.334
Bromobenzene	14.31	10.58	1.353	ok	1.352	1.292-1.412
Bromodichloromethane	5.46	4.93	1.108	ok	1.108	1.048-1.168
Bromoform	11.79	10.58	1.114	ok	1.114	1.054-1.174
Bromomethane	2.19	3.61	0.607	ok	0.606	0.546-0.666
Bromoethene	2.38	3.61	0.659	ok	0.659	0.599-0.719
n-Butane	2.11	3.61	0.584	ok	0.584	0.524-0.644
Benzyl Chloride	16.85	10.58	1.593	ok	1.592	1.532-1.652
n-Butylbenzene	17.57	10.58	1.661	ok	1.660	1.600-1.720
sec-Butylbenzene	17.04	10.58	1.611	ok	1.610	1.550-1.670
tert-Butylbenzene	16.76	10.58	1.584	ok	1.583	1.523-1.643
Carbon disulfide	2.84	3.61	0.787	ok	0.787	0.727-0.847
Chlorobenzene	10.66	10.58	1.008	ok	1.007	0.947-1.067
Chlorodifluoromethane	1.86	3.61	0.515	ok	0.517	0.457-0.577
Chloroethane	2.25	3.61	0.623	ok	0.623	0.563-0.683
Chlorotrifluoroethene	1.88	3.61	0.521	ok	0.520	0.460-0.580
Chloroform	3.69	3.61	1.022	ok	1.021	0.961-1.081
Chloromethane	1.96	3.61	0.543	ok	0.542	0.482-0.602
3-Chloropropene	2.79	3.61	0.773	ok	0.773	0.713-0.833
2-Chlorotoluene	15.44	10.58	1.459	ok	1.459	1.399-1.519
Carbon tetrachloride	4.71	3.61	1.305	ok	1.305	1.245-1.365
Cyclohexane	4.81	4.93	0.976	ok	0.976	0.916-1.036
1,1-Dichloroethane	3.15	3.61	0.873	ok	0.875	0.815-0.935
1,1-Dichloroethylene	2.71	3.61	0.751	ok	0.751	0.691-0.811
1,2-Dibromoethane (EDB)	8.59	4.93	1.742	ok	1.743	1.683-1.803
1,2-Dichloroethane	4.11	3.61	1.139	ok	1.139	1.079-1.199
1,2-Dichloropropane	5.28	4.93	1.071	ok	1.071	1.011-1.131
1,3-Dichloropropane	7.76	4.93	1.574	ok	1.574	1.514-1.634
1,4-Dioxane	5.53	4.93	1.122	ok	1.123	1.063-1.183
Dichlorodifluoromethane	1.90	3.61	0.526	ok	0.526	0.466-0.586
Dichlorofluoromethane	2.29	3.61	0.634	ok	0.633	0.573-0.693
Dibromochloromethane	8.24	4.93	1.671	ok	1.671	1.611-1.731
Dibromomethane	5.24	4.93	1.063	ok	1.063	1.003-1.123
trans-1,2-Dichloroethylene	3.08	3.61	0.853	ok	0.853	0.793-0.913

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V2W2709-IC2709	2W61010.D	08/19/22 11:22	TCH	0.04	GCMS2W	TO-15	
V2W2709-IC2709	2W61011.D	08/19/22 11:55	TCH	0.1	GCMS2W	TO-15	
V2W2709-IC2709	2W61012.D	08/19/22 12:27	TCH	0.2	GCMS2W	TO-15	
V2W2709-IC2709	2W61013.D	08/19/22 12:59	TCH	0.5	GCMS2W	TO-15	
V2W2709-IC2709	2W61015.D	08/19/22 14:02	TCH	5	GCMS2W	TO-15	Reporting this level
V2W2709-ICC2709	2W61016.D	08/19/22 14:34	TCH	10	GCMS2W	TO-15	
V2W2709-IC2709	2W61017.D	08/19/22 15:08	TCH	20	GCMS2W	TO-15	
V2W2709-IC2709	2W61018.D	08/19/22 15:45	TCH	40	GCMS2W	TO-15	
V2W2709-IC2709	2W61019.D	08/19/22 16:25	TCH	50	GCMS2W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
cis-1,2-Dichloroethylene	3.53	3.61	0.978	ok	0.978	0.918-1.038
cis-1,3-Dichloropropene	6.47	4.93	1.312	ok	1.313	1.253-1.373
m-Dichlorobenzene	16.83	10.58	1.591	ok	1.590	1.530-1.650
o-Dichlorobenzene	17.21	10.58	1.627	ok	1.626	1.566-1.686
p-Dichlorobenzene	16.91	10.58	1.598	ok	1.598	1.538-1.658
trans-1,3-Dichloropropene	7.16	4.93	1.452	ok	1.452	1.392-1.512
Di-Isopropyl ether	3.67	3.61	1.017	ok	1.017	0.957-1.077
2,3-Dimethylpentane	5.07	4.93	1.028	ok	1.029	0.969-1.089
2,4-Dimethylpentane	4.19	3.61	1.161	ok	1.162	1.102-1.222
Ethanol	2.29	3.61	0.634	ok	0.634	0.574-0.694
Ethylbenzene	11.55	10.58	1.092	ok	1.091	1.031-1.151
Ethyl Acetate	3.67	3.61	1.017	ok	1.018	0.958-1.078
Ethyl Acrylate	5.39	4.93	1.093	ok	1.095	1.035-1.155
4-Ethyltoluene	16.14	10.58	1.526	ok	1.525	1.465-1.585
Freon 113	2.84	3.61	0.787	ok	0.787	0.727-0.847
Freon 114	2.00	3.61	0.554	ok	0.553	0.493-0.613
Freon 123	2.43	3.61	0.673	ok	0.674	0.614-0.734
Freon 123A	2.45	3.61	0.679	ok	0.679	0.619-0.739
Freon 142B	1.95	3.61	0.540	ok	0.540	0.480-0.600
Freon 152A	1.85	3.61	0.512	ok	0.512	0.452-0.572
Heptane	5.93	4.93	1.203	ok	1.204	1.144-1.264
Hexachlorobutadiene	18.80	10.58	1.777	ok	1.776	1.716-1.836
Hexachloroethane	17.75	10.58	1.678	ok	1.677	1.617-1.737
Hexane	3.66	3.61	1.014	ok	1.015	0.955-1.075
2-Hexanone	8.26	4.93	1.675	ok	1.678	1.618-1.738
Iodomethane	2.69	3.61	0.745	ok	0.745	0.685-0.805
Isopropylbenzene	14.43	10.58	1.364	ok	1.364	1.304-1.424
Isopropyl Alcohol	2.53	3.61	0.701	ok	0.702	0.642-0.762
p-Isopropyltoluene	17.22	10.58	1.628	ok	1.627	1.567-1.687
Methylene chloride	2.75	3.61	0.762	ok	0.762	0.702-0.822
Methyl ethyl ketone	3.33	3.61	0.922	ok	0.923	0.863-0.983
Methyl Isobutyl Ketone	6.57	4.93	1.333	ok	1.334	1.274-1.394
Methyl Tert Butyl Ether	3.19	3.61	0.884	ok	0.884	0.824-0.944
Methylmethacrylate	5.82	4.93	1.181	ok	1.182	1.122-1.242
Naphthalene	18.53	10.58	1.751	ok	1.751	1.691-1.811
Nonane	14.03	10.58	1.326	ok	1.326	1.266-1.386
Octane	9.59	4.93	1.945	ok	1.946	1.886-2.006
Pentane	2.63	3.61	0.729	ok	0.729	0.669-0.789
n-Propylbenzene	15.77	10.58	1.491	ok	1.491	1.431-1.551

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V2W2709-IC2709	2W61010.D	08/19/22 11:22	TCH	0.04	GCMS2W	TO-15	
V2W2709-IC2709	2W61011.D	08/19/22 11:55	TCH	0.1	GCMS2W	TO-15	
V2W2709-IC2709	2W61012.D	08/19/22 12:27	TCH	0.2	GCMS2W	TO-15	
V2W2709-IC2709	2W61013.D	08/19/22 12:59	TCH	0.5	GCMS2W	TO-15	
V2W2709-IC2709	2W61015.D	08/19/22 14:02	TCH	5	GCMS2W	TO-15	Reporting this level
V2W2709-ICC2709	2W61016.D	08/19/22 14:34	TCH	10	GCMS2W	TO-15	
V2W2709-IC2709	2W61017.D	08/19/22 15:08	TCH	20	GCMS2W	TO-15	
V2W2709-IC2709	2W61018.D	08/19/22 15:45	TCH	40	GCMS2W	TO-15	
V2W2709-IC2709	2W61019.D	08/19/22 16:25	TCH	50	GCMS2W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Propylene	1.88	3.61	0.521	ok	0.520	0.460-0.580
Styrene	12.70	10.58	1.200	ok	1.200	1.140-1.260
1,1,1-Trichloroethane	4.27	3.61	1.183	ok	1.185	1.125-1.245
1,1,1,2-Tetrachloroethane	10.67	10.58	1.009	ok	1.009	0.949-1.069
1,1,2,2-Tetrachloroethane	12.92	10.58	1.221	ok	1.221	1.161-1.281
1,1,2-Trichloroethane	7.32	4.93	1.485	ok	1.486	1.426-1.546
1,2,4-Trichlorobenzene	18.49	10.58	1.748	ok	1.747	1.687-1.807
1,2,3-Trichloropropane	13.21	10.58	1.249	ok	1.248	1.188-1.308
1,2,3-Trimethylbenzene	17.15	10.58	1.621	ok	1.620	1.560-1.680
1,2,4-Trimethylbenzene	16.77	10.58	1.585	ok	1.584	1.524-1.644
1,3,5-Trimethylbenzene	16.30	10.58	1.541	ok	1.540	1.480-1.600
2,2,4-Trimethylpentane	5.61	4.93	1.138	ok	1.139	1.079-1.199
Tertiary Butyl Alcohol	2.72	3.61	0.753	ok	0.753	0.693-0.813
Tetrachloroethylene	9.45	4.93	1.917	ok	1.917	1.857-1.977
Tetrahydrofuran	3.90	3.61	1.080	ok	1.083	1.023-1.143
Toluene	7.69	4.93	1.560	ok	1.562	1.502-1.622
Trichloroethylene	5.51	4.93	1.118	ok	1.119	1.059-1.179
Trichlorofluoromethane	2.52	3.61	0.698	ok	0.698	0.638-0.758
Vinyl chloride	2.04	3.61	0.565	ok	0.565	0.505-0.625
Vinyl Acetate	3.23	3.61	0.895	ok	0.895	0.835-0.955
m,p-Xylene	11.98	10.58	1.132	ok	1.132	1.072-1.192
o-Xylene	12.91	10.58	1.220	ok	1.220	1.160-1.280

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.61	ok	3.61	3.28-3.94	68904	ok	69048	41429-96667
1,4-Difluorobenzene	4.93	ok	4.93	4.60-5.26	372933	ok	370656	222394-518918
Chlorobenzene-D5	10.58	ok	10.59	10.26-10.92	337350	ok	336964	202178-471750

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V2W2709-IC2709	2W61010.D	08/19/22 11:22	TCH	0.04	GCMS2W	TO-15	
V2W2709-IC2709	2W61011.D	08/19/22 11:55	TCH	0.1	GCMS2W	TO-15	
V2W2709-IC2709	2W61012.D	08/19/22 12:27	TCH	0.2	GCMS2W	TO-15	
V2W2709-IC2709	2W61013.D	08/19/22 12:59	TCH	0.5	GCMS2W	TO-15	
V2W2709-IC2709	2W61015.D	08/19/22 14:02	TCH	5	GCMS2W	TO-15	
V2W2709-ICC2709	2W61016.D	08/19/22 14:34	TCH	10	GCMS2W	TO-15	Reporting this level
V2W2709-IC2709	2W61017.D	08/19/22 15:08	TCH	20	GCMS2W	TO-15	
V2W2709-IC2709	2W61018.D	08/19/22 15:45	TCH	40	GCMS2W	TO-15	
V2W2709-IC2709	2W61019.D	08/19/22 16:25	TCH	50	GCMS2W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	2.46	3.61	0.681	ok	0.682	0.622-0.742
Acrolein	2.42	3.61	0.670	ok	0.670	0.610-0.730
Acrylonitrile	2.60	3.61	0.720	ok	0.721	0.661-0.781
Acetonitrile	2.37	3.61	0.657	ok	0.657	0.597-0.717
1,3-Butadiene	2.09	3.61	0.579	ok	0.578	0.518-0.638
Benzene	4.60	3.61	1.274	ok	1.274	1.214-1.334
Bromobenzene	14.31	10.58	1.353	ok	1.352	1.292-1.412
Bromodichloromethane	5.46	4.93	1.108	ok	1.108	1.048-1.168
Bromoform	11.79	10.58	1.114	ok	1.114	1.054-1.174
Bromomethane	2.19	3.61	0.607	ok	0.606	0.546-0.666
Bromoethene	2.38	3.61	0.659	ok	0.659	0.599-0.719
n-Butane	2.11	3.61	0.584	ok	0.584	0.524-0.644
Benzyl Chloride	16.85	10.58	1.593	ok	1.592	1.532-1.652
n-Butylbenzene	17.57	10.58	1.661	ok	1.660	1.600-1.720
sec-Butylbenzene	17.04	10.58	1.611	ok	1.610	1.550-1.670
tert-Butylbenzene	16.76	10.58	1.584	ok	1.583	1.523-1.643
Carbon disulfide	2.84	3.61	0.787	ok	0.787	0.727-0.847
Chlorobenzene	10.66	10.58	1.008	ok	1.007	0.947-1.067
Chlorodifluoromethane	1.87	3.61	0.518	ok	0.517	0.457-0.577
Chloroethane	2.25	3.61	0.623	ok	0.623	0.563-0.683
Chlorotrifluoroethene	1.88	3.61	0.521	ok	0.520	0.460-0.580
Chloroform	3.69	3.61	1.022	ok	1.021	0.961-1.081
Chloromethane	1.96	3.61	0.543	ok	0.542	0.482-0.602
3-Chloropropene	2.79	3.61	0.773	ok	0.773	0.713-0.833
2-Chlorotoluene	15.44	10.58	1.459	ok	1.459	1.399-1.519
Carbon tetrachloride	4.71	3.61	1.305	ok	1.305	1.245-1.365
Cyclohexane	4.81	4.93	0.976	ok	0.976	0.916-1.036
1,1-Dichloroethane	3.16	3.61	0.875	ok	0.875	0.815-0.935
1,1-Dichloroethylene	2.71	3.61	0.751	ok	0.751	0.691-0.811
1,2-Dibromoethane (EDB)	8.59	4.93	1.742	ok	1.743	1.683-1.803
1,2-Dichloroethane	4.11	3.61	1.139	ok	1.139	1.079-1.199
1,2-Dichloropropane	5.28	4.93	1.071	ok	1.071	1.011-1.131
1,3-Dichloropropane	7.76	4.93	1.574	ok	1.574	1.514-1.634
1,4-Dioxane	5.52	4.93	1.120	ok	1.123	1.063-1.183
Dichlorodifluoromethane	1.90	3.61	0.526	ok	0.526	0.466-0.586
Dichlorofluoromethane	2.29	3.61	0.634	ok	0.633	0.573-0.693
Dibromochloromethane	8.24	4.93	1.671	ok	1.671	1.611-1.731
Dibromomethane	5.24	4.93	1.063	ok	1.063	1.003-1.123
trans-1,2-Dichloroethylene	3.08	3.61	0.853	ok	0.853	0.793-0.913

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V2W2709-IC2709	2W61010.D	08/19/22 11:22	TCH	0.04	GCMS2W	TO-15	
V2W2709-IC2709	2W61011.D	08/19/22 11:55	TCH	0.1	GCMS2W	TO-15	
V2W2709-IC2709	2W61012.D	08/19/22 12:27	TCH	0.2	GCMS2W	TO-15	
V2W2709-IC2709	2W61013.D	08/19/22 12:59	TCH	0.5	GCMS2W	TO-15	
V2W2709-IC2709	2W61015.D	08/19/22 14:02	TCH	5	GCMS2W	TO-15	
V2W2709-ICC2709	2W61016.D	08/19/22 14:34	TCH	10	GCMS2W	TO-15	Reporting this level
V2W2709-IC2709	2W61017.D	08/19/22 15:08	TCH	20	GCMS2W	TO-15	
V2W2709-IC2709	2W61018.D	08/19/22 15:45	TCH	40	GCMS2W	TO-15	
V2W2709-IC2709	2W61019.D	08/19/22 16:25	TCH	50	GCMS2W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
cis-1,2-Dichloroethylene	3.53	3.61	0.978	ok	0.978	0.918-1.038
cis-1,3-Dichloropropene	6.47	4.93	1.312	ok	1.313	1.253-1.373
m-Dichlorobenzene	16.83	10.58	1.591	ok	1.590	1.530-1.650
o-Dichlorobenzene	17.21	10.58	1.627	ok	1.626	1.566-1.686
p-Dichlorobenzene	16.91	10.58	1.598	ok	1.598	1.538-1.658
trans-1,3-Dichloropropene	7.16	4.93	1.452	ok	1.452	1.392-1.512
Di-Isopropyl ether	3.67	3.61	1.017	ok	1.017	0.957-1.077
2,3-Dimethylpentane	5.07	4.93	1.028	ok	1.029	0.969-1.089
2,4-Dimethylpentane	4.20	3.61	1.163	ok	1.162	1.102-1.222
Ethanol	2.29	3.61	0.634	ok	0.634	0.574-0.694
Ethylbenzene	11.55	10.58	1.092	ok	1.091	1.031-1.151
Ethyl Acetate	3.67	3.61	1.017	ok	1.018	0.958-1.078
Ethyl Acrylate	5.39	4.93	1.093	ok	1.095	1.035-1.155
4-Ethyltoluene	16.15	10.58	1.526	ok	1.525	1.465-1.585
Freon 113	2.84	3.61	0.787	ok	0.787	0.727-0.847
Freon 114	2.00	3.61	0.554	ok	0.553	0.493-0.613
Freon 123	2.43	3.61	0.673	ok	0.674	0.614-0.734
Freon 123A	2.45	3.61	0.679	ok	0.679	0.619-0.739
Freon 142B	1.95	3.61	0.540	ok	0.540	0.480-0.600
Freon 152A	1.85	3.61	0.512	ok	0.512	0.452-0.572
Heptane	5.93	4.93	1.203	ok	1.204	1.144-1.264
Hexachlorobutadiene	18.79	10.58	1.776	ok	1.776	1.716-1.836
Hexachloroethane	17.75	10.58	1.678	ok	1.677	1.617-1.737
Hexane	3.66	3.61	1.014	ok	1.015	0.955-1.075
2-Hexanone	8.26	4.93	1.675	ok	1.678	1.618-1.738
Iodomethane	2.69	3.61	0.745	ok	0.745	0.685-0.805
Isopropylbenzene	14.44	10.58	1.365	ok	1.364	1.304-1.424
Isopropyl Alcohol	2.53	3.61	0.701	ok	0.702	0.642-0.762
p-Isopropyltoluene	17.22	10.58	1.628	ok	1.627	1.567-1.687
Methylene chloride	2.75	3.61	0.762	ok	0.762	0.702-0.822
Methyl ethyl ketone	3.33	3.61	0.922	ok	0.923	0.863-0.983
Methyl Isobutyl Ketone	6.57	4.93	1.333	ok	1.334	1.274-1.394
Methyl Tert Butyl Ether	3.19	3.61	0.884	ok	0.884	0.824-0.944
Methylmethacrylate	5.82	4.93	1.181	ok	1.182	1.122-1.242
Naphthalene	18.53	10.58	1.751	ok	1.751	1.691-1.811
Nonane	14.03	10.58	1.326	ok	1.326	1.266-1.386
Octane	9.59	4.93	1.945	ok	1.946	1.886-2.006
Pentane	2.63	3.61	0.729	ok	0.729	0.669-0.789
n-Propylbenzene	15.78	10.58	1.491	ok	1.491	1.431-1.551

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V2W2709-IC2709	2W61010.D	08/19/22 11:22	TCH	0.04	GCMS2W	TO-15	
V2W2709-IC2709	2W61011.D	08/19/22 11:55	TCH	0.1	GCMS2W	TO-15	
V2W2709-IC2709	2W61012.D	08/19/22 12:27	TCH	0.2	GCMS2W	TO-15	
V2W2709-IC2709	2W61013.D	08/19/22 12:59	TCH	0.5	GCMS2W	TO-15	
V2W2709-IC2709	2W61015.D	08/19/22 14:02	TCH	5	GCMS2W	TO-15	
V2W2709-ICC2709	2W61016.D	08/19/22 14:34	TCH	10	GCMS2W	TO-15	Reporting this level
V2W2709-IC2709	2W61017.D	08/19/22 15:08	TCH	20	GCMS2W	TO-15	
V2W2709-IC2709	2W61018.D	08/19/22 15:45	TCH	40	GCMS2W	TO-15	
V2W2709-IC2709	2W61019.D	08/19/22 16:25	TCH	50	GCMS2W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Propylene	1.88	3.61	0.521	ok	0.520	0.460-0.580
Styrene	12.70	10.58	1.200	ok	1.200	1.140-1.260
1,1,1-Trichloroethane	4.28	3.61	1.186	ok	1.185	1.125-1.245
1,1,1,2-Tetrachloroethane	10.68	10.58	1.009	ok	1.009	0.949-1.069
1,1,2,2-Tetrachloroethane	12.93	10.58	1.222	ok	1.221	1.161-1.281
1,1,2-Trichloroethane	7.32	4.93	1.485	ok	1.486	1.426-1.546
1,2,4-Trichlorobenzene	18.49	10.58	1.748	ok	1.747	1.687-1.807
1,2,3-Trichloropropane	13.21	10.58	1.249	ok	1.248	1.188-1.308
1,2,3-Trimethylbenzene	17.15	10.58	1.621	ok	1.620	1.560-1.680
1,2,4-Trimethylbenzene	16.77	10.58	1.585	ok	1.584	1.524-1.644
1,3,5-Trimethylbenzene	16.30	10.58	1.541	ok	1.540	1.480-1.600
2,2,4-Trimethylpentane	5.61	4.93	1.138	ok	1.139	1.079-1.199
Tertiary Butyl Alcohol	2.72	3.61	0.753	ok	0.753	0.693-0.813
Tetrachloroethylene	9.45	4.93	1.917	ok	1.917	1.857-1.977
Tetrahydrofuran	3.90	3.61	1.080	ok	1.083	1.023-1.143
Toluene	7.70	4.93	1.562	ok	1.562	1.502-1.622
Trichloroethylene	5.52	4.93	1.120	ok	1.119	1.059-1.179
Trichlorofluoromethane	2.52	3.61	0.698	ok	0.698	0.638-0.758
Vinyl chloride	2.04	3.61	0.565	ok	0.565	0.505-0.625
Vinyl Acetate	3.23	3.61	0.895	ok	0.895	0.835-0.955
m,p-Xylene	11.98	10.58	1.132	ok	1.132	1.072-1.192
o-Xylene	12.92	10.58	1.221	ok	1.220	1.160-1.280

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.61	ok	3.61	3.28-3.94	68573	ok	69048	41429-96667
1,4-Difluorobenzene	4.93	ok	4.93	4.60-5.26	368687	ok	370656	222394-518918
Chlorobenzene-D5	10.58	ok	10.59	10.26-10.92	341921	ok	336964	202178-471750

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V2W2709-IC2709	2W61010.D	08/19/22 11:22	TCH	0.04	GCMS2W	TO-15	
V2W2709-IC2709	2W61011.D	08/19/22 11:55	TCH	0.1	GCMS2W	TO-15	
V2W2709-IC2709	2W61012.D	08/19/22 12:27	TCH	0.2	GCMS2W	TO-15	
V2W2709-IC2709	2W61013.D	08/19/22 12:59	TCH	0.5	GCMS2W	TO-15	
V2W2709-IC2709	2W61015.D	08/19/22 14:02	TCH	5	GCMS2W	TO-15	
V2W2709-ICC2709	2W61016.D	08/19/22 14:34	TCH	10	GCMS2W	TO-15	
V2W2709-IC2709	2W61017.D	08/19/22 15:08	TCH	20	GCMS2W	TO-15	Reporting this level
V2W2709-IC2709	2W61018.D	08/19/22 15:45	TCH	40	GCMS2W	TO-15	
V2W2709-IC2709	2W61019.D	08/19/22 16:25	TCH	50	GCMS2W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	2.46	3.61	0.681	ok	0.682	0.622-0.742
Acrolein	2.42	3.61	0.670	ok	0.670	0.610-0.730
Acrylonitrile	2.60	3.61	0.720	ok	0.721	0.661-0.781
Acetonitrile	2.37	3.61	0.657	ok	0.657	0.597-0.717
1,3-Butadiene	2.09	3.61	0.579	ok	0.578	0.518-0.638
Benzene	4.60	3.61	1.274	ok	1.274	1.214-1.334
Bromobenzene	14.31	10.59	1.351	ok	1.352	1.292-1.412
Bromodichloromethane	5.46	4.93	1.108	ok	1.108	1.048-1.168
Bromoform	11.80	10.59	1.114	ok	1.114	1.054-1.174
Bromomethane	2.19	3.61	0.607	ok	0.606	0.546-0.666
Bromoethene	2.38	3.61	0.659	ok	0.659	0.599-0.719
n-Butane	2.11	3.61	0.584	ok	0.584	0.524-0.644
Benzyl Chloride	16.85	10.59	1.591	ok	1.592	1.532-1.652
n-Butylbenzene	17.57	10.59	1.659	ok	1.660	1.600-1.720
sec-Butylbenzene	17.04	10.59	1.609	ok	1.610	1.550-1.670
tert-Butylbenzene	16.77	10.59	1.584	ok	1.583	1.523-1.643
Carbon disulfide	2.84	3.61	0.787	ok	0.787	0.727-0.847
Chlorobenzene	10.67	10.59	1.008	ok	1.007	0.947-1.067
Chlorodifluoromethane	1.87	3.61	0.518	ok	0.517	0.457-0.577
Chloroethane	2.25	3.61	0.623	ok	0.623	0.563-0.683
Chlorotrifluoroethene	1.88	3.61	0.521	ok	0.520	0.460-0.580
Chloroform	3.69	3.61	1.022	ok	1.021	0.961-1.081
Chloromethane	1.96	3.61	0.543	ok	0.542	0.482-0.602
3-Chloropropene	2.79	3.61	0.773	ok	0.773	0.713-0.833
2-Chlorotoluene	15.45	10.59	1.459	ok	1.459	1.399-1.519
Carbon tetrachloride	4.71	3.61	1.305	ok	1.305	1.245-1.365
Cyclohexane	4.81	4.93	0.976	ok	0.976	0.916-1.036
1,1-Dichloroethane	3.16	3.61	0.875	ok	0.875	0.815-0.935
1,1-Dichloroethylene	2.71	3.61	0.751	ok	0.751	0.691-0.811
1,2-Dibromoethane (EDB)	8.59	4.93	1.742	ok	1.743	1.683-1.803
1,2-Dichloroethane	4.11	3.61	1.139	ok	1.139	1.079-1.199
1,2-Dichloropropane	5.28	4.93	1.071	ok	1.071	1.011-1.131
1,3-Dichloropropane	7.76	4.93	1.574	ok	1.574	1.514-1.634
1,4-Dioxane	5.52	4.93	1.120	ok	1.123	1.063-1.183
Dichlorodifluoromethane	1.90	3.61	0.526	ok	0.526	0.466-0.586
Dichlorofluoromethane	2.29	3.61	0.634	ok	0.633	0.573-0.693
Dibromochloromethane	8.24	4.93	1.671	ok	1.671	1.611-1.731
Dibromomethane	5.24	4.93	1.063	ok	1.063	1.003-1.123
trans-1,2-Dichloroethylene	3.08	3.61	0.853	ok	0.853	0.793-0.913

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V2W2709-IC2709	2W61010.D	08/19/22 11:22	TCH	0.04	GCMS2W	TO-15	
V2W2709-IC2709	2W61011.D	08/19/22 11:55	TCH	0.1	GCMS2W	TO-15	
V2W2709-IC2709	2W61012.D	08/19/22 12:27	TCH	0.2	GCMS2W	TO-15	
V2W2709-IC2709	2W61013.D	08/19/22 12:59	TCH	0.5	GCMS2W	TO-15	
V2W2709-IC2709	2W61015.D	08/19/22 14:02	TCH	5	GCMS2W	TO-15	
V2W2709-ICC2709	2W61016.D	08/19/22 14:34	TCH	10	GCMS2W	TO-15	
V2W2709-IC2709	2W61017.D	08/19/22 15:08	TCH	20	GCMS2W	TO-15	Reporting this level
V2W2709-IC2709	2W61018.D	08/19/22 15:45	TCH	40	GCMS2W	TO-15	
V2W2709-IC2709	2W61019.D	08/19/22 16:25	TCH	50	GCMS2W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
cis-1,2-Dichloroethylene	3.53	3.61	0.978	ok	0.978	0.918-1.038
cis-1,3-Dichloropropene	6.47	4.93	1.312	ok	1.313	1.253-1.373
m-Dichlorobenzene	16.83	10.59	1.589	ok	1.590	1.530-1.650
o-Dichlorobenzene	17.21	10.59	1.625	ok	1.626	1.566-1.686
p-Dichlorobenzene	16.91	10.59	1.597	ok	1.598	1.538-1.658
trans-1,3-Dichloropropene	7.16	4.93	1.452	ok	1.452	1.392-1.512
Di-Isopropyl ether	3.67	3.61	1.017	ok	1.017	0.957-1.077
2,3-Dimethylpentane	5.07	4.93	1.028	ok	1.029	0.969-1.089
2,4-Dimethylpentane	4.19	3.61	1.161	ok	1.162	1.102-1.222
Ethanol	2.29	3.61	0.634	ok	0.634	0.574-0.694
Ethylbenzene	11.55	10.59	1.091	ok	1.091	1.031-1.151
Ethyl Acetate	3.67	3.61	1.017	ok	1.018	0.958-1.078
Ethyl Acrylate	5.40	4.93	1.095	ok	1.095	1.035-1.155
4-Ethyltoluene	16.15	10.59	1.525	ok	1.525	1.465-1.585
Freon 113	2.84	3.61	0.787	ok	0.787	0.727-0.847
Freon 114	2.00	3.61	0.554	ok	0.553	0.493-0.613
Freon 123	2.43	3.61	0.673	ok	0.674	0.614-0.734
Freon 123A	2.45	3.61	0.679	ok	0.679	0.619-0.739
Freon 142B	1.95	3.61	0.540	ok	0.540	0.480-0.600
Freon 152A	1.85	3.61	0.512	ok	0.512	0.452-0.572
Heptane	5.94	4.93	1.205	ok	1.204	1.144-1.264
Hexachlorobutadiene	18.79	10.59	1.774	ok	1.776	1.716-1.836
Hexachloroethane	17.75	10.59	1.676	ok	1.677	1.617-1.737
Hexane	3.66	3.61	1.014	ok	1.015	0.955-1.075
2-Hexanone	8.26	4.93	1.675	ok	1.678	1.618-1.738
Iodomethane	2.69	3.61	0.745	ok	0.745	0.685-0.805
Isopropylbenzene	14.44	10.59	1.364	ok	1.364	1.304-1.424
Isopropyl Alcohol	2.53	3.61	0.701	ok	0.702	0.642-0.762
p-Isopropyltoluene	17.22	10.59	1.626	ok	1.627	1.567-1.687
Methylene chloride	2.75	3.61	0.762	ok	0.762	0.702-0.822
Methyl ethyl ketone	3.33	3.61	0.922	ok	0.923	0.863-0.983
Methyl Isobutyl Ketone	6.57	4.93	1.333	ok	1.334	1.274-1.394
Methyl Tert Butyl Ether	3.19	3.61	0.884	ok	0.884	0.824-0.944
Methylmethacrylate	5.83	4.93	1.183	ok	1.182	1.122-1.242
Naphthalene	18.53	10.59	1.750	ok	1.751	1.691-1.811
Nonane	14.04	10.59	1.326	ok	1.326	1.266-1.386
Octane	9.59	4.93	1.945	ok	1.946	1.886-2.006
Pentane	2.63	3.61	0.729	ok	0.729	0.669-0.789
n-Propylbenzene	15.78	10.59	1.490	ok	1.491	1.431-1.551

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V2W2709-IC2709	2W61010.D	08/19/22 11:22	TCH	0.04	GCMS2W	TO-15	
V2W2709-IC2709	2W61011.D	08/19/22 11:55	TCH	0.1	GCMS2W	TO-15	
V2W2709-IC2709	2W61012.D	08/19/22 12:27	TCH	0.2	GCMS2W	TO-15	
V2W2709-IC2709	2W61013.D	08/19/22 12:59	TCH	0.5	GCMS2W	TO-15	
V2W2709-IC2709	2W61015.D	08/19/22 14:02	TCH	5	GCMS2W	TO-15	
V2W2709-ICC2709	2W61016.D	08/19/22 14:34	TCH	10	GCMS2W	TO-15	
V2W2709-IC2709	2W61017.D	08/19/22 15:08	TCH	20	GCMS2W	TO-15	Reporting this level
V2W2709-IC2709	2W61018.D	08/19/22 15:45	TCH	40	GCMS2W	TO-15	
V2W2709-IC2709	2W61019.D	08/19/22 16:25	TCH	50	GCMS2W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Propylene	1.88	3.61	0.521	ok	0.520	0.460-0.580
Styrene	12.71	10.59	1.200	ok	1.200	1.140-1.260
1,1,1-Trichloroethane	4.28	3.61	1.186	ok	1.185	1.125-1.245
1,1,1,2-Tetrachloroethane	10.68	10.59	1.008	ok	1.009	0.949-1.069
1,1,2,2-Tetrachloroethane	12.93	10.59	1.221	ok	1.221	1.161-1.281
1,1,2-Trichloroethane	7.32	4.93	1.485	ok	1.486	1.426-1.546
1,2,4-Trichlorobenzene	18.49	10.59	1.746	ok	1.747	1.687-1.807
1,2,3-Trichloropropane	13.22	10.59	1.248	ok	1.248	1.188-1.308
1,2,3-Trimethylbenzene	17.15	10.59	1.619	ok	1.620	1.560-1.680
1,2,4-Trimethylbenzene	16.77	10.59	1.584	ok	1.584	1.524-1.644
1,3,5-Trimethylbenzene	16.31	10.59	1.540	ok	1.540	1.480-1.600
2,2,4-Trimethylpentane	5.61	4.93	1.138	ok	1.139	1.079-1.199
Tertiary Butyl Alcohol	2.72	3.61	0.753	ok	0.753	0.693-0.813
Tetrachloroethylene	9.45	4.93	1.917	ok	1.917	1.857-1.977
Tetrahydrofuran	3.90	3.61	1.080	ok	1.083	1.023-1.143
Toluene	7.70	4.93	1.562	ok	1.562	1.502-1.622
Trichloroethylene	5.52	4.93	1.120	ok	1.119	1.059-1.179
Trichlorofluoromethane	2.52	3.61	0.698	ok	0.698	0.638-0.758
Vinyl chloride	2.04	3.61	0.565	ok	0.565	0.505-0.625
Vinyl Acetate	3.23	3.61	0.895	ok	0.895	0.835-0.955
m,p-Xylene	11.98	10.59	1.131	ok	1.132	1.072-1.192
o-Xylene	12.93	10.59	1.221	ok	1.220	1.160-1.280

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.61	ok	3.61	3.28-3.94	72073	ok	69048	41429-96667
1,4-Difluorobenzene	4.93	ok	4.93	4.60-5.26	384279	ok	370656	222394-518918
Chlorobenzene-D5	10.59	ok	10.59	10.26-10.92	358155	ok	336964	202178-471750

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V2W2709-IC2709	2W61010.D	08/19/22 11:22	TCH	0.04	GCMS2W	TO-15	
V2W2709-IC2709	2W61011.D	08/19/22 11:55	TCH	0.1	GCMS2W	TO-15	
V2W2709-IC2709	2W61012.D	08/19/22 12:27	TCH	0.2	GCMS2W	TO-15	
V2W2709-IC2709	2W61013.D	08/19/22 12:59	TCH	0.5	GCMS2W	TO-15	
V2W2709-IC2709	2W61015.D	08/19/22 14:02	TCH	5	GCMS2W	TO-15	
V2W2709-ICC2709	2W61016.D	08/19/22 14:34	TCH	10	GCMS2W	TO-15	
V2W2709-IC2709	2W61017.D	08/19/22 15:08	TCH	20	GCMS2W	TO-15	
V2W2709-IC2709	2W61018.D	08/19/22 15:45	TCH	40	GCMS2W	TO-15	Reporting this level
V2W2709-IC2709	2W61019.D	08/19/22 16:25	TCH	50	GCMS2W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	2.46	3.61	0.681	ok	0.682	0.622-0.742
Acrolein	2.42	3.61	0.670	ok	0.670	0.610-0.730
Acrylonitrile	2.61	3.61	0.723	ok	0.721	0.661-0.781
Acetonitrile	2.37	3.61	0.657	ok	0.657	0.597-0.717
1,3-Butadiene	2.09	3.61	0.579	ok	0.578	0.518-0.638
Benzene	4.60	3.61	1.274	ok	1.274	1.214-1.334
Bromobenzene	14.32	10.59	1.352	ok	1.352	1.292-1.412
Bromodichloromethane	5.47	4.93	1.110	ok	1.108	1.048-1.168
Bromoform	11.81	10.59	1.115	ok	1.114	1.054-1.174
Bromomethane	2.19	3.61	0.607	ok	0.606	0.546-0.666
Bromoethene	2.38	3.61	0.659	ok	0.659	0.599-0.719
n-Butane	2.11	3.61	0.584	ok	0.584	0.524-0.644
Benzyl Chloride	16.86	10.59	1.592	ok	1.592	1.532-1.652
n-Butylbenzene	17.57	10.59	1.659	ok	1.660	1.600-1.720
sec-Butylbenzene	17.05	10.59	1.610	ok	1.610	1.550-1.670
tert-Butylbenzene	16.77	10.59	1.584	ok	1.583	1.523-1.643
Carbon disulfide	2.85	3.61	0.789	ok	0.787	0.727-0.847
Chlorobenzene	10.67	10.59	1.008	ok	1.007	0.947-1.067
Chlorodifluoromethane	1.87	3.61	0.518	ok	0.517	0.457-0.577
Chloroethane	2.25	3.61	0.623	ok	0.623	0.563-0.683
Chlorotrifluoroethene	1.88	3.61	0.521	ok	0.520	0.460-0.580
Chloroform	3.69	3.61	1.022	ok	1.021	0.961-1.081
Chloromethane	1.96	3.61	0.543	ok	0.542	0.482-0.602
3-Chloropropene	2.79	3.61	0.773	ok	0.773	0.713-0.833
2-Chlorotoluene	15.45	10.59	1.459	ok	1.459	1.399-1.519
Carbon tetrachloride	4.71	3.61	1.305	ok	1.305	1.245-1.365
Cyclohexane	4.81	4.93	0.976	ok	0.976	0.916-1.036
1,1-Dichloroethane	3.16	3.61	0.875	ok	0.875	0.815-0.935
1,1-Dichloroethylene	2.71	3.61	0.751	ok	0.751	0.691-0.811
1,2-Dibromoethane (EDB)	8.60	4.93	1.744	ok	1.743	1.683-1.803
1,2-Dichloroethane	4.11	3.61	1.139	ok	1.139	1.079-1.199
1,2-Dichloropropane	5.29	4.93	1.073	ok	1.071	1.011-1.131
1,3-Dichloropropane	7.76	4.93	1.574	ok	1.574	1.514-1.634
1,4-Dioxane	5.53	4.93	1.122	ok	1.123	1.063-1.183
Dichlorodifluoromethane	1.90	3.61	0.526	ok	0.526	0.466-0.586
Dichlorofluoromethane	2.29	3.61	0.634	ok	0.633	0.573-0.693
Dibromochloromethane	8.24	4.93	1.671	ok	1.671	1.611-1.731
Dibromomethane	5.24	4.93	1.063	ok	1.063	1.003-1.123
trans-1,2-Dichloroethylene	3.08	3.61	0.853	ok	0.853	0.793-0.913

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V2W2709-IC2709	2W61010.D	08/19/22 11:22	TCH	0.04	GCMS2W	TO-15	
V2W2709-IC2709	2W61011.D	08/19/22 11:55	TCH	0.1	GCMS2W	TO-15	
V2W2709-IC2709	2W61012.D	08/19/22 12:27	TCH	0.2	GCMS2W	TO-15	
V2W2709-IC2709	2W61013.D	08/19/22 12:59	TCH	0.5	GCMS2W	TO-15	
V2W2709-IC2709	2W61015.D	08/19/22 14:02	TCH	5	GCMS2W	TO-15	
V2W2709-ICC2709	2W61016.D	08/19/22 14:34	TCH	10	GCMS2W	TO-15	
V2W2709-IC2709	2W61017.D	08/19/22 15:08	TCH	20	GCMS2W	TO-15	
V2W2709-IC2709	2W61018.D	08/19/22 15:45	TCH	40	GCMS2W	TO-15	Reporting this level
V2W2709-IC2709	2W61019.D	08/19/22 16:25	TCH	50	GCMS2W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
cis-1,2-Dichloroethylene	3.53	3.61	0.978	ok	0.978	0.918-1.038
cis-1,3-Dichloropropene	6.48	4.93	1.314	ok	1.313	1.253-1.373
m-Dichlorobenzene	16.84	10.59	1.590	ok	1.590	1.530-1.650
o-Dichlorobenzene	17.21	10.59	1.625	ok	1.626	1.566-1.686
p-Dichlorobenzene	16.92	10.59	1.598	ok	1.598	1.538-1.658
trans-1,3-Dichloropropene	7.16	4.93	1.452	ok	1.452	1.392-1.512
Di-Isopropyl ether	3.67	3.61	1.017	ok	1.017	0.957-1.077
2,3-Dimethylpentane	5.08	4.93	1.030	ok	1.029	0.969-1.089
2,4-Dimethylpentane	4.20	3.61	1.163	ok	1.162	1.102-1.222
Ethanol	2.29	3.61	0.634	ok	0.634	0.574-0.694
Ethylbenzene	11.56	10.59	1.092	ok	1.091	1.031-1.151
Ethyl Acetate	3.68	3.61	1.019	ok	1.018	0.958-1.078
Ethyl Acrylate	5.40	4.93	1.095	ok	1.095	1.035-1.155
4-Ethyltoluene	16.15	10.59	1.525	ok	1.525	1.465-1.585
Freon 113	2.85	3.61	0.789	ok	0.787	0.727-0.847
Freon 114	2.00	3.61	0.554	ok	0.553	0.493-0.613
Freon 123	2.44	3.61	0.676	ok	0.674	0.614-0.734
Freon 123A	2.46	3.61	0.681	ok	0.679	0.619-0.739
Freon 142B	1.95	3.61	0.540	ok	0.540	0.480-0.600
Freon 152A	1.85	3.61	0.512	ok	0.512	0.452-0.572
Heptane	5.94	4.93	1.205	ok	1.204	1.144-1.264
Hexachlorobutadiene	18.80	10.59	1.775	ok	1.776	1.716-1.836
Hexachloroethane	17.75	10.59	1.676	ok	1.677	1.617-1.737
Hexane	3.67	3.61	1.017	ok	1.015	0.955-1.075
2-Hexanone	8.27	4.93	1.677	ok	1.678	1.618-1.738
Iodomethane	2.69	3.61	0.745	ok	0.745	0.685-0.805
Isopropylbenzene	14.45	10.59	1.364	ok	1.364	1.304-1.424
Isopropyl Alcohol	2.54	3.61	0.704	ok	0.702	0.642-0.762
p-Isopropyltoluene	17.23	10.59	1.627	ok	1.627	1.567-1.687
Methylene chloride	2.75	3.61	0.762	ok	0.762	0.702-0.822
Methyl ethyl ketone	3.33	3.61	0.922	ok	0.923	0.863-0.983
Methyl Isobutyl Ketone	6.58	4.93	1.335	ok	1.334	1.274-1.394
Methyl Tert Butyl Ether	3.19	3.61	0.884	ok	0.884	0.824-0.944
Methylmethacrylate	5.83	4.93	1.183	ok	1.182	1.122-1.242
Naphthalene	18.54	10.59	1.751	ok	1.751	1.691-1.811
Nonane	14.04	10.59	1.326	ok	1.326	1.266-1.386
Octane	9.60	4.93	1.947	ok	1.946	1.886-2.006
Pentane	2.63	3.61	0.729	ok	0.729	0.669-0.789
n-Propylbenzene	15.79	10.59	1.491	ok	1.491	1.431-1.551

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V2W2709-IC2709	2W61010.D	08/19/22 11:22	TCH	0.04	GCMS2W	TO-15	
V2W2709-IC2709	2W61011.D	08/19/22 11:55	TCH	0.1	GCMS2W	TO-15	
V2W2709-IC2709	2W61012.D	08/19/22 12:27	TCH	0.2	GCMS2W	TO-15	
V2W2709-IC2709	2W61013.D	08/19/22 12:59	TCH	0.5	GCMS2W	TO-15	
V2W2709-IC2709	2W61015.D	08/19/22 14:02	TCH	5	GCMS2W	TO-15	
V2W2709-ICC2709	2W61016.D	08/19/22 14:34	TCH	10	GCMS2W	TO-15	
V2W2709-IC2709	2W61017.D	08/19/22 15:08	TCH	20	GCMS2W	TO-15	
V2W2709-IC2709	2W61018.D	08/19/22 15:45	TCH	40	GCMS2W	TO-15	Reporting this level
V2W2709-IC2709	2W61019.D	08/19/22 16:25	TCH	50	GCMS2W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Propylene	1.88	3.61	0.521	ok	0.520	0.460-0.580
Styrene	12.71	10.59	1.200	ok	1.200	1.140-1.260
1,1,1-Trichloroethane	4.28	3.61	1.186	ok	1.185	1.125-1.245
1,1,1,2-Tetrachloroethane	10.69	10.59	1.009	ok	1.009	0.949-1.069
1,1,2,2-Tetrachloroethane	12.94	10.59	1.222	ok	1.221	1.161-1.281
1,1,2-Trichloroethane	7.33	4.93	1.487	ok	1.486	1.426-1.546
1,2,4-Trichlorobenzene	18.49	10.59	1.746	ok	1.747	1.687-1.807
1,2,3-Trichloropropane	13.23	10.59	1.249	ok	1.248	1.188-1.308
1,2,3-Trimethylbenzene	17.16	10.59	1.620	ok	1.620	1.560-1.680
1,2,4-Trimethylbenzene	16.78	10.59	1.585	ok	1.584	1.524-1.644
1,3,5-Trimethylbenzene	16.31	10.59	1.540	ok	1.540	1.480-1.600
2,2,4-Trimethylpentane	5.62	4.93	1.140	ok	1.139	1.079-1.199
Tertiary Butyl Alcohol	2.72	3.61	0.753	ok	0.753	0.693-0.813
Tetrachloroethylene	9.45	4.93	1.917	ok	1.917	1.857-1.977
Tetrahydrofuran	3.90	3.61	1.080	ok	1.083	1.023-1.143
Toluene	7.70	4.93	1.562	ok	1.562	1.502-1.622
Trichloroethylene	5.52	4.93	1.120	ok	1.119	1.059-1.179
Trichlorofluoromethane	2.52	3.61	0.698	ok	0.698	0.638-0.758
Vinyl chloride	2.04	3.61	0.565	ok	0.565	0.505-0.625
Vinyl Acetate	3.23	3.61	0.895	ok	0.895	0.835-0.955
m,p-Xylene	11.99	10.59	1.132	ok	1.132	1.072-1.192
o-Xylene	12.93	10.59	1.221	ok	1.220	1.160-1.280

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.61	ok	3.61	3.28-3.94	75390	ok	69048	41429-96667
1,4-Difluorobenzene	4.93	ok	4.93	4.60-5.26	391613	ok	370656	222394-518918
Chlorobenzene-D5	10.59	ok	10.59	10.26-10.92	360276	ok	336964	202178-471750

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD54338
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Project: EPT, Ithaca, NY

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V2W2709-IC2709	2W61010.D	08/19/22 11:22	TCH	0.04	GCMS2W	TO-15	
V2W2709-IC2709	2W61011.D	08/19/22 11:55	TCH	0.1	GCMS2W	TO-15	
V2W2709-IC2709	2W61012.D	08/19/22 12:27	TCH	0.2	GCMS2W	TO-15	
V2W2709-IC2709	2W61013.D	08/19/22 12:59	TCH	0.5	GCMS2W	TO-15	
V2W2709-IC2709	2W61015.D	08/19/22 14:02	TCH	5	GCMS2W	TO-15	
V2W2709-ICC2709	2W61016.D	08/19/22 14:34	TCH	10	GCMS2W	TO-15	
V2W2709-IC2709	2W61017.D	08/19/22 15:08	TCH	20	GCMS2W	TO-15	
V2W2709-IC2709	2W61018.D	08/19/22 15:45	TCH	40	GCMS2W	TO-15	
V2W2709-IC2709	2W61019.D	08/19/22 16:25	TCH	50	GCMS2W	TO-15	Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	2.46	3.61	0.681	ok	0.682	0.622-0.742
Acrolein	2.42	3.61	0.670	ok	0.670	0.610-0.730
Acrylonitrile	2.61	3.61	0.723	ok	0.721	0.661-0.781
Acetonitrile	2.37	3.61	0.657	ok	0.657	0.597-0.717
1,3-Butadiene	2.09	3.61	0.579	ok	0.578	0.518-0.638
Benzene	4.60	3.61	1.274	ok	1.274	1.214-1.334
Bromobenzene	14.33	10.59	1.353	ok	1.352	1.292-1.412
Bromodichloromethane	5.47	4.93	1.110	ok	1.108	1.048-1.168
Bromoform	11.80	10.59	1.114	ok	1.114	1.054-1.174
Bromomethane	2.19	3.61	0.607	ok	0.606	0.546-0.666
Bromoethene	2.38	3.61	0.659	ok	0.659	0.599-0.719
n-Butane	2.11	3.61	0.584	ok	0.584	0.524-0.644
Benzyl Chloride	16.86	10.59	1.592	ok	1.592	1.532-1.652
n-Butylbenzene	17.58	10.59	1.660	ok	1.660	1.600-1.720
sec-Butylbenzene	17.05	10.59	1.610	ok	1.610	1.550-1.670
tert-Butylbenzene	16.77	10.59	1.584	ok	1.583	1.523-1.643
Carbon disulfide	2.84	3.61	0.787	ok	0.787	0.727-0.847
Chlorobenzene	10.68	10.59	1.008	ok	1.007	0.947-1.067
Chlorodifluoromethane	1.86	3.61	0.515	ok	0.517	0.457-0.577
Chloroethane	2.25	3.61	0.623	ok	0.623	0.563-0.683
Chlorotrifluoroethene	1.88	3.61	0.521	ok	0.520	0.460-0.580
Chloroform	3.69	3.61	1.022	ok	1.021	0.961-1.081
Chloromethane	1.96	3.61	0.543	ok	0.542	0.482-0.602
3-Chloropropene	2.79	3.61	0.773	ok	0.773	0.713-0.833
2-Chlorotoluene	15.46	10.59	1.460	ok	1.459	1.399-1.519
Carbon tetrachloride	4.71	3.61	1.305	ok	1.305	1.245-1.365
Cyclohexane	4.81	4.93	0.976	ok	0.976	0.916-1.036
1,1-Dichloroethane	3.16	3.61	0.875	ok	0.875	0.815-0.935
1,1-Dichloroethylene	2.71	3.61	0.751	ok	0.751	0.691-0.811
1,2-Dibromoethane (EDB)	8.60	4.93	1.744	ok	1.743	1.683-1.803
1,2-Dichloroethane	4.11	3.61	1.139	ok	1.139	1.079-1.199
1,2-Dichloropropane	5.28	4.93	1.071	ok	1.071	1.011-1.131
1,3-Dichloropropane	7.77	4.93	1.576	ok	1.574	1.514-1.634
1,4-Dioxane	5.53	4.93	1.122	ok	1.123	1.063-1.183
Dichlorodifluoromethane	1.90	3.61	0.526	ok	0.526	0.466-0.586
Dichlorofluoromethane	2.28	3.61	0.632	ok	0.633	0.573-0.693
Dibromochloromethane	8.25	4.93	1.673	ok	1.671	1.611-1.731
Dibromomethane	5.24	4.93	1.063	ok	1.063	1.003-1.123
trans-1,2-Dichloroethylene	3.08	3.61	0.853	ok	0.853	0.793-0.913

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V2W2709-IC2709	2W61010.D	08/19/22 11:22	TCH	0.04	GCMS2W	TO-15	
V2W2709-IC2709	2W61011.D	08/19/22 11:55	TCH	0.1	GCMS2W	TO-15	
V2W2709-IC2709	2W61012.D	08/19/22 12:27	TCH	0.2	GCMS2W	TO-15	
V2W2709-IC2709	2W61013.D	08/19/22 12:59	TCH	0.5	GCMS2W	TO-15	
V2W2709-IC2709	2W61015.D	08/19/22 14:02	TCH	5	GCMS2W	TO-15	
V2W2709-ICC2709	2W61016.D	08/19/22 14:34	TCH	10	GCMS2W	TO-15	
V2W2709-IC2709	2W61017.D	08/19/22 15:08	TCH	20	GCMS2W	TO-15	
V2W2709-IC2709	2W61018.D	08/19/22 15:45	TCH	40	GCMS2W	TO-15	
V2W2709-IC2709	2W61019.D	08/19/22 16:25	TCH	50	GCMS2W	TO-15	Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
cis-1,2-Dichloroethylene	3.53	3.61	0.978	ok	0.978	0.918-1.038
cis-1,3-Dichloropropene	6.48	4.93	1.314	ok	1.313	1.253-1.373
m-Dichlorobenzene	16.84	10.59	1.590	ok	1.590	1.530-1.650
o-Dichlorobenzene	17.22	10.59	1.626	ok	1.626	1.566-1.686
p-Dichlorobenzene	16.92	10.59	1.598	ok	1.598	1.538-1.658
trans-1,3-Dichloropropene	7.16	4.93	1.452	ok	1.452	1.392-1.512
Di-Isopropyl ether	3.67	3.61	1.017	ok	1.017	0.957-1.077
2,3-Dimethylpentane	5.07	4.93	1.028	ok	1.029	0.969-1.089
2,4-Dimethylpentane	4.20	3.61	1.163	ok	1.162	1.102-1.222
Ethanol	2.29	3.61	0.634	ok	0.634	0.574-0.694
Ethylbenzene	11.56	10.59	1.092	ok	1.091	1.031-1.151
Ethyl Acetate	3.68	3.61	1.019	ok	1.018	0.958-1.078
Ethyl Acrylate	5.40	4.93	1.095	ok	1.095	1.035-1.155
4-Ethyltoluene	16.15	10.59	1.525	ok	1.525	1.465-1.585
Freon 113	2.84	3.61	0.787	ok	0.787	0.727-0.847
Freon 114	2.00	3.61	0.554	ok	0.553	0.493-0.613
Freon 123	2.44	3.61	0.676	ok	0.674	0.614-0.734
Freon 123A	2.45	3.61	0.679	ok	0.679	0.619-0.739
Freon 142B	1.95	3.61	0.540	ok	0.540	0.480-0.600
Freon 152A	1.85	3.61	0.512	ok	0.512	0.452-0.572
Heptane	5.94	4.93	1.205	ok	1.204	1.144-1.264
Hexachlorobutadiene	18.80	10.59	1.775	ok	1.776	1.716-1.836
Hexachloroethane	17.75	10.59	1.676	ok	1.677	1.617-1.737
Hexane	3.67	3.61	1.017	ok	1.015	0.955-1.075
2-Hexanone	8.27	4.93	1.677	ok	1.678	1.618-1.738
Iodomethane	2.69	3.61	0.745	ok	0.745	0.685-0.805
Isopropylbenzene	14.45	10.59	1.364	ok	1.364	1.304-1.424
Isopropyl Alcohol	2.53	3.61	0.701	ok	0.702	0.642-0.762
p-Isopropyltoluene	17.23	10.59	1.627	ok	1.627	1.567-1.687
Methylene chloride	2.75	3.61	0.762	ok	0.762	0.702-0.822
Methyl ethyl ketone	3.33	3.61	0.922	ok	0.923	0.863-0.983
Methyl Isobutyl Ketone	6.58	4.93	1.335	ok	1.334	1.274-1.394
Methyl Tert Butyl Ether	3.19	3.61	0.884	ok	0.884	0.824-0.944
Methylmethacrylate	5.83	4.93	1.183	ok	1.182	1.122-1.242
Naphthalene	18.54	10.59	1.751	ok	1.751	1.691-1.811
Nonane	14.05	10.59	1.327	ok	1.326	1.266-1.386
Octane	9.60	4.93	1.947	ok	1.946	1.886-2.006
Pentane	2.63	3.61	0.729	ok	0.729	0.669-0.789
n-Propylbenzene	15.79	10.59	1.491	ok	1.491	1.431-1.551

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V2W2709-IC2709	2W61010.D	08/19/22 11:22	TCH	0.04	GCMS2W	TO-15	
V2W2709-IC2709	2W61011.D	08/19/22 11:55	TCH	0.1	GCMS2W	TO-15	
V2W2709-IC2709	2W61012.D	08/19/22 12:27	TCH	0.2	GCMS2W	TO-15	
V2W2709-IC2709	2W61013.D	08/19/22 12:59	TCH	0.5	GCMS2W	TO-15	
V2W2709-IC2709	2W61015.D	08/19/22 14:02	TCH	5	GCMS2W	TO-15	
V2W2709-ICC2709	2W61016.D	08/19/22 14:34	TCH	10	GCMS2W	TO-15	
V2W2709-IC2709	2W61017.D	08/19/22 15:08	TCH	20	GCMS2W	TO-15	
V2W2709-IC2709	2W61018.D	08/19/22 15:45	TCH	40	GCMS2W	TO-15	
V2W2709-IC2709	2W61019.D	08/19/22 16:25	TCH	50	GCMS2W	TO-15	Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Propylene	1.88	3.61	0.521	ok	0.520	0.460-0.580
Styrene	12.72	10.59	1.201	ok	1.200	1.140-1.260
1,1,1-Trichloroethane	4.28	3.61	1.186	ok	1.185	1.125-1.245
1,1,1,2-Tetrachloroethane	10.69	10.59	1.009	ok	1.009	0.949-1.069
1,1,2,2-Tetrachloroethane	12.95	10.59	1.223	ok	1.221	1.161-1.281
1,1,2-Trichloroethane	7.33	4.93	1.487	ok	1.486	1.426-1.546
1,2,4-Trichlorobenzene	18.50	10.59	1.747	ok	1.747	1.687-1.807
1,2,3-Trichloropropane	13.23	10.59	1.249	ok	1.248	1.188-1.308
1,2,3-Trimethylbenzene	17.16	10.59	1.620	ok	1.620	1.560-1.680
1,2,4-Trimethylbenzene	16.78	10.59	1.585	ok	1.584	1.524-1.644
1,3,5-Trimethylbenzene	16.31	10.59	1.540	ok	1.540	1.480-1.600
2,2,4-Trimethylpentane	5.62	4.93	1.140	ok	1.139	1.079-1.199
Tertiary Butyl Alcohol	2.72	3.61	0.753	ok	0.753	0.693-0.813
Tetrachloroethylene	9.45	4.93	1.917	ok	1.917	1.857-1.977
Tetrahydrofuran	3.90	3.61	1.080	ok	1.083	1.023-1.143
Toluene	7.70	4.93	1.562	ok	1.562	1.502-1.622
Trichloroethylene	5.52	4.93	1.120	ok	1.119	1.059-1.179
Trichlorofluoromethane	2.52	3.61	0.698	ok	0.698	0.638-0.758
Vinyl chloride	2.04	3.61	0.565	ok	0.565	0.505-0.625
Vinyl Acetate	3.23	3.61	0.895	ok	0.895	0.835-0.955
m,p-Xylene	12.00	10.59	1.133	ok	1.132	1.072-1.192
o-Xylene	12.94	10.59	1.222	ok	1.220	1.160-1.280

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.61	ok	3.61	3.28-3.94	77394	ok	69048	41429-96667
1,4-Difluorobenzene	4.93	ok	4.93	4.60-5.26	400362	ok	370656	222394-518918
Chlorobenzene-D5	10.59	ok	10.59	10.26-10.92	371357	ok	336964	202178-471750

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V6W1077-IC1077	6W25316.D	08/04/22 17:54	TCH	0.04	GCMS6W	TO-15	Reporting this level
V6W1077-IC1077	6W25317.D	08/04/22 18:39	TCH	0.1	GCMS6W	TO-15	
V6W1077-IC1077	6W25318.D	08/04/22 19:25	TCH	0.2	GCMS6W	TO-15	
V6W1077-IC1077	6W25319.D	08/04/22 20:11	TCH	0.5	GCMS6W	TO-15	
V6W1077-IC1077	6W25321.D	08/04/22 21:41	TCH	5	GCMS6W	TO-15	
V6W1077-ICC1077	6W25322.D	08/04/22 22:26	TCH	10	GCMS6W	TO-15	
V6W1077-IC1077	6W25323.D	08/04/22 23:14	TCH	20	GCMS6W	TO-15	
V6W1077-IC1077	6W25324.D	08/05/22 00:05	TCH	40	GCMS6W	TO-15	
V6W1077-IC1077	6W25325.D	08/05/22 00:59	TCH	50	GCMS6W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Benzene	4.44	3.41	1.302	ok	1.301	1.241-1.361
Bromobenzene	14.38	10.60	1.357	ok	1.357	1.297-1.417
Bromodichloromethane	5.35	4.79	1.117	ok	1.117	1.057-1.177
Bromoform	11.84	10.60	1.117	ok	1.117	1.057-1.177
Bromomethane	1.97	3.41	0.578	ok	0.577	0.517-0.637
Bromoethene	2.12	3.41	0.622	ok	0.621	0.561-0.681
n-Butane	1.91	3.41	0.560	ok	0.560	0.500-0.620
Benzyl Chloride	16.88	10.60	1.592	ok	1.593	1.533-1.653
n-Butylbenzene	17.60	10.60	1.660	ok	1.659	1.599-1.719
sec-Butylbenzene	17.07	10.60	1.610	ok	1.610	1.550-1.670
tert-Butylbenzene	16.80	10.60	1.585	ok	1.584	1.524-1.644
Carbon disulfide	2.59	3.41	0.760	ok	0.759	0.699-0.819
Chlorobenzene	10.69	10.60	1.008	ok	1.008	0.948-1.068
Chloroethane	2.02	3.41	0.592	ok	0.592	0.532-0.652
Chloroform	3.50	3.41	1.026	ok	1.025	0.965-1.085
3-Chloropropene	2.54	3.41	0.745	ok	0.742	0.682-0.802
Carbon tetrachloride	4.56	3.41	1.337	ok	1.337	1.277-1.397
Cyclohexane	4.66	4.79	0.973	ok	0.974	0.914-1.034
1,1-Dichloroethane	2.93	3.41	0.859	ok	0.858	0.798-0.918
1,1-Dichloroethylene	2.45	3.41	0.718	ok	0.717	0.657-0.777
1,2-Dibromoethane (EDB)	8.56	4.79	1.787	ok	1.789	1.729-1.849
1,2-Dichloroethane	3.94	3.41	1.155	ok	1.154	1.094-1.214
1,3-Dichloropropane	7.70	4.79	1.608	ok	1.611	1.551-1.671
Dichlorofluoromethane	2.05	3.41	0.601	ok	0.601	0.541-0.661
Dibromochloromethane	8.22	4.79	1.716	ok	1.715	1.655-1.775
Dibromomethane	5.12	4.79	1.069	ok	1.068	1.008-1.128
trans-1,2-Dichloroethylene	2.84	3.41	0.833	ok	0.834	0.774-0.894
cis-1,3-Dichloropropene	6.39	4.79	1.334	ok	1.335	1.275-1.395
m-Dichlorobenzene	16.87	10.60	1.592	ok	1.591	1.531-1.651
o-Dichlorobenzene	17.24	10.60	1.626	ok	1.626	1.566-1.686
p-Dichlorobenzene	16.95	10.60	1.599	ok	1.598	1.538-1.658
trans-1,3-Dichloropropene	7.10	4.79	1.482	ok	1.484	1.424-1.544
2,4-Dimethylpentane	4.02	3.41	1.179	ok	1.178	1.118-1.238
Ethylbenzene	11.59	10.60	1.093	ok	1.093	1.033-1.153
Ethyl Acrylate	5.30	4.79	1.106	ok	1.104	1.044-1.164
4-Ethyltoluene	16.20	10.60	1.528	ok	1.528	1.468-1.588
Freon 113	2.59	3.41	0.760	ok	0.759	0.699-0.819
Freon 114	1.83	3.41	0.537	ok	0.536	0.476-0.596
Freon 123	2.16	3.41	0.633	ok	0.633	0.573-0.693

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V6W1077-IC1077	6W25316.D	08/04/22 17:54	TCH	0.04	GCMS6W	TO-15	Reporting this level
V6W1077-IC1077	6W25317.D	08/04/22 18:39	TCH	0.1	GCMS6W	TO-15	
V6W1077-IC1077	6W25318.D	08/04/22 19:25	TCH	0.2	GCMS6W	TO-15	
V6W1077-IC1077	6W25319.D	08/04/22 20:11	TCH	0.5	GCMS6W	TO-15	
V6W1077-IC1077	6W25321.D	08/04/22 21:41	TCH	5	GCMS6W	TO-15	
V6W1077-ICC1077	6W25322.D	08/04/22 22:26	TCH	10	GCMS6W	TO-15	
V6W1077-IC1077	6W25323.D	08/04/22 23:14	TCH	20	GCMS6W	TO-15	
V6W1077-IC1077	6W25324.D	08/05/22 00:05	TCH	40	GCMS6W	TO-15	
V6W1077-IC1077	6W25325.D	08/05/22 00:59	TCH	50	GCMS6W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Freon 123A	2.18	3.41	0.639	ok	0.639	0.579-0.699
Freon 142B	1.80	3.41	0.528	ok	0.526	0.466-0.586
Heptane	5.83	4.79	1.217	ok	1.218	1.158-1.278
Hexachlorobutadiene	18.81	10.60	1.775	ok	1.774	1.714-1.834
Hexachloroethane	17.77	10.60	1.676	ok	1.676	1.616-1.736
Hexane	3.47	3.41	1.018	ok	1.017	0.957-1.077
Iodomethane	2.42	3.41	0.710	ok	0.709	0.649-0.769
Isopropylbenzene	14.51	10.60	1.369	ok	1.369	1.309-1.429
p-Isopropyltoluene	17.25	10.60	1.627	ok	1.627	1.567-1.687
Methyl Tert Butyl Ether	2.97	3.41	0.871	ok	0.870	0.810-0.930
Naphthalene	18.56	10.60	1.751	ok	1.750	1.690-1.810
Octane	9.58	4.79	2.000	ok	2.002	1.942-2.062
Pentane	2.35	3.41	0.689	ok	0.691	0.631-0.751
Styrene	12.76	10.60	1.204	ok	1.203	1.143-1.263
1,1,1-Trichloroethane	4.11	3.41	1.205	ok	1.204	1.144-1.264
1,1,1,2-Tetrachloroethane	10.70	10.60	1.009	ok	1.009	0.949-1.069
1,1,2,2-Tetrachloroethane	12.98	10.60	1.225	ok	1.226	1.166-1.286
1,1,2-Trichloroethane	7.27	4.79	1.518	ok	1.519	1.459-1.579
1,2,4-Trichlorobenzene	18.51	10.60	1.746	ok	1.745	1.685-1.805
1,2,3-Trichloropropane	13.27	10.60	1.252	ok	1.253	1.193-1.313
1,2,3-Trimethylbenzene	17.19	10.60	1.622	ok	1.621	1.561-1.681
1,2,4-Trimethylbenzene	16.80	10.60	1.585	ok	1.585	1.525-1.645
1,3,5-Trimethylbenzene	16.35	10.60	1.542	ok	1.542	1.482-1.602
2,2,4-Trimethylpentane	5.50	4.79	1.148	ok	1.148	1.088-1.208
Tertiary Butyl Alcohol	2.47	3.41	0.724	ok	0.722	0.662-0.782
Tetrachloroethylene	9.46	4.79	1.975	ok	1.972	1.912-2.032
Toluene	7.66	4.79	1.599	ok	1.598	1.538-1.658
Trichloroethylene	5.40	4.79	1.127	ok	1.129	1.069-1.189
Trichlorofluoromethane	2.25	3.41	0.660	ok	0.658	0.598-0.718
Vinyl chloride	1.86	3.41	0.545	ok	0.545	0.485-0.605
m,p-Xylene	11.99	10.60	1.131	ok	1.133	1.073-1.193
o-Xylene	12.97	10.60	1.224	ok	1.224	1.164-1.284

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.41	ok	3.41	3.08-3.74	46617	ok	48021	28813-67229
1,4-Difluorobenzene	4.79	ok	4.79	4.46-5.12	250125	ok	247020	148212-345828
Chlorobenzene-D5	10.60	ok	10.60	10.27-10.93	220535	ok	217916	130750-305082

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V6W1077-IC1077	6W25316.D	08/04/22 17:54	TCH	0.04	GCMS6W	TO-15	
V6W1077-IC1077	6W25317.D	08/04/22 18:39	TCH	0.1	GCMS6W	TO-15	Reporting this level
V6W1077-IC1077	6W25318.D	08/04/22 19:25	TCH	0.2	GCMS6W	TO-15	
V6W1077-IC1077	6W25319.D	08/04/22 20:11	TCH	0.5	GCMS6W	TO-15	
V6W1077-IC1077	6W25321.D	08/04/22 21:41	TCH	5	GCMS6W	TO-15	
V6W1077-ICC1077	6W25322.D	08/04/22 22:26	TCH	10	GCMS6W	TO-15	
V6W1077-IC1077	6W25323.D	08/04/22 23:14	TCH	20	GCMS6W	TO-15	
V6W1077-IC1077	6W25324.D	08/05/22 00:05	TCH	40	GCMS6W	TO-15	
V6W1077-IC1077	6W25325.D	08/05/22 00:59	TCH	50	GCMS6W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acrolein	2.15	3.41	0.630	ok	0.630	0.570-0.690
Acrylonitrile	2.33	3.41	0.683	ok	0.683	0.623-0.743
Acetonitrile	2.12	3.41	0.622	ok	0.619	0.559-0.679
Benzene	4.44	3.41	1.302	ok	1.301	1.241-1.361
Bromobenzene	14.38	10.60	1.357	ok	1.357	1.297-1.417
Bromodichloromethane	5.35	4.79	1.117	ok	1.117	1.057-1.177
Bromoform	11.84	10.60	1.117	ok	1.117	1.057-1.177
Bromomethane	1.97	3.41	0.578	ok	0.577	0.517-0.637
Bromoethene	2.12	3.41	0.622	ok	0.621	0.561-0.681
n-Butane	1.91	3.41	0.560	ok	0.560	0.500-0.620
Benzyl Chloride	16.89	10.60	1.593	ok	1.593	1.533-1.653
n-Butylbenzene	17.60	10.60	1.660	ok	1.659	1.599-1.719
sec-Butylbenzene	17.08	10.60	1.611	ok	1.610	1.550-1.670
tert-Butylbenzene	16.79	10.60	1.584	ok	1.584	1.524-1.644
Carbon disulfide	2.59	3.41	0.760	ok	0.759	0.699-0.819
Chlorobenzene	10.68	10.60	1.008	ok	1.008	0.948-1.068
Chlorodifluoromethane	1.73	3.41	0.507	ok	0.507	0.447-0.567
Chloroethane	2.02	3.41	0.592	ok	0.592	0.532-0.652
Chlorotrifluoroethene	1.74	3.41	0.510	ok	0.510	0.450-0.570
Chloroform	3.49	3.41	1.023	ok	1.025	0.965-1.085
3-Chloropropene	2.53	3.41	0.742	ok	0.742	0.682-0.802
2-Chlorotoluene	15.54	10.60	1.466	ok	1.465	1.405-1.525
Carbon tetrachloride	4.56	3.41	1.337	ok	1.337	1.277-1.397
Cyclohexane	4.66	4.79	0.973	ok	0.974	0.914-1.034
1,1-Dichloroethane	2.93	3.41	0.859	ok	0.858	0.798-0.918
1,1-Dichloroethylene	2.44	3.41	0.716	ok	0.717	0.657-0.777
1,2-Dibromoethane (EDB)	8.57	4.79	1.789	ok	1.789	1.729-1.849
1,2-Dichloroethane	3.94	3.41	1.155	ok	1.154	1.094-1.214
1,2-Dichloropropane	5.15	4.79	1.075	ok	1.077	1.017-1.137
1,3-Dichloropropane	7.72	4.79	1.612	ok	1.611	1.551-1.671
1,4-Dioxane	5.49	4.79	1.146	ok	1.136	1.076-1.196
Dichlorodifluoromethane	1.76	3.41	0.516	ok	0.516	0.456-0.576
Dichlorofluoromethane	2.05	3.41	0.601	ok	0.601	0.541-0.661
Dibromochloromethane	8.21	4.79	1.714	ok	1.715	1.655-1.775
Dibromomethane	5.11	4.79	1.067	ok	1.068	1.008-1.128
trans-1,2-Dichloroethylene	2.84	3.41	0.833	ok	0.834	0.774-0.894
cis-1,2-Dichloroethylene	3.33	3.41	0.977	ok	0.976	0.916-1.036
cis-1,3-Dichloropropene	6.39	4.79	1.334	ok	1.335	1.275-1.395
m-Dichlorobenzene	16.87	10.60	1.592	ok	1.591	1.531-1.651

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V6W1077-IC1077	6W25316.D	08/04/22 17:54	TCH	0.04	GCMS6W	TO-15	
V6W1077-IC1077	6W25317.D	08/04/22 18:39	TCH	0.1	GCMS6W	TO-15	Reporting this level
V6W1077-IC1077	6W25318.D	08/04/22 19:25	TCH	0.2	GCMS6W	TO-15	
V6W1077-IC1077	6W25319.D	08/04/22 20:11	TCH	0.5	GCMS6W	TO-15	
V6W1077-IC1077	6W25321.D	08/04/22 21:41	TCH	5	GCMS6W	TO-15	
V6W1077-ICC1077	6W25322.D	08/04/22 22:26	TCH	10	GCMS6W	TO-15	
V6W1077-IC1077	6W25323.D	08/04/22 23:14	TCH	20	GCMS6W	TO-15	
V6W1077-IC1077	6W25324.D	08/05/22 00:05	TCH	40	GCMS6W	TO-15	
V6W1077-IC1077	6W25325.D	08/05/22 00:59	TCH	50	GCMS6W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
o-Dichlorobenzene	17.24	10.60	1.626	ok	1.626	1.566-1.686
p-Dichlorobenzene	16.95	10.60	1.599	ok	1.598	1.538-1.658
trans-1,3-Dichloropropene	7.10	4.79	1.482	ok	1.484	1.424-1.544
Di-Isopropyl ether	3.48	3.41	1.021	ok	1.018	0.958-1.078
2,3-Dimethylpentane	4.94	4.79	1.031	ok	1.031	0.971-1.091
2,4-Dimethylpentane	4.02	3.41	1.179	ok	1.178	1.118-1.238
Ethylbenzene	11.60	10.60	1.094	ok	1.093	1.033-1.153
Ethyl Acetate	3.48	3.41	1.021	ok	1.020	0.960-1.080
Ethyl Acrylate	5.29	4.79	1.104	ok	1.104	1.044-1.164
4-Ethyltoluene	16.21	10.60	1.529	ok	1.528	1.468-1.588
Freon 113	2.59	3.41	0.760	ok	0.759	0.699-0.819
Freon 114	1.83	3.41	0.537	ok	0.536	0.476-0.596
Freon 123	2.16	3.41	0.633	ok	0.633	0.573-0.693
Freon 123A	2.18	3.41	0.639	ok	0.639	0.579-0.699
Freon 142B	1.79	3.41	0.525	ok	0.526	0.466-0.586
Freon 152A	1.72	3.41	0.504	ok	0.504	0.444-0.564
Heptane	5.83	4.79	1.217	ok	1.218	1.158-1.278
Hexachlorobutadiene	18.81	10.60	1.775	ok	1.774	1.714-1.834
Hexachloroethane	17.78	10.60	1.677	ok	1.676	1.616-1.736
Hexane	3.47	3.41	1.018	ok	1.017	0.957-1.077
Iodomethane	2.42	3.41	0.710	ok	0.709	0.649-0.769
Isopropylbenzene	14.51	10.60	1.369	ok	1.369	1.309-1.429
p-Isopropyltoluene	17.25	10.60	1.627	ok	1.627	1.567-1.687
Methyl ethyl ketone	3.12	3.41	0.915	ok	0.914	0.854-0.974
Methyl Isobutyl Ketone	6.52	4.79	1.361	ok	1.359	1.299-1.419
Methyl Tert Butyl Ether	2.97	3.41	0.871	ok	0.870	0.810-0.930
Methylmethacrylate	5.73	4.79	1.196	ok	1.196	1.136-1.256
Naphthalene	18.56	10.60	1.751	ok	1.750	1.690-1.810
Nonane	14.09	10.60	1.329	ok	1.330	1.270-1.390
Octane	9.59	4.79	2.002	ok	2.002	1.942-2.062
n-Propylbenzene	15.87	10.60	1.497	ok	1.497	1.437-1.557
Propylene	1.74	3.41	0.510	ok	0.510	0.450-0.570
Styrene	12.75	10.60	1.203	ok	1.203	1.143-1.263
1,1,1-Trichloroethane	4.10	3.41	1.202	ok	1.204	1.144-1.264
1,1,1,2-Tetrachloroethane	10.69	10.60	1.008	ok	1.009	0.949-1.069
1,1,2,2-Tetrachloroethane	13.00	10.60	1.226	ok	1.226	1.166-1.286
1,1,2-Trichloroethane	7.28	4.79	1.520	ok	1.519	1.459-1.579
1,2,4-Trichlorobenzene	18.50	10.60	1.745	ok	1.745	1.685-1.805
1,2,3-Trichloropropane	13.29	10.60	1.254	ok	1.253	1.193-1.313

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V6W1077-IC1077	6W25316.D	08/04/22 17:54	TCH	0.04	GCMS6W	TO-15	
V6W1077-IC1077	6W25317.D	08/04/22 18:39	TCH	0.1	GCMS6W	TO-15	Reporting this level
V6W1077-IC1077	6W25318.D	08/04/22 19:25	TCH	0.2	GCMS6W	TO-15	
V6W1077-IC1077	6W25319.D	08/04/22 20:11	TCH	0.5	GCMS6W	TO-15	
V6W1077-IC1077	6W25321.D	08/04/22 21:41	TCH	5	GCMS6W	TO-15	
V6W1077-ICC1077	6W25322.D	08/04/22 22:26	TCH	10	GCMS6W	TO-15	
V6W1077-IC1077	6W25323.D	08/04/22 23:14	TCH	20	GCMS6W	TO-15	
V6W1077-IC1077	6W25324.D	08/05/22 00:05	TCH	40	GCMS6W	TO-15	
V6W1077-IC1077	6W25325.D	08/05/22 00:59	TCH	50	GCMS6W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
1,2,3-Trimethylbenzene	17.19	10.60	1.622	ok	1.621	1.561-1.681
1,2,4-Trimethylbenzene	16.81	10.60	1.586	ok	1.585	1.525-1.645
1,3,5-Trimethylbenzene	16.35	10.60	1.542	ok	1.542	1.482-1.602
2,2,4-Trimethylpentane	5.50	4.79	1.148	ok	1.148	1.088-1.208
Tertiary Butyl Alcohol	2.47	3.41	0.724	ok	0.722	0.662-0.782
Tetrachloroethylene	9.45	4.79	1.973	ok	1.972	1.912-2.032
Tetrahydrofuran	3.75	3.41	1.100	ok	1.093	1.033-1.153
Toluene	7.65	4.79	1.597	ok	1.598	1.538-1.658
Trichloroethylene	5.40	4.79	1.127	ok	1.129	1.069-1.189
Trichlorofluoromethane	2.24	3.41	0.657	ok	0.658	0.598-0.718
Vinyl chloride	1.86	3.41	0.545	ok	0.545	0.485-0.605
m,p-Xylene	11.98	10.60	1.130	ok	1.133	1.073-1.193
o-Xylene	12.97	10.60	1.224	ok	1.224	1.164-1.284

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.41	ok	3.41	3.08-3.74	45139	ok	48021	28813-67229
1,4-Difluorobenzene	4.79	ok	4.79	4.46-5.12	243010	ok	247020	148212-345828
Chlorobenzene-D5	10.60	ok	10.60	10.27-10.93	215313	ok	217916	130750-305082

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V6W1077-IC1077	6W25316.D	08/04/22 17:54	TCH	0.04	GCMS6W	TO-15	
V6W1077-IC1077	6W25317.D	08/04/22 18:39	TCH	0.1	GCMS6W	TO-15	
V6W1077-IC1077	6W25318.D	08/04/22 19:25	TCH	0.2	GCMS6W	TO-15	Reporting this level
V6W1077-IC1077	6W25319.D	08/04/22 20:11	TCH	0.5	GCMS6W	TO-15	
V6W1077-IC1077	6W25321.D	08/04/22 21:41	TCH	5	GCMS6W	TO-15	
V6W1077-ICC1077	6W25322.D	08/04/22 22:26	TCH	10	GCMS6W	TO-15	
V6W1077-IC1077	6W25323.D	08/04/22 23:14	TCH	20	GCMS6W	TO-15	
V6W1077-IC1077	6W25324.D	08/05/22 00:05	TCH	40	GCMS6W	TO-15	
V6W1077-IC1077	6W25325.D	08/05/22 00:59	TCH	50	GCMS6W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+/- .06)
Acetone (2-Propanone)	2.19	3.41	0.642	ok	0.642	0.582-0.702
Acrolein	2.15	3.41	0.630	ok	0.630	0.570-0.690
Acrylonitrile	2.33	3.41	0.683	ok	0.683	0.623-0.743
Acetonitrile	2.11	3.41	0.619	ok	0.619	0.559-0.679
1,3-Butadiene	1.90	3.41	0.557	ok	0.556	0.496-0.616
Benzene	4.44	3.41	1.302	ok	1.301	1.241-1.361
Bromobenzene	14.38	10.60	1.357	ok	1.357	1.297-1.417
Bromodichloromethane	5.34	4.79	1.115	ok	1.117	1.057-1.177
Bromoform	11.84	10.60	1.117	ok	1.117	1.057-1.177
Bromomethane	1.97	3.41	0.578	ok	0.577	0.517-0.637
Bromoethene	2.12	3.41	0.622	ok	0.621	0.561-0.681
n-Butane	1.91	3.41	0.560	ok	0.560	0.500-0.620
Benzyl Chloride	16.89	10.60	1.593	ok	1.593	1.533-1.653
n-Butylbenzene	17.60	10.60	1.660	ok	1.659	1.599-1.719
sec-Butylbenzene	17.08	10.60	1.611	ok	1.610	1.550-1.670
tert-Butylbenzene	16.80	10.60	1.585	ok	1.584	1.524-1.644
Carbon disulfide	2.59	3.41	0.760	ok	0.759	0.699-0.819
Chlorobenzene	10.68	10.60	1.008	ok	1.008	0.948-1.068
Chlorodifluoromethane	1.73	3.41	0.507	ok	0.507	0.447-0.567
Chloroethane	2.02	3.41	0.592	ok	0.592	0.532-0.652
Chlorotrifluoroethene	1.74	3.41	0.510	ok	0.510	0.450-0.570
Chloroform	3.49	3.41	1.023	ok	1.025	0.965-1.085
Chloromethane	1.80	3.41	0.528	ok	0.527	0.467-0.587
3-Chloropropene	2.53	3.41	0.742	ok	0.742	0.682-0.802
2-Chlorotoluene	15.54	10.60	1.466	ok	1.465	1.405-1.525
Carbon tetrachloride	4.56	3.41	1.337	ok	1.337	1.277-1.397
Cyclohexane	4.67	4.79	0.975	ok	0.974	0.914-1.034
1,1-Dichloroethane	2.93	3.41	0.859	ok	0.858	0.798-0.918
1,1-Dichloroethylene	2.45	3.41	0.718	ok	0.717	0.657-0.777
1,2-Dibromoethane (EDB)	8.57	4.79	1.789	ok	1.789	1.729-1.849
1,2-Dichloroethane	3.94	3.41	1.155	ok	1.154	1.094-1.214
1,2-Dichloropropane	5.15	4.79	1.075	ok	1.077	1.017-1.137
1,3-Dichloropropane	7.71	4.79	1.610	ok	1.611	1.551-1.671
1,4-Dioxane	5.48	4.79	1.144	ok	1.136	1.076-1.196
Dichlorodifluoromethane	1.76	3.41	0.516	ok	0.516	0.456-0.576
Dichlorofluoromethane	2.05	3.41	0.601	ok	0.601	0.541-0.661
Dibromochloromethane	8.21	4.79	1.714	ok	1.715	1.655-1.775
Dibromomethane	5.11	4.79	1.067	ok	1.068	1.008-1.128
trans-1,2-Dichloroethylene	2.85	3.41	0.836	ok	0.834	0.774-0.894

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V6W1077-IC1077	6W25316.D	08/04/22 17:54	TCH	0.04	GCMS6W	TO-15	
V6W1077-IC1077	6W25317.D	08/04/22 18:39	TCH	0.1	GCMS6W	TO-15	
V6W1077-IC1077	6W25318.D	08/04/22 19:25	TCH	0.2	GCMS6W	TO-15	Reporting this level
V6W1077-IC1077	6W25319.D	08/04/22 20:11	TCH	0.5	GCMS6W	TO-15	
V6W1077-IC1077	6W25321.D	08/04/22 21:41	TCH	5	GCMS6W	TO-15	
V6W1077-ICC1077	6W25322.D	08/04/22 22:26	TCH	10	GCMS6W	TO-15	
V6W1077-IC1077	6W25323.D	08/04/22 23:14	TCH	20	GCMS6W	TO-15	
V6W1077-IC1077	6W25324.D	08/05/22 00:05	TCH	40	GCMS6W	TO-15	
V6W1077-IC1077	6W25325.D	08/05/22 00:59	TCH	50	GCMS6W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
cis-1,2-Dichloroethylene	3.33	3.41	0.977	ok	0.976	0.916-1.036
cis-1,3-Dichloropropene	6.39	4.79	1.334	ok	1.335	1.275-1.395
m-Dichlorobenzene	16.87	10.60	1.592	ok	1.591	1.531-1.651
o-Dichlorobenzene	17.24	10.60	1.626	ok	1.626	1.566-1.686
p-Dichlorobenzene	16.95	10.60	1.599	ok	1.598	1.538-1.658
trans-1,3-Dichloropropene	7.11	4.79	1.484	ok	1.484	1.424-1.544
Di-Isopropyl ether	3.48	3.41	1.021	ok	1.018	0.958-1.078
2,3-Dimethylpentane	4.94	4.79	1.031	ok	1.031	0.971-1.091
2,4-Dimethylpentane	4.02	3.41	1.179	ok	1.178	1.118-1.238
Ethylbenzene	11.59	10.60	1.093	ok	1.093	1.033-1.153
Ethyl Acetate	3.49	3.41	1.023	ok	1.020	0.960-1.080
Ethyl Acrylate	5.29	4.79	1.104	ok	1.104	1.044-1.164
4-Ethyltoluene	16.20	10.60	1.528	ok	1.528	1.468-1.588
Freon 113	2.59	3.41	0.760	ok	0.759	0.699-0.819
Freon 114	1.83	3.41	0.537	ok	0.536	0.476-0.596
Freon 123	2.16	3.41	0.633	ok	0.633	0.573-0.693
Freon 123A	2.18	3.41	0.639	ok	0.639	0.579-0.699
Freon 142B	1.79	3.41	0.525	ok	0.526	0.466-0.586
Freon 152A	1.72	3.41	0.504	ok	0.504	0.444-0.564
Heptane	5.83	4.79	1.217	ok	1.218	1.158-1.278
Hexachlorobutadiene	18.81	10.60	1.775	ok	1.774	1.714-1.834
Hexachloroethane	17.77	10.60	1.676	ok	1.676	1.616-1.736
Hexane	3.47	3.41	1.018	ok	1.017	0.957-1.077
2-Hexanone	8.26	4.79	1.724	ok	1.722	1.662-1.782
Iodomethane	2.42	3.41	0.710	ok	0.709	0.649-0.769
Isopropylbenzene	14.51	10.60	1.369	ok	1.369	1.309-1.429
Isopropyl Alcohol	2.27	3.41	0.666	ok	0.663	0.603-0.723
p-Isopropyltoluene	17.25	10.60	1.627	ok	1.627	1.567-1.687
Methylene chloride	2.49	3.41	0.730	ok	0.729	0.669-0.789
Methyl ethyl ketone	3.12	3.41	0.915	ok	0.914	0.854-0.974
Methyl Isobutyl Ketone	6.52	4.79	1.361	ok	1.359	1.299-1.419
Methyl Tert Butyl Ether	2.97	3.41	0.871	ok	0.870	0.810-0.930
Methylmethacrylate	5.73	4.79	1.196	ok	1.196	1.136-1.256
Naphthalene	18.55	10.60	1.750	ok	1.750	1.690-1.810
Nonane	14.09	10.60	1.329	ok	1.330	1.270-1.390
Octane	9.59	4.79	2.002	ok	2.002	1.942-2.062
Pentane	2.36	3.41	0.692	ok	0.691	0.631-0.751
n-Propylbenzene	15.86	10.60	1.496	ok	1.497	1.437-1.557
Propylene	1.74	3.41	0.510	ok	0.510	0.450-0.570

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V6W1077-IC1077	6W25316.D	08/04/22 17:54	TCH	0.04	GCMS6W	TO-15	
V6W1077-IC1077	6W25317.D	08/04/22 18:39	TCH	0.1	GCMS6W	TO-15	
V6W1077-IC1077	6W25318.D	08/04/22 19:25	TCH	0.2	GCMS6W	TO-15	Reporting this level
V6W1077-IC1077	6W25319.D	08/04/22 20:11	TCH	0.5	GCMS6W	TO-15	
V6W1077-IC1077	6W25321.D	08/04/22 21:41	TCH	5	GCMS6W	TO-15	
V6W1077-ICC1077	6W25322.D	08/04/22 22:26	TCH	10	GCMS6W	TO-15	
V6W1077-IC1077	6W25323.D	08/04/22 23:14	TCH	20	GCMS6W	TO-15	
V6W1077-IC1077	6W25324.D	08/05/22 00:05	TCH	40	GCMS6W	TO-15	
V6W1077-IC1077	6W25325.D	08/05/22 00:59	TCH	50	GCMS6W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Styrene	12.76	10.60	1.204	ok	1.203	1.143-1.263
1,1,1-Trichloroethane	4.11	3.41	1.205	ok	1.204	1.144-1.264
1,1,1,2-Tetrachloroethane	10.70	10.60	1.009	ok	1.009	0.949-1.069
1,1,2,2-Tetrachloroethane	13.00	10.60	1.226	ok	1.226	1.166-1.286
1,1,2-Trichloroethane	7.28	4.79	1.520	ok	1.519	1.459-1.579
1,2,4-Trichlorobenzene	18.51	10.60	1.746	ok	1.745	1.685-1.805
1,2,3-Trichloropropane	13.27	10.60	1.252	ok	1.253	1.193-1.313
1,2,3-Trimethylbenzene	17.19	10.60	1.622	ok	1.621	1.561-1.681
1,2,4-Trimethylbenzene	16.81	10.60	1.586	ok	1.585	1.525-1.645
1,3,5-Trimethylbenzene	16.35	10.60	1.542	ok	1.542	1.482-1.602
2,2,4-Trimethylpentane	5.50	4.79	1.148	ok	1.148	1.088-1.208
Tertiary Butyl Alcohol	2.47	3.41	0.724	ok	0.722	0.662-0.782
Tetrachloroethylene	9.44	4.79	1.971	ok	1.972	1.912-2.032
Tetrahydrofuran	3.75	3.41	1.100	ok	1.093	1.033-1.153
Toluene	7.65	4.79	1.597	ok	1.598	1.538-1.658
Trichloroethylene	5.41	4.79	1.129	ok	1.129	1.069-1.189
Trichlorofluoromethane	2.25	3.41	0.660	ok	0.658	0.598-0.718
Vinyl chloride	1.86	3.41	0.545	ok	0.545	0.485-0.605
Vinyl Acetate	3.01	3.41	0.883	ok	0.882	0.822-0.942
m,p-Xylene	12.02	10.60	1.134	ok	1.133	1.073-1.193
o-Xylene	12.97	10.60	1.224	ok	1.224	1.164-1.284

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.41	ok	3.41	3.08-3.74	46693	ok	48021	28813-67229
1,4-Difluorobenzene	4.79	ok	4.79	4.46-5.12	249711	ok	247020	148212-345828
Chlorobenzene-D5	10.60	ok	10.60	10.27-10.93	219091	ok	217916	130750-305082

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V6W1077-IC1077	6W25316.D	08/04/22 17:54	TCH	0.04	GCMS6W	TO-15	
V6W1077-IC1077	6W25317.D	08/04/22 18:39	TCH	0.1	GCMS6W	TO-15	
V6W1077-IC1077	6W25318.D	08/04/22 19:25	TCH	0.2	GCMS6W	TO-15	
V6W1077-IC1077	6W25319.D	08/04/22 20:11	TCH	0.5	GCMS6W	TO-15	Reporting this level
V6W1077-IC1077	6W25321.D	08/04/22 21:41	TCH	5	GCMS6W	TO-15	
V6W1077-ICC1077	6W25322.D	08/04/22 22:26	TCH	10	GCMS6W	TO-15	
V6W1077-IC1077	6W25323.D	08/04/22 23:14	TCH	20	GCMS6W	TO-15	
V6W1077-IC1077	6W25324.D	08/05/22 00:05	TCH	40	GCMS6W	TO-15	
V6W1077-IC1077	6W25325.D	08/05/22 00:59	TCH	50	GCMS6W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	2.20	3.42	0.643	ok	0.642	0.582-0.702
Acrolein	2.15	3.42	0.629	ok	0.630	0.570-0.690
Acrylonitrile	2.34	3.42	0.684	ok	0.683	0.623-0.743
Acetonitrile	2.12	3.42	0.620	ok	0.619	0.559-0.679
1,3-Butadiene	1.90	3.42	0.556	ok	0.556	0.496-0.616
Benzene	4.44	3.42	1.298	ok	1.301	1.241-1.361
Bromobenzene	14.39	10.61	1.356	ok	1.357	1.297-1.417
Bromodichloromethane	5.35	4.79	1.117	ok	1.117	1.057-1.177
Bromoform	11.85	10.61	1.117	ok	1.117	1.057-1.177
Bromomethane	1.98	3.42	0.579	ok	0.577	0.517-0.637
Bromoethene	2.12	3.42	0.620	ok	0.621	0.561-0.681
n-Butane	1.92	3.42	0.561	ok	0.560	0.500-0.620
Benzyl Chloride	16.89	10.61	1.592	ok	1.593	1.533-1.653
n-Butylbenzene	17.60	10.61	1.659	ok	1.659	1.599-1.719
sec-Butylbenzene	17.07	10.61	1.609	ok	1.610	1.550-1.670
tert-Butylbenzene	16.80	10.61	1.583	ok	1.584	1.524-1.644
Carbon disulfide	2.60	3.42	0.760	ok	0.759	0.699-0.819
Chlorobenzene	10.69	10.61	1.008	ok	1.008	0.948-1.068
Chlorodifluoromethane	1.73	3.42	0.506	ok	0.507	0.447-0.567
Chloroethane	2.02	3.42	0.591	ok	0.592	0.532-0.652
Chlorotrifluoroethene	1.75	3.42	0.512	ok	0.510	0.450-0.570
Chloroform	3.50	3.42	1.023	ok	1.025	0.965-1.085
Chloromethane	1.80	3.42	0.526	ok	0.527	0.467-0.587
3-Chloropropene	2.53	3.42	0.740	ok	0.742	0.682-0.802
2-Chlorotoluene	15.54	10.61	1.465	ok	1.465	1.405-1.525
Carbon tetrachloride	4.57	3.42	1.336	ok	1.337	1.277-1.397
Cyclohexane	4.66	4.79	0.973	ok	0.974	0.914-1.034
1,1-Dichloroethane	2.93	3.42	0.857	ok	0.858	0.798-0.918
1,1-Dichloroethylene	2.45	3.42	0.716	ok	0.717	0.657-0.777
1,2-Dibromoethane (EDB)	8.57	4.79	1.789	ok	1.789	1.729-1.849
1,2-Dichloroethane	3.94	3.42	1.152	ok	1.154	1.094-1.214
1,2-Dichloropropane	5.16	4.79	1.077	ok	1.077	1.017-1.137
1,3-Dichloropropane	7.71	4.79	1.610	ok	1.611	1.551-1.671
1,4-Dioxane	5.46	4.79	1.140	ok	1.136	1.076-1.196
Dichlorodifluoromethane	1.76	3.42	0.515	ok	0.516	0.456-0.576
Dichlorofluoromethane	2.05	3.42	0.599	ok	0.601	0.541-0.661
Dibromochloromethane	8.21	4.79	1.714	ok	1.715	1.655-1.775
Dibromomethane	5.12	4.79	1.069	ok	1.068	1.008-1.128
trans-1,2-Dichloroethylene	2.85	3.42	0.833	ok	0.834	0.774-0.894

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V6W1077-IC1077	6W25316.D	08/04/22 17:54	TCH	0.04	GCMS6W	TO-15	
V6W1077-IC1077	6W25317.D	08/04/22 18:39	TCH	0.1	GCMS6W	TO-15	
V6W1077-IC1077	6W25318.D	08/04/22 19:25	TCH	0.2	GCMS6W	TO-15	
V6W1077-IC1077	6W25319.D	08/04/22 20:11	TCH	0.5	GCMS6W	TO-15	Reporting this level
V6W1077-IC1077	6W25321.D	08/04/22 21:41	TCH	5	GCMS6W	TO-15	
V6W1077-ICC1077	6W25322.D	08/04/22 22:26	TCH	10	GCMS6W	TO-15	
V6W1077-IC1077	6W25323.D	08/04/22 23:14	TCH	20	GCMS6W	TO-15	
V6W1077-IC1077	6W25324.D	08/05/22 00:05	TCH	40	GCMS6W	TO-15	
V6W1077-IC1077	6W25325.D	08/05/22 00:59	TCH	50	GCMS6W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
cis-1,2-Dichloroethylene	3.34	3.42	0.977	ok	0.976	0.916-1.036
cis-1,3-Dichloropropene	6.39	4.79	1.334	ok	1.335	1.275-1.395
m-Dichlorobenzene	16.87	10.61	1.590	ok	1.591	1.531-1.651
o-Dichlorobenzene	17.24	10.61	1.625	ok	1.626	1.566-1.686
p-Dichlorobenzene	16.95	10.61	1.598	ok	1.598	1.538-1.658
trans-1,3-Dichloropropene	7.11	4.79	1.484	ok	1.484	1.424-1.544
Di-Isopropyl ether	3.48	3.42	1.018	ok	1.018	0.958-1.078
2,3-Dimethylpentane	4.93	4.79	1.029	ok	1.031	0.971-1.091
2,4-Dimethylpentane	4.03	3.42	1.178	ok	1.178	1.118-1.238
Ethanol	2.06	3.42	0.602	ok	0.601	0.541-0.661
Ethylbenzene	11.58	10.61	1.091	ok	1.093	1.033-1.153
Ethyl Acetate	3.49	3.42	1.020	ok	1.020	0.960-1.080
Ethyl Acrylate	5.29	4.79	1.104	ok	1.104	1.044-1.164
4-Ethyltoluene	16.21	10.61	1.528	ok	1.528	1.468-1.588
Freon 113	2.60	3.42	0.760	ok	0.759	0.699-0.819
Freon 114	1.83	3.42	0.535	ok	0.536	0.476-0.596
Freon 123	2.17	3.42	0.635	ok	0.633	0.573-0.693
Freon 123A	2.18	3.42	0.637	ok	0.639	0.579-0.699
Freon 142B	1.80	3.42	0.526	ok	0.526	0.466-0.586
Freon 152A	1.72	3.42	0.503	ok	0.504	0.444-0.564
Heptane	5.83	4.79	1.217	ok	1.218	1.158-1.278
Hexachlorobutadiene	18.81	10.61	1.773	ok	1.774	1.714-1.834
Hexachloroethane	17.78	10.61	1.676	ok	1.676	1.616-1.736
Hexane	3.47	3.42	1.015	ok	1.017	0.957-1.077
2-Hexanone	8.26	4.79	1.724	ok	1.722	1.662-1.782
Iodomethane	2.42	3.42	0.708	ok	0.709	0.649-0.769
Isopropylbenzene	14.51	10.61	1.368	ok	1.369	1.309-1.429
Isopropyl Alcohol	2.27	3.42	0.664	ok	0.663	0.603-0.723
p-Isopropyltoluene	17.25	10.61	1.626	ok	1.627	1.567-1.687
Methylene chloride	2.49	3.42	0.728	ok	0.729	0.669-0.789
Methyl ethyl ketone	3.13	3.42	0.915	ok	0.914	0.854-0.974
Methyl Isobutyl Ketone	6.52	4.79	1.361	ok	1.359	1.299-1.419
Methyl Tert Butyl Ether	2.97	3.42	0.868	ok	0.870	0.810-0.930
Methylmethacrylate	5.73	4.79	1.196	ok	1.196	1.136-1.256
Naphthalene	18.56	10.61	1.749	ok	1.750	1.690-1.810
Nonane	14.10	10.61	1.329	ok	1.330	1.270-1.390
Octane	9.59	4.79	2.002	ok	2.002	1.942-2.062
Pentane	2.36	3.42	0.690	ok	0.691	0.631-0.751
n-Propylbenzene	15.87	10.61	1.496	ok	1.497	1.437-1.557

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

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V6W1077-IC1077	6W25316.D	08/04/22 17:54	TCH	0.04	GCMS6W	TO-15	
V6W1077-IC1077	6W25317.D	08/04/22 18:39	TCH	0.1	GCMS6W	TO-15	
V6W1077-IC1077	6W25318.D	08/04/22 19:25	TCH	0.2	GCMS6W	TO-15	
V6W1077-IC1077	6W25319.D	08/04/22 20:11	TCH	0.5	GCMS6W	TO-15	Reporting this level
V6W1077-IC1077	6W25321.D	08/04/22 21:41	TCH	5	GCMS6W	TO-15	
V6W1077-ICC1077	6W25322.D	08/04/22 22:26	TCH	10	GCMS6W	TO-15	
V6W1077-IC1077	6W25323.D	08/04/22 23:14	TCH	20	GCMS6W	TO-15	
V6W1077-IC1077	6W25324.D	08/05/22 00:05	TCH	40	GCMS6W	TO-15	
V6W1077-IC1077	6W25325.D	08/05/22 00:59	TCH	50	GCMS6W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Propylene	1.74	3.42	0.509	ok	0.510	0.450-0.570
Styrene	12.76	10.61	1.203	ok	1.203	1.143-1.263
1,1,1-Trichloroethane	4.11	3.42	1.202	ok	1.204	1.144-1.264
1,1,1,2-Tetrachloroethane	10.70	10.61	1.008	ok	1.009	0.949-1.069
1,1,2,2-Tetrachloroethane	12.99	10.61	1.224	ok	1.226	1.166-1.286
1,1,2-Trichloroethane	7.27	4.79	1.518	ok	1.519	1.459-1.579
1,2,4-Trichlorobenzene	18.50	10.61	1.744	ok	1.745	1.685-1.805
1,2,3-Trichloropropane	13.28	10.61	1.252	ok	1.253	1.193-1.313
1,2,3-Trimethylbenzene	17.19	10.61	1.620	ok	1.621	1.561-1.681
1,2,4-Trimethylbenzene	16.81	10.61	1.584	ok	1.585	1.525-1.645
1,3,5-Trimethylbenzene	16.35	10.61	1.541	ok	1.542	1.482-1.602
2,2,4-Trimethylpentane	5.50	4.79	1.148	ok	1.148	1.088-1.208
Tertiary Butyl Alcohol	2.47	3.42	0.722	ok	0.722	0.662-0.782
Tetrachloroethylene	9.44	4.79	1.971	ok	1.972	1.912-2.032
Tetrahydrofuran	3.74	3.42	1.094	ok	1.093	1.033-1.153
Toluene	7.66	4.79	1.599	ok	1.598	1.538-1.658
Trichloroethylene	5.41	4.79	1.129	ok	1.129	1.069-1.189
Trichlorofluoromethane	2.25	3.42	0.658	ok	0.658	0.598-0.718
Vinyl chloride	1.87	3.42	0.547	ok	0.545	0.485-0.605
Vinyl Acetate	3.01	3.42	0.880	ok	0.882	0.822-0.942
m,p-Xylene	12.03	10.61	1.134	ok	1.133	1.073-1.193
o-Xylene	12.97	10.61	1.222	ok	1.224	1.164-1.284

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.42	ok	3.41	3.08-3.74	44988	ok	48021	28813-67229
1,4-Difluorobenzene	4.79	ok	4.79	4.46-5.12	244084	ok	247020	148212-345828
Chlorobenzene-D5	10.61	ok	10.60	10.27-10.93	214178	ok	217916	130750-305082

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V6W1077-IC1077	6W25316.D	08/04/22 17:54	TCH	0.04	GCMS6W	TO-15	
V6W1077-IC1077	6W25317.D	08/04/22 18:39	TCH	0.1	GCMS6W	TO-15	
V6W1077-IC1077	6W25318.D	08/04/22 19:25	TCH	0.2	GCMS6W	TO-15	
V6W1077-IC1077	6W25319.D	08/04/22 20:11	TCH	0.5	GCMS6W	TO-15	
V6W1077-IC1077	6W25321.D	08/04/22 21:41	TCH	5	GCMS6W	TO-15	Reporting this level
V6W1077-ICC1077	6W25322.D	08/04/22 22:26	TCH	10	GCMS6W	TO-15	
V6W1077-IC1077	6W25323.D	08/04/22 23:14	TCH	20	GCMS6W	TO-15	
V6W1077-IC1077	6W25324.D	08/05/22 00:05	TCH	40	GCMS6W	TO-15	
V6W1077-IC1077	6W25325.D	08/05/22 00:59	TCH	50	GCMS6W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	2.19	3.41	0.642	ok	0.642	0.582-0.702
Acrolein	2.15	3.41	0.630	ok	0.630	0.570-0.690
Acrylonitrile	2.33	3.41	0.683	ok	0.683	0.623-0.743
Acetonitrile	2.11	3.41	0.619	ok	0.619	0.559-0.679
1,3-Butadiene	1.90	3.41	0.557	ok	0.556	0.496-0.616
Benzene	4.44	3.41	1.302	ok	1.301	1.241-1.361
Bromobenzene	14.39	10.61	1.356	ok	1.357	1.297-1.417
Bromodichloromethane	5.35	4.79	1.117	ok	1.117	1.057-1.177
Bromoform	11.84	10.61	1.116	ok	1.117	1.057-1.177
Bromomethane	1.97	3.41	0.578	ok	0.577	0.517-0.637
Bromoethene	2.12	3.41	0.622	ok	0.621	0.561-0.681
n-Butane	1.91	3.41	0.560	ok	0.560	0.500-0.620
Benzyl Chloride	16.89	10.61	1.592	ok	1.593	1.533-1.653
n-Butylbenzene	17.59	10.61	1.658	ok	1.659	1.599-1.719
sec-Butylbenzene	17.08	10.61	1.610	ok	1.610	1.550-1.670
tert-Butylbenzene	16.80	10.61	1.583	ok	1.584	1.524-1.644
Carbon disulfide	2.59	3.41	0.760	ok	0.759	0.699-0.819
Chlorobenzene	10.69	10.61	1.008	ok	1.008	0.948-1.068
Chlorodifluoromethane	1.73	3.41	0.507	ok	0.507	0.447-0.567
Chloroethane	2.02	3.41	0.592	ok	0.592	0.532-0.652
Chlorotrifluoroethene	1.74	3.41	0.510	ok	0.510	0.450-0.570
Chloroform	3.50	3.41	1.026	ok	1.025	0.965-1.085
Chloromethane	1.80	3.41	0.528	ok	0.527	0.467-0.587
3-Chloropropene	2.53	3.41	0.742	ok	0.742	0.682-0.802
2-Chlorotoluene	15.53	10.61	1.464	ok	1.465	1.405-1.525
Carbon tetrachloride	4.56	3.41	1.337	ok	1.337	1.277-1.397
Cyclohexane	4.67	4.79	0.975	ok	0.974	0.914-1.034
1,1-Dichloroethane	2.93	3.41	0.859	ok	0.858	0.798-0.918
1,1-Dichloroethylene	2.45	3.41	0.718	ok	0.717	0.657-0.777
1,2-Dibromoethane (EDB)	8.57	4.79	1.789	ok	1.789	1.729-1.849
1,2-Dichloroethane	3.94	3.41	1.155	ok	1.154	1.094-1.214
1,2-Dichloropropane	5.16	4.79	1.077	ok	1.077	1.017-1.137
1,3-Dichloropropane	7.72	4.79	1.612	ok	1.611	1.551-1.671
1,4-Dioxane	5.43	4.79	1.134	ok	1.136	1.076-1.196
Dichlorodifluoromethane	1.76	3.41	0.516	ok	0.516	0.456-0.576
Dichlorofluoromethane	2.05	3.41	0.601	ok	0.601	0.541-0.661
Dibromochloromethane	8.22	4.79	1.716	ok	1.715	1.655-1.775
Dibromomethane	5.12	4.79	1.069	ok	1.068	1.008-1.128
trans-1,2-Dichloroethylene	2.85	3.41	0.836	ok	0.834	0.774-0.894

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V6W1077-IC1077	6W25316.D	08/04/22 17:54	TCH	0.04	GCMS6W	TO-15	
V6W1077-IC1077	6W25317.D	08/04/22 18:39	TCH	0.1	GCMS6W	TO-15	
V6W1077-IC1077	6W25318.D	08/04/22 19:25	TCH	0.2	GCMS6W	TO-15	
V6W1077-IC1077	6W25319.D	08/04/22 20:11	TCH	0.5	GCMS6W	TO-15	
V6W1077-IC1077	6W25321.D	08/04/22 21:41	TCH	5	GCMS6W	TO-15	Reporting this level
V6W1077-ICC1077	6W25322.D	08/04/22 22:26	TCH	10	GCMS6W	TO-15	
V6W1077-IC1077	6W25323.D	08/04/22 23:14	TCH	20	GCMS6W	TO-15	
V6W1077-IC1077	6W25324.D	08/05/22 00:05	TCH	40	GCMS6W	TO-15	
V6W1077-IC1077	6W25325.D	08/05/22 00:59	TCH	50	GCMS6W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
cis-1,2-Dichloroethylene	3.33	3.41	0.977	ok	0.976	0.916-1.036
cis-1,3-Dichloropropene	6.39	4.79	1.334	ok	1.335	1.275-1.395
m-Dichlorobenzene	16.87	10.61	1.590	ok	1.591	1.531-1.651
o-Dichlorobenzene	17.24	10.61	1.625	ok	1.626	1.566-1.686
p-Dichlorobenzene	16.95	10.61	1.598	ok	1.598	1.538-1.658
trans-1,3-Dichloropropene	7.11	4.79	1.484	ok	1.484	1.424-1.544
Di-Isopropyl ether	3.47	3.41	1.018	ok	1.018	0.958-1.078
2,3-Dimethylpentane	4.94	4.79	1.031	ok	1.031	0.971-1.091
2,4-Dimethylpentane	4.02	3.41	1.179	ok	1.178	1.118-1.238
Ethanol	2.05	3.41	0.601	ok	0.601	0.541-0.661
Ethylbenzene	11.58	10.61	1.091	ok	1.093	1.033-1.153
Ethyl Acetate	3.48	3.41	1.021	ok	1.020	0.960-1.080
Ethyl Acrylate	5.28	4.79	1.102	ok	1.104	1.044-1.164
4-Ethyltoluene	16.21	10.61	1.528	ok	1.528	1.468-1.588
Freon 113	2.59	3.41	0.760	ok	0.759	0.699-0.819
Freon 114	1.83	3.41	0.537	ok	0.536	0.476-0.596
Freon 123	2.16	3.41	0.633	ok	0.633	0.573-0.693
Freon 123A	2.18	3.41	0.639	ok	0.639	0.579-0.699
Freon 142B	1.80	3.41	0.528	ok	0.526	0.466-0.586
Freon 152A	1.72	3.41	0.504	ok	0.504	0.444-0.564
Heptane	5.83	4.79	1.217	ok	1.218	1.158-1.278
Hexachlorobutadiene	18.81	10.61	1.773	ok	1.774	1.714-1.834
Hexachloroethane	17.77	10.61	1.675	ok	1.676	1.616-1.736
Hexane	3.47	3.41	1.018	ok	1.017	0.957-1.077
2-Hexanone	8.25	4.79	1.722	ok	1.722	1.662-1.782
Iodomethane	2.42	3.41	0.710	ok	0.709	0.649-0.769
Isopropylbenzene	14.51	10.61	1.368	ok	1.369	1.309-1.429
Isopropyl Alcohol	2.26	3.41	0.663	ok	0.663	0.603-0.723
p-Isopropyltoluene	17.25	10.61	1.626	ok	1.627	1.567-1.687
Methylene chloride	2.49	3.41	0.730	ok	0.729	0.669-0.789
Methyl ethyl ketone	3.12	3.41	0.915	ok	0.914	0.854-0.974
Methyl Isobutyl Ketone	6.51	4.79	1.359	ok	1.359	1.299-1.419
Methyl Tert Butyl Ether	2.97	3.41	0.871	ok	0.870	0.810-0.930
Methylmethacrylate	5.73	4.79	1.196	ok	1.196	1.136-1.256
Naphthalene	18.55	10.61	1.748	ok	1.750	1.690-1.810
Nonane	14.10	10.61	1.329	ok	1.330	1.270-1.390
Octane	9.58	4.79	2.000	ok	2.002	1.942-2.062
Pentane	2.36	3.41	0.692	ok	0.691	0.631-0.751
n-Propylbenzene	15.87	10.61	1.496	ok	1.497	1.437-1.557

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD54338
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Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V6W1077-IC1077	6W25316.D	08/04/22 17:54	TCH	0.04	GCMS6W	TO-15	
V6W1077-IC1077	6W25317.D	08/04/22 18:39	TCH	0.1	GCMS6W	TO-15	
V6W1077-IC1077	6W25318.D	08/04/22 19:25	TCH	0.2	GCMS6W	TO-15	
V6W1077-IC1077	6W25319.D	08/04/22 20:11	TCH	0.5	GCMS6W	TO-15	
V6W1077-IC1077	6W25321.D	08/04/22 21:41	TCH	5	GCMS6W	TO-15	Reporting this level
V6W1077-ICC1077	6W25322.D	08/04/22 22:26	TCH	10	GCMS6W	TO-15	
V6W1077-IC1077	6W25323.D	08/04/22 23:14	TCH	20	GCMS6W	TO-15	
V6W1077-IC1077	6W25324.D	08/05/22 00:05	TCH	40	GCMS6W	TO-15	
V6W1077-IC1077	6W25325.D	08/05/22 00:59	TCH	50	GCMS6W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Propylene	1.74	3.41	0.510	ok	0.510	0.450-0.570
Styrene	12.76	10.61	1.203	ok	1.203	1.143-1.263
1,1,1-Trichloroethane	4.11	3.41	1.205	ok	1.204	1.144-1.264
1,1,1,2-Tetrachloroethane	10.69	10.61	1.008	ok	1.009	0.949-1.069
1,1,2,2-Tetrachloroethane	13.00	10.61	1.225	ok	1.226	1.166-1.286
1,1,2-Trichloroethane	7.27	4.79	1.518	ok	1.519	1.459-1.579
1,2,4-Trichlorobenzene	18.50	10.61	1.744	ok	1.745	1.685-1.805
1,2,3-Trichloropropane	13.29	10.61	1.253	ok	1.253	1.193-1.313
1,2,3-Trimethylbenzene	17.19	10.61	1.620	ok	1.621	1.561-1.681
1,2,4-Trimethylbenzene	16.81	10.61	1.584	ok	1.585	1.525-1.645
1,3,5-Trimethylbenzene	16.35	10.61	1.541	ok	1.542	1.482-1.602
2,2,4-Trimethylpentane	5.50	4.79	1.148	ok	1.148	1.088-1.208
Tertiary Butyl Alcohol	2.46	3.41	0.721	ok	0.722	0.662-0.782
Tetrachloroethylene	9.44	4.79	1.971	ok	1.972	1.912-2.032
Tetrahydrofuran	3.73	3.41	1.094	ok	1.093	1.033-1.153
Toluene	7.65	4.79	1.597	ok	1.598	1.538-1.658
Trichloroethylene	5.40	4.79	1.127	ok	1.129	1.069-1.189
Trichlorofluoromethane	2.25	3.41	0.660	ok	0.658	0.598-0.718
Vinyl chloride	1.86	3.41	0.545	ok	0.545	0.485-0.605
Vinyl Acetate	3.01	3.41	0.883	ok	0.882	0.822-0.942
m,p-Xylene	12.02	10.61	1.133	ok	1.133	1.073-1.193
o-Xylene	12.98	10.61	1.223	ok	1.224	1.164-1.284

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.41	ok	3.41	3.08-3.74	44624	ok	48021	28813-67229
1,4-Difluorobenzene	4.79	ok	4.79	4.46-5.12	241425	ok	247020	148212-345828
Chlorobenzene-D5	10.61	ok	10.60	10.27-10.93	213770	ok	217916	130750-305082

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V6W1077-IC1077	6W25316.D	08/04/22 17:54	TCH	0.04	GCMS6W	TO-15	
V6W1077-IC1077	6W25317.D	08/04/22 18:39	TCH	0.1	GCMS6W	TO-15	
V6W1077-IC1077	6W25318.D	08/04/22 19:25	TCH	0.2	GCMS6W	TO-15	
V6W1077-IC1077	6W25319.D	08/04/22 20:11	TCH	0.5	GCMS6W	TO-15	
V6W1077-IC1077	6W25321.D	08/04/22 21:41	TCH	5	GCMS6W	TO-15	
V6W1077-ICC1077	6W25322.D	08/04/22 22:26	TCH	10	GCMS6W	TO-15	Reporting this level
V6W1077-IC1077	6W25323.D	08/04/22 23:14	TCH	20	GCMS6W	TO-15	
V6W1077-IC1077	6W25324.D	08/05/22 00:05	TCH	40	GCMS6W	TO-15	
V6W1077-IC1077	6W25325.D	08/05/22 00:59	TCH	50	GCMS6W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	2.19	3.42	0.640	ok	0.642	0.582-0.702
Acrolein	2.15	3.42	0.629	ok	0.630	0.570-0.690
Acrylonitrile	2.33	3.42	0.681	ok	0.683	0.623-0.743
Acetonitrile	2.11	3.42	0.617	ok	0.619	0.559-0.679
1,3-Butadiene	1.90	3.42	0.556	ok	0.556	0.496-0.616
Benzene	4.44	3.42	1.298	ok	1.301	1.241-1.361
Bromobenzene	14.39	10.60	1.358	ok	1.357	1.297-1.417
Bromodichloromethane	5.35	4.79	1.117	ok	1.117	1.057-1.177
Bromoform	11.85	10.60	1.118	ok	1.117	1.057-1.177
Bromomethane	1.97	3.42	0.576	ok	0.577	0.517-0.637
Bromoethene	2.12	3.42	0.620	ok	0.621	0.561-0.681
n-Butane	1.91	3.42	0.558	ok	0.560	0.500-0.620
Benzyl Chloride	16.89	10.60	1.593	ok	1.593	1.533-1.653
n-Butylbenzene	17.59	10.60	1.659	ok	1.659	1.599-1.719
sec-Butylbenzene	17.08	10.60	1.611	ok	1.610	1.550-1.670
tert-Butylbenzene	16.80	10.60	1.585	ok	1.584	1.524-1.644
Carbon disulfide	2.59	3.42	0.757	ok	0.759	0.699-0.819
Chlorobenzene	10.69	10.60	1.008	ok	1.008	0.948-1.068
Chlorodifluoromethane	1.73	3.42	0.506	ok	0.507	0.447-0.567
Chloroethane	2.02	3.42	0.591	ok	0.592	0.532-0.652
Chlorotrifluoroethene	1.74	3.42	0.509	ok	0.510	0.450-0.570
Chloroform	3.50	3.42	1.023	ok	1.025	0.965-1.085
Chloromethane	1.80	3.42	0.526	ok	0.527	0.467-0.587
3-Chloropropene	2.53	3.42	0.740	ok	0.742	0.682-0.802
2-Chlorotoluene	15.54	10.60	1.466	ok	1.465	1.405-1.525
Carbon tetrachloride	4.57	3.42	1.336	ok	1.337	1.277-1.397
Cyclohexane	4.67	4.79	0.975	ok	0.974	0.914-1.034
1,1-Dichloroethane	2.93	3.42	0.857	ok	0.858	0.798-0.918
1,1-Dichloroethylene	2.45	3.42	0.716	ok	0.717	0.657-0.777
1,2-Dibromoethane (EDB)	8.57	4.79	1.789	ok	1.789	1.729-1.849
1,2-Dichloroethane	3.94	3.42	1.152	ok	1.154	1.094-1.214
1,2-Dichloropropane	5.16	4.79	1.077	ok	1.077	1.017-1.137
1,3-Dichloropropane	7.71	4.79	1.610	ok	1.611	1.551-1.671
1,4-Dioxane	5.42	4.79	1.132	ok	1.136	1.076-1.196
Dichlorodifluoromethane	1.76	3.42	0.515	ok	0.516	0.456-0.576
Dichlorofluoromethane	2.05	3.42	0.599	ok	0.601	0.541-0.661
Dibromochloromethane	8.22	4.79	1.716	ok	1.715	1.655-1.775
Dibromomethane	5.12	4.79	1.069	ok	1.068	1.008-1.128
trans-1,2-Dichloroethylene	2.85	3.42	0.833	ok	0.834	0.774-0.894

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V6W1077-IC1077	6W25316.D	08/04/22 17:54	TCH	0.04	GCMS6W	TO-15	
V6W1077-IC1077	6W25317.D	08/04/22 18:39	TCH	0.1	GCMS6W	TO-15	
V6W1077-IC1077	6W25318.D	08/04/22 19:25	TCH	0.2	GCMS6W	TO-15	
V6W1077-IC1077	6W25319.D	08/04/22 20:11	TCH	0.5	GCMS6W	TO-15	
V6W1077-IC1077	6W25321.D	08/04/22 21:41	TCH	5	GCMS6W	TO-15	
V6W1077-ICC1077	6W25322.D	08/04/22 22:26	TCH	10	GCMS6W	TO-15	Reporting this level
V6W1077-IC1077	6W25323.D	08/04/22 23:14	TCH	20	GCMS6W	TO-15	
V6W1077-IC1077	6W25324.D	08/05/22 00:05	TCH	40	GCMS6W	TO-15	
V6W1077-IC1077	6W25325.D	08/05/22 00:59	TCH	50	GCMS6W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
cis-1,2-Dichloroethylene	3.33	3.42	0.974	ok	0.976	0.916-1.036
cis-1,3-Dichloropropene	6.40	4.79	1.336	ok	1.335	1.275-1.395
m-Dichlorobenzene	16.87	10.60	1.592	ok	1.591	1.531-1.651
o-Dichlorobenzene	17.24	10.60	1.626	ok	1.626	1.566-1.686
p-Dichlorobenzene	16.95	10.60	1.599	ok	1.598	1.538-1.658
trans-1,3-Dichloropropene	7.10	4.79	1.482	ok	1.484	1.424-1.544
Di-Isopropyl ether	3.47	3.42	1.015	ok	1.018	0.958-1.078
2,3-Dimethylpentane	4.94	4.79	1.031	ok	1.031	0.971-1.091
2,4-Dimethylpentane	4.02	3.42	1.175	ok	1.178	1.118-1.238
Ethanol	2.05	3.42	0.599	ok	0.601	0.541-0.661
Ethylbenzene	11.59	10.60	1.093	ok	1.093	1.033-1.153
Ethyl Acetate	3.48	3.42	1.018	ok	1.020	0.960-1.080
Ethyl Acrylate	5.28	4.79	1.102	ok	1.104	1.044-1.164
4-Ethyltoluene	16.21	10.60	1.529	ok	1.528	1.468-1.588
Freon 113	2.59	3.42	0.757	ok	0.759	0.699-0.819
Freon 114	1.83	3.42	0.535	ok	0.536	0.476-0.596
Freon 123	2.16	3.42	0.632	ok	0.633	0.573-0.693
Freon 123A	2.18	3.42	0.637	ok	0.639	0.579-0.699
Freon 142B	1.80	3.42	0.526	ok	0.526	0.466-0.586
Freon 152A	1.72	3.42	0.503	ok	0.504	0.444-0.564
Heptane	5.83	4.79	1.217	ok	1.218	1.158-1.278
Hexachlorobutadiene	18.81	10.60	1.775	ok	1.774	1.714-1.834
Hexachloroethane	17.77	10.60	1.676	ok	1.676	1.616-1.736
Hexane	3.47	3.42	1.015	ok	1.017	0.957-1.077
2-Hexanone	8.24	4.79	1.720	ok	1.722	1.662-1.782
Iodomethane	2.42	3.42	0.708	ok	0.709	0.649-0.769
Isopropylbenzene	14.51	10.60	1.369	ok	1.369	1.309-1.429
Isopropyl Alcohol	2.26	3.42	0.661	ok	0.663	0.603-0.723
p-Isopropyltoluene	17.25	10.60	1.627	ok	1.627	1.567-1.687
Methylene chloride	2.49	3.42	0.728	ok	0.729	0.669-0.789
Methyl ethyl ketone	3.12	3.42	0.912	ok	0.914	0.854-0.974
Methyl Isobutyl Ketone	6.50	4.79	1.357	ok	1.359	1.299-1.419
Methyl Tert Butyl Ether	2.97	3.42	0.868	ok	0.870	0.810-0.930
Methylmethacrylate	5.73	4.79	1.196	ok	1.196	1.136-1.256
Naphthalene	18.55	10.60	1.750	ok	1.750	1.690-1.810
Nonane	14.10	10.60	1.330	ok	1.330	1.270-1.390
Octane	9.59	4.79	2.002	ok	2.002	1.942-2.062
Pentane	2.36	3.42	0.690	ok	0.691	0.631-0.751
n-Propylbenzene	15.87	10.60	1.497	ok	1.497	1.437-1.557

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V6W1077-IC1077	6W25316.D	08/04/22 17:54	TCH	0.04	GCMS6W	TO-15	
V6W1077-IC1077	6W25317.D	08/04/22 18:39	TCH	0.1	GCMS6W	TO-15	
V6W1077-IC1077	6W25318.D	08/04/22 19:25	TCH	0.2	GCMS6W	TO-15	
V6W1077-IC1077	6W25319.D	08/04/22 20:11	TCH	0.5	GCMS6W	TO-15	
V6W1077-IC1077	6W25321.D	08/04/22 21:41	TCH	5	GCMS6W	TO-15	
V6W1077-ICC1077	6W25322.D	08/04/22 22:26	TCH	10	GCMS6W	TO-15	Reporting this level
V6W1077-IC1077	6W25323.D	08/04/22 23:14	TCH	20	GCMS6W	TO-15	
V6W1077-IC1077	6W25324.D	08/05/22 00:05	TCH	40	GCMS6W	TO-15	
V6W1077-IC1077	6W25325.D	08/05/22 00:59	TCH	50	GCMS6W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Propylene	1.74	3.42	0.509	ok	0.510	0.450-0.570
Styrene	12.76	10.60	1.204	ok	1.203	1.143-1.263
1,1,1-Trichloroethane	4.11	3.42	1.202	ok	1.204	1.144-1.264
1,1,1,2-Tetrachloroethane	10.70	10.60	1.009	ok	1.009	0.949-1.069
1,1,2,2-Tetrachloroethane	13.00	10.60	1.226	ok	1.226	1.166-1.286
1,1,2-Trichloroethane	7.27	4.79	1.518	ok	1.519	1.459-1.579
1,2,4-Trichlorobenzene	18.50	10.60	1.745	ok	1.745	1.685-1.805
1,2,3-Trichloropropane	13.28	10.60	1.253	ok	1.253	1.193-1.313
1,2,3-Trimethylbenzene	17.19	10.60	1.622	ok	1.621	1.561-1.681
1,2,4-Trimethylbenzene	16.81	10.60	1.586	ok	1.585	1.525-1.645
1,3,5-Trimethylbenzene	16.35	10.60	1.542	ok	1.542	1.482-1.602
2,2,4-Trimethylpentane	5.50	4.79	1.148	ok	1.148	1.088-1.208
Tertiary Butyl Alcohol	2.46	3.42	0.719	ok	0.722	0.662-0.782
Tetrachloroethylene	9.44	4.79	1.971	ok	1.972	1.912-2.032
Tetrahydrofuran	3.73	3.42	1.091	ok	1.093	1.033-1.153
Toluene	7.65	4.79	1.597	ok	1.598	1.538-1.658
Trichloroethylene	5.41	4.79	1.129	ok	1.129	1.069-1.189
Trichlorofluoromethane	2.25	3.42	0.658	ok	0.658	0.598-0.718
Vinyl chloride	1.86	3.42	0.544	ok	0.545	0.485-0.605
Vinyl Acetate	3.01	3.42	0.880	ok	0.882	0.822-0.942
m,p-Xylene	12.03	10.60	1.135	ok	1.133	1.073-1.193
o-Xylene	12.98	10.60	1.225	ok	1.224	1.164-1.284

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.42	ok	3.41	3.08-3.74	46792	ok	48021	28813-67229
1,4-Difluorobenzene	4.79	ok	4.79	4.46-5.12	248358	ok	247020	148212-345828
Chlorobenzene-D5	10.60	ok	10.60	10.27-10.93	220143	ok	217916	130750-305082

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V6W1077-IC1077	6W25316.D	08/04/22 17:54	TCH	0.04	GCMS6W	TO-15	
V6W1077-IC1077	6W25317.D	08/04/22 18:39	TCH	0.1	GCMS6W	TO-15	
V6W1077-IC1077	6W25318.D	08/04/22 19:25	TCH	0.2	GCMS6W	TO-15	
V6W1077-IC1077	6W25319.D	08/04/22 20:11	TCH	0.5	GCMS6W	TO-15	
V6W1077-IC1077	6W25321.D	08/04/22 21:41	TCH	5	GCMS6W	TO-15	
V6W1077-ICC1077	6W25322.D	08/04/22 22:26	TCH	10	GCMS6W	TO-15	
V6W1077-IC1077	6W25323.D	08/04/22 23:14	TCH	20	GCMS6W	TO-15	Reporting this level
V6W1077-IC1077	6W25324.D	08/05/22 00:05	TCH	40	GCMS6W	TO-15	
V6W1077-IC1077	6W25325.D	08/05/22 00:59	TCH	50	GCMS6W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	2.19	3.41	0.642	ok	0.642	0.582-0.702
Acrolein	2.15	3.41	0.630	ok	0.630	0.570-0.690
Acrylonitrile	2.33	3.41	0.683	ok	0.683	0.623-0.743
Acetonitrile	2.11	3.41	0.619	ok	0.619	0.559-0.679
1,3-Butadiene	1.90	3.41	0.557	ok	0.556	0.496-0.616
Benzene	4.44	3.41	1.302	ok	1.301	1.241-1.361
Bromobenzene	14.39	10.60	1.358	ok	1.357	1.297-1.417
Bromodichloromethane	5.35	4.79	1.117	ok	1.117	1.057-1.177
Bromoform	11.85	10.60	1.118	ok	1.117	1.057-1.177
Bromomethane	1.97	3.41	0.578	ok	0.577	0.517-0.637
Bromoethene	2.12	3.41	0.622	ok	0.621	0.561-0.681
n-Butane	1.91	3.41	0.560	ok	0.560	0.500-0.620
Benzyl Chloride	16.89	10.60	1.593	ok	1.593	1.533-1.653
n-Butylbenzene	17.60	10.60	1.660	ok	1.659	1.599-1.719
sec-Butylbenzene	17.08	10.60	1.611	ok	1.610	1.550-1.670
tert-Butylbenzene	16.80	10.60	1.585	ok	1.584	1.524-1.644
Carbon disulfide	2.59	3.41	0.760	ok	0.759	0.699-0.819
Chlorobenzene	10.69	10.60	1.008	ok	1.008	0.948-1.068
Chlorodifluoromethane	1.73	3.41	0.507	ok	0.507	0.447-0.567
Chloroethane	2.02	3.41	0.592	ok	0.592	0.532-0.652
Chlorotrifluoroethene	1.74	3.41	0.510	ok	0.510	0.450-0.570
Chloroform	3.50	3.41	1.026	ok	1.025	0.965-1.085
Chloromethane	1.80	3.41	0.528	ok	0.527	0.467-0.587
3-Chloropropene	2.53	3.41	0.742	ok	0.742	0.682-0.802
2-Chlorotoluene	15.54	10.60	1.466	ok	1.465	1.405-1.525
Carbon tetrachloride	4.56	3.41	1.337	ok	1.337	1.277-1.397
Cyclohexane	4.67	4.79	0.975	ok	0.974	0.914-1.034
1,1-Dichloroethane	2.93	3.41	0.859	ok	0.858	0.798-0.918
1,1-Dichloroethylene	2.45	3.41	0.718	ok	0.717	0.657-0.777
1,2-Dibromoethane (EDB)	8.57	4.79	1.789	ok	1.789	1.729-1.849
1,2-Dichloroethane	3.94	3.41	1.155	ok	1.154	1.094-1.214
1,2-Dichloropropane	5.16	4.79	1.077	ok	1.077	1.017-1.137
1,3-Dichloropropane	7.72	4.79	1.612	ok	1.611	1.551-1.671
1,4-Dioxane	5.42	4.79	1.132	ok	1.136	1.076-1.196
Dichlorodifluoromethane	1.76	3.41	0.516	ok	0.516	0.456-0.576
Dichlorofluoromethane	2.05	3.41	0.601	ok	0.601	0.541-0.661
Dibromochloromethane	8.22	4.79	1.716	ok	1.715	1.655-1.775
Dibromomethane	5.12	4.79	1.069	ok	1.068	1.008-1.128
trans-1,2-Dichloroethylene	2.85	3.41	0.836	ok	0.834	0.774-0.894

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V6W1077-IC1077	6W25316.D	08/04/22 17:54	TCH	0.04	GCMS6W	TO-15	
V6W1077-IC1077	6W25317.D	08/04/22 18:39	TCH	0.1	GCMS6W	TO-15	
V6W1077-IC1077	6W25318.D	08/04/22 19:25	TCH	0.2	GCMS6W	TO-15	
V6W1077-IC1077	6W25319.D	08/04/22 20:11	TCH	0.5	GCMS6W	TO-15	
V6W1077-IC1077	6W25321.D	08/04/22 21:41	TCH	5	GCMS6W	TO-15	
V6W1077-ICC1077	6W25322.D	08/04/22 22:26	TCH	10	GCMS6W	TO-15	
V6W1077-IC1077	6W25323.D	08/04/22 23:14	TCH	20	GCMS6W	TO-15	Reporting this level
V6W1077-IC1077	6W25324.D	08/05/22 00:05	TCH	40	GCMS6W	TO-15	
V6W1077-IC1077	6W25325.D	08/05/22 00:59	TCH	50	GCMS6W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
cis-1,2-Dichloroethylene	3.33	3.41	0.977	ok	0.976	0.916-1.036
cis-1,3-Dichloropropene	6.40	4.79	1.336	ok	1.335	1.275-1.395
m-Dichlorobenzene	16.87	10.60	1.592	ok	1.591	1.531-1.651
o-Dichlorobenzene	17.24	10.60	1.626	ok	1.626	1.566-1.686
p-Dichlorobenzene	16.95	10.60	1.599	ok	1.598	1.538-1.658
trans-1,3-Dichloropropene	7.11	4.79	1.484	ok	1.484	1.424-1.544
Di-Isopropyl ether	3.47	3.41	1.018	ok	1.018	0.958-1.078
2,3-Dimethylpentane	4.94	4.79	1.031	ok	1.031	0.971-1.091
2,4-Dimethylpentane	4.02	3.41	1.179	ok	1.178	1.118-1.238
Ethanol	2.05	3.41	0.601	ok	0.601	0.541-0.661
Ethylbenzene	11.59	10.60	1.093	ok	1.093	1.033-1.153
Ethyl Acetate	3.48	3.41	1.021	ok	1.020	0.960-1.080
Ethyl Acrylate	5.28	4.79	1.102	ok	1.104	1.044-1.164
4-Ethyltoluene	16.21	10.60	1.529	ok	1.528	1.468-1.588
Freon 113	2.59	3.41	0.760	ok	0.759	0.699-0.819
Freon 114	1.83	3.41	0.537	ok	0.536	0.476-0.596
Freon 123	2.16	3.41	0.633	ok	0.633	0.573-0.693
Freon 123A	2.18	3.41	0.639	ok	0.639	0.579-0.699
Freon 142B	1.80	3.41	0.528	ok	0.526	0.466-0.586
Freon 152A	1.72	3.41	0.504	ok	0.504	0.444-0.564
Heptane	5.83	4.79	1.217	ok	1.218	1.158-1.278
Hexachlorobutadiene	18.81	10.60	1.775	ok	1.774	1.714-1.834
Hexachloroethane	17.78	10.60	1.677	ok	1.676	1.616-1.736
Hexane	3.47	3.41	1.018	ok	1.017	0.957-1.077
2-Hexanone	8.24	4.79	1.720	ok	1.722	1.662-1.782
Iodomethane	2.42	3.41	0.710	ok	0.709	0.649-0.769
Isopropylbenzene	14.51	10.60	1.369	ok	1.369	1.309-1.429
Isopropyl Alcohol	2.26	3.41	0.663	ok	0.663	0.603-0.723
p-Isopropyltoluene	17.25	10.60	1.627	ok	1.627	1.567-1.687
Methylene chloride	2.49	3.41	0.730	ok	0.729	0.669-0.789
Methyl ethyl ketone	3.12	3.41	0.915	ok	0.914	0.854-0.974
Methyl Isobutyl Ketone	6.50	4.79	1.357	ok	1.359	1.299-1.419
Methyl Tert Butyl Ether	2.97	3.41	0.871	ok	0.870	0.810-0.930
Methylmethacrylate	5.73	4.79	1.196	ok	1.196	1.136-1.256
Naphthalene	18.55	10.60	1.750	ok	1.750	1.690-1.810
Nonane	14.10	10.60	1.330	ok	1.330	1.270-1.390
Octane	9.59	4.79	2.002	ok	2.002	1.942-2.062
Pentane	2.36	3.41	0.692	ok	0.691	0.631-0.751
n-Propylbenzene	15.87	10.60	1.497	ok	1.497	1.437-1.557

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V6W1077-IC1077	6W25316.D	08/04/22 17:54	TCH	0.04	GCMS6W	TO-15	
V6W1077-IC1077	6W25317.D	08/04/22 18:39	TCH	0.1	GCMS6W	TO-15	
V6W1077-IC1077	6W25318.D	08/04/22 19:25	TCH	0.2	GCMS6W	TO-15	
V6W1077-IC1077	6W25319.D	08/04/22 20:11	TCH	0.5	GCMS6W	TO-15	
V6W1077-IC1077	6W25321.D	08/04/22 21:41	TCH	5	GCMS6W	TO-15	
V6W1077-ICC1077	6W25322.D	08/04/22 22:26	TCH	10	GCMS6W	TO-15	
V6W1077-IC1077	6W25323.D	08/04/22 23:14	TCH	20	GCMS6W	TO-15	Reporting this level
V6W1077-IC1077	6W25324.D	08/05/22 00:05	TCH	40	GCMS6W	TO-15	
V6W1077-IC1077	6W25325.D	08/05/22 00:59	TCH	50	GCMS6W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Propylene	1.74	3.41	0.510	ok	0.510	0.450-0.570
Styrene	12.77	10.60	1.205	ok	1.203	1.143-1.263
1,1,1-Trichloroethane	4.11	3.41	1.205	ok	1.204	1.144-1.264
1,1,1,2-Tetrachloroethane	10.70	10.60	1.009	ok	1.009	0.949-1.069
1,1,2,2-Tetrachloroethane	13.00	10.60	1.226	ok	1.226	1.166-1.286
1,1,2-Trichloroethane	7.27	4.79	1.518	ok	1.519	1.459-1.579
1,2,4-Trichlorobenzene	18.50	10.60	1.745	ok	1.745	1.685-1.805
1,2,3-Trichloropropane	13.29	10.60	1.254	ok	1.253	1.193-1.313
1,2,3-Trimethylbenzene	17.19	10.60	1.622	ok	1.621	1.561-1.681
1,2,4-Trimethylbenzene	16.81	10.60	1.586	ok	1.585	1.525-1.645
1,3,5-Trimethylbenzene	16.36	10.60	1.543	ok	1.542	1.482-1.602
2,2,4-Trimethylpentane	5.50	4.79	1.148	ok	1.148	1.088-1.208
Tertiary Butyl Alcohol	2.46	3.41	0.721	ok	0.722	0.662-0.782
Tetrachloroethylene	9.44	4.79	1.971	ok	1.972	1.912-2.032
Tetrahydrofuran	3.72	3.41	1.091	ok	1.093	1.033-1.153
Toluene	7.65	4.79	1.597	ok	1.598	1.538-1.658
Trichloroethylene	5.40	4.79	1.127	ok	1.129	1.069-1.189
Trichlorofluoromethane	2.25	3.41	0.660	ok	0.658	0.598-0.718
Vinyl chloride	1.86	3.41	0.545	ok	0.545	0.485-0.605
Vinyl Acetate	3.01	3.41	0.883	ok	0.882	0.822-0.942
m,p-Xylene	12.03	10.60	1.135	ok	1.133	1.073-1.193
o-Xylene	12.98	10.60	1.225	ok	1.224	1.164-1.284

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.41	ok	3.41	3.08-3.74	47197	ok	48021	28813-67229
1,4-Difluorobenzene	4.79	ok	4.79	4.46-5.12	247829	ok	247020	148212-345828
Chlorobenzene-D5	10.60	ok	10.60	10.27-10.93	218360	ok	217916	130750-305082

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V6W1077-IC1077	6W25316.D	08/04/22 17:54	TCH	0.04	GCMS6W	TO-15	
V6W1077-IC1077	6W25317.D	08/04/22 18:39	TCH	0.1	GCMS6W	TO-15	
V6W1077-IC1077	6W25318.D	08/04/22 19:25	TCH	0.2	GCMS6W	TO-15	
V6W1077-IC1077	6W25319.D	08/04/22 20:11	TCH	0.5	GCMS6W	TO-15	
V6W1077-IC1077	6W25321.D	08/04/22 21:41	TCH	5	GCMS6W	TO-15	
V6W1077-ICC1077	6W25322.D	08/04/22 22:26	TCH	10	GCMS6W	TO-15	
V6W1077-IC1077	6W25323.D	08/04/22 23:14	TCH	20	GCMS6W	TO-15	
V6W1077-IC1077	6W25324.D	08/05/22 00:05	TCH	40	GCMS6W	TO-15	Reporting this level
V6W1077-IC1077	6W25325.D	08/05/22 00:59	TCH	50	GCMS6W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	2.19	3.42	0.640	ok	0.642	0.582-0.702
Acrolein	2.15	3.42	0.629	ok	0.630	0.570-0.690
Acrylonitrile	2.33	3.42	0.681	ok	0.683	0.623-0.743
Acetonitrile	2.11	3.42	0.617	ok	0.619	0.559-0.679
1,3-Butadiene	1.90	3.42	0.556	ok	0.556	0.496-0.616
Benzene	4.45	3.42	1.301	ok	1.301	1.241-1.361
Bromobenzene	14.40	10.61	1.357	ok	1.357	1.297-1.417
Bromodichloromethane	5.36	4.79	1.119	ok	1.117	1.057-1.177
Bromoform	11.85	10.61	1.117	ok	1.117	1.057-1.177
Bromomethane	1.97	3.42	0.576	ok	0.577	0.517-0.637
Bromoethene	2.12	3.42	0.620	ok	0.621	0.561-0.681
n-Butane	1.91	3.42	0.558	ok	0.560	0.500-0.620
Benzyl Chloride	16.90	10.61	1.593	ok	1.593	1.533-1.653
n-Butylbenzene	17.60	10.61	1.659	ok	1.659	1.599-1.719
sec-Butylbenzene	17.08	10.61	1.610	ok	1.610	1.550-1.670
tert-Butylbenzene	16.81	10.61	1.584	ok	1.584	1.524-1.644
Carbon disulfide	2.59	3.42	0.757	ok	0.759	0.699-0.819
Chlorobenzene	10.69	10.61	1.008	ok	1.008	0.948-1.068
Chlorodifluoromethane	1.73	3.42	0.506	ok	0.507	0.447-0.567
Chloroethane	2.02	3.42	0.591	ok	0.592	0.532-0.652
Chlorotrifluoroethene	1.74	3.42	0.509	ok	0.510	0.450-0.570
Chloroform	3.50	3.42	1.023	ok	1.025	0.965-1.085
Chloromethane	1.80	3.42	0.526	ok	0.527	0.467-0.587
3-Chloropropene	2.53	3.42	0.740	ok	0.742	0.682-0.802
2-Chlorotoluene	15.54	10.61	1.465	ok	1.465	1.405-1.525
Carbon tetrachloride	4.57	3.42	1.336	ok	1.337	1.277-1.397
Cyclohexane	4.67	4.79	0.975	ok	0.974	0.914-1.034
1,1-Dichloroethane	2.93	3.42	0.857	ok	0.858	0.798-0.918
1,1-Dichloroethylene	2.45	3.42	0.716	ok	0.717	0.657-0.777
1,2-Dibromoethane (EDB)	8.58	4.79	1.791	ok	1.789	1.729-1.849
1,2-Dichloroethane	3.94	3.42	1.152	ok	1.154	1.094-1.214
1,2-Dichloropropane	5.16	4.79	1.077	ok	1.077	1.017-1.137
1,3-Dichloropropane	7.72	4.79	1.612	ok	1.611	1.551-1.671
1,4-Dioxane	5.42	4.79	1.132	ok	1.136	1.076-1.196
Dichlorodifluoromethane	1.76	3.42	0.515	ok	0.516	0.456-0.576
Dichlorofluoromethane	2.05	3.42	0.599	ok	0.601	0.541-0.661
Dibromochloromethane	8.22	4.79	1.716	ok	1.715	1.655-1.775
Dibromomethane	5.12	4.79	1.069	ok	1.068	1.008-1.128
trans-1,2-Dichloroethylene	2.85	3.42	0.833	ok	0.834	0.774-0.894

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V6W1077-IC1077	6W25316.D	08/04/22 17:54	TCH	0.04	GCMS6W	TO-15	
V6W1077-IC1077	6W25317.D	08/04/22 18:39	TCH	0.1	GCMS6W	TO-15	
V6W1077-IC1077	6W25318.D	08/04/22 19:25	TCH	0.2	GCMS6W	TO-15	
V6W1077-IC1077	6W25319.D	08/04/22 20:11	TCH	0.5	GCMS6W	TO-15	
V6W1077-IC1077	6W25321.D	08/04/22 21:41	TCH	5	GCMS6W	TO-15	
V6W1077-ICC1077	6W25322.D	08/04/22 22:26	TCH	10	GCMS6W	TO-15	
V6W1077-IC1077	6W25323.D	08/04/22 23:14	TCH	20	GCMS6W	TO-15	
V6W1077-IC1077	6W25324.D	08/05/22 00:05	TCH	40	GCMS6W	TO-15	Reporting this level
V6W1077-IC1077	6W25325.D	08/05/22 00:59	TCH	50	GCMS6W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
cis-1,2-Dichloroethylene	3.33	3.42	0.974	ok	0.976	0.916-1.036
cis-1,3-Dichloropropene	6.40	4.79	1.336	ok	1.335	1.275-1.395
m-Dichlorobenzene	16.87	10.61	1.590	ok	1.591	1.531-1.651
o-Dichlorobenzene	17.24	10.61	1.625	ok	1.626	1.566-1.686
p-Dichlorobenzene	16.95	10.61	1.598	ok	1.598	1.538-1.658
trans-1,3-Dichloropropene	7.11	4.79	1.484	ok	1.484	1.424-1.544
Di-Isopropyl ether	3.48	3.42	1.018	ok	1.018	0.958-1.078
2,3-Dimethylpentane	4.94	4.79	1.031	ok	1.031	0.971-1.091
2,4-Dimethylpentane	4.02	3.42	1.175	ok	1.178	1.118-1.238
Ethanol	2.05	3.42	0.599	ok	0.601	0.541-0.661
Ethylbenzene	11.60	10.61	1.093	ok	1.093	1.033-1.153
Ethyl Acetate	3.48	3.42	1.018	ok	1.020	0.960-1.080
Ethyl Acrylate	5.29	4.79	1.104	ok	1.104	1.044-1.164
4-Ethyltoluene	16.21	10.61	1.528	ok	1.528	1.468-1.588
Freon 113	2.59	3.42	0.757	ok	0.759	0.699-0.819
Freon 114	1.83	3.42	0.535	ok	0.536	0.476-0.596
Freon 123	2.17	3.42	0.635	ok	0.633	0.573-0.693
Freon 123A	2.18	3.42	0.637	ok	0.639	0.579-0.699
Freon 142B	1.80	3.42	0.526	ok	0.526	0.466-0.586
Freon 152A	1.72	3.42	0.503	ok	0.504	0.444-0.564
Heptane	5.84	4.79	1.219	ok	1.218	1.158-1.278
Hexachlorobutadiene	18.81	10.61	1.773	ok	1.774	1.714-1.834
Hexachloroethane	17.78	10.61	1.676	ok	1.676	1.616-1.736
Hexane	3.47	3.42	1.015	ok	1.017	0.957-1.077
2-Hexanone	8.25	4.79	1.722	ok	1.722	1.662-1.782
Iodomethane	2.42	3.42	0.708	ok	0.709	0.649-0.769
Isopropylbenzene	14.52	10.61	1.369	ok	1.369	1.309-1.429
Isopropyl Alcohol	2.26	3.42	0.661	ok	0.663	0.603-0.723
p-Isopropyltoluene	17.26	10.61	1.627	ok	1.627	1.567-1.687
Methylene chloride	2.49	3.42	0.728	ok	0.729	0.669-0.789
Methyl ethyl ketone	3.12	3.42	0.912	ok	0.914	0.854-0.974
Methyl Isobutyl Ketone	6.51	4.79	1.359	ok	1.359	1.299-1.419
Methyl Tert Butyl Ether	2.97	3.42	0.868	ok	0.870	0.810-0.930
Methylmethacrylate	5.73	4.79	1.196	ok	1.196	1.136-1.256
Naphthalene	18.56	10.61	1.749	ok	1.750	1.690-1.810
Nonane	14.11	10.61	1.330	ok	1.330	1.270-1.390
Octane	9.59	4.79	2.002	ok	2.002	1.942-2.062
Pentane	2.36	3.42	0.690	ok	0.691	0.631-0.751
n-Propylbenzene	15.88	10.61	1.497	ok	1.497	1.437-1.557

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V6W1077-IC1077	6W25316.D	08/04/22 17:54	TCH	0.04	GCMS6W	TO-15	
V6W1077-IC1077	6W25317.D	08/04/22 18:39	TCH	0.1	GCMS6W	TO-15	
V6W1077-IC1077	6W25318.D	08/04/22 19:25	TCH	0.2	GCMS6W	TO-15	
V6W1077-IC1077	6W25319.D	08/04/22 20:11	TCH	0.5	GCMS6W	TO-15	
V6W1077-IC1077	6W25321.D	08/04/22 21:41	TCH	5	GCMS6W	TO-15	
V6W1077-ICC1077	6W25322.D	08/04/22 22:26	TCH	10	GCMS6W	TO-15	
V6W1077-IC1077	6W25323.D	08/04/22 23:14	TCH	20	GCMS6W	TO-15	
V6W1077-IC1077	6W25324.D	08/05/22 00:05	TCH	40	GCMS6W	TO-15	Reporting this level
V6W1077-IC1077	6W25325.D	08/05/22 00:59	TCH	50	GCMS6W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Propylene	1.74	3.42	0.509	ok	0.510	0.450-0.570
Styrene	12.77	10.61	1.204	ok	1.203	1.143-1.263
1,1,1-Trichloroethane	4.11	3.42	1.202	ok	1.204	1.144-1.264
1,1,1,2-Tetrachloroethane	10.71	10.61	1.009	ok	1.009	0.949-1.069
1,1,2,2-Tetrachloroethane	13.01	10.61	1.226	ok	1.226	1.166-1.286
1,1,2-Trichloroethane	7.28	4.79	1.520	ok	1.519	1.459-1.579
1,2,4-Trichlorobenzene	18.51	10.61	1.745	ok	1.745	1.685-1.805
1,2,3-Trichloropropane	13.30	10.61	1.254	ok	1.253	1.193-1.313
1,2,3-Trimethylbenzene	17.19	10.61	1.620	ok	1.621	1.561-1.681
1,2,4-Trimethylbenzene	16.82	10.61	1.585	ok	1.585	1.525-1.645
1,3,5-Trimethylbenzene	16.36	10.61	1.542	ok	1.542	1.482-1.602
2,2,4-Trimethylpentane	5.50	4.79	1.148	ok	1.148	1.088-1.208
Tertiary Butyl Alcohol	2.46	3.42	0.719	ok	0.722	0.662-0.782
Tetrachloroethylene	9.45	4.79	1.973	ok	1.972	1.912-2.032
Tetrahydrofuran	3.72	3.42	1.088	ok	1.093	1.033-1.153
Toluene	7.66	4.79	1.599	ok	1.598	1.538-1.658
Trichloroethylene	5.41	4.79	1.129	ok	1.129	1.069-1.189
Trichlorofluoromethane	2.24	3.42	0.655	ok	0.658	0.598-0.718
Vinyl chloride	1.86	3.42	0.544	ok	0.545	0.485-0.605
Vinyl Acetate	3.01	3.42	0.880	ok	0.882	0.822-0.942
m,p-Xylene	12.04	10.61	1.135	ok	1.133	1.073-1.193
o-Xylene	12.99	10.61	1.224	ok	1.224	1.164-1.284

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.42	ok	3.41	3.08-3.74	51457	ok	48021	28813-67229
1,4-Difluorobenzene	4.79	ok	4.79	4.46-5.12	252022	ok	247020	148212-345828
Chlorobenzene-D5	10.61	ok	10.60	10.27-10.93	222394	ok	217916	130750-305082

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V6W1077-IC1077	6W25316.D	08/04/22 17:54	TCH	0.04	GCMS6W	TO-15	
V6W1077-IC1077	6W25317.D	08/04/22 18:39	TCH	0.1	GCMS6W	TO-15	
V6W1077-IC1077	6W25318.D	08/04/22 19:25	TCH	0.2	GCMS6W	TO-15	
V6W1077-IC1077	6W25319.D	08/04/22 20:11	TCH	0.5	GCMS6W	TO-15	
V6W1077-IC1077	6W25321.D	08/04/22 21:41	TCH	5	GCMS6W	TO-15	
V6W1077-ICC1077	6W25322.D	08/04/22 22:26	TCH	10	GCMS6W	TO-15	
V6W1077-IC1077	6W25323.D	08/04/22 23:14	TCH	20	GCMS6W	TO-15	
V6W1077-IC1077	6W25324.D	08/05/22 00:05	TCH	40	GCMS6W	TO-15	
V6W1077-IC1077	6W25325.D	08/05/22 00:59	TCH	50	GCMS6W	TO-15	Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	2.19	3.41	0.642	ok	0.642	0.582-0.702
Acrolein	2.15	3.41	0.630	ok	0.630	0.570-0.690
Acrylonitrile	2.33	3.41	0.683	ok	0.683	0.623-0.743
Acetonitrile	2.11	3.41	0.619	ok	0.619	0.559-0.679
1,3-Butadiene	1.90	3.41	0.557	ok	0.556	0.496-0.616
Benzene	4.44	3.41	1.302	ok	1.301	1.241-1.361
Bromobenzene	14.40	10.61	1.357	ok	1.357	1.297-1.417
Bromodichloromethane	5.36	4.79	1.119	ok	1.117	1.057-1.177
Bromoform	11.86	10.61	1.118	ok	1.117	1.057-1.177
Bromomethane	1.97	3.41	0.578	ok	0.577	0.517-0.637
Bromoethene	2.12	3.41	0.622	ok	0.621	0.561-0.681
n-Butane	1.91	3.41	0.560	ok	0.560	0.500-0.620
Benzyl Chloride	16.90	10.61	1.593	ok	1.593	1.533-1.653
n-Butylbenzene	17.60	10.61	1.659	ok	1.659	1.599-1.719
sec-Butylbenzene	17.08	10.61	1.610	ok	1.610	1.550-1.670
tert-Butylbenzene	16.81	10.61	1.584	ok	1.584	1.524-1.644
Carbon disulfide	2.59	3.41	0.760	ok	0.759	0.699-0.819
Chlorobenzene	10.70	10.61	1.008	ok	1.008	0.948-1.068
Chlorodifluoromethane	1.73	3.41	0.507	ok	0.507	0.447-0.567
Chloroethane	2.02	3.41	0.592	ok	0.592	0.532-0.652
Chlorotrifluoroethene	1.74	3.41	0.510	ok	0.510	0.450-0.570
Chloroform	3.50	3.41	1.026	ok	1.025	0.965-1.085
Chloromethane	1.80	3.41	0.528	ok	0.527	0.467-0.587
3-Chloropropene	2.53	3.41	0.742	ok	0.742	0.682-0.802
2-Chlorotoluene	15.55	10.61	1.466	ok	1.465	1.405-1.525
Carbon tetrachloride	4.56	3.41	1.337	ok	1.337	1.277-1.397
Cyclohexane	4.67	4.79	0.975	ok	0.974	0.914-1.034
1,1-Dichloroethane	2.93	3.41	0.859	ok	0.858	0.798-0.918
1,1-Dichloroethylene	2.45	3.41	0.718	ok	0.717	0.657-0.777
1,2-Dibromoethane (EDB)	8.58	4.79	1.791	ok	1.789	1.729-1.849
1,2-Dichloroethane	3.94	3.41	1.155	ok	1.154	1.094-1.214
1,2-Dichloropropane	5.16	4.79	1.077	ok	1.077	1.017-1.137
1,3-Dichloropropane	7.72	4.79	1.612	ok	1.611	1.551-1.671
1,4-Dioxane	5.42	4.79	1.132	ok	1.136	1.076-1.196
Dichlorodifluoromethane	1.76	3.41	0.516	ok	0.516	0.456-0.576
Dichlorofluoromethane	2.05	3.41	0.601	ok	0.601	0.541-0.661
Dibromochloromethane	8.22	4.79	1.716	ok	1.715	1.655-1.775
Dibromomethane	5.12	4.79	1.069	ok	1.068	1.008-1.128
trans-1,2-Dichloroethylene	2.85	3.41	0.836	ok	0.834	0.774-0.894

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V6W1077-IC1077	6W25316.D	08/04/22 17:54	TCH	0.04	GCMS6W	TO-15	
V6W1077-IC1077	6W25317.D	08/04/22 18:39	TCH	0.1	GCMS6W	TO-15	
V6W1077-IC1077	6W25318.D	08/04/22 19:25	TCH	0.2	GCMS6W	TO-15	
V6W1077-IC1077	6W25319.D	08/04/22 20:11	TCH	0.5	GCMS6W	TO-15	
V6W1077-IC1077	6W25321.D	08/04/22 21:41	TCH	5	GCMS6W	TO-15	
V6W1077-ICC1077	6W25322.D	08/04/22 22:26	TCH	10	GCMS6W	TO-15	
V6W1077-IC1077	6W25323.D	08/04/22 23:14	TCH	20	GCMS6W	TO-15	
V6W1077-IC1077	6W25324.D	08/05/22 00:05	TCH	40	GCMS6W	TO-15	
V6W1077-IC1077	6W25325.D	08/05/22 00:59	TCH	50	GCMS6W	TO-15	Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
cis-1,2-Dichloroethylene	3.33	3.41	0.977	ok	0.976	0.916-1.036
cis-1,3-Dichloropropene	6.40	4.79	1.336	ok	1.335	1.275-1.395
m-Dichlorobenzene	16.88	10.61	1.591	ok	1.591	1.531-1.651
o-Dichlorobenzene	17.25	10.61	1.626	ok	1.626	1.566-1.686
p-Dichlorobenzene	16.96	10.61	1.598	ok	1.598	1.538-1.658
trans-1,3-Dichloropropene	7.11	4.79	1.484	ok	1.484	1.424-1.544
Di-Isopropyl ether	3.48	3.41	1.021	ok	1.018	0.958-1.078
2,3-Dimethylpentane	4.94	4.79	1.031	ok	1.031	0.971-1.091
2,4-Dimethylpentane	4.02	3.41	1.179	ok	1.178	1.118-1.238
Ethanol	2.05	3.41	0.601	ok	0.601	0.541-0.661
Ethylbenzene	11.60	10.61	1.093	ok	1.093	1.033-1.153
Ethyl Acetate	3.48	3.41	1.021	ok	1.020	0.960-1.080
Ethyl Acrylate	5.29	4.79	1.104	ok	1.104	1.044-1.164
4-Ethyltoluene	16.22	10.61	1.529	ok	1.528	1.468-1.588
Freon 113	2.59	3.41	0.760	ok	0.759	0.699-0.819
Freon 114	1.83	3.41	0.537	ok	0.536	0.476-0.596
Freon 123	2.16	3.41	0.633	ok	0.633	0.573-0.693
Freon 123A	2.18	3.41	0.639	ok	0.639	0.579-0.699
Freon 142B	1.79	3.41	0.525	ok	0.526	0.466-0.586
Freon 152A	1.72	3.41	0.504	ok	0.504	0.444-0.564
Heptane	5.84	4.79	1.219	ok	1.218	1.158-1.278
Hexachlorobutadiene	18.81	10.61	1.773	ok	1.774	1.714-1.834
Hexachloroethane	17.78	10.61	1.676	ok	1.676	1.616-1.736
Hexane	3.47	3.41	1.018	ok	1.017	0.957-1.077
2-Hexanone	8.25	4.79	1.722	ok	1.722	1.662-1.782
Iodomethane	2.42	3.41	0.710	ok	0.709	0.649-0.769
Isopropylbenzene	14.53	10.61	1.369	ok	1.369	1.309-1.429
Isopropyl Alcohol	2.26	3.41	0.663	ok	0.663	0.603-0.723
p-Isopropyltoluene	17.26	10.61	1.627	ok	1.627	1.567-1.687
Methylene chloride	2.49	3.41	0.730	ok	0.729	0.669-0.789
Methyl ethyl ketone	3.11	3.41	0.912	ok	0.914	0.854-0.974
Methyl Isobutyl Ketone	6.51	4.79	1.359	ok	1.359	1.299-1.419
Methyl Tert Butyl Ether	2.97	3.41	0.871	ok	0.870	0.810-0.930
Methylmethacrylate	5.73	4.79	1.196	ok	1.196	1.136-1.256
Naphthalene	18.56	10.61	1.749	ok	1.750	1.690-1.810
Nonane	14.12	10.61	1.331	ok	1.330	1.270-1.390
Octane	9.59	4.79	2.002	ok	2.002	1.942-2.062
Pentane	2.36	3.41	0.692	ok	0.691	0.631-0.751
n-Propylbenzene	15.88	10.61	1.497	ok	1.497	1.437-1.557

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V6W1077-IC1077	6W25316.D	08/04/22 17:54	TCH	0.04	GCMS6W	TO-15	
V6W1077-IC1077	6W25317.D	08/04/22 18:39	TCH	0.1	GCMS6W	TO-15	
V6W1077-IC1077	6W25318.D	08/04/22 19:25	TCH	0.2	GCMS6W	TO-15	
V6W1077-IC1077	6W25319.D	08/04/22 20:11	TCH	0.5	GCMS6W	TO-15	
V6W1077-IC1077	6W25321.D	08/04/22 21:41	TCH	5	GCMS6W	TO-15	
V6W1077-ICC1077	6W25322.D	08/04/22 22:26	TCH	10	GCMS6W	TO-15	
V6W1077-IC1077	6W25323.D	08/04/22 23:14	TCH	20	GCMS6W	TO-15	
V6W1077-IC1077	6W25324.D	08/05/22 00:05	TCH	40	GCMS6W	TO-15	
V6W1077-IC1077	6W25325.D	08/05/22 00:59	TCH	50	GCMS6W	TO-15	Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Propylene	1.74	3.41	0.510	ok	0.510	0.450-0.570
Styrene	12.77	10.61	1.204	ok	1.203	1.143-1.263
1,1,1-Trichloroethane	4.11	3.41	1.205	ok	1.204	1.144-1.264
1,1,1,2-Tetrachloroethane	10.71	10.61	1.009	ok	1.009	0.949-1.069
1,1,2,2-Tetrachloroethane	13.01	10.61	1.226	ok	1.226	1.166-1.286
1,1,2-Trichloroethane	7.28	4.79	1.520	ok	1.519	1.459-1.579
1,2,4-Trichlorobenzene	18.51	10.61	1.745	ok	1.745	1.685-1.805
1,2,3-Trichloropropane	13.30	10.61	1.254	ok	1.253	1.193-1.313
1,2,3-Trimethylbenzene	17.20	10.61	1.621	ok	1.621	1.561-1.681
1,2,4-Trimethylbenzene	16.82	10.61	1.585	ok	1.585	1.525-1.645
1,3,5-Trimethylbenzene	16.36	10.61	1.542	ok	1.542	1.482-1.602
2,2,4-Trimethylpentane	5.50	4.79	1.148	ok	1.148	1.088-1.208
Tertiary Butyl Alcohol	2.46	3.41	0.721	ok	0.722	0.662-0.782
Tetrachloroethylene	9.45	4.79	1.973	ok	1.972	1.912-2.032
Tetrahydrofuran	3.72	3.41	1.091	ok	1.093	1.033-1.153
Toluene	7.66	4.79	1.599	ok	1.598	1.538-1.658
Trichloroethylene	5.41	4.79	1.129	ok	1.129	1.069-1.189
Trichlorofluoromethane	2.24	3.41	0.657	ok	0.658	0.598-0.718
Vinyl chloride	1.86	3.41	0.545	ok	0.545	0.485-0.605
Vinyl Acetate	3.01	3.41	0.883	ok	0.882	0.822-0.942
m,p-Xylene	12.04	10.61	1.135	ok	1.133	1.073-1.193
o-Xylene	12.99	10.61	1.224	ok	1.224	1.164-1.284

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.41	ok	3.41	3.08-3.74	58685	ok	48021	28813-67229
1,4-Difluorobenzene	4.79	ok	4.79	4.46-5.12	246613	ok	247020	148212-345828
Chlorobenzene-D5	10.61	ok	10.60	10.27-10.93	217461	ok	217916	130750-305082

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V6W1125-IC1125	6W26448.D	10/19/22 19:10	TCH	0.04	GCMS6W	TO-15	Reporting this level
V6W1125-IC1125	6W26449.D	10/19/22 19:43	TCH	0.1	GCMS6W	TO-15	
V6W1125-IC1125	6W26450.D	10/19/22 20:15	TCH	0.2	GCMS6W	TO-15	
V6W1125-IC1125	6W26451.D	10/19/22 20:47	TCH	0.5	GCMS6W	TO-15	
V6W1125-IC1125	6W26453.D	10/19/22 21:52	TCH	5	GCMS6W	TO-15	
V6W1125-ICC1125	6W26454.D	10/19/22 22:25	TCH	10	GCMS6W	TO-15	
V6W1125-IC1125	6W26455.D	10/19/22 22:57	TCH	20	GCMS6W	TO-15	
V6W1125-IC1125	6W26456.D	10/19/22 23:29	TCH	40	GCMS6W	TO-15	
V6W1125-IC1125	6W26457.D	10/20/22 00:03	TCH	50	GCMS6W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Benzene	4.39	3.34	1.314	ok	1.312	1.252-1.372
Bromobenzene	14.37	10.59	1.357	ok	1.358	1.298-1.418
Bromodichloromethane	5.29	4.73	1.118	ok	1.119	1.059-1.179
n-Butane	1.88	3.34	0.563	ok	0.563	0.503-0.623
n-Butylbenzene	17.59	10.59	1.661	ok	1.661	1.601-1.721
sec-Butylbenzene	17.07	10.59	1.612	ok	1.613	1.553-1.673
tert-Butylbenzene	16.80	10.59	1.586	ok	1.587	1.527-1.647
Carbon disulfide	2.52	3.34	0.754	ok	0.754	0.694-0.814
Chlorobenzene	10.67	10.59	1.008	ok	1.008	0.948-1.068
Chloroform	3.42	3.34	1.024	ok	1.024	0.964-1.084
Chloromethane	1.78	3.34	0.533	ok	0.531	0.471-0.591
2-Chlorotoluene	15.52	10.59	1.466	ok	1.466	1.406-1.526
Carbon tetrachloride	4.50	3.34	1.347	ok	1.348	1.288-1.408
1,1-Dichloroethane	2.86	3.34	0.856	ok	0.854	0.794-0.914
Dichlorodifluoromethane	1.73	3.34	0.518	ok	0.518	0.458-0.578
Dichlorofluoromethane	2.00	3.34	0.599	ok	0.599	0.539-0.659
Dibromochloromethane	8.18	4.73	1.729	ok	1.729	1.669-1.789
m-Dichlorobenzene	16.86	10.59	1.592	ok	1.593	1.533-1.653
o-Dichlorobenzene	17.24	10.59	1.628	ok	1.628	1.568-1.688
p-Dichlorobenzene	16.94	10.59	1.600	ok	1.601	1.541-1.661
2,4-Dimethylpentane	3.96	3.34	1.186	ok	1.186	1.126-1.246
Ethylbenzene	11.57	10.59	1.093	ok	1.093	1.033-1.153
4-Ethyltoluene	16.20	10.59	1.530	ok	1.531	1.471-1.591
Freon 114	1.80	3.34	0.539	ok	0.539	0.479-0.599
Freon 123	2.12	3.34	0.635	ok	0.634	0.574-0.694
Freon 142B	1.77	3.34	0.530	ok	0.530	0.470-0.590
Heptane	5.78	4.73	1.222	ok	1.222	1.162-1.282
Hexachloroethane	17.77	10.59	1.678	ok	1.678	1.618-1.738
Iodomethane	2.36	3.34	0.707	ok	0.706	0.646-0.766
Isopropylbenzene	14.50	10.59	1.369	ok	1.370	1.310-1.430
Isopropyl Alcohol	2.22	3.34	0.665	ok	0.662	0.602-0.722
p-Isopropyltoluene	17.25	10.59	1.629	ok	1.629	1.569-1.689
Nonane	14.08	10.59	1.330	ok	1.331	1.271-1.391
Octane	9.56	4.73	2.021	ok	2.020	1.960-2.080
n-Propylbenzene	15.85	10.59	1.497	ok	1.498	1.438-1.558
Styrene	12.74	10.59	1.203	ok	1.204	1.144-1.264
1,1,2,2-Tetrachloroethane	12.98	10.59	1.226	ok	1.227	1.167-1.287
1,2,3-Trimethylbenzene	17.18	10.59	1.622	ok	1.623	1.563-1.683
1,2,4-Trimethylbenzene	16.80	10.59	1.586	ok	1.587	1.527-1.647

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V6W1125-IC1125	6W26448.D	10/19/22 19:10	TCH	0.04	GCMS6W	TO-15	Reporting this level
V6W1125-IC1125	6W26449.D	10/19/22 19:43	TCH	0.1	GCMS6W	TO-15	
V6W1125-IC1125	6W26450.D	10/19/22 20:15	TCH	0.2	GCMS6W	TO-15	
V6W1125-IC1125	6W26451.D	10/19/22 20:47	TCH	0.5	GCMS6W	TO-15	
V6W1125-IC1125	6W26453.D	10/19/22 21:52	TCH	5	GCMS6W	TO-15	
V6W1125-ICC1125	6W26454.D	10/19/22 22:25	TCH	10	GCMS6W	TO-15	
V6W1125-IC1125	6W26455.D	10/19/22 22:57	TCH	20	GCMS6W	TO-15	
V6W1125-IC1125	6W26456.D	10/19/22 23:29	TCH	40	GCMS6W	TO-15	
V6W1125-IC1125	6W26457.D	10/20/22 00:03	TCH	50	GCMS6W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
1,3,5-Trimethylbenzene	16.35	10.59	1.544	ok	1.545	1.485-1.605
2,2,4-Trimethylpentane	5.45	4.73	1.152	ok	1.151	1.091-1.211
Tetrachloroethylene	9.42	4.73	1.992	ok	1.989	1.929-2.049
Toluene	7.61	4.73	1.609	ok	1.609	1.549-1.669
Trichloroethylene	5.34	4.73	1.129	ok	1.130	1.070-1.190
Trichlorofluoromethane	2.19	3.34	0.656	ok	0.656	0.596-0.716
Vinyl chloride	1.83	3.34	0.548	ok	0.548	0.488-0.608
m,p-Xylene	12.02	10.59	1.135	ok	1.135	1.075-1.195
o-Xylene	12.96	10.59	1.224	ok	1.224	1.164-1.284

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.34	ok	3.34	3.01-3.67	49562	ok	48058	28835-67281
1,4-Difluorobenzene	4.73	ok	4.73	4.40-5.06	238408	ok	240724	144434-337014
Chlorobenzene-D5	10.59	ok	10.59	10.26-10.92	206644	ok	213567	128140-298994

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V6W1125-IC1125	6W26448.D	10/19/22 19:10	TCH	0.04	GCMS6W	TO-15	
V6W1125-IC1125	6W26449.D	10/19/22 19:43	TCH	0.1	GCMS6W	TO-15	Reporting this level
V6W1125-IC1125	6W26450.D	10/19/22 20:15	TCH	0.2	GCMS6W	TO-15	
V6W1125-IC1125	6W26451.D	10/19/22 20:47	TCH	0.5	GCMS6W	TO-15	
V6W1125-IC1125	6W26453.D	10/19/22 21:52	TCH	5	GCMS6W	TO-15	
V6W1125-ICC1125	6W26454.D	10/19/22 22:25	TCH	10	GCMS6W	TO-15	
V6W1125-IC1125	6W26455.D	10/19/22 22:57	TCH	20	GCMS6W	TO-15	
V6W1125-IC1125	6W26456.D	10/19/22 23:29	TCH	40	GCMS6W	TO-15	
V6W1125-IC1125	6W26457.D	10/20/22 00:03	TCH	50	GCMS6W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acrylonitrile	2.27	3.34	0.680	ok	0.680	0.620-0.740
Acetonitrile	2.07	3.34	0.620	ok	0.618	0.558-0.678
1,3-Butadiene	1.87	3.34	0.560	ok	0.559	0.499-0.619
Benzene	4.38	3.34	1.311	ok	1.312	1.252-1.372
Bromobenzene	14.38	10.58	1.359	ok	1.358	1.298-1.418
Bromodichloromethane	5.29	4.73	1.118	ok	1.119	1.059-1.179
Bromoform	11.82	10.58	1.117	ok	1.117	1.057-1.177
Bromomethane	1.94	3.34	0.581	ok	0.579	0.519-0.639
Bromoethene	2.08	3.34	0.623	ok	0.620	0.560-0.680
n-Butane	1.88	3.34	0.563	ok	0.563	0.503-0.623
Benzyl Chloride	16.89	10.58	1.596	ok	1.595	1.535-1.655
n-Butylbenzene	17.58	10.58	1.662	ok	1.661	1.601-1.721
sec-Butylbenzene	17.07	10.58	1.613	ok	1.613	1.553-1.673
tert-Butylbenzene	16.79	10.58	1.587	ok	1.587	1.527-1.647
Carbon disulfide	2.52	3.34	0.754	ok	0.754	0.694-0.814
Chlorobenzene	10.66	10.58	1.008	ok	1.008	0.948-1.068
Chloroethane	1.98	3.34	0.593	ok	0.593	0.533-0.653
Chlorotrifluoroethene	1.72	3.34	0.515	ok	0.513	0.453-0.573
Chloroform	3.42	3.34	1.024	ok	1.024	0.964-1.084
Chloromethane	1.78	3.34	0.533	ok	0.531	0.471-0.591
2-Chlorotoluene	15.52	10.58	1.467	ok	1.466	1.406-1.526
Carbon tetrachloride	4.50	3.34	1.347	ok	1.348	1.288-1.408
Cyclohexane	4.61	4.73	0.975	ok	0.973	0.913-1.033
1,1-Dichloroethane	2.86	3.34	0.856	ok	0.854	0.794-0.914
1,1-Dichloroethylene	2.39	3.34	0.716	ok	0.713	0.653-0.773
1,2-Dibromoethane (EDB)	8.52	4.73	1.801	ok	1.803	1.743-1.863
1,2-Dichloroethane	3.87	3.34	1.159	ok	1.158	1.098-1.218
1,2-Dichloropropane	5.10	4.73	1.078	ok	1.078	1.018-1.138
1,3-Dichloropropane	7.68	4.73	1.624	ok	1.623	1.563-1.683
Dichlorodifluoromethane	1.73	3.34	0.518	ok	0.518	0.458-0.578
Dichlorofluoromethane	2.00	3.34	0.599	ok	0.599	0.539-0.659
Dibromochloromethane	8.19	4.73	1.732	ok	1.729	1.669-1.789
Dibromomethane	5.06	4.73	1.070	ok	1.068	1.008-1.128
trans-1,2-Dichloroethylene	2.77	3.34	0.829	ok	0.829	0.769-0.889
cis-1,2-Dichloroethylene	3.25	3.34	0.973	ok	0.973	0.913-1.033
cis-1,3-Dichloropropene	6.35	4.73	1.342	ok	1.341	1.281-1.401
m-Dichlorobenzene	16.86	10.58	1.594	ok	1.593	1.533-1.653
o-Dichlorobenzene	17.23	10.58	1.629	ok	1.628	1.568-1.688
p-Dichlorobenzene	16.95	10.58	1.602	ok	1.601	1.541-1.661

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V6W1125-IC1125	6W26448.D	10/19/22 19:10	TCH	0.04	GCMS6W	TO-15	
V6W1125-IC1125	6W26449.D	10/19/22 19:43	TCH	0.1	GCMS6W	TO-15	Reporting this level
V6W1125-IC1125	6W26450.D	10/19/22 20:15	TCH	0.2	GCMS6W	TO-15	
V6W1125-IC1125	6W26451.D	10/19/22 20:47	TCH	0.5	GCMS6W	TO-15	
V6W1125-IC1125	6W26453.D	10/19/22 21:52	TCH	5	GCMS6W	TO-15	
V6W1125-ICC1125	6W26454.D	10/19/22 22:25	TCH	10	GCMS6W	TO-15	
V6W1125-IC1125	6W26455.D	10/19/22 22:57	TCH	20	GCMS6W	TO-15	
V6W1125-IC1125	6W26456.D	10/19/22 23:29	TCH	40	GCMS6W	TO-15	
V6W1125-IC1125	6W26457.D	10/20/22 00:03	TCH	50	GCMS6W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
trans-1,3-Dichloropropene	7.06	4.73	1.493	ok	1.492	1.432-1.552
2,4-Dimethylpentane	3.96	3.34	1.186	ok	1.186	1.126-1.246
Ethylbenzene	11.56	10.58	1.093	ok	1.093	1.033-1.153
Ethyl Acrylate	5.24	4.73	1.108	ok	1.106	1.046-1.166
4-Ethyltoluene	16.20	10.58	1.531	ok	1.531	1.471-1.591
Freon 113	2.52	3.34	0.754	ok	0.754	0.694-0.814
Freon 114	1.80	3.34	0.539	ok	0.539	0.479-0.599
Freon 123	2.12	3.34	0.635	ok	0.634	0.574-0.694
Freon 123A	2.14	3.34	0.641	ok	0.638	0.578-0.698
Freon 142B	1.77	3.34	0.530	ok	0.530	0.470-0.590
Heptane	5.79	4.73	1.224	ok	1.222	1.162-1.282
Hexachlorobutadiene	18.79	10.58	1.776	ok	1.774	1.714-1.834
Hexachloroethane	17.76	10.58	1.679	ok	1.678	1.618-1.738
Hexane	3.40	3.34	1.018	ok	1.016	0.956-1.076
Iodomethane	2.36	3.34	0.707	ok	0.706	0.646-0.766
Isopropylbenzene	14.50	10.58	1.371	ok	1.370	1.310-1.430
Isopropyl Alcohol	2.22	3.34	0.665	ok	0.662	0.602-0.722
p-Isopropyltoluene	17.24	10.58	1.629	ok	1.629	1.569-1.689
Methyl Isobutyl Ketone	6.48	4.73	1.370	ok	1.367	1.307-1.427
Methyl Tert Butyl Ether	2.89	3.34	0.865	ok	0.865	0.805-0.925
Methylmethacrylate	5.69	4.73	1.203	ok	1.201	1.141-1.261
Nonane	14.08	10.58	1.331	ok	1.331	1.271-1.391
Octane	9.56	4.73	2.021	ok	2.020	1.960-2.080
Pentane	2.30	3.34	0.689	ok	0.689	0.629-0.749
n-Propylbenzene	15.86	10.58	1.499	ok	1.498	1.438-1.558
Propylene	1.71	3.34	0.512	ok	0.512	0.452-0.572
Styrene	12.75	10.58	1.205	ok	1.204	1.144-1.264
1,1,1-Trichloroethane	4.05	3.34	1.213	ok	1.212	1.152-1.272
1,1,1,2-Tetrachloroethane	10.68	10.58	1.009	ok	1.009	0.949-1.069
1,1,2,2-Tetrachloroethane	12.98	10.58	1.227	ok	1.227	1.167-1.287
1,1,2-Trichloroethane	7.23	4.73	1.529	ok	1.528	1.468-1.588
1,2,3-Trichloropropane	13.25	10.58	1.252	ok	1.253	1.193-1.313
1,2,3-Trimethylbenzene	17.18	10.58	1.624	ok	1.623	1.563-1.683
1,2,4-Trimethylbenzene	16.80	10.58	1.588	ok	1.587	1.527-1.647
1,3,5-Trimethylbenzene	16.35	10.58	1.545	ok	1.545	1.485-1.605
2,2,4-Trimethylpentane	5.45	4.73	1.152	ok	1.151	1.091-1.211
Tertiary Butyl Alcohol	2.41	3.34	0.722	ok	0.719	0.659-0.779
Tetrachloroethylene	9.41	4.73	1.989	ok	1.989	1.929-2.049
Toluene	7.62	4.73	1.611	ok	1.609	1.549-1.669

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V6W1125-IC1125	6W26448.D	10/19/22 19:10	TCH	0.04	GCMS6W	TO-15	
V6W1125-IC1125	6W26449.D	10/19/22 19:43	TCH	0.1	GCMS6W	TO-15	Reporting this level
V6W1125-IC1125	6W26450.D	10/19/22 20:15	TCH	0.2	GCMS6W	TO-15	
V6W1125-IC1125	6W26451.D	10/19/22 20:47	TCH	0.5	GCMS6W	TO-15	
V6W1125-IC1125	6W26453.D	10/19/22 21:52	TCH	5	GCMS6W	TO-15	
V6W1125-ICC1125	6W26454.D	10/19/22 22:25	TCH	10	GCMS6W	TO-15	
V6W1125-IC1125	6W26455.D	10/19/22 22:57	TCH	20	GCMS6W	TO-15	
V6W1125-IC1125	6W26456.D	10/19/22 23:29	TCH	40	GCMS6W	TO-15	
V6W1125-IC1125	6W26457.D	10/20/22 00:03	TCH	50	GCMS6W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+/- .06)
Trichloroethylene	5.35	4.73	1.131	ok	1.130	1.070-1.190
Trichlorofluoromethane	2.19	3.34	0.656	ok	0.656	0.596-0.716
Vinyl chloride	1.83	3.34	0.548	ok	0.548	0.488-0.608
m,p-Xylene	12.01	10.58	1.135	ok	1.135	1.075-1.195
o-Xylene	12.95	10.58	1.224	ok	1.224	1.164-1.284

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+/- 0.33)	Area		Mean Area	Area Range (+/- 40 %)
Bromochloromethane	3.34	ok	3.34	3.01-3.67	48898	ok	48058	28835-67281
1,4-Difluorobenzene	4.73	ok	4.73	4.40-5.06	236998	ok	240724	144434-337014
Chlorobenzene-D5	10.58	ok	10.59	10.26-10.92	208233	ok	213567	128140-298994

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V6W1125-IC1125	6W26448.D	10/19/22 19:10	TCH	0.04	GCMS6W	TO-15	
V6W1125-IC1125	6W26449.D	10/19/22 19:43	TCH	0.1	GCMS6W	TO-15	
V6W1125-IC1125	6W26450.D	10/19/22 20:15	TCH	0.2	GCMS6W	TO-15	Reporting this level
V6W1125-IC1125	6W26451.D	10/19/22 20:47	TCH	0.5	GCMS6W	TO-15	
V6W1125-IC1125	6W26453.D	10/19/22 21:52	TCH	5	GCMS6W	TO-15	
V6W1125-ICC1125	6W26454.D	10/19/22 22:25	TCH	10	GCMS6W	TO-15	
V6W1125-IC1125	6W26455.D	10/19/22 22:57	TCH	20	GCMS6W	TO-15	
V6W1125-IC1125	6W26456.D	10/19/22 23:29	TCH	40	GCMS6W	TO-15	
V6W1125-IC1125	6W26457.D	10/20/22 00:03	TCH	50	GCMS6W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	2.14	3.34	0.641	ok	0.641	0.581-0.701
Acrolein	2.10	3.34	0.629	ok	0.629	0.569-0.689
Acrylonitrile	2.27	3.34	0.680	ok	0.680	0.620-0.740
Acetonitrile	2.07	3.34	0.620	ok	0.618	0.558-0.678
1,3-Butadiene	1.87	3.34	0.560	ok	0.559	0.499-0.619
Benzene	4.38	3.34	1.311	ok	1.312	1.252-1.372
Bromobenzene	14.37	10.58	1.358	ok	1.358	1.298-1.418
Bromodichloromethane	5.29	4.73	1.118	ok	1.119	1.059-1.179
Bromoform	11.83	10.58	1.118	ok	1.117	1.057-1.177
Bromomethane	1.93	3.34	0.578	ok	0.579	0.519-0.639
Bromoethene	2.07	3.34	0.620	ok	0.620	0.560-0.680
n-Butane	1.88	3.34	0.563	ok	0.563	0.503-0.623
Benzyl Chloride	16.88	10.58	1.595	ok	1.595	1.535-1.655
n-Butylbenzene	17.59	10.58	1.663	ok	1.661	1.601-1.721
sec-Butylbenzene	17.07	10.58	1.613	ok	1.613	1.553-1.673
tert-Butylbenzene	16.79	10.58	1.587	ok	1.587	1.527-1.647
Carbon disulfide	2.52	3.34	0.754	ok	0.754	0.694-0.814
Chlorobenzene	10.66	10.58	1.008	ok	1.008	0.948-1.068
Chlorodifluoromethane	1.71	3.34	0.512	ok	0.511	0.451-0.571
Chloroethane	1.98	3.34	0.593	ok	0.593	0.533-0.653
Chlorotrifluoroethene	1.72	3.34	0.515	ok	0.513	0.453-0.573
Chloroform	3.42	3.34	1.024	ok	1.024	0.964-1.084
Chloromethane	1.77	3.34	0.530	ok	0.531	0.471-0.591
3-Chloropropene	2.46	3.34	0.737	ok	0.737	0.677-0.797
2-Chlorotoluene	15.52	10.58	1.467	ok	1.466	1.406-1.526
Carbon tetrachloride	4.50	3.34	1.347	ok	1.348	1.288-1.408
Cyclohexane	4.60	4.73	0.973	ok	0.973	0.913-1.033
1,1-Dichloroethane	2.85	3.34	0.853	ok	0.854	0.794-0.914
1,1-Dichloroethylene	2.38	3.34	0.713	ok	0.713	0.653-0.773
1,2-Dibromoethane (EDB)	8.53	4.73	1.803	ok	1.803	1.743-1.863
1,2-Dichloroethane	3.87	3.34	1.159	ok	1.158	1.098-1.218
1,2-Dichloropropane	5.10	4.73	1.078	ok	1.078	1.018-1.138
1,3-Dichloropropane	7.67	4.73	1.622	ok	1.623	1.563-1.683
1,4-Dioxane	5.43	4.73	1.148	ok	1.136	1.076-1.196
Dichlorodifluoromethane	1.73	3.34	0.518	ok	0.518	0.458-0.578
Dichlorofluoromethane	2.00	3.34	0.599	ok	0.599	0.539-0.659
Dibromochloromethane	8.18	4.73	1.729	ok	1.729	1.669-1.789
Dibromomethane	5.05	4.73	1.068	ok	1.068	1.008-1.128
trans-1,2-Dichloroethylene	2.77	3.34	0.829	ok	0.829	0.769-0.889

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V6W1125-IC1125	6W26448.D	10/19/22 19:10	TCH	0.04	GCMS6W	TO-15	
V6W1125-IC1125	6W26449.D	10/19/22 19:43	TCH	0.1	GCMS6W	TO-15	
V6W1125-IC1125	6W26450.D	10/19/22 20:15	TCH	0.2	GCMS6W	TO-15	Reporting this level
V6W1125-IC1125	6W26451.D	10/19/22 20:47	TCH	0.5	GCMS6W	TO-15	
V6W1125-IC1125	6W26453.D	10/19/22 21:52	TCH	5	GCMS6W	TO-15	
V6W1125-ICC1125	6W26454.D	10/19/22 22:25	TCH	10	GCMS6W	TO-15	
V6W1125-IC1125	6W26455.D	10/19/22 22:57	TCH	20	GCMS6W	TO-15	
V6W1125-IC1125	6W26456.D	10/19/22 23:29	TCH	40	GCMS6W	TO-15	
V6W1125-IC1125	6W26457.D	10/20/22 00:03	TCH	50	GCMS6W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
cis-1,2-Dichloroethylene	3.25	3.34	0.973	ok	0.973	0.913-1.033
cis-1,3-Dichloropropene	6.35	4.73	1.342	ok	1.341	1.281-1.401
m-Dichlorobenzene	16.86	10.58	1.594	ok	1.593	1.533-1.653
o-Dichlorobenzene	17.23	10.58	1.629	ok	1.628	1.568-1.688
p-Dichlorobenzene	16.95	10.58	1.602	ok	1.601	1.541-1.661
trans-1,3-Dichloropropene	7.06	4.73	1.493	ok	1.492	1.432-1.552
Di-Isopropyl ether	3.40	3.34	1.018	ok	1.018	0.958-1.078
2,3-Dimethylpentane	4.88	4.73	1.032	ok	1.030	0.970-1.090
2,4-Dimethylpentane	3.96	3.34	1.186	ok	1.186	1.126-1.246
Ethanol	2.01	3.34	0.602	ok	0.601	0.541-0.661
Ethylbenzene	11.57	10.58	1.094	ok	1.093	1.033-1.153
Ethyl Acetate	3.42	3.34	1.024	ok	1.021	0.961-1.081
Ethyl Acrylate	5.24	4.73	1.108	ok	1.106	1.046-1.166
4-Ethyltoluene	16.20	10.58	1.531	ok	1.531	1.471-1.591
Freon 113	2.52	3.34	0.754	ok	0.754	0.694-0.814
Freon 114	1.80	3.34	0.539	ok	0.539	0.479-0.599
Freon 123	2.11	3.34	0.632	ok	0.634	0.574-0.694
Freon 123A	2.13	3.34	0.638	ok	0.638	0.578-0.698
Freon 142B	1.77	3.34	0.530	ok	0.530	0.470-0.590
Freon 152A	1.69	3.34	0.506	ok	0.506	0.446-0.566
Heptane	5.79	4.73	1.224	ok	1.222	1.162-1.282
Hexachlorobutadiene	18.78	10.58	1.775	ok	1.774	1.714-1.834
Hexachloroethane	17.77	10.58	1.680	ok	1.678	1.618-1.738
Hexane	3.39	3.34	1.015	ok	1.016	0.956-1.076
2-Hexanone	8.24	4.73	1.742	ok	1.737	1.677-1.797
Iodomethane	2.36	3.34	0.707	ok	0.706	0.646-0.766
Isopropylbenzene	14.50	10.58	1.371	ok	1.370	1.310-1.430
Isopropyl Alcohol	2.21	3.34	0.662	ok	0.662	0.602-0.722
p-Isopropyltoluene	17.24	10.58	1.629	ok	1.629	1.569-1.689
Methylene chloride	2.42	3.34	0.725	ok	0.725	0.665-0.785
Methyl ethyl ketone	3.05	3.34	0.913	ok	0.911	0.851-0.971
Methyl Isobutyl Ketone	6.48	4.73	1.370	ok	1.367	1.307-1.427
Methyl Tert Butyl Ether	2.89	3.34	0.865	ok	0.865	0.805-0.925
Methylmethacrylate	5.69	4.73	1.203	ok	1.201	1.141-1.261
Naphthalene	18.53	10.58	1.751	ok	1.750	1.690-1.810
Nonane	14.10	10.58	1.333	ok	1.331	1.271-1.391
Octane	9.56	4.73	2.021	ok	2.020	1.960-2.080
Pentane	2.30	3.34	0.689	ok	0.689	0.629-0.749
n-Propylbenzene	15.86	10.58	1.499	ok	1.498	1.438-1.558

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V6W1125-IC1125	6W26448.D	10/19/22 19:10	TCH	0.04	GCMS6W	TO-15	
V6W1125-IC1125	6W26449.D	10/19/22 19:43	TCH	0.1	GCMS6W	TO-15	
V6W1125-IC1125	6W26450.D	10/19/22 20:15	TCH	0.2	GCMS6W	TO-15	Reporting this level
V6W1125-IC1125	6W26451.D	10/19/22 20:47	TCH	0.5	GCMS6W	TO-15	
V6W1125-IC1125	6W26453.D	10/19/22 21:52	TCH	5	GCMS6W	TO-15	
V6W1125-ICC1125	6W26454.D	10/19/22 22:25	TCH	10	GCMS6W	TO-15	
V6W1125-IC1125	6W26455.D	10/19/22 22:57	TCH	20	GCMS6W	TO-15	
V6W1125-IC1125	6W26456.D	10/19/22 23:29	TCH	40	GCMS6W	TO-15	
V6W1125-IC1125	6W26457.D	10/20/22 00:03	TCH	50	GCMS6W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Propylene	1.71	3.34	0.512	ok	0.512	0.452-0.572
Styrene	12.75	10.58	1.205	ok	1.204	1.144-1.264
1,1,1-Trichloroethane	4.05	3.34	1.213	ok	1.212	1.152-1.272
1,1,1,2-Tetrachloroethane	10.68	10.58	1.009	ok	1.009	0.949-1.069
1,1,2,2-Tetrachloroethane	12.99	10.58	1.228	ok	1.227	1.167-1.287
1,1,2-Trichloroethane	7.24	4.73	1.531	ok	1.528	1.468-1.588
1,2,4-Trichlorobenzene	18.49	10.58	1.748	ok	1.746	1.686-1.806
1,2,3-Trichloropropane	13.26	10.58	1.253	ok	1.253	1.193-1.313
1,2,3-Trimethylbenzene	17.18	10.58	1.624	ok	1.623	1.563-1.683
1,2,4-Trimethylbenzene	16.80	10.58	1.588	ok	1.587	1.527-1.647
1,3,5-Trimethylbenzene	16.35	10.58	1.545	ok	1.545	1.485-1.605
2,2,4-Trimethylpentane	5.45	4.73	1.152	ok	1.151	1.091-1.211
Tertiary Butyl Alcohol	2.41	3.34	0.722	ok	0.719	0.659-0.779
Tetrachloroethylene	9.41	4.73	1.989	ok	1.989	1.929-2.049
Tetrahydrofuran	3.67	3.34	1.099	ok	1.094	1.034-1.154
Toluene	7.62	4.73	1.611	ok	1.609	1.549-1.669
Trichloroethylene	5.35	4.73	1.131	ok	1.130	1.070-1.190
Trichlorofluoromethane	2.19	3.34	0.656	ok	0.656	0.596-0.716
Vinyl chloride	1.83	3.34	0.548	ok	0.548	0.488-0.608
Vinyl Acetate	2.93	3.34	0.877	ok	0.877	0.817-0.937
m,p-Xylene	12.01	10.58	1.135	ok	1.135	1.075-1.195
o-Xylene	12.96	10.58	1.225	ok	1.224	1.164-1.284

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.34	ok	3.34	3.01-3.67	46339	ok	48058	28835-67281
1,4-Difluorobenzene	4.73	ok	4.73	4.40-5.06	232045	ok	240724	144434-337014
Chlorobenzene-D5	10.58	ok	10.59	10.26-10.92	202916	ok	213567	128140-298994

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V6W1125-IC1125	6W26448.D	10/19/22 19:10	TCH	0.04	GCMS6W	TO-15	
V6W1125-IC1125	6W26449.D	10/19/22 19:43	TCH	0.1	GCMS6W	TO-15	
V6W1125-IC1125	6W26450.D	10/19/22 20:15	TCH	0.2	GCMS6W	TO-15	
V6W1125-IC1125	6W26451.D	10/19/22 20:47	TCH	0.5	GCMS6W	TO-15	Reporting this level
V6W1125-IC1125	6W26453.D	10/19/22 21:52	TCH	5	GCMS6W	TO-15	
V6W1125-ICC1125	6W26454.D	10/19/22 22:25	TCH	10	GCMS6W	TO-15	
V6W1125-IC1125	6W26455.D	10/19/22 22:57	TCH	20	GCMS6W	TO-15	
V6W1125-IC1125	6W26456.D	10/19/22 23:29	TCH	40	GCMS6W	TO-15	
V6W1125-IC1125	6W26457.D	10/20/22 00:03	TCH	50	GCMS6W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	2.14	3.34	0.641	ok	0.641	0.581-0.701
Acrolein	2.10	3.34	0.629	ok	0.629	0.569-0.689
Acrylonitrile	2.27	3.34	0.680	ok	0.680	0.620-0.740
Acetonitrile	2.07	3.34	0.620	ok	0.618	0.558-0.678
1,3-Butadiene	1.86	3.34	0.557	ok	0.559	0.499-0.619
Benzene	4.38	3.34	1.311	ok	1.312	1.252-1.372
Bromobenzene	14.37	10.59	1.357	ok	1.358	1.298-1.418
Bromodichloromethane	5.30	4.73	1.121	ok	1.119	1.059-1.179
Bromoform	11.82	10.59	1.116	ok	1.117	1.057-1.177
Bromomethane	1.93	3.34	0.578	ok	0.579	0.519-0.639
Bromoethene	2.07	3.34	0.620	ok	0.620	0.560-0.680
n-Butane	1.88	3.34	0.563	ok	0.563	0.503-0.623
Benzyl Chloride	16.89	10.59	1.595	ok	1.595	1.535-1.655
n-Butylbenzene	17.59	10.59	1.661	ok	1.661	1.601-1.721
sec-Butylbenzene	17.07	10.59	1.612	ok	1.613	1.553-1.673
tert-Butylbenzene	16.80	10.59	1.586	ok	1.587	1.527-1.647
Carbon disulfide	2.52	3.34	0.754	ok	0.754	0.694-0.814
Chlorobenzene	10.66	10.59	1.007	ok	1.008	0.948-1.068
Chlorodifluoromethane	1.71	3.34	0.512	ok	0.511	0.451-0.571
Chloroethane	1.98	3.34	0.593	ok	0.593	0.533-0.653
Chlorotrifluoroethene	1.71	3.34	0.512	ok	0.513	0.453-0.573
Chloroform	3.42	3.34	1.024	ok	1.024	0.964-1.084
Chloromethane	1.77	3.34	0.530	ok	0.531	0.471-0.591
3-Chloropropene	2.46	3.34	0.737	ok	0.737	0.677-0.797
2-Chlorotoluene	15.52	10.59	1.466	ok	1.466	1.406-1.526
Carbon tetrachloride	4.50	3.34	1.347	ok	1.348	1.288-1.408
Cyclohexane	4.60	4.73	0.973	ok	0.973	0.913-1.033
1,1-Dichloroethane	2.85	3.34	0.853	ok	0.854	0.794-0.914
1,1-Dichloroethylene	2.38	3.34	0.713	ok	0.713	0.653-0.773
1,2-Dibromoethane (EDB)	8.54	4.73	1.805	ok	1.803	1.743-1.863
1,2-Dichloroethane	3.86	3.34	1.156	ok	1.158	1.098-1.218
1,2-Dichloropropane	5.10	4.73	1.078	ok	1.078	1.018-1.138
1,3-Dichloropropane	7.68	4.73	1.624	ok	1.623	1.563-1.683
1,4-Dioxane	5.40	4.73	1.142	ok	1.136	1.076-1.196
Dichlorodifluoromethane	1.73	3.34	0.518	ok	0.518	0.458-0.578
Dichlorofluoromethane	2.00	3.34	0.599	ok	0.599	0.539-0.659
Dibromochloromethane	8.19	4.73	1.732	ok	1.729	1.669-1.789
Dibromomethane	5.05	4.73	1.068	ok	1.068	1.008-1.128
trans-1,2-Dichloroethylene	2.77	3.34	0.829	ok	0.829	0.769-0.889

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V6W1125-IC1125	6W26448.D	10/19/22 19:10	TCH	0.04	GCMS6W	TO-15	
V6W1125-IC1125	6W26449.D	10/19/22 19:43	TCH	0.1	GCMS6W	TO-15	
V6W1125-IC1125	6W26450.D	10/19/22 20:15	TCH	0.2	GCMS6W	TO-15	
V6W1125-IC1125	6W26451.D	10/19/22 20:47	TCH	0.5	GCMS6W	TO-15	Reporting this level
V6W1125-IC1125	6W26453.D	10/19/22 21:52	TCH	5	GCMS6W	TO-15	
V6W1125-ICC1125	6W26454.D	10/19/22 22:25	TCH	10	GCMS6W	TO-15	
V6W1125-IC1125	6W26455.D	10/19/22 22:57	TCH	20	GCMS6W	TO-15	
V6W1125-IC1125	6W26456.D	10/19/22 23:29	TCH	40	GCMS6W	TO-15	
V6W1125-IC1125	6W26457.D	10/20/22 00:03	TCH	50	GCMS6W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
cis-1,2-Dichloroethylene	3.25	3.34	0.973	ok	0.973	0.913-1.033
cis-1,3-Dichloropropene	6.35	4.73	1.342	ok	1.341	1.281-1.401
m-Dichlorobenzene	16.86	10.59	1.592	ok	1.593	1.533-1.653
o-Dichlorobenzene	17.23	10.59	1.627	ok	1.628	1.568-1.688
p-Dichlorobenzene	16.94	10.59	1.600	ok	1.601	1.541-1.661
trans-1,3-Dichloropropene	7.06	4.73	1.493	ok	1.492	1.432-1.552
Di-Isopropyl ether	3.40	3.34	1.018	ok	1.018	0.958-1.078
2,3-Dimethylpentane	4.87	4.73	1.030	ok	1.030	0.970-1.090
2,4-Dimethylpentane	3.96	3.34	1.186	ok	1.186	1.126-1.246
Ethanol	2.01	3.34	0.602	ok	0.601	0.541-0.661
Ethylbenzene	11.56	10.59	1.092	ok	1.093	1.033-1.153
Ethyl Acetate	3.41	3.34	1.021	ok	1.021	0.961-1.081
Ethyl Acrylate	5.24	4.73	1.108	ok	1.106	1.046-1.166
4-Ethyltoluene	16.20	10.59	1.530	ok	1.531	1.471-1.591
Freon 113	2.52	3.34	0.754	ok	0.754	0.694-0.814
Freon 114	1.80	3.34	0.539	ok	0.539	0.479-0.599
Freon 123	2.12	3.34	0.635	ok	0.634	0.574-0.694
Freon 123A	2.13	3.34	0.638	ok	0.638	0.578-0.698
Freon 142B	1.77	3.34	0.530	ok	0.530	0.470-0.590
Freon 152A	1.69	3.34	0.506	ok	0.506	0.446-0.566
Heptane	5.78	4.73	1.222	ok	1.222	1.162-1.282
Hexachlorobutadiene	18.78	10.59	1.773	ok	1.774	1.714-1.834
Hexachloroethane	17.76	10.59	1.677	ok	1.678	1.618-1.738
Hexane	3.39	3.34	1.015	ok	1.016	0.956-1.076
2-Hexanone	8.24	4.73	1.742	ok	1.737	1.677-1.797
Iodomethane	2.35	3.34	0.704	ok	0.706	0.646-0.766
Isopropylbenzene	14.51	10.59	1.370	ok	1.370	1.310-1.430
Isopropyl Alcohol	2.21	3.34	0.662	ok	0.662	0.602-0.722
p-Isopropyltoluene	17.24	10.59	1.628	ok	1.629	1.569-1.689
Methylene chloride	2.42	3.34	0.725	ok	0.725	0.665-0.785
Methyl ethyl ketone	3.05	3.34	0.913	ok	0.911	0.851-0.971
Methyl Isobutyl Ketone	6.49	4.73	1.372	ok	1.367	1.307-1.427
Methyl Tert Butyl Ether	2.89	3.34	0.865	ok	0.865	0.805-0.925
Methylmethacrylate	5.69	4.73	1.203	ok	1.201	1.141-1.261
Naphthalene	18.53	10.59	1.750	ok	1.750	1.690-1.810
Nonane	14.09	10.59	1.331	ok	1.331	1.271-1.391
Octane	9.55	4.73	2.019	ok	2.020	1.960-2.080
Pentane	2.30	3.34	0.689	ok	0.689	0.629-0.749
n-Propylbenzene	15.86	10.59	1.498	ok	1.498	1.438-1.558

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V6W1125-IC1125	6W26448.D	10/19/22 19:10	TCH	0.04	GCMS6W	TO-15	
V6W1125-IC1125	6W26449.D	10/19/22 19:43	TCH	0.1	GCMS6W	TO-15	
V6W1125-IC1125	6W26450.D	10/19/22 20:15	TCH	0.2	GCMS6W	TO-15	
V6W1125-IC1125	6W26451.D	10/19/22 20:47	TCH	0.5	GCMS6W	TO-15	Reporting this level
V6W1125-IC1125	6W26453.D	10/19/22 21:52	TCH	5	GCMS6W	TO-15	
V6W1125-ICC1125	6W26454.D	10/19/22 22:25	TCH	10	GCMS6W	TO-15	
V6W1125-IC1125	6W26455.D	10/19/22 22:57	TCH	20	GCMS6W	TO-15	
V6W1125-IC1125	6W26456.D	10/19/22 23:29	TCH	40	GCMS6W	TO-15	
V6W1125-IC1125	6W26457.D	10/20/22 00:03	TCH	50	GCMS6W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Propylene	1.71	3.34	0.512	ok	0.512	0.452-0.572
Styrene	12.74	10.59	1.203	ok	1.204	1.144-1.264
1,1,1-Trichloroethane	4.04	3.34	1.210	ok	1.212	1.152-1.272
1,1,1,2-Tetrachloroethane	10.68	10.59	1.008	ok	1.009	0.949-1.069
1,1,2,2-Tetrachloroethane	12.98	10.59	1.226	ok	1.227	1.167-1.287
1,1,2-Trichloroethane	7.24	4.73	1.531	ok	1.528	1.468-1.588
1,2,4-Trichlorobenzene	18.49	10.59	1.746	ok	1.746	1.686-1.806
1,2,3-Trichloropropane	13.27	10.59	1.253	ok	1.253	1.193-1.313
1,2,3-Trimethylbenzene	17.18	10.59	1.622	ok	1.623	1.563-1.683
1,2,4-Trimethylbenzene	16.80	10.59	1.586	ok	1.587	1.527-1.647
1,3,5-Trimethylbenzene	16.35	10.59	1.544	ok	1.545	1.485-1.605
2,2,4-Trimethylpentane	5.44	4.73	1.150	ok	1.151	1.091-1.211
Tertiary Butyl Alcohol	2.40	3.34	0.719	ok	0.719	0.659-0.779
Tetrachloroethylene	9.41	4.73	1.989	ok	1.989	1.929-2.049
Tetrahydrofuran	3.66	3.34	1.096	ok	1.094	1.034-1.154
Toluene	7.61	4.73	1.609	ok	1.609	1.549-1.669
Trichloroethylene	5.34	4.73	1.129	ok	1.130	1.070-1.190
Trichlorofluoromethane	2.19	3.34	0.656	ok	0.656	0.596-0.716
Vinyl chloride	1.83	3.34	0.548	ok	0.548	0.488-0.608
Vinyl Acetate	2.93	3.34	0.877	ok	0.877	0.817-0.937
m,p-Xylene	12.01	10.59	1.134	ok	1.135	1.075-1.195
o-Xylene	12.96	10.59	1.224	ok	1.224	1.164-1.284

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.34	ok	3.34	3.01-3.67	43611	ok	48058	28835-67281
1,4-Difluorobenzene	4.73	ok	4.73	4.40-5.06	212847	ok	240724	144434-337014
Chlorobenzene-D5	10.59	ok	10.59	10.26-10.92	201898	ok	213567	128140-298994

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V6W1125-IC1125	6W26448.D	10/19/22 19:10	TCH	0.04	GCMS6W	TO-15	
V6W1125-IC1125	6W26449.D	10/19/22 19:43	TCH	0.1	GCMS6W	TO-15	
V6W1125-IC1125	6W26450.D	10/19/22 20:15	TCH	0.2	GCMS6W	TO-15	
V6W1125-IC1125	6W26451.D	10/19/22 20:47	TCH	0.5	GCMS6W	TO-15	
V6W1125-IC1125	6W26453.D	10/19/22 21:52	TCH	5	GCMS6W	TO-15	Reporting this level
V6W1125-ICC1125	6W26454.D	10/19/22 22:25	TCH	10	GCMS6W	TO-15	
V6W1125-IC1125	6W26455.D	10/19/22 22:57	TCH	20	GCMS6W	TO-15	
V6W1125-IC1125	6W26456.D	10/19/22 23:29	TCH	40	GCMS6W	TO-15	
V6W1125-IC1125	6W26457.D	10/20/22 00:03	TCH	50	GCMS6W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	2.14	3.34	0.641	ok	0.641	0.581-0.701
Acrolein	2.10	3.34	0.629	ok	0.629	0.569-0.689
Acrylonitrile	2.27	3.34	0.680	ok	0.680	0.620-0.740
Acetonitrile	2.06	3.34	0.617	ok	0.618	0.558-0.678
1,3-Butadiene	1.87	3.34	0.560	ok	0.559	0.499-0.619
Benzene	4.38	3.34	1.311	ok	1.312	1.252-1.372
Bromobenzene	14.37	10.58	1.358	ok	1.358	1.298-1.418
Bromodichloromethane	5.29	4.73	1.118	ok	1.119	1.059-1.179
Bromoform	11.82	10.58	1.117	ok	1.117	1.057-1.177
Bromomethane	1.93	3.34	0.578	ok	0.579	0.519-0.639
Bromoethene	2.07	3.34	0.620	ok	0.620	0.560-0.680
n-Butane	1.88	3.34	0.563	ok	0.563	0.503-0.623
Benzyl Chloride	16.89	10.58	1.596	ok	1.595	1.535-1.655
n-Butylbenzene	17.59	10.58	1.663	ok	1.661	1.601-1.721
sec-Butylbenzene	17.07	10.58	1.613	ok	1.613	1.553-1.673
tert-Butylbenzene	16.80	10.58	1.588	ok	1.587	1.527-1.647
Carbon disulfide	2.52	3.34	0.754	ok	0.754	0.694-0.814
Chlorobenzene	10.66	10.58	1.008	ok	1.008	0.948-1.068
Chlorodifluoromethane	1.70	3.34	0.509	ok	0.511	0.451-0.571
Chloroethane	1.98	3.34	0.593	ok	0.593	0.533-0.653
Chlorotrifluoroethene	1.71	3.34	0.512	ok	0.513	0.453-0.573
Chloroform	3.42	3.34	1.024	ok	1.024	0.964-1.084
Chloromethane	1.77	3.34	0.530	ok	0.531	0.471-0.591
3-Chloropropene	2.46	3.34	0.737	ok	0.737	0.677-0.797
2-Chlorotoluene	15.52	10.58	1.467	ok	1.466	1.406-1.526
Carbon tetrachloride	4.50	3.34	1.347	ok	1.348	1.288-1.408
Cyclohexane	4.60	4.73	0.973	ok	0.973	0.913-1.033
1,1-Dichloroethane	2.85	3.34	0.853	ok	0.854	0.794-0.914
1,1-Dichloroethylene	2.38	3.34	0.713	ok	0.713	0.653-0.773
1,2-Dibromoethane (EDB)	8.53	4.73	1.803	ok	1.803	1.743-1.863
1,2-Dichloroethane	3.87	3.34	1.159	ok	1.158	1.098-1.218
1,2-Dichloropropane	5.10	4.73	1.078	ok	1.078	1.018-1.138
1,3-Dichloropropane	7.68	4.73	1.624	ok	1.623	1.563-1.683
1,4-Dioxane	5.37	4.73	1.135	ok	1.136	1.076-1.196
Dichlorodifluoromethane	1.73	3.34	0.518	ok	0.518	0.458-0.578
Dichlorofluoromethane	2.00	3.34	0.599	ok	0.599	0.539-0.659
Dibromochloromethane	8.18	4.73	1.729	ok	1.729	1.669-1.789
Dibromomethane	5.06	4.73	1.070	ok	1.068	1.008-1.128
trans-1,2-Dichloroethylene	2.77	3.34	0.829	ok	0.829	0.769-0.889

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V6W1125-IC1125	6W26448.D	10/19/22 19:10	TCH	0.04	GCMS6W	TO-15	
V6W1125-IC1125	6W26449.D	10/19/22 19:43	TCH	0.1	GCMS6W	TO-15	
V6W1125-IC1125	6W26450.D	10/19/22 20:15	TCH	0.2	GCMS6W	TO-15	
V6W1125-IC1125	6W26451.D	10/19/22 20:47	TCH	0.5	GCMS6W	TO-15	
V6W1125-IC1125	6W26453.D	10/19/22 21:52	TCH	5	GCMS6W	TO-15	Reporting this level
V6W1125-ICC1125	6W26454.D	10/19/22 22:25	TCH	10	GCMS6W	TO-15	
V6W1125-IC1125	6W26455.D	10/19/22 22:57	TCH	20	GCMS6W	TO-15	
V6W1125-IC1125	6W26456.D	10/19/22 23:29	TCH	40	GCMS6W	TO-15	
V6W1125-IC1125	6W26457.D	10/20/22 00:03	TCH	50	GCMS6W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
cis-1,2-Dichloroethylene	3.25	3.34	0.973	ok	0.973	0.913-1.033
cis-1,3-Dichloropropene	6.35	4.73	1.342	ok	1.341	1.281-1.401
m-Dichlorobenzene	16.86	10.58	1.594	ok	1.593	1.533-1.653
o-Dichlorobenzene	17.23	10.58	1.629	ok	1.628	1.568-1.688
p-Dichlorobenzene	16.95	10.58	1.602	ok	1.601	1.541-1.661
trans-1,3-Dichloropropene	7.06	4.73	1.493	ok	1.492	1.432-1.552
Di-Isopropyl ether	3.40	3.34	1.018	ok	1.018	0.958-1.078
2,3-Dimethylpentane	4.88	4.73	1.032	ok	1.030	0.970-1.090
2,4-Dimethylpentane	3.96	3.34	1.186	ok	1.186	1.126-1.246
Ethanol	2.01	3.34	0.602	ok	0.601	0.541-0.661
Ethylbenzene	11.57	10.58	1.094	ok	1.093	1.033-1.153
Ethyl Acetate	3.40	3.34	1.018	ok	1.021	0.961-1.081
Ethyl Acrylate	5.23	4.73	1.106	ok	1.106	1.046-1.166
4-Ethyltoluene	16.20	10.58	1.531	ok	1.531	1.471-1.591
Freon 113	2.52	3.34	0.754	ok	0.754	0.694-0.814
Freon 114	1.80	3.34	0.539	ok	0.539	0.479-0.599
Freon 123	2.12	3.34	0.635	ok	0.634	0.574-0.694
Freon 123A	2.13	3.34	0.638	ok	0.638	0.578-0.698
Freon 142B	1.77	3.34	0.530	ok	0.530	0.470-0.590
Freon 152A	1.69	3.34	0.506	ok	0.506	0.446-0.566
Heptane	5.78	4.73	1.222	ok	1.222	1.162-1.282
Hexachlorobutadiene	18.78	10.58	1.775	ok	1.774	1.714-1.834
Hexachloroethane	17.76	10.58	1.679	ok	1.678	1.618-1.738
Hexane	3.40	3.34	1.018	ok	1.016	0.956-1.076
2-Hexanone	8.21	4.73	1.736	ok	1.737	1.677-1.797
Iodomethane	2.36	3.34	0.707	ok	0.706	0.646-0.766
Isopropylbenzene	14.50	10.58	1.371	ok	1.370	1.310-1.430
Isopropyl Alcohol	2.21	3.34	0.662	ok	0.662	0.602-0.722
p-Isopropyltoluene	17.25	10.58	1.630	ok	1.629	1.569-1.689
Methylene chloride	2.42	3.34	0.725	ok	0.725	0.665-0.785
Methyl ethyl ketone	3.04	3.34	0.910	ok	0.911	0.851-0.971
Methyl Isobutyl Ketone	6.46	4.73	1.366	ok	1.367	1.307-1.427
Methyl Tert Butyl Ether	2.89	3.34	0.865	ok	0.865	0.805-0.925
Methylmethacrylate	5.68	4.73	1.201	ok	1.201	1.141-1.261
Naphthalene	18.53	10.58	1.751	ok	1.750	1.690-1.810
Nonane	14.09	10.58	1.332	ok	1.331	1.271-1.391
Octane	9.57	4.73	2.023	ok	2.020	1.960-2.080
Pentane	2.30	3.34	0.689	ok	0.689	0.629-0.749
n-Propylbenzene	15.86	10.58	1.499	ok	1.498	1.438-1.558

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V6W1125-IC1125	6W26448.D	10/19/22 19:10	TCH	0.04	GCMS6W	TO-15	
V6W1125-IC1125	6W26449.D	10/19/22 19:43	TCH	0.1	GCMS6W	TO-15	
V6W1125-IC1125	6W26450.D	10/19/22 20:15	TCH	0.2	GCMS6W	TO-15	
V6W1125-IC1125	6W26451.D	10/19/22 20:47	TCH	0.5	GCMS6W	TO-15	
V6W1125-IC1125	6W26453.D	10/19/22 21:52	TCH	5	GCMS6W	TO-15	Reporting this level
V6W1125-ICC1125	6W26454.D	10/19/22 22:25	TCH	10	GCMS6W	TO-15	
V6W1125-IC1125	6W26455.D	10/19/22 22:57	TCH	20	GCMS6W	TO-15	
V6W1125-IC1125	6W26456.D	10/19/22 23:29	TCH	40	GCMS6W	TO-15	
V6W1125-IC1125	6W26457.D	10/20/22 00:03	TCH	50	GCMS6W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Propylene	1.71	3.34	0.512	ok	0.512	0.452-0.572
Styrene	12.75	10.58	1.205	ok	1.204	1.144-1.264
1,1,1-Trichloroethane	4.05	3.34	1.213	ok	1.212	1.152-1.272
1,1,1,2-Tetrachloroethane	10.68	10.58	1.009	ok	1.009	0.949-1.069
1,1,2,2-Tetrachloroethane	12.98	10.58	1.227	ok	1.227	1.167-1.287
1,1,2-Trichloroethane	7.23	4.73	1.529	ok	1.528	1.468-1.588
1,2,4-Trichlorobenzene	18.49	10.58	1.748	ok	1.746	1.686-1.806
1,2,3-Trichloropropane	13.26	10.58	1.253	ok	1.253	1.193-1.313
1,2,3-Trimethylbenzene	17.18	10.58	1.624	ok	1.623	1.563-1.683
1,2,4-Trimethylbenzene	16.80	10.58	1.588	ok	1.587	1.527-1.647
1,3,5-Trimethylbenzene	16.35	10.58	1.545	ok	1.545	1.485-1.605
2,2,4-Trimethylpentane	5.45	4.73	1.152	ok	1.151	1.091-1.211
Tertiary Butyl Alcohol	2.40	3.34	0.719	ok	0.719	0.659-0.779
Tetrachloroethylene	9.42	4.73	1.992	ok	1.989	1.929-2.049
Tetrahydrofuran	3.65	3.34	1.093	ok	1.094	1.034-1.154
Toluene	7.62	4.73	1.611	ok	1.609	1.549-1.669
Trichloroethylene	5.35	4.73	1.131	ok	1.130	1.070-1.190
Trichlorofluoromethane	2.19	3.34	0.656	ok	0.656	0.596-0.716
Vinyl chloride	1.83	3.34	0.548	ok	0.548	0.488-0.608
Vinyl Acetate	2.93	3.34	0.877	ok	0.877	0.817-0.937
m,p-Xylene	12.01	10.58	1.135	ok	1.135	1.075-1.195
o-Xylene	12.96	10.58	1.225	ok	1.224	1.164-1.284

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.34	ok	3.34	3.01-3.67	48052	ok	48058	28835-67281
1,4-Difluorobenzene	4.73	ok	4.73	4.40-5.06	238668	ok	240724	144434-337014
Chlorobenzene-D5	10.58	ok	10.59	10.26-10.92	209355	ok	213567	128140-298994

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V6W1125-IC1125	6W26448.D	10/19/22 19:10	TCH	0.04	GCMS6W	TO-15	
V6W1125-IC1125	6W26449.D	10/19/22 19:43	TCH	0.1	GCMS6W	TO-15	
V6W1125-IC1125	6W26450.D	10/19/22 20:15	TCH	0.2	GCMS6W	TO-15	
V6W1125-IC1125	6W26451.D	10/19/22 20:47	TCH	0.5	GCMS6W	TO-15	
V6W1125-IC1125	6W26453.D	10/19/22 21:52	TCH	5	GCMS6W	TO-15	
V6W1125-ICC1125	6W26454.D	10/19/22 22:25	TCH	10	GCMS6W	TO-15	Reporting this level
V6W1125-IC1125	6W26455.D	10/19/22 22:57	TCH	20	GCMS6W	TO-15	
V6W1125-IC1125	6W26456.D	10/19/22 23:29	TCH	40	GCMS6W	TO-15	
V6W1125-IC1125	6W26457.D	10/20/22 00:03	TCH	50	GCMS6W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	2.14	3.34	0.641	ok	0.641	0.581-0.701
Acrolein	2.10	3.34	0.629	ok	0.629	0.569-0.689
Acrylonitrile	2.27	3.34	0.680	ok	0.680	0.620-0.740
Acetonitrile	2.06	3.34	0.617	ok	0.618	0.558-0.678
1,3-Butadiene	1.87	3.34	0.560	ok	0.559	0.499-0.619
Benzene	4.38	3.34	1.311	ok	1.312	1.252-1.372
Bromobenzene	14.37	10.59	1.357	ok	1.358	1.298-1.418
Bromodichloromethane	5.29	4.73	1.118	ok	1.119	1.059-1.179
Bromoform	11.83	10.59	1.117	ok	1.117	1.057-1.177
Bromomethane	1.93	3.34	0.578	ok	0.579	0.519-0.639
Bromoethene	2.07	3.34	0.620	ok	0.620	0.560-0.680
n-Butane	1.88	3.34	0.563	ok	0.563	0.503-0.623
Benzyl Chloride	16.89	10.59	1.595	ok	1.595	1.535-1.655
n-Butylbenzene	17.58	10.59	1.660	ok	1.661	1.601-1.721
sec-Butylbenzene	17.07	10.59	1.612	ok	1.613	1.553-1.673
tert-Butylbenzene	16.80	10.59	1.586	ok	1.587	1.527-1.647
Carbon disulfide	2.52	3.34	0.754	ok	0.754	0.694-0.814
Chlorobenzene	10.67	10.59	1.008	ok	1.008	0.948-1.068
Chlorodifluoromethane	1.71	3.34	0.512	ok	0.511	0.451-0.571
Chloroethane	1.98	3.34	0.593	ok	0.593	0.533-0.653
Chlorotrifluoroethene	1.72	3.34	0.515	ok	0.513	0.453-0.573
Chloroform	3.42	3.34	1.024	ok	1.024	0.964-1.084
Chloromethane	1.77	3.34	0.530	ok	0.531	0.471-0.591
3-Chloropropene	2.46	3.34	0.737	ok	0.737	0.677-0.797
2-Chlorotoluene	15.52	10.59	1.466	ok	1.466	1.406-1.526
Carbon tetrachloride	4.51	3.34	1.350	ok	1.348	1.288-1.408
Cyclohexane	4.61	4.73	0.975	ok	0.973	0.913-1.033
1,1-Dichloroethane	2.85	3.34	0.853	ok	0.854	0.794-0.914
1,1-Dichloroethylene	2.38	3.34	0.713	ok	0.713	0.653-0.773
1,2-Dibromoethane (EDB)	8.53	4.73	1.803	ok	1.803	1.743-1.863
1,2-Dichloroethane	3.87	3.34	1.159	ok	1.158	1.098-1.218
1,2-Dichloropropane	5.10	4.73	1.078	ok	1.078	1.018-1.138
1,3-Dichloropropane	7.68	4.73	1.624	ok	1.623	1.563-1.683
1,4-Dioxane	5.36	4.73	1.133	ok	1.136	1.076-1.196
Dichlorodifluoromethane	1.73	3.34	0.518	ok	0.518	0.458-0.578
Dichlorofluoromethane	2.00	3.34	0.599	ok	0.599	0.539-0.659
Dibromochloromethane	8.18	4.73	1.729	ok	1.729	1.669-1.789
Dibromomethane	5.06	4.73	1.070	ok	1.068	1.008-1.128
trans-1,2-Dichloroethylene	2.77	3.34	0.829	ok	0.829	0.769-0.889

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V6W1125-IC1125	6W26448.D	10/19/22 19:10	TCH	0.04	GCMS6W	TO-15	
V6W1125-IC1125	6W26449.D	10/19/22 19:43	TCH	0.1	GCMS6W	TO-15	
V6W1125-IC1125	6W26450.D	10/19/22 20:15	TCH	0.2	GCMS6W	TO-15	
V6W1125-IC1125	6W26451.D	10/19/22 20:47	TCH	0.5	GCMS6W	TO-15	
V6W1125-IC1125	6W26453.D	10/19/22 21:52	TCH	5	GCMS6W	TO-15	
V6W1125-ICC1125	6W26454.D	10/19/22 22:25	TCH	10	GCMS6W	TO-15	Reporting this level
V6W1125-IC1125	6W26455.D	10/19/22 22:57	TCH	20	GCMS6W	TO-15	
V6W1125-IC1125	6W26456.D	10/19/22 23:29	TCH	40	GCMS6W	TO-15	
V6W1125-IC1125	6W26457.D	10/20/22 00:03	TCH	50	GCMS6W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
cis-1,2-Dichloroethylene	3.25	3.34	0.973	ok	0.973	0.913-1.033
cis-1,3-Dichloropropene	6.35	4.73	1.342	ok	1.341	1.281-1.401
m-Dichlorobenzene	16.86	10.59	1.592	ok	1.593	1.533-1.653
o-Dichlorobenzene	17.23	10.59	1.627	ok	1.628	1.568-1.688
p-Dichlorobenzene	16.95	10.59	1.601	ok	1.601	1.541-1.661
trans-1,3-Dichloropropene	7.06	4.73	1.493	ok	1.492	1.432-1.552
Di-Isopropyl ether	3.40	3.34	1.018	ok	1.018	0.958-1.078
2,3-Dimethylpentane	4.88	4.73	1.032	ok	1.030	0.970-1.090
2,4-Dimethylpentane	3.96	3.34	1.186	ok	1.186	1.126-1.246
Ethanol	2.01	3.34	0.602	ok	0.601	0.541-0.661
Ethylbenzene	11.57	10.59	1.093	ok	1.093	1.033-1.153
Ethyl Acetate	3.40	3.34	1.018	ok	1.021	0.961-1.081
Ethyl Acrylate	5.23	4.73	1.106	ok	1.106	1.046-1.166
4-Ethyltoluene	16.20	10.59	1.530	ok	1.531	1.471-1.591
Freon 113	2.52	3.34	0.754	ok	0.754	0.694-0.814
Freon 114	1.80	3.34	0.539	ok	0.539	0.479-0.599
Freon 123	2.12	3.34	0.635	ok	0.634	0.574-0.694
Freon 123A	2.13	3.34	0.638	ok	0.638	0.578-0.698
Freon 142B	1.77	3.34	0.530	ok	0.530	0.470-0.590
Freon 152A	1.69	3.34	0.506	ok	0.506	0.446-0.566
Heptane	5.79	4.73	1.224	ok	1.222	1.162-1.282
Hexachlorobutadiene	18.78	10.59	1.773	ok	1.774	1.714-1.834
Hexachloroethane	17.76	10.59	1.677	ok	1.678	1.618-1.738
Hexane	3.40	3.34	1.018	ok	1.016	0.956-1.076
2-Hexanone	8.21	4.73	1.736	ok	1.737	1.677-1.797
Iodomethane	2.36	3.34	0.707	ok	0.706	0.646-0.766
Isopropylbenzene	14.50	10.59	1.369	ok	1.370	1.310-1.430
Isopropyl Alcohol	2.21	3.34	0.662	ok	0.662	0.602-0.722
p-Isopropyltoluene	17.24	10.59	1.628	ok	1.629	1.569-1.689
Methylene chloride	2.42	3.34	0.725	ok	0.725	0.665-0.785
Methyl ethyl ketone	3.04	3.34	0.910	ok	0.911	0.851-0.971
Methyl Isobutyl Ketone	6.45	4.73	1.364	ok	1.367	1.307-1.427
Methyl Tert Butyl Ether	2.89	3.34	0.865	ok	0.865	0.805-0.925
Methylmethacrylate	5.68	4.73	1.201	ok	1.201	1.141-1.261
Naphthalene	18.53	10.59	1.750	ok	1.750	1.690-1.810
Nonane	14.09	10.59	1.331	ok	1.331	1.271-1.391
Octane	9.56	4.73	2.021	ok	2.020	1.960-2.080
Pentane	2.30	3.34	0.689	ok	0.689	0.629-0.749
n-Propylbenzene	15.86	10.59	1.498	ok	1.498	1.438-1.558

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V6W1125-IC1125	6W26448.D	10/19/22 19:10	TCH	0.04	GCMS6W	TO-15	
V6W1125-IC1125	6W26449.D	10/19/22 19:43	TCH	0.1	GCMS6W	TO-15	
V6W1125-IC1125	6W26450.D	10/19/22 20:15	TCH	0.2	GCMS6W	TO-15	
V6W1125-IC1125	6W26451.D	10/19/22 20:47	TCH	0.5	GCMS6W	TO-15	
V6W1125-IC1125	6W26453.D	10/19/22 21:52	TCH	5	GCMS6W	TO-15	
V6W1125-ICC1125	6W26454.D	10/19/22 22:25	TCH	10	GCMS6W	TO-15	Reporting this level
V6W1125-IC1125	6W26455.D	10/19/22 22:57	TCH	20	GCMS6W	TO-15	
V6W1125-IC1125	6W26456.D	10/19/22 23:29	TCH	40	GCMS6W	TO-15	
V6W1125-IC1125	6W26457.D	10/20/22 00:03	TCH	50	GCMS6W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Propylene	1.71	3.34	0.512	ok	0.512	0.452-0.572
Styrene	12.75	10.59	1.204	ok	1.204	1.144-1.264
1,1,1-Trichloroethane	4.05	3.34	1.213	ok	1.212	1.152-1.272
1,1,1,2-Tetrachloroethane	10.68	10.59	1.008	ok	1.009	0.949-1.069
1,1,2,2-Tetrachloroethane	12.98	10.59	1.226	ok	1.227	1.167-1.287
1,1,2-Trichloroethane	7.23	4.73	1.529	ok	1.528	1.468-1.588
1,2,4-Trichlorobenzene	18.48	10.59	1.745	ok	1.746	1.686-1.806
1,2,3-Trichloropropane	13.27	10.59	1.253	ok	1.253	1.193-1.313
1,2,3-Trimethylbenzene	17.18	10.59	1.622	ok	1.623	1.563-1.683
1,2,4-Trimethylbenzene	16.80	10.59	1.586	ok	1.587	1.527-1.647
1,3,5-Trimethylbenzene	16.35	10.59	1.544	ok	1.545	1.485-1.605
2,2,4-Trimethylpentane	5.45	4.73	1.152	ok	1.151	1.091-1.211
Tertiary Butyl Alcohol	2.40	3.34	0.719	ok	0.719	0.659-0.779
Tetrachloroethylene	9.41	4.73	1.989	ok	1.989	1.929-2.049
Tetrahydrofuran	3.65	3.34	1.093	ok	1.094	1.034-1.154
Toluene	7.62	4.73	1.611	ok	1.609	1.549-1.669
Trichloroethylene	5.35	4.73	1.131	ok	1.130	1.070-1.190
Trichlorofluoromethane	2.19	3.34	0.656	ok	0.656	0.596-0.716
Vinyl chloride	1.83	3.34	0.548	ok	0.548	0.488-0.608
Vinyl Acetate	2.93	3.34	0.877	ok	0.877	0.817-0.937
m,p-Xylene	12.01	10.59	1.134	ok	1.135	1.075-1.195
o-Xylene	12.96	10.59	1.224	ok	1.224	1.164-1.284

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.34	ok	3.34	3.01-3.67	50236	ok	48058	28835-67281
1,4-Difluorobenzene	4.73	ok	4.73	4.40-5.06	248131	ok	240724	144434-337014
Chlorobenzene-D5	10.59	ok	10.59	10.26-10.92	216051	ok	213567	128140-298994

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V6W1125-IC1125	6W26448.D	10/19/22 19:10	TCH	0.04	GCMS6W	TO-15	
V6W1125-IC1125	6W26449.D	10/19/22 19:43	TCH	0.1	GCMS6W	TO-15	
V6W1125-IC1125	6W26450.D	10/19/22 20:15	TCH	0.2	GCMS6W	TO-15	
V6W1125-IC1125	6W26451.D	10/19/22 20:47	TCH	0.5	GCMS6W	TO-15	
V6W1125-IC1125	6W26453.D	10/19/22 21:52	TCH	5	GCMS6W	TO-15	
V6W1125-ICC1125	6W26454.D	10/19/22 22:25	TCH	10	GCMS6W	TO-15	
V6W1125-IC1125	6W26455.D	10/19/22 22:57	TCH	20	GCMS6W	TO-15	Reporting this level
V6W1125-IC1125	6W26456.D	10/19/22 23:29	TCH	40	GCMS6W	TO-15	
V6W1125-IC1125	6W26457.D	10/20/22 00:03	TCH	50	GCMS6W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	2.14	3.34	0.641	ok	0.641	0.581-0.701
Acrolein	2.10	3.34	0.629	ok	0.629	0.569-0.689
Acrylonitrile	2.27	3.34	0.680	ok	0.680	0.620-0.740
Acetonitrile	2.07	3.34	0.620	ok	0.618	0.558-0.678
1,3-Butadiene	1.87	3.34	0.560	ok	0.559	0.499-0.619
Benzene	4.38	3.34	1.311	ok	1.312	1.252-1.372
Bromobenzene	14.38	10.59	1.358	ok	1.358	1.298-1.418
Bromodichloromethane	5.30	4.74	1.118	ok	1.119	1.059-1.179
Bromoform	11.83	10.59	1.117	ok	1.117	1.057-1.177
Bromomethane	1.94	3.34	0.581	ok	0.579	0.519-0.639
Bromoethene	2.07	3.34	0.620	ok	0.620	0.560-0.680
n-Butane	1.88	3.34	0.563	ok	0.563	0.503-0.623
Benzyl Chloride	16.89	10.59	1.595	ok	1.595	1.535-1.655
n-Butylbenzene	17.59	10.59	1.661	ok	1.661	1.601-1.721
sec-Butylbenzene	17.07	10.59	1.612	ok	1.613	1.553-1.673
tert-Butylbenzene	16.80	10.59	1.586	ok	1.587	1.527-1.647
Carbon disulfide	2.52	3.34	0.754	ok	0.754	0.694-0.814
Chlorobenzene	10.67	10.59	1.008	ok	1.008	0.948-1.068
Chlorodifluoromethane	1.71	3.34	0.512	ok	0.511	0.451-0.571
Chloroethane	1.98	3.34	0.593	ok	0.593	0.533-0.653
Chlorotrifluoroethene	1.72	3.34	0.515	ok	0.513	0.453-0.573
Chloroform	3.42	3.34	1.024	ok	1.024	0.964-1.084
Chloromethane	1.77	3.34	0.530	ok	0.531	0.471-0.591
3-Chloropropene	2.46	3.34	0.737	ok	0.737	0.677-0.797
2-Chlorotoluene	15.52	10.59	1.466	ok	1.466	1.406-1.526
Carbon tetrachloride	4.51	3.34	1.350	ok	1.348	1.288-1.408
Cyclohexane	4.61	4.74	0.973	ok	0.973	0.913-1.033
1,1-Dichloroethane	2.86	3.34	0.856	ok	0.854	0.794-0.914
1,1-Dichloroethylene	2.38	3.34	0.713	ok	0.713	0.653-0.773
1,2-Dibromoethane (EDB)	8.54	4.74	1.802	ok	1.803	1.743-1.863
1,2-Dichloroethane	3.87	3.34	1.159	ok	1.158	1.098-1.218
1,2-Dichloropropane	5.10	4.74	1.076	ok	1.078	1.018-1.138
1,3-Dichloropropane	7.68	4.74	1.620	ok	1.623	1.563-1.683
1,4-Dioxane	5.36	4.74	1.131	ok	1.136	1.076-1.196
Dichlorodifluoromethane	1.73	3.34	0.518	ok	0.518	0.458-0.578
Dichlorofluoromethane	2.00	3.34	0.599	ok	0.599	0.539-0.659
Dibromochloromethane	8.19	4.74	1.728	ok	1.729	1.669-1.789
Dibromomethane	5.06	4.74	1.068	ok	1.068	1.008-1.128
trans-1,2-Dichloroethylene	2.77	3.34	0.829	ok	0.829	0.769-0.889

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V6W1125-IC1125	6W26448.D	10/19/22 19:10	TCH	0.04	GCMS6W	TO-15	
V6W1125-IC1125	6W26449.D	10/19/22 19:43	TCH	0.1	GCMS6W	TO-15	
V6W1125-IC1125	6W26450.D	10/19/22 20:15	TCH	0.2	GCMS6W	TO-15	
V6W1125-IC1125	6W26451.D	10/19/22 20:47	TCH	0.5	GCMS6W	TO-15	
V6W1125-IC1125	6W26453.D	10/19/22 21:52	TCH	5	GCMS6W	TO-15	
V6W1125-ICC1125	6W26454.D	10/19/22 22:25	TCH	10	GCMS6W	TO-15	
V6W1125-IC1125	6W26455.D	10/19/22 22:57	TCH	20	GCMS6W	TO-15	Reporting this level
V6W1125-IC1125	6W26456.D	10/19/22 23:29	TCH	40	GCMS6W	TO-15	
V6W1125-IC1125	6W26457.D	10/20/22 00:03	TCH	50	GCMS6W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
cis-1,2-Dichloroethylene	3.26	3.34	0.976	ok	0.973	0.913-1.033
cis-1,3-Dichloropropene	6.35	4.74	1.340	ok	1.341	1.281-1.401
m-Dichlorobenzene	16.87	10.59	1.593	ok	1.593	1.533-1.653
o-Dichlorobenzene	17.23	10.59	1.627	ok	1.628	1.568-1.688
p-Dichlorobenzene	16.95	10.59	1.601	ok	1.601	1.541-1.661
trans-1,3-Dichloropropene	7.07	4.74	1.492	ok	1.492	1.432-1.552
Di-Isopropyl ether	3.40	3.34	1.018	ok	1.018	0.958-1.078
2,3-Dimethylpentane	4.88	4.74	1.030	ok	1.030	0.970-1.090
2,4-Dimethylpentane	3.96	3.34	1.186	ok	1.186	1.126-1.246
Ethanol	2.01	3.34	0.602	ok	0.601	0.541-0.661
Ethylbenzene	11.57	10.59	1.093	ok	1.093	1.033-1.153
Ethyl Acetate	3.41	3.34	1.021	ok	1.021	0.961-1.081
Ethyl Acrylate	5.23	4.74	1.103	ok	1.106	1.046-1.166
4-Ethyltoluene	16.21	10.59	1.531	ok	1.531	1.471-1.591
Freon 113	2.52	3.34	0.754	ok	0.754	0.694-0.814
Freon 114	1.80	3.34	0.539	ok	0.539	0.479-0.599
Freon 123	2.12	3.34	0.635	ok	0.634	0.574-0.694
Freon 123A	2.13	3.34	0.638	ok	0.638	0.578-0.698
Freon 142B	1.77	3.34	0.530	ok	0.530	0.470-0.590
Freon 152A	1.69	3.34	0.506	ok	0.506	0.446-0.566
Heptane	5.79	4.74	1.222	ok	1.222	1.162-1.282
Hexachlorobutadiene	18.78	10.59	1.773	ok	1.774	1.714-1.834
Hexachloroethane	17.77	10.59	1.678	ok	1.678	1.618-1.738
Hexane	3.40	3.34	1.018	ok	1.016	0.956-1.076
2-Hexanone	8.21	4.74	1.732	ok	1.737	1.677-1.797
Iodomethane	2.36	3.34	0.707	ok	0.706	0.646-0.766
Isopropylbenzene	14.50	10.59	1.369	ok	1.370	1.310-1.430
Isopropyl Alcohol	2.21	3.34	0.662	ok	0.662	0.602-0.722
p-Isopropyltoluene	17.25	10.59	1.629	ok	1.629	1.569-1.689
Methylene chloride	2.42	3.34	0.725	ok	0.725	0.665-0.785
Methyl ethyl ketone	3.04	3.34	0.910	ok	0.911	0.851-0.971
Methyl Isobutyl Ketone	6.46	4.74	1.363	ok	1.367	1.307-1.427
Methyl Tert Butyl Ether	2.89	3.34	0.865	ok	0.865	0.805-0.925
Methylmethacrylate	5.68	4.74	1.198	ok	1.201	1.141-1.261
Naphthalene	18.53	10.59	1.750	ok	1.750	1.690-1.810
Nonane	14.09	10.59	1.331	ok	1.331	1.271-1.391
Octane	9.56	4.74	2.017	ok	2.020	1.960-2.080
Pentane	2.30	3.34	0.689	ok	0.689	0.629-0.749
n-Propylbenzene	15.86	10.59	1.498	ok	1.498	1.438-1.558

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V6W1125-IC1125	6W26448.D	10/19/22 19:10	TCH	0.04	GCMS6W	TO-15	
V6W1125-IC1125	6W26449.D	10/19/22 19:43	TCH	0.1	GCMS6W	TO-15	
V6W1125-IC1125	6W26450.D	10/19/22 20:15	TCH	0.2	GCMS6W	TO-15	
V6W1125-IC1125	6W26451.D	10/19/22 20:47	TCH	0.5	GCMS6W	TO-15	
V6W1125-IC1125	6W26453.D	10/19/22 21:52	TCH	5	GCMS6W	TO-15	
V6W1125-ICC1125	6W26454.D	10/19/22 22:25	TCH	10	GCMS6W	TO-15	
V6W1125-IC1125	6W26455.D	10/19/22 22:57	TCH	20	GCMS6W	TO-15	Reporting this level
V6W1125-IC1125	6W26456.D	10/19/22 23:29	TCH	40	GCMS6W	TO-15	
V6W1125-IC1125	6W26457.D	10/20/22 00:03	TCH	50	GCMS6W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Propylene	1.71	3.34	0.512	ok	0.512	0.452-0.572
Styrene	12.75	10.59	1.204	ok	1.204	1.144-1.264
1,1,1-Trichloroethane	4.05	3.34	1.213	ok	1.212	1.152-1.272
1,1,1,2-Tetrachloroethane	10.68	10.59	1.008	ok	1.009	0.949-1.069
1,1,2,2-Tetrachloroethane	12.99	10.59	1.227	ok	1.227	1.167-1.287
1,1,2-Trichloroethane	7.23	4.74	1.525	ok	1.528	1.468-1.588
1,2,4-Trichlorobenzene	18.48	10.59	1.745	ok	1.746	1.686-1.806
1,2,3-Trichloropropane	13.27	10.59	1.253	ok	1.253	1.193-1.313
1,2,3-Trimethylbenzene	17.18	10.59	1.622	ok	1.623	1.563-1.683
1,2,4-Trimethylbenzene	16.81	10.59	1.587	ok	1.587	1.527-1.647
1,3,5-Trimethylbenzene	16.35	10.59	1.544	ok	1.545	1.485-1.605
2,2,4-Trimethylpentane	5.45	4.74	1.150	ok	1.151	1.091-1.211
Tertiary Butyl Alcohol	2.40	3.34	0.719	ok	0.719	0.659-0.779
Tetrachloroethylene	9.42	4.74	1.987	ok	1.989	1.929-2.049
Tetrahydrofuran	3.65	3.34	1.093	ok	1.094	1.034-1.154
Toluene	7.62	4.74	1.608	ok	1.609	1.549-1.669
Trichloroethylene	5.35	4.74	1.129	ok	1.130	1.070-1.190
Trichlorofluoromethane	2.19	3.34	0.656	ok	0.656	0.596-0.716
Vinyl chloride	1.83	3.34	0.548	ok	0.548	0.488-0.608
Vinyl Acetate	2.93	3.34	0.877	ok	0.877	0.817-0.937
m,p-Xylene	12.01	10.59	1.134	ok	1.135	1.075-1.195
o-Xylene	12.97	10.59	1.225	ok	1.224	1.164-1.284

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.34	ok	3.34	3.01-3.67	49377	ok	48058	28835-67281
1,4-Difluorobenzene	4.74	ok	4.73	4.40-5.06	249392	ok	240724	144434-337014
Chlorobenzene-D5	10.59	ok	10.59	10.26-10.92	219656	ok	213567	128140-298994

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V6W1125-IC1125	6W26448.D	10/19/22 19:10	TCH	0.04	GCMS6W	TO-15	
V6W1125-IC1125	6W26449.D	10/19/22 19:43	TCH	0.1	GCMS6W	TO-15	
V6W1125-IC1125	6W26450.D	10/19/22 20:15	TCH	0.2	GCMS6W	TO-15	
V6W1125-IC1125	6W26451.D	10/19/22 20:47	TCH	0.5	GCMS6W	TO-15	
V6W1125-IC1125	6W26453.D	10/19/22 21:52	TCH	5	GCMS6W	TO-15	
V6W1125-ICC1125	6W26454.D	10/19/22 22:25	TCH	10	GCMS6W	TO-15	
V6W1125-IC1125	6W26455.D	10/19/22 22:57	TCH	20	GCMS6W	TO-15	
V6W1125-IC1125	6W26456.D	10/19/22 23:29	TCH	40	GCMS6W	TO-15	Reporting this level
V6W1125-IC1125	6W26457.D	10/20/22 00:03	TCH	50	GCMS6W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	2.14	3.34	0.641	ok	0.641	0.581-0.701
Acrolein	2.10	3.34	0.629	ok	0.629	0.569-0.689
Acrylonitrile	2.27	3.34	0.680	ok	0.680	0.620-0.740
Acetonitrile	2.06	3.34	0.617	ok	0.618	0.558-0.678
1,3-Butadiene	1.86	3.34	0.557	ok	0.559	0.499-0.619
Benzene	4.38	3.34	1.311	ok	1.312	1.252-1.372
Bromobenzene	14.39	10.59	1.359	ok	1.358	1.298-1.418
Bromodichloromethane	5.30	4.74	1.118	ok	1.119	1.059-1.179
Bromoform	11.84	10.59	1.118	ok	1.117	1.057-1.177
Bromomethane	1.93	3.34	0.578	ok	0.579	0.519-0.639
Bromoethene	2.07	3.34	0.620	ok	0.620	0.560-0.680
n-Butane	1.88	3.34	0.563	ok	0.563	0.503-0.623
Benzyl Chloride	16.89	10.59	1.595	ok	1.595	1.535-1.655
n-Butylbenzene	17.59	10.59	1.661	ok	1.661	1.601-1.721
sec-Butylbenzene	17.07	10.59	1.612	ok	1.613	1.553-1.673
tert-Butylbenzene	16.81	10.59	1.587	ok	1.587	1.527-1.647
Carbon disulfide	2.52	3.34	0.754	ok	0.754	0.694-0.814
Chlorobenzene	10.67	10.59	1.008	ok	1.008	0.948-1.068
Chlorodifluoromethane	1.70	3.34	0.509	ok	0.511	0.451-0.571
Chloroethane	1.98	3.34	0.593	ok	0.593	0.533-0.653
Chlorotrifluoroethene	1.71	3.34	0.512	ok	0.513	0.453-0.573
Chloroform	3.42	3.34	1.024	ok	1.024	0.964-1.084
Chloromethane	1.77	3.34	0.530	ok	0.531	0.471-0.591
3-Chloropropene	2.46	3.34	0.737	ok	0.737	0.677-0.797
2-Chlorotoluene	15.53	10.59	1.466	ok	1.466	1.406-1.526
Carbon tetrachloride	4.50	3.34	1.347	ok	1.348	1.288-1.408
Cyclohexane	4.60	4.74	0.970	ok	0.973	0.913-1.033
1,1-Dichloroethane	2.85	3.34	0.853	ok	0.854	0.794-0.914
1,1-Dichloroethylene	2.38	3.34	0.713	ok	0.713	0.653-0.773
1,2-Dibromoethane (EDB)	8.55	4.74	1.804	ok	1.803	1.743-1.863
1,2-Dichloroethane	3.87	3.34	1.159	ok	1.158	1.098-1.218
1,2-Dichloropropane	5.10	4.74	1.076	ok	1.078	1.018-1.138
1,3-Dichloropropane	7.69	4.74	1.622	ok	1.623	1.563-1.683
1,4-Dioxane	5.37	4.74	1.133	ok	1.136	1.076-1.196
Dichlorodifluoromethane	1.73	3.34	0.518	ok	0.518	0.458-0.578
Dichlorofluoromethane	2.00	3.34	0.599	ok	0.599	0.539-0.659
Dibromochloromethane	8.19	4.74	1.728	ok	1.729	1.669-1.789
Dibromomethane	5.06	4.74	1.068	ok	1.068	1.008-1.128
trans-1,2-Dichloroethylene	2.77	3.34	0.829	ok	0.829	0.769-0.889

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V6W1125-IC1125	6W26448.D	10/19/22 19:10	TCH	0.04	GCMS6W	TO-15	
V6W1125-IC1125	6W26449.D	10/19/22 19:43	TCH	0.1	GCMS6W	TO-15	
V6W1125-IC1125	6W26450.D	10/19/22 20:15	TCH	0.2	GCMS6W	TO-15	
V6W1125-IC1125	6W26451.D	10/19/22 20:47	TCH	0.5	GCMS6W	TO-15	
V6W1125-IC1125	6W26453.D	10/19/22 21:52	TCH	5	GCMS6W	TO-15	
V6W1125-ICC1125	6W26454.D	10/19/22 22:25	TCH	10	GCMS6W	TO-15	
V6W1125-IC1125	6W26455.D	10/19/22 22:57	TCH	20	GCMS6W	TO-15	
V6W1125-IC1125	6W26456.D	10/19/22 23:29	TCH	40	GCMS6W	TO-15	Reporting this level
V6W1125-IC1125	6W26457.D	10/20/22 00:03	TCH	50	GCMS6W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
cis-1,2-Dichloroethylene	3.25	3.34	0.973	ok	0.973	0.913-1.033
cis-1,3-Dichloropropene	6.35	4.74	1.340	ok	1.341	1.281-1.401
m-Dichlorobenzene	16.87	10.59	1.593	ok	1.593	1.533-1.653
o-Dichlorobenzene	17.24	10.59	1.628	ok	1.628	1.568-1.688
p-Dichlorobenzene	16.95	10.59	1.601	ok	1.601	1.541-1.661
trans-1,3-Dichloropropene	7.07	4.74	1.492	ok	1.492	1.432-1.552
Di-Isopropyl ether	3.40	3.34	1.018	ok	1.018	0.958-1.078
2,3-Dimethylpentane	4.88	4.74	1.030	ok	1.030	0.970-1.090
2,4-Dimethylpentane	3.96	3.34	1.186	ok	1.186	1.126-1.246
Ethanol	2.00	3.34	0.599	ok	0.601	0.541-0.661
Ethylbenzene	11.58	10.59	1.093	ok	1.093	1.033-1.153
Ethyl Acetate	3.41	3.34	1.021	ok	1.021	0.961-1.081
Ethyl Acrylate	5.24	4.74	1.105	ok	1.106	1.046-1.166
4-Ethyltoluene	16.21	10.59	1.531	ok	1.531	1.471-1.591
Freon 113	2.52	3.34	0.754	ok	0.754	0.694-0.814
Freon 114	1.80	3.34	0.539	ok	0.539	0.479-0.599
Freon 123	2.12	3.34	0.635	ok	0.634	0.574-0.694
Freon 123A	2.13	3.34	0.638	ok	0.638	0.578-0.698
Freon 142B	1.77	3.34	0.530	ok	0.530	0.470-0.590
Freon 152A	1.70	3.34	0.509	ok	0.506	0.446-0.566
Heptane	5.79	4.74	1.222	ok	1.222	1.162-1.282
Hexachlorobutadiene	18.78	10.59	1.773	ok	1.774	1.714-1.834
Hexachloroethane	17.77	10.59	1.678	ok	1.678	1.618-1.738
Hexane	3.39	3.34	1.015	ok	1.016	0.956-1.076
2-Hexanone	8.22	4.74	1.734	ok	1.737	1.677-1.797
Iodomethane	2.35	3.34	0.704	ok	0.706	0.646-0.766
Isopropylbenzene	14.51	10.59	1.370	ok	1.370	1.310-1.430
Isopropyl Alcohol	2.20	3.34	0.659	ok	0.662	0.602-0.722
p-Isopropyltoluene	17.25	10.59	1.629	ok	1.629	1.569-1.689
Methylene chloride	2.42	3.34	0.725	ok	0.725	0.665-0.785
Methyl ethyl ketone	3.04	3.34	0.910	ok	0.911	0.851-0.971
Methyl Isobutyl Ketone	6.46	4.74	1.363	ok	1.367	1.307-1.427
Methyl Tert Butyl Ether	2.89	3.34	0.865	ok	0.865	0.805-0.925
Methylmethacrylate	5.68	4.74	1.198	ok	1.201	1.141-1.261
Naphthalene	18.53	10.59	1.750	ok	1.750	1.690-1.810
Nonane	14.10	10.59	1.331	ok	1.331	1.271-1.391
Octane	9.57	4.74	2.019	ok	2.020	1.960-2.080
Pentane	2.30	3.34	0.689	ok	0.689	0.629-0.749
n-Propylbenzene	15.87	10.59	1.499	ok	1.498	1.438-1.558

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V6W1125-IC1125	6W26448.D	10/19/22 19:10	TCH	0.04	GCMS6W	TO-15	
V6W1125-IC1125	6W26449.D	10/19/22 19:43	TCH	0.1	GCMS6W	TO-15	
V6W1125-IC1125	6W26450.D	10/19/22 20:15	TCH	0.2	GCMS6W	TO-15	
V6W1125-IC1125	6W26451.D	10/19/22 20:47	TCH	0.5	GCMS6W	TO-15	
V6W1125-IC1125	6W26453.D	10/19/22 21:52	TCH	5	GCMS6W	TO-15	
V6W1125-ICC1125	6W26454.D	10/19/22 22:25	TCH	10	GCMS6W	TO-15	
V6W1125-IC1125	6W26455.D	10/19/22 22:57	TCH	20	GCMS6W	TO-15	
V6W1125-IC1125	6W26456.D	10/19/22 23:29	TCH	40	GCMS6W	TO-15	Reporting this level
V6W1125-IC1125	6W26457.D	10/20/22 00:03	TCH	50	GCMS6W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Propylene	1.71	3.34	0.512	ok	0.512	0.452-0.572
Styrene	12.76	10.59	1.205	ok	1.204	1.144-1.264
1,1,1-Trichloroethane	4.05	3.34	1.213	ok	1.212	1.152-1.272
1,1,1,2-Tetrachloroethane	10.69	10.59	1.009	ok	1.009	0.949-1.069
1,1,2,2-Tetrachloroethane	13.00	10.59	1.228	ok	1.227	1.167-1.287
1,1,2-Trichloroethane	7.24	4.74	1.527	ok	1.528	1.468-1.588
1,2,4-Trichlorobenzene	18.49	10.59	1.746	ok	1.746	1.686-1.806
1,2,3-Trichloropropane	13.28	10.59	1.254	ok	1.253	1.193-1.313
1,2,3-Trimethylbenzene	17.18	10.59	1.622	ok	1.623	1.563-1.683
1,2,4-Trimethylbenzene	16.81	10.59	1.587	ok	1.587	1.527-1.647
1,3,5-Trimethylbenzene	16.36	10.59	1.545	ok	1.545	1.485-1.605
2,2,4-Trimethylpentane	5.45	4.74	1.150	ok	1.151	1.091-1.211
Tertiary Butyl Alcohol	2.39	3.34	0.716	ok	0.719	0.659-0.779
Tetrachloroethylene	9.42	4.74	1.987	ok	1.989	1.929-2.049
Tetrahydrofuran	3.65	3.34	1.093	ok	1.094	1.034-1.154
Toluene	7.62	4.74	1.608	ok	1.609	1.549-1.669
Trichloroethylene	5.36	4.74	1.131	ok	1.130	1.070-1.190
Trichlorofluoromethane	2.19	3.34	0.656	ok	0.656	0.596-0.716
Vinyl chloride	1.83	3.34	0.548	ok	0.548	0.488-0.608
Vinyl Acetate	2.93	3.34	0.877	ok	0.877	0.817-0.937
m,p-Xylene	12.02	10.59	1.135	ok	1.135	1.075-1.195
o-Xylene	12.97	10.59	1.225	ok	1.224	1.164-1.284

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.34	ok	3.34	3.01-3.67	46967	ok	48058	28835-67281
1,4-Difluorobenzene	4.74	ok	4.73	4.40-5.06	253136	ok	240724	144434-337014
Chlorobenzene-D5	10.59	ok	10.59	10.26-10.92	227517	ok	213567	128140-298994

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V6W1125-IC1125	6W26448.D	10/19/22 19:10	TCH	0.04	GCMS6W	TO-15	
V6W1125-IC1125	6W26449.D	10/19/22 19:43	TCH	0.1	GCMS6W	TO-15	
V6W1125-IC1125	6W26450.D	10/19/22 20:15	TCH	0.2	GCMS6W	TO-15	
V6W1125-IC1125	6W26451.D	10/19/22 20:47	TCH	0.5	GCMS6W	TO-15	
V6W1125-IC1125	6W26453.D	10/19/22 21:52	TCH	5	GCMS6W	TO-15	
V6W1125-ICC1125	6W26454.D	10/19/22 22:25	TCH	10	GCMS6W	TO-15	
V6W1125-IC1125	6W26455.D	10/19/22 22:57	TCH	20	GCMS6W	TO-15	
V6W1125-IC1125	6W26456.D	10/19/22 23:29	TCH	40	GCMS6W	TO-15	
V6W1125-IC1125	6W26457.D	10/20/22 00:03	TCH	50	GCMS6W	TO-15	Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	2.14	3.34	0.641	ok	0.641	0.581-0.701
Acrolein	2.10	3.34	0.629	ok	0.629	0.569-0.689
Acrylonitrile	2.27	3.34	0.680	ok	0.680	0.620-0.740
Acetonitrile	2.06	3.34	0.617	ok	0.618	0.558-0.678
1,3-Butadiene	1.86	3.34	0.557	ok	0.559	0.499-0.619
Benzene	4.38	3.34	1.311	ok	1.312	1.252-1.372
Bromobenzene	14.39	10.59	1.359	ok	1.358	1.298-1.418
Bromodichloromethane	5.30	4.74	1.118	ok	1.119	1.059-1.179
Bromoform	11.84	10.59	1.118	ok	1.117	1.057-1.177
Bromomethane	1.93	3.34	0.578	ok	0.579	0.519-0.639
Bromoethene	2.07	3.34	0.620	ok	0.620	0.560-0.680
n-Butane	1.88	3.34	0.563	ok	0.563	0.503-0.623
Benzyl Chloride	16.89	10.59	1.595	ok	1.595	1.535-1.655
n-Butylbenzene	17.59	10.59	1.661	ok	1.661	1.601-1.721
sec-Butylbenzene	17.08	10.59	1.613	ok	1.613	1.553-1.673
tert-Butylbenzene	16.81	10.59	1.587	ok	1.587	1.527-1.647
Carbon disulfide	2.52	3.34	0.754	ok	0.754	0.694-0.814
Chlorobenzene	10.68	10.59	1.008	ok	1.008	0.948-1.068
Chlorodifluoromethane	1.70	3.34	0.509	ok	0.511	0.451-0.571
Chloroethane	1.98	3.34	0.593	ok	0.593	0.533-0.653
Chlorotrifluoroethene	1.71	3.34	0.512	ok	0.513	0.453-0.573
Chloroform	3.42	3.34	1.024	ok	1.024	0.964-1.084
Chloromethane	1.77	3.34	0.530	ok	0.531	0.471-0.591
3-Chloropropene	2.46	3.34	0.737	ok	0.737	0.677-0.797
2-Chlorotoluene	15.53	10.59	1.466	ok	1.466	1.406-1.526
Carbon tetrachloride	4.50	3.34	1.347	ok	1.348	1.288-1.408
Cyclohexane	4.60	4.74	0.970	ok	0.973	0.913-1.033
1,1-Dichloroethane	2.85	3.34	0.853	ok	0.854	0.794-0.914
1,1-Dichloroethylene	2.38	3.34	0.713	ok	0.713	0.653-0.773
1,2-Dibromoethane (EDB)	8.55	4.74	1.804	ok	1.803	1.743-1.863
1,2-Dichloroethane	3.87	3.34	1.159	ok	1.158	1.098-1.218
1,2-Dichloropropane	5.11	4.74	1.078	ok	1.078	1.018-1.138
1,3-Dichloropropane	7.69	4.74	1.622	ok	1.623	1.563-1.683
1,4-Dioxane	5.37	4.74	1.133	ok	1.136	1.076-1.196
Dichlorodifluoromethane	1.73	3.34	0.518	ok	0.518	0.458-0.578
Dichlorofluoromethane	2.00	3.34	0.599	ok	0.599	0.539-0.659
Dibromochloromethane	8.19	4.74	1.728	ok	1.729	1.669-1.789
Dibromomethane	5.06	4.74	1.068	ok	1.068	1.008-1.128
trans-1,2-Dichloroethylene	2.77	3.34	0.829	ok	0.829	0.769-0.889

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V6W1125-IC1125	6W26448.D	10/19/22 19:10	TCH	0.04	GCMS6W	TO-15	
V6W1125-IC1125	6W26449.D	10/19/22 19:43	TCH	0.1	GCMS6W	TO-15	
V6W1125-IC1125	6W26450.D	10/19/22 20:15	TCH	0.2	GCMS6W	TO-15	
V6W1125-IC1125	6W26451.D	10/19/22 20:47	TCH	0.5	GCMS6W	TO-15	
V6W1125-IC1125	6W26453.D	10/19/22 21:52	TCH	5	GCMS6W	TO-15	
V6W1125-ICC1125	6W26454.D	10/19/22 22:25	TCH	10	GCMS6W	TO-15	
V6W1125-IC1125	6W26455.D	10/19/22 22:57	TCH	20	GCMS6W	TO-15	
V6W1125-IC1125	6W26456.D	10/19/22 23:29	TCH	40	GCMS6W	TO-15	
V6W1125-IC1125	6W26457.D	10/20/22 00:03	TCH	50	GCMS6W	TO-15	Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
cis-1,2-Dichloroethylene	3.25	3.34	0.973	ok	0.973	0.913-1.033
cis-1,3-Dichloropropene	6.35	4.74	1.340	ok	1.341	1.281-1.401
m-Dichlorobenzene	16.87	10.59	1.593	ok	1.593	1.533-1.653
o-Dichlorobenzene	17.24	10.59	1.628	ok	1.628	1.568-1.688
p-Dichlorobenzene	16.95	10.59	1.601	ok	1.601	1.541-1.661
trans-1,3-Dichloropropene	7.07	4.74	1.492	ok	1.492	1.432-1.552
Di-Isopropyl ether	3.40	3.34	1.018	ok	1.018	0.958-1.078
2,3-Dimethylpentane	4.88	4.74	1.030	ok	1.030	0.970-1.090
2,4-Dimethylpentane	3.96	3.34	1.186	ok	1.186	1.126-1.246
Ethanol	2.00	3.34	0.599	ok	0.601	0.541-0.661
Ethylbenzene	11.58	10.59	1.093	ok	1.093	1.033-1.153
Ethyl Acetate	3.41	3.34	1.021	ok	1.021	0.961-1.081
Ethyl Acrylate	5.24	4.74	1.105	ok	1.106	1.046-1.166
4-Ethyltoluene	16.21	10.59	1.531	ok	1.531	1.471-1.591
Freon 113	2.52	3.34	0.754	ok	0.754	0.694-0.814
Freon 114	1.80	3.34	0.539	ok	0.539	0.479-0.599
Freon 123	2.11	3.34	0.632	ok	0.634	0.574-0.694
Freon 123A	2.13	3.34	0.638	ok	0.638	0.578-0.698
Freon 142B	1.77	3.34	0.530	ok	0.530	0.470-0.590
Freon 152A	1.69	3.34	0.506	ok	0.506	0.446-0.566
Heptane	5.78	4.74	1.219	ok	1.222	1.162-1.282
Hexachlorobutadiene	18.78	10.59	1.773	ok	1.774	1.714-1.834
Hexachloroethane	17.77	10.59	1.678	ok	1.678	1.618-1.738
Hexane	3.39	3.34	1.015	ok	1.016	0.956-1.076
2-Hexanone	8.22	4.74	1.734	ok	1.737	1.677-1.797
Iodomethane	2.35	3.34	0.704	ok	0.706	0.646-0.766
Isopropylbenzene	14.51	10.59	1.370	ok	1.370	1.310-1.430
Isopropyl Alcohol	2.20	3.34	0.659	ok	0.662	0.602-0.722
p-Isopropyltoluene	17.25	10.59	1.629	ok	1.629	1.569-1.689
Methylene chloride	2.42	3.34	0.725	ok	0.725	0.665-0.785
Methyl ethyl ketone	3.04	3.34	0.910	ok	0.911	0.851-0.971
Methyl Isobutyl Ketone	6.47	4.74	1.365	ok	1.367	1.307-1.427
Methyl Tert Butyl Ether	2.89	3.34	0.865	ok	0.865	0.805-0.925
Methylmethacrylate	5.69	4.74	1.200	ok	1.201	1.141-1.261
Naphthalene	18.53	10.59	1.750	ok	1.750	1.690-1.810
Nonane	14.11	10.59	1.332	ok	1.331	1.271-1.391
Octane	9.57	4.74	2.019	ok	2.020	1.960-2.080
Pentane	2.30	3.34	0.689	ok	0.689	0.629-0.749
n-Propylbenzene	15.87	10.59	1.499	ok	1.498	1.438-1.558

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V6W1125-IC1125	6W26448.D	10/19/22 19:10	TCH	0.04	GCMS6W	TO-15	
V6W1125-IC1125	6W26449.D	10/19/22 19:43	TCH	0.1	GCMS6W	TO-15	
V6W1125-IC1125	6W26450.D	10/19/22 20:15	TCH	0.2	GCMS6W	TO-15	
V6W1125-IC1125	6W26451.D	10/19/22 20:47	TCH	0.5	GCMS6W	TO-15	
V6W1125-IC1125	6W26453.D	10/19/22 21:52	TCH	5	GCMS6W	TO-15	
V6W1125-ICC1125	6W26454.D	10/19/22 22:25	TCH	10	GCMS6W	TO-15	
V6W1125-IC1125	6W26455.D	10/19/22 22:57	TCH	20	GCMS6W	TO-15	
V6W1125-IC1125	6W26456.D	10/19/22 23:29	TCH	40	GCMS6W	TO-15	
V6W1125-IC1125	6W26457.D	10/20/22 00:03	TCH	50	GCMS6W	TO-15	Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT		Mean Rel RT	Rel RT Range (+ /- .06)
Propylene	1.71	3.34	0.512	ok	0.512	0.452-0.572
Styrene	12.76	10.59	1.205	ok	1.204	1.144-1.264
1,1,1-Trichloroethane	4.05	3.34	1.213	ok	1.212	1.152-1.272
1,1,1,2-Tetrachloroethane	10.69	10.59	1.009	ok	1.009	0.949-1.069
1,1,2,2-Tetrachloroethane	13.00	10.59	1.228	ok	1.227	1.167-1.287
1,1,2-Trichloroethane	7.24	4.74	1.527	ok	1.528	1.468-1.588
1,2,4-Trichlorobenzene	18.49	10.59	1.746	ok	1.746	1.686-1.806
1,2,3-Trichloropropane	13.29	10.59	1.255	ok	1.253	1.193-1.313
1,2,3-Trimethylbenzene	17.19	10.59	1.623	ok	1.623	1.563-1.683
1,2,4-Trimethylbenzene	16.81	10.59	1.587	ok	1.587	1.527-1.647
1,3,5-Trimethylbenzene	16.36	10.59	1.545	ok	1.545	1.485-1.605
2,2,4-Trimethylpentane	5.45	4.74	1.150	ok	1.151	1.091-1.211
Tertiary Butyl Alcohol	2.39	3.34	0.716	ok	0.719	0.659-0.779
Tetrachloroethylene	9.42	4.74	1.987	ok	1.989	1.929-2.049
Tetrahydrofuran	3.65	3.34	1.093	ok	1.094	1.034-1.154
Toluene	7.62	4.74	1.608	ok	1.609	1.549-1.669
Trichloroethylene	5.35	4.74	1.129	ok	1.130	1.070-1.190
Trichlorofluoromethane	2.19	3.34	0.656	ok	0.656	0.596-0.716
Vinyl chloride	1.83	3.34	0.548	ok	0.548	0.488-0.608
Vinyl Acetate	2.93	3.34	0.877	ok	0.877	0.817-0.937
m,p-Xylene	12.02	10.59	1.135	ok	1.135	1.075-1.195
o-Xylene	12.97	10.59	1.225	ok	1.224	1.164-1.284

Internal Standard	RT (min.)		Mean RT(min.)	RT Range (+ /- 0.33)	Area		Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.34	ok	3.34	3.01-3.67	49484	ok	48058	28835-67281
1,4-Difluorobenzene	4.74	ok	4.73	4.40-5.06	256894	ok	240724	144434-337014
Chlorobenzene-D5	10.59	ok	10.59	10.26-10.92	229830	ok	213567	128140-298994

Surrogate Recovery Summary

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Method: TO-15 **Matrix:** AIR

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1
JD54338-1	6W26868.D	97
JD54338-1	6W26841.D	99
JD54338-2	6W26842.D	98
JD53652-1DUP	6W26834.D	99
JD54423-15DUP	6W26872.D	99
V2W2734-SCC	2W61625.D	93
V6W1083-SCC	6W25452.D	93
V6W1137-BS	6W26824.D	101
V6W1137-BSD	6W26825.D	102
V6W1137-MB	6W26830.D	98
V6W1138-BS	6W26864.D	102
V6W1138-BSD	6W26865.D	100
V6W1138-MB	6W26867.D	98
V2W2734-BS	2W61612.D	101
V2W2734-BSD	2W61613.D	100
V2W2734-MB	2W61615.D	96
V6W1083-BS	6W25440.D	96
V6W1083-BSD	6W25441.D	96
V6W1083-MB	6W25444.D	94

Surrogate Compounds	Recovery Limits
S1 = 4-Bromofluorobenzene	65-128%

Initial Calibration Summary

Job Number: JD54338 **Sample:** V2W2709-ICC2709
Account: ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2W61016.D
Project: EPT, Ithaca, NY

Response Factor Report MS2W

Method : C:\msdchem\1\METHODS\M2W2709.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
Last Update : Wed Aug 24 16:16:55 2022
Response via : Initial Calibration

Calibration Files
0.5 =2w61013.D 0.2 =2w61012.D 40 =2w61018.D 0.04=2w61010.D
5 =2w61015.D 10 =2w61016.D 20 =2w61017.D 0.1 =2w61011.D
50 =2w61019.D =

Compound	0.5	0.2	40	0.04	5	10	20	0.1	50	Avg	%RSD
1) I BROMOCHLOROMETHANE	----------ISTD----------										
2) FREON 115										0.000	-1.00
3) FREON 152A	0.838	0.825	0.806	0.879	0.869	0.830	0.863	0.815		0.841	3.17
4) CHLORODIFLUOROMETHANE	0.372	0.363	0.362	0.399	0.399	0.373	0.348	0.372		0.373	4.71
5) CHLOROTRIFLUOROETHENE	2.153	2.129	2.081	2.302	2.239	2.145	2.142	2.092		2.160	3.44
6) DICHLORODIFLUOROMETHANE	4.762	4.819	4.906	5.202	5.120	4.926	5.171	4.897		4.975	3.35
7) PROPYLENE	0.914	0.967	0.834	0.972	0.928	0.871	1.162	0.865		0.939	10.91
8) 1-CHLORO-1,1-DIFLUOROETHANE	3.571	3.624	3.719	3.900	3.869	3.704	3.759	3.819		3.746	3.06
9) FREON 114	4.333	4.434	4.426	4.704	4.590	4.410	4.427	4.525		4.481	2.65
10) CHLOROMETHANE	0.506	0.550	0.451	0.514	0.494	0.470	0.572	0.452		0.501	8.74
11) VINYL CHLORIDE	1.663	1.686	1.644	1.860	1.810	1.702	1.894	1.665		1.740	5.66
12) 1,3-BUTADIENE	1.366	1.370	1.281	1.439	1.397	1.310	1.299	1.289		1.344	4.28
13) N-BUTANE	2.269	2.553	2.107	2.376	2.259	2.147	2.874	2.138		2.340	11.13
14) BROMOMETHANE	1.503	1.613	1.479	1.640	1.587	1.512	1.744	1.500		1.572	5.81
15) CHLOROETHANE	0.903	0.856	0.907	1.013	0.976	0.923	0.968	0.902		0.931	5.44
16) DICHLOROFLUOROMETHANE	3.598	3.694	3.583	3.922	3.830	3.629	3.741	3.638		3.704	3.24
17) ACETONITRILE	1.365	1.494	1.251	1.429	1.376	1.297	1.656	1.264		1.391	9.73
18) ACROLEIN	0.319	0.337	0.744	0.842	0.810	0.772	0.330	0.758		0.614	38.79
19) FREON 123	3.923	3.981	4.088	4.370	4.246	4.078	4.038	4.209		4.117	3.60
20) FREON 123A	2.244	2.227	2.340	2.508	2.458	2.356	2.519	2.399		2.381	4.67
21) TRICHLOROFLUOROMETHANE	4.929	4.902	5.160	5.621	5.405	5.201	4.954	5.246		5.177	4.86
22) ISOPROPYL ALCOHOL	4.300	4.269	3.712	4.118	3.969	3.743	5.126	3.820		4.132	11.16
23) ACETONE											

	1.566	1.798	1.023	1.159	1.103	1.038	1.821	1.034	1.318	26.64
24)	PENTANE									
	2.200	2.462	2.047	2.324	2.206	2.070	2.693	2.112	2.264	9.77
25)	IODOMETHANE									
	4.826	4.903	4.952	5.421	5.220	4.997	5.092	5.077	5.061	3.75
26)	1,1-DICHLOROETHYLENE									
	1.840	1.956	1.925	2.169	2.055	1.953	2.020	1.978	1.987	4.91
27)	CARBON DISULFIDE									
	5.500	5.433	6.228	6.322	6.234	6.009	5.668	6.481	5.984	6.69
28)	ETHANOL									
	0.938	1.040	0.635	0.703	0.683	0.640	1.231	0.638	0.813	28.02
29)	BROMOETHENE									
	1.567	1.573	1.591	1.739	1.702	1.612	1.461	1.603	1.606	5.30
30)	ACRYLONITRILE									
	1.532	1.618	1.471	1.706	1.642	1.514	1.508	1.496	1.561	5.35
31)	METHYLENE CHLORIDE									
	2.181	2.729	1.734	2.004	1.907	1.773	3.559	1.755	2.205	28.94
32)	3-CHLOROPROPENE									
	1.089	1.098	0.947	1.054	1.007	0.955	1.032	0.974	1.020	5.73
33)	FREON 113									
	3.110	3.182	3.390	3.562	3.457	3.346	3.225	3.519	3.349	4.89
34)	TRANS-1,2-DICHLOROETHENE									
	1.598	1.652	1.617	1.790	1.709	1.623	1.626	1.623	1.655	3.87
35)	TERTIARY BUTYL ALCOHOL									
	4.966	5.245	5.039	5.455	5.245	5.002	5.464	5.234	5.206	3.70
36)	METHYL TERTIARY BUTYL ETHER									
	4.108	4.159	4.200	4.533	4.346	4.204	4.399	4.339	4.286	3.32
37)	TETRAHYDROFURAN									
	0.701	0.710	0.734	0.821	0.801	0.754	0.522	0.740	0.723	12.60
38)	HEXANE									
	2.686	2.707	2.983	3.064	2.974	2.883	2.733	3.087	2.890	5.61
39)	VINYL ACETATE									
	0.394	0.330	0.442	0.438	0.451	0.444	0.310	0.449	0.407	14.02
40)	1,1-DICHLOROETHANE									
	2.855	3.072	2.888	3.174	3.050	2.919	2.786	2.946	2.961	4.32
41)	METHYL ETHYL KETONE									
	0.705	0.708	0.754	0.840	0.800	0.775	0.541	0.768	0.736	12.32
42)	CIS-1,2-DICHLOROETHENE									
	1.764	1.801	1.686	1.898	1.824	1.751	1.766	1.722	1.776	3.66
43)	DIISOPROPYL ETHER									
	0.751	0.796	0.884	0.896	0.872	0.856	0.797	0.918	0.846	6.91
44)	ETHYL ACETATE									
	0.516	0.501	0.624	0.641	0.616	0.602		0.646	0.592	9.99
45)	METHYL ACRYLATE									
	3.029	2.824	3.666	3.700	3.647	3.541	2.972	3.806	3.398	11.44
46)	CHLOROFORM									
	3.475	3.504	3.589	3.867	3.695	3.565	3.587	3.673	3.619	3.44
47)	2,4-DIMETHYLPENTANE									
	3.337	3.430	3.242	3.600	3.413	3.267	3.345	3.303	3.367	3.39
48)	1,1,1-TRICHLOROETHANE									
	3.364	3.500	3.611	3.841	3.752	3.656	3.447	3.706	3.609	4.50
49)	CARBON TETRACHLORIDE									
	3.168	3.172	3.789	3.823	3.833	3.765	3.166	3.894	3.576	9.49
50)	1,2-DICHLOROETHANE									
	2.487	2.397	2.374	2.626	2.541	2.417	2.316	2.454	2.451	4.03
51)	BENZENE									
	5.070	5.326	4.919	5.498	5.233	5.030	5.280	4.976	5.167	3.86
52)	I 1,4-DIFLUOROBENZENE	----------	ISTD	----------						
53)	CYCLOHEXANE									

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          0.413 0.424 0.411       0.449 0.433 0.413 0.416 0.418   0.422    3.07
54)  2,3-DIMETHYLPENTANE
          0.204 0.196 0.207       0.222 0.215 0.206 0.195 0.212   0.207    4.37
55)  TRICHLOROETHENE
          0.425 0.404 0.447 0.320 0.470 0.457 0.442 0.394 0.457   0.424   10.95
56)  1,2-DICHLOROPROPANE
          0.373 0.374 0.377       0.402 0.387 0.374 0.383 0.383   0.382    2.57
57)  DIBROMOMETHANE
          0.444 0.444 0.423       0.448 0.432 0.419 0.449 0.429   0.436    2.71
58)  ETHYL ACRYLATE
          0.578 0.569 0.802       0.813 0.790 0.773 0.587 0.827   0.717   16.27
59)  BROMODICHLOROMETHANE
          0.630 0.616 0.749       0.748 0.747 0.729 0.617 0.763   0.700    9.43
60)  2,2,4-TRIMETHYLPENTANE
          1.662 1.696 1.665       1.773 1.700 1.631 1.683 1.706   1.689    2.47
61)  1,4-DIOXANE
          0.201 0.172 0.211       0.219 0.210 0.206       0.215   0.205    7.62
62)  HEPTANE
          0.497 0.540 0.529       0.557 0.532 0.512 0.539 0.549   0.532    3.66
63)  METHYL METHACRYLATE
          0.259 0.259 0.355       0.372 0.363 0.350 0.288 0.361   0.326   14.90
64)  METHYL ISOBUTYL KETONE
          0.203 0.208 0.307       0.322 0.312 0.300 0.211 0.315   0.272   19.93
65)  CIS-1,3-DICHLOROPROPENE
          0.454 0.430 0.559       0.555 0.546 0.541 0.390 0.571   0.506   13.83
66)  TOLUENE
          1.160 1.113 1.205       1.264 1.238 1.195 1.241 1.228   1.206    4.09
67)  1,3-DICHLOROPROPANE
          0.534 0.533 0.582       0.613 0.600 0.574 0.554 0.592   0.573    5.20
68)  TRANS-1,3-DICHLOROPROPENE
          0.374 0.327 0.526       0.487 0.503 0.502 0.371 0.538   0.453   18.09
69)  1,1,2-TRICHLOROETHANE
          0.362 0.326 0.356       0.377 0.361 0.351 0.332 0.360   0.353    4.74
70)  2-HEXANONE
          0.085 0.075 0.384       0.381 0.382 0.373 0.062 0.394   0.267   59.92
           ----- Linear regression -----  Coefficient =  0.9996
             Response Ratio = -0.01215 + 0.39178 *A

71)  ETHYL METHACRYLATE
          0.330 0.303 0.568       0.564 0.571 0.557 0.326 0.580   0.475   27.13
72)  TETRACHLOROETHENE
          0.486 0.496 0.471 0.463 0.498 0.491 0.469 0.493 0.478   0.483    2.66
73)  DIBROMOCHLOROMETHANE
          0.550 0.528 0.791       0.752 0.768 0.766 0.537 0.809   0.688   18.18
74)  1,2-DIBROMOETHANE
          0.595 0.567 0.673       0.701 0.690 0.667 0.569 0.684   0.643    8.76
75)  OCTANE
          0.678 0.680 0.729       0.761 0.734 0.709 0.674 0.751   0.715    4.81

76) I   CHLOROBENZENE-D5      ----------------ISTD--------------------
77)  1,1,1,2-TETRACHLOROETHANE
          0.454 0.469 0.594       0.579 0.573 0.568 0.489 0.608   0.542   11.21
78)  CHLOROBENZENE
          1.037 1.051 1.098       1.127 1.093 1.060 1.024 1.108   1.075    3.44
79)  ETHYLBENZENE
          1.660 1.581 1.764       1.856 1.775 1.716 1.568 1.783   1.713    5.96
80)  M,P-XYLENE
          1.240 1.186 1.347       1.415 1.362 1.309 1.201 1.364   1.303    6.48
81)  O-XYLENE
          1.223 1.258 1.393       1.437 1.388 1.340 1.201 1.417   1.332    6.94
```

Initial Calibration Summary

Job Number: JD54338 **Sample:** V2W2709-ICC2709
Account: ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2W61016.D
Project: EPT, Ithaca, NY

82)	STYRENE										
	0.838	0.779	1.051	1.079	1.060	1.019	0.732	1.067	0.953	15.20
83)	NONANE										
	0.795	0.771	0.846	0.868	0.834	0.800	0.796	0.869	0.822	4.50
84)	BROMOFORM										
	0.451	0.392	0.829	0.748	0.771	0.782		0.850	0.689	27.08
85)	1,1,2,2-TETRACHLOROETHANE										
	0.942	0.925	1.030	1.054	1.021	0.987	0.920	1.050	0.991	5.60
86)	1,2,3-TRICHLOROPROPANE										
	0.728	0.674	0.736	0.779	0.746	0.711	0.693	0.750	0.727	4.65
87)	4-BROMOFLUOROBENZENE										
	0.661	0.647	0.681	0.648	0.673	0.673	0.666	0.651	0.692	0.666	2.34
88)	ISOPROPYLBENZENE										
	0.531	0.523	0.582	0.616	0.588	0.566	0.521	0.590	0.565	6.33
89)	BROMOBENZENE										
	0.915	0.859	0.948	0.987	0.950	0.915	0.835	0.967	0.922	5.70
90)	2-CHLOROTOLUENE										
	0.469	0.424	0.489	0.516	0.492	0.479	0.428	0.498	0.474	6.92
91)	N-PROPYLBENZENE										
	0.495	0.447	0.552	0.577	0.558	0.538	0.423	0.561	0.519	11.10
92)	4-ETHYLTOLUENE										
	1.751	1.576	2.103	2.113	2.039	2.004	1.555	2.152	1.912	12.89
93)	1,3,5-TRIMETHYLBENZENE										
	1.453	1.357	1.755	1.748	1.681	1.665	1.306	1.797	1.595	12.13
94)	ALPHA-METHYLSTYRENE										
	0.537	0.491	0.777	0.775	0.745	0.736	0.513	0.795	0.671	19.73
95)	TERT-BUTYLBENZENE										
	0.356	0.358	0.463	0.442	0.427	0.424	0.312	0.482	0.408	14.57
96)	1,2,4-TRIMETHYLBENZENE										
	1.466	1.362	2.000	1.823	1.764	1.806	1.339	2.080	1.705	16.65
97)	BENZYL CHLORIDE										
	0.553	0.489	1.443	1.001	1.134	1.265		1.505	1.056	38.24
98)	M-DICHLOROBENZENE										
	1.019	0.948	1.230	1.229	1.163	1.159	0.954	1.263	1.121	11.43
99)	P-DICHLOROBENZENE										
	1.035	0.926	1.250	1.226	1.176	1.173	1.022	1.279	1.136	11.11
100)	O-DICHLOROBENZENE										
	0.969	0.965	1.235	1.161	1.117	1.125	0.950	1.303	1.103	11.94
101)	SEC-BUTYLBENZENE										
	0.436	0.480	0.561	0.552	0.522	0.519	0.402	0.585	0.507	12.49
102)	1,2,3-TRIMETHYLBENZENE										
	1.423	1.351	1.809	1.771	1.690	1.694	1.312	1.851	1.613	13.41
103)	P-ISOPROPYLTOLUENE										
	0.479	0.471	0.646	0.581	0.575	0.580	0.447	0.690	0.559	15.50
104)	N-BUTYLBENZENE										
	0.428	0.395	0.615	0.553	0.542	0.547	0.399	0.654	0.517	19.07
105)	HEXACHLOROETHANE										
	0.370	0.361	0.824	0.634	0.665	0.709		0.868	0.633	31.73
106)	HEXACHLOROBUTADIENE										
	0.745	0.666	1.121	0.798	0.803	0.846	0.647	1.299	0.866	26.34
107)	1,2,4-TRICHLOROBENZENE										
	0.758	0.662	1.172	0.909	0.933	0.979	0.581	1.314	0.914	27.13
108)	NAPHTHALENE										
	1.746	1.430	2.909	2.216	2.325	2.453		3.260	2.334	26.98

(#) = Out of Range ### Number of calibration levels exceeded format ###

M2W2709.M Wed Aug 24 16:24:15 2022 GCMS2W

Initial Calibration Verification

Job Number: JD54338 **Sample:** V2W2709-ICV2709
Account: ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2W61022.D
Project: EPT, Ithaca, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\2w61022.D Vial: 4
Acq On : 19 Aug 2022 6:00 pm Operator: thomash
Sample : icv2709-10 Inst : MS2W
Misc : MS61038,V2w2709,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\M2W2709.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
Last Update : Wed Aug 24 16:16:55 2022
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	BROMOCHLOROMETHANE	1.000	1.000	0.0	101	0.00	3.61
2	T	FREON 115	0.000	0.799	0.0	0#	0.00	1.80
3	T	FREON 152A	0.841	0.802	4.6	94	0.00	1.85
4	T	CHLORODIFLUOROMETHANE	0.373	0.359	3.8	91	0.00	1.86
5	T	CHLOROTRIFLUOROETHENE	2.160	2.085	3.5	94	0.00	1.88
6	T	DICHLORODIFLUOROMETHANE	4.975	4.731	4.9	94	0.00	1.90
7	T	PROPYLENE	0.939	0.869	7.5	95	0.00	1.87
8	T	1-CHLORO-1,1-DIFLUOROETHA	3.746	3.571	4.7	94	0.00	1.95
9	T	FREON 114	4.481	4.236	5.5	94	0.00	1.99
10	T	CHLOROMETHANE	0.501	0.453	9.6	93	0.00	1.96
11	T	VINYL CHLORIDE	1.740	1.663	4.4	93	0.00	2.04
12	t	1,3-BUTADIENE	1.344	1.273	5.3	93	0.00	2.09
13	T	N-BUTANE	2.340	2.101	10.2	94	0.00	2.11
14	T	BROMOMETHANE	1.572	1.470	6.5	94	0.00	2.19
15	T	CHLOROETHANE	0.931	0.924	0.8	96	0.00	2.25
16	T	DICHLOROFLUOROMETHANE	3.704	3.487	5.9	92	0.00	2.28
17	T	ACETONITRILE	1.391	1.239	10.9	91	0.00	2.37
18	T	ACROLEIN	0.614	0.815	-32.7#	102	0.00	2.42
19	T	FREON 123	4.117	4.016	2.5	96	0.00	2.43
20	T	FREON 123A	2.381	2.491	-4.6	103	0.00	2.45
21	T	TRICHLOROFLUOROMETHANE	5.177	5.003	3.4	94	0.00	2.52
22	T	ISOPROPYL ALCOHOL	4.132	3.615	12.5	92	0.00	2.53
23	T	ACETONE	1.318	0.972	26.3	89	0.00	2.46
24	T	PENTANE	2.264	2.016	11.0	93	0.00	2.63
25	T	IODOMETHANE	5.061	4.918	2.8	96	0.00	2.69
26	T	1,1-DICHLOROETHYLENE	1.987	1.876	5.6	93	0.00	2.71
27	T	CARBON DISULFIDE	5.984	5.333	10.9	87	0.00	2.84
28	T	ETHANOL	0.813	0.714	12.2	106	0.00	2.29
29	T	BROMOETHENE	1.606	1.553	3.3	93	0.00	2.38
30	T	ACRYLONITRILE	1.561	1.457	6.7	90	0.00	2.60
31	T	METHYLENE CHLORIDE	2.205	1.726	21.7	92	0.00	2.75
32	T	3-CHLOROPROPENE	1.020	0.940	7.8	95	0.00	2.79
33	T	FREON 113	3.349	3.141	6.2	92	0.00	2.84
34	T	TRANS-1,2-DICHLOROETHENE	1.655	1.581	4.5	94	0.00	3.08
35	T	TERTIARY BUTYL ALCOHOL	5.206	4.523	13.1	87	0.00	2.72
36	t	METHYL TERTIARY BUTYL ETH	4.286	4.168	2.8	97	0.00	3.19
37	T	TETRAHYDROFURAN	0.723	0.750	-3.7	95	0.00	3.90
38	T	HEXANE	2.890	2.847	1.5	97	0.00	3.66
39	T	VINYL ACETATE	0.407	0.441	-8.4	99	0.00	3.23
40	T	1,1-DICHLOROETHANE	2.961	2.914	1.6	97	0.00	3.16
41	T	METHYL ETHYL KETONE	0.736	0.790	-7.3	100	0.00	3.33
42	T	CIS-1,2-DICHLOROETHENE	1.776	1.721	3.1	96	0.00	3.53

Initial Calibration Verification

Job Number: JD54338 **Sample:** V2W2709-ICV2709
Account: ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2W61022.D
Project: EPT, Ithaca, NY

43	T	DIISOPROPYL ETHER	0.846	0.835	1.3	97	0.00	3.67
44	T	ETHYL ACETATE	0.592	0.595	-0.5	98	0.00	3.67
45	T	METHYL ACRYLATE	3.398	3.436	-1.1	96	0.00	3.66
46	T	CHLOROFORM	3.619	3.446	4.8	95	0.00	3.69
47	T	2,4-DIMETHYLPENTANE	3.367	3.239	3.8	96	0.00	4.19
48	T	1,1,1-TRICHLOROETHANE	3.609	3.571	1.1	97	0.00	4.28
49	T	CARBON TETRACHLORIDE	3.576	3.661	-2.4	97	0.00	4.71
50	T	1,2-DICHLOROETHANE	2.451	2.434	0.7	97	0.00	4.11
51	t	BENZENE	5.167	5.034	2.6	98	0.00	4.60
52	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	102	0.00	4.93
53	T	CYCLOHEXANE	0.422	0.410	2.8	97	0.00	4.81
54	T	2,3-DIMETHYLPENTANE	0.207	0.206	0.5	98	0.00	5.07
55	T	TRICHLOROETHENE	0.424	0.432	-1.9	97	0.00	5.52
56	T	1,2-DICHLOROPROPANE	0.382	0.365	4.5	97	0.00	5.28
57	T	DIBROMOMETHANE	0.436	0.408	6.4	97	0.00	5.24
58	T	ETHYL ACRYLATE	0.717	0.769	-7.3	100	0.00	5.40
59	T	BROMODICHLOROMETHANE	0.700	0.697	0.4	95	0.00	5.46
60	T	2,2,4-TRIMETHYLPENTANE	1.689	1.611	4.6	97	0.00	5.62
61	T	1,4-DIOXANE	0.205	0.223	-8.8	109	0.00	5.53
62	T	HEPTANE	0.532	0.506	4.9	97	0.00	5.94
63	T	METHYL METHACRYLATE	0.326	0.348	-6.7	98	0.00	5.83
64	T	METHYL ISOBUTYL KETONE	0.272	0.321	-18.0	105	0.00	6.57
65	T	CIS-1,3-DICHLOROPROPENE	0.506	0.561	-10.9	105	0.00	6.47
66	T	TOLUENE	1.206	1.177	2.4	97	0.00	7.70
67	T	1,3-DICHLOROPROPANE	0.573	0.562	1.9	96	0.00	7.76
68	T	TRANS-1,3-DICHLOROPROPENE	0.453	0.484	-6.8	99	0.00	7.16
69	T	1,1,2-TRICHLOROETHANE	0.353	0.341	3.4	96	0.00	7.32
		----------	True	Calc.	% Drift	----------		
70	T	2-HEXANONE	10.000	11.064	-10.6	113	0.00	8.26
		----------	AvgRF	CCRF	% Dev	----------		
71	T	ETHYL METHACRYLATE	0.475	0.574	-20.8	103	0.00	8.40
72	T	TETRACHLOROETHENE	0.483	0.464	3.9	97	0.00	9.45
73	T	DIBROMOCHLOROMETHANE	0.688	0.725	-5.4	97	0.00	8.24
74	T	1,2-DIBROMOETHANE	0.643	0.661	-2.8	98	0.00	8.59
75	T	OCTANE	0.715	0.695	2.8	97	0.00	9.59
76	I	CHLOROBENZENE-D5	1.000	1.000	0.0	100	0.00	10.59
77	T	1,1,1,2-TETRACHLOROETHANE	0.542	0.558	-3.0	98	0.00	10.67
78	T	CHLOROBENZENE	1.075	1.071	0.4	98	0.00	10.66
79	t	ETHYLBENZENE	1.713	1.721	-0.5	97	0.00	11.55
80	t	M,P-XYLENE	1.303	1.328	-1.9	98	0.00	11.98
81	t	O-XYLENE	1.332	1.363	-2.3	98	0.00	12.92
82	T	STYRENE	0.953	1.064	-11.6	100	0.00	12.70
83	T	NONANE	0.822	0.811	1.3	97	0.00	14.03
84	T	BROMOFORM	0.689	0.778	-12.9	101	0.00	11.79
85	T	1,1,2,2-TETRACHLOROETHANE	0.991	1.000	-0.9	98	0.00	12.92
86	T	1,2,3-TRICHLOROPROPANE	0.727	0.718	1.2	96	0.00	13.21
87	S	4-BROMOFLUOROBENZENE	0.666	0.681	-2.3	101	0.00	13.96
88	T	ISOPROPYLBENZENE	0.565	0.520	8.0	89	0.00	14.44
89	T	BROMOBENZENE	0.922	0.913	1.0	96	0.00	14.31
90	T	2-CHLOROTOLUENE	0.474	0.484	-2.1	99	0.00	15.44
91	T	N-PROPYLBENZENE	0.519	0.541	-4.2	97	0.00	15.78
92	T	4-ETHYLTOLUENE	1.912	2.021	-5.7	99	0.00	16.15
93	T	1,3,5-TRIMETHYLBENZENE	1.595	1.676	-5.1	100	0.00	16.30
94	T	ALPHA-METHYLSTYRENE	0.671	0.861	-28.3	116	0.00	16.50
95	T	TERT-BUTYLBENZENE	0.408	0.417	-2.2	98	0.00	16.76
96	T	1,2,4-TRIMETHYLBENZENE	1.705	1.774	-4.0	101	0.00	16.77

Initial Calibration Verification

Job Number: JD54338 **Sample:** V2W2709-ICV2709
Account: ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2W61022.D
Project: EPT, Ithaca, NY

97	T	BENZYL CHLORIDE	1.056	1.208	-14.4	107	0.00	16.85
98	T	M-DICHLOROBENZENE	1.121	1.163	-3.7	100	0.00	16.83
99	T	P-DICHLOROBENZENE	1.136	1.177	-3.6	100	0.00	16.91
100	T	O-DICHLOROBENZENE	1.103	1.126	-2.1	101	0.00	17.21
101	T	SEC-BUTYLBENZENE	0.507	0.513	-1.2	98	0.00	17.04
102	T	1,2,3-TRIMETHYLBENZENE	1.613	1.680	-4.2	100	0.00	17.15
103	T	P-ISOPROPYLTOLUENE	0.559	0.565	-1.1	98	0.00	17.22
104	T	N-BUTYLBENZENE	0.517	0.549	-6.2	101	0.00	17.57
105	T	HEXACHLOROETHANE	0.633	0.682	-7.7	103	0.00	17.74
106	T	HEXACHLOROBUTADIENE	0.866	0.818	5.5	102	0.00	18.79
107	T	1,2,4-TRICHLOROBENZENE	0.914	0.983	-7.5	106	0.00	18.48
108	T	NAPHTHALENE	2.334	2.276	2.5	98	0.00	18.53

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2w61016.D M2W2709.M Wed Aug 24 20:27:06 2022

Continuing Calibration Summary

Job Number: JD54338 **Sample:** V2W2734-CC2709
Account: ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2W61611.D
Project: EPT, Ithaca, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\2w61611.D Vial: 2
Acq On : 27 Sep 2022 7:58 am Operator: thomash
Sample : cc2709-10 Inst : MS2W
Misc : MS62367,V2w2734,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\METHODS\M2W2709.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
Last Update : Wed Aug 24 16:16:55 2022
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	BROMOCHLOROMETHANE	1.000	1.000	0.0	116	0.00	3.61
2	T	FREON 115	0.000	1.215	0.0	0#	0.00	1.80
3	T	FREON 152A	0.841	0.838	0.4	111	0.00	1.84
4	T	CHLORODIFLUOROMETHANE	0.373	0.366	1.9	106	0.00	1.86
5	T	CHLOROTRIFLUOROETHENE	2.160	1.942	10.1	100	0.00	1.88
6	T	DICHLORODIFLUOROMETHANE	4.975	4.793	3.7	108	0.00	1.90
7	T	PROPYLENE	0.939	0.769	18.1	96	0.00	1.87
8	T	1-CHLORO-1,1-DIFLUOROETHA	3.746	3.849	-2.7	115	0.00	1.95
9	T	FREON 114	4.481	4.496	-0.3	113	0.00	1.99
10	T	CHLOROMETHANE	0.501	0.444	11.4	104	0.00	1.95
11	T	VINYL CHLORIDE	1.740	1.908	-9.7	122	0.00	2.04
12	t	1,3-BUTADIENE	1.344	1.300	3.3	108	0.00	2.09
13	T	N-BUTANE	2.340	2.015	13.9	103	0.00	2.11
14	T	BROMOMETHANE	1.572	1.492	5.1	109	0.00	2.19
15	T	CHLOROETHANE	0.931	1.020	-9.6	121	0.00	2.25
16	T	DICHLOROFLUOROMETHANE	3.704	3.852	-4.0	116	0.00	2.28
17	T	ACETONITRILE	1.391	1.212	12.9	102	0.00	2.37
18	T	ACROLEIN	0.614	0.881	-43.5#	126	0.00	2.42
19	T	FREON 123	4.117	4.289	-4.2	117	0.00	2.43
20	T	FREON 123A	2.381	2.312	2.9	109	0.00	2.45
21	T	TRICHLOROFLUOROMETHANE	5.177	5.424	-4.8	116	0.00	2.52
22	T	ISOPROPYL ALCOHOL	4.132	3.756	9.1	109	0.00	2.53
23	T	ACETONE	1.318	1.061	19.5	111	0.00	2.46
24	T	PENTANE	2.264	2.230	1.5	117	0.00	2.63
25	T	IODOMETHANE	5.061	5.077	-0.3	113	0.00	2.69
26	T	1,1-DICHLOROETHYLENE	1.987	2.168	-9.1	122	0.00	2.71
27	T	CARBON DISULFIDE	5.984	7.087	-18.4	132	0.00	2.85
28	T	ETHANOL	0.813	0.597	26.6	101	0.00	2.29
29	T	BROMOETHENE	1.606	1.596	0.6	108	0.00	2.38
30	T	ACRYLONITRILE	1.561	1.681	-7.7	118	0.00	2.61
31	T	METHYLENE CHLORIDE	2.205	2.086	5.4	127	0.00	2.75
32	T	3-CHLOROPROPENE	1.020	1.109	-8.7	127	0.00	2.79
33	T	FREON 113	3.349	3.393	-1.3	114	0.00	2.85
34	T	TRANS-1,2-DICHLOROETHENE	1.655	1.630	1.5	110	0.00	3.08
35	T	TERTIARY BUTYL ALCOHOL	5.206	5.135	1.4	113	0.00	2.72
36	t	METHYL TERTIARY BUTYL ETH	4.286	3.855	10.1	103	0.00	3.19
37	T	TETRAHYDROFURAN	0.723	0.766	-5.9	111	0.00	3.91
38	T	HEXANE	2.890	2.918	-1.0	113	0.00	3.67
39	T	VINYL ACETATE	0.407	0.424	-4.2	109	0.00	3.23
40	T	1,1-DICHLOROETHANE	2.961	3.257	-10.0	124	0.00	3.16
41	T	METHYL ETHYL KETONE	0.736	0.794	-7.9	115	0.00	3.33
42	T	CIS-1,2-DICHLOROETHENE	1.776	1.706	3.9	108	0.00	3.53

Continuing Calibration Summary

Job Number: JD54338 **Sample:** V2W2734-CC2709
Account: ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2W61611.D
Project: EPT, Ithaca, NY

43	T	DIISOPROPYL ETHER	0.846	0.881	-4.1	117	0.00	3.67
44	T	ETHYL ACETATE	0.592	0.651	-10.0	122	0.00	3.67
45	T	METHYL ACRYLATE	3.398	3.468	-2.1	110	0.00	3.66
46	T	CHLOROFORM	3.619	3.557	1.7	111	0.00	3.69
47	T	2,4-DIMETHYLPENTANE	3.367	3.371	-0.1	114	0.00	4.20
48	T	1,1,1-TRICHLOROETHANE	3.609	3.385	6.2	104	0.00	4.28
49	T	CARBON TETRACHLORIDE	3.576	3.438	3.9	104	0.00	4.71
50	T	1,2-DICHLOROETHANE	2.451	2.609	-6.4	119	0.00	4.11
51	t	BENZENE	5.167	5.189	-0.4	115	0.00	4.60
52	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	120	0.00	4.93
53	T	CYCLOHEXANE	0.422	0.393	6.9	109	0.00	4.81
54	T	2,3-DIMETHYLPENTANE	0.207	0.197	4.8	110	0.00	5.07
55	T	TRICHLOROETHENE	0.424	0.408	3.8	107	0.00	5.52
56	T	1,2-DICHLOROPROPANE	0.382	0.391	-2.4	121	0.00	5.28
57	T	DIBROMOMETHANE	0.436	0.368	15.6	102	0.00	5.24
58	T	ETHYL ACRYLATE	0.717	0.728	-1.5	110	0.00	5.40
59	T	BROMODICHLOROMETHANE	0.700	0.692	1.1	111	0.00	5.46
60	T	2,2,4-TRIMETHYLPENTANE	1.689	1.618	4.2	114	0.00	5.61
61	T	1,4-DIOXANE	0.205	0.214	-4.4	122	0.00	5.53
62	T	HEPTANE	0.532	0.444	16.5	100	0.00	5.94
63	T	METHYL METHACRYLATE	0.326	0.333	-2.1	110	0.00	5.83
64	T	METHYL ISOBUTYL KETONE	0.272	0.312	-14.7	120	0.00	6.57
65	T	CIS-1,3-DICHLOROPROPENE	0.506	0.486	4.0	106	0.00	6.48
66	T	TOLUENE	1.206	1.142	5.3	110	0.00	7.70
67	T	1,3-DICHLOROPROPANE	0.573	0.565	1.4	113	0.00	7.76
68	T	TRANS-1,3-DICHLOROPROPENE	0.453	0.415	8.4	99	0.00	7.16
69	T	1,1,2-TRICHLOROETHANE	0.353	0.337	4.5	112	0.00	7.32
		----------	True	Calc.	% Drift	----------		
70	T	2-HEXANONE	10.000	10.721	-7.2	128	0.00	8.26
		----------	AvgRF	CCRF	% Dev	----------		
71	T	ETHYL METHACRYLATE	0.475	0.544	-14.5	114	0.00	8.40
72	T	TETRACHLOROETHENE	0.483	0.421	12.8	103	0.00	9.44
73	T	DIBROMOCHLOROMETHANE	0.688	0.655	4.8	102	0.00	8.24
74	T	1,2-DIBROMOETHANE	0.643	0.601	6.5	104	0.00	8.59
75	T	OCTANE	0.715	0.609	14.8	99	0.00	9.59
76	I	CHLOROBENZENE-D5	1.000	1.000	0.0	117	0.00	10.59
77	T	1,1,1,2-TETRACHLOROETHANE	0.542	0.495	8.7	101	0.00	10.68
78	T	CHLOROBENZENE	1.075	0.971	9.7	104	0.00	10.67
79	t	ETHYLBENZENE	1.713	1.669	2.6	110	0.00	11.55
80	t	M,P-XYLENE	1.303	1.287	1.2	111	0.00	11.98
81	t	O-XYLENE	1.332	1.318	1.1	111	0.00	12.92
82	T	STYRENE	0.953	0.988	-3.7	109	0.00	12.70
83	T	NONANE	0.822	0.713	13.3	100	0.00	14.03
84	T	BROMOFORM	0.689	0.706	-2.5	107	0.00	11.79
85	T	1,1,2,2-TETRACHLOROETHANE	0.991	0.986	0.5	113	0.00	12.93
86	T	1,2,3-TRICHLOROPROPANE	0.727	0.719	1.1	113	0.00	13.21
87	S	4-BROMOFLUOROBENZENE	0.666	0.663	0.5	115	0.00	13.96
88	T	ISOPROPYLBENZENE	0.565	0.468	17.2	93	0.00	14.43
89	T	BROMOBENZENE	0.922	0.897	2.7	111	0.00	14.31
90	T	2-CHLOROTOLUENE	0.474	0.424	10.5	101	0.00	15.44
91	T	N-PROPYLBENZENE	0.519	0.479	7.7	100	0.00	15.78
92	T	4-ETHYLTOLUENE	1.912	1.903	0.5	109	0.00	16.15
93	T	1,3,5-TRIMETHYLBENZENE	1.595	1.574	1.3	110	0.00	16.30
94	T	ALPHA-METHYLSTYRENE	0.671	0.800	-19.2	126	0.00	16.50
95	T	TERT-BUTYLBENZENE	0.408	0.373	8.6	102	0.00	16.76
96	T	1,2,4-TRIMETHYLBENZENE	1.705	1.698	0.4	113	0.00	16.77

Continuing Calibration Summary

Job Number: JD54338 **Sample:** V2W2734-CC2709
Account: ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 2W61611.D
Project: EPT, Ithaca, NY

97	T	BENZYL CHLORIDE	1.056	0.796	24.6	82	0.00	16.85
98	T	M-DICHLOROBENZENE	1.121	1.039	7.3	105	0.00	16.83
99	T	P-DICHLOROBENZENE	1.136	1.041	8.4	104	0.00	16.91
100	T	O-DICHLOROBENZENE	1.103	1.014	8.1	106	0.00	17.20
101	T	SEC-BUTYLBENZENE	0.507	0.458	9.7	103	0.00	17.04
102	T	1,2,3-TRIMETHYLBENZENE	1.613	1.593	1.2	110	0.00	17.15
103	T	P-ISOPROPYLTOLUENE	0.559	0.499	10.7	102	0.00	17.22
104	T	N-BUTYLBENZENE	0.517	0.460	11.0	99	0.00	17.56
105	T	HEXACHLOROETHANE	0.633	0.611	3.5	108	0.00	17.74
106	T	HEXACHLOROBUTADIENE	0.866	0.741	14.4	108	-0.01	18.78
107	T	1,2,4-TRICHLOROBENZENE	0.914	0.812	11.2	102	-0.01	18.47
108	T	NAPHTHALENE	2.334	1.997	14.4	101	-0.01	18.52

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2w61016.D M2W2709.M Tue Sep 27 10:19:21 2022

Initial Calibration Summary

Job Number: JD54338 **Sample:** V6W1077-ICC1077
Account: ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 6W25322.D
Project: EPT, Ithaca, NY

Response Factor Report GCMS6W

Method : C:\msdchem\1\methods\M6W1077.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
Last Update : Fri Aug 05 08:58:59 2022
Response via : Initial Calibration

Calibration Files
0.5 =6W25319.D 0.2 =6W25318.D 40 =6W25324.D 0.04=6W25316.D
5 =6W25321.D 10 =6W25322.D 20 =6W25323.D 0.1 =6W25317.D
50 =6W25325.D =

Compound	0.5	0.2	40	0.04	5	10	20	0.1	50	Avg	%RSD
1) I BROMOCHLOROMETHANE	----------ISTD----------										
2) FREON 115										0.000	-1.00
3) FREON 152A	0.976	0.949	0.813		0.850	0.830	0.849	1.179	0.728	0.897	15.38
4) CHLORODIFLUOROMETHANE	0.378	0.449	0.367		0.382	0.378	0.388	0.554	0.329	0.403	17.18
5) CHLOROTRIFLUOROETHENE	2.162	1.989	1.831		1.863	1.856	1.870	2.401	1.648	1.953	11.91
6) DICHLORODIFLUOROMETHANE	5.209	5.843	3.839		4.772	4.691	4.501	6.139	3.351	4.793	19.59
7) PROPYLENE	1.433	1.576	1.196		1.212	1.208	1.229	1.724	1.063	1.330	16.92
8) 1-CHLORO-1,1-DIFLUOROETHANE	5.377	5.175	4.574	6.687	4.799	4.665	4.780	5.902	4.066	5.114	15.42
9) FREON 114	5.349	5.157	4.764	6.945	4.901	4.760	4.892	5.951	4.246	5.218	15.31
10) CHLOROMETHANE	0.703	0.699	0.571		0.611	0.611	0.603		0.508	0.615	11.15
11) VINYL CHLORIDE	2.306	2.386	1.955	3.266	2.029	1.989	2.061	2.501	1.729	2.247	20.08
12) 1,3-BUTADIENE	1.803	2.039	1.555		1.639	1.606	1.626		1.374	1.663	12.55
13) N-BUTANE	3.653	3.794	3.125	5.851	3.302	3.248	3.281	4.169	2.741	3.685	24.73
14) BROMOMETHANE	1.842	1.850	1.549	2.585	1.647	1.589	1.626	2.162	1.371	1.802	20.55
15) CHLOROETHANE	1.123	1.249	1.003	2.000	1.051	1.024	1.043	1.480	0.875	1.205	28.58
16) DICHLOROFLUOROMETHANE	4.687	4.813	4.215	5.921	4.434	4.270	4.343	5.352	3.736	4.641	14.14
17) ACETONITRILE	2.274	2.748	1.894		2.059	1.974	1.979	2.663	1.667	2.157	17.54
18) ACROLEIN	0.533	0.694	0.753		0.802	0.776	0.796	0.614	0.670	0.705	13.58
19) FREON 123	4.444	4.550	4.013	6.296	4.107	4.046	4.137	5.027	3.574	4.466	17.85
20) FREON 123A	2.486	2.694	2.226	2.821	2.266	2.219	2.273	3.312	1.971	2.474	16.51
21) TRICHLOROFLUOROMETHANE	5.342	5.169	4.762	6.741	4.870	4.752	4.881	5.793	4.247	5.173	14.09
22) ISOPROPYL ALCOHOL	5.449	5.780	4.249		4.606	4.512	4.524		3.828	4.707	14.43
23) ACETONE											

	1.657	1.734	1.140		1.206	1.175	1.179		1.003	1.299	21.50
24)	PENTANE										
	2.580	2.874	2.195	2.848	2.325	2.251	2.313		1.935	2.415	13.55
25)	IODOMETHANE										
	4.678	4.829	4.301	6.114	4.439	4.315	4.413	5.483	3.833	4.712	14.70
26)	1,1-DICHLOROETHYLENE										
	1.820	1.823	1.673	2.815	1.732	1.689	1.732	2.162	1.485	1.881	20.93
27)	CARBON DISULFIDE										
	5.893	5.846	5.426	7.932	5.435	5.353	5.523	6.569	4.829	5.867	15.48
28)	ETHANOL										
	1.473		0.957		1.031	1.011	1.017		0.854	1.057	20.22
29)	BROMOETHENE										
	1.817	1.698	1.570	2.403	1.627	1.599	1.643	2.005	1.404	1.752	16.88
30)	ACRYLONITRILE										
	1.680	1.709	1.473		1.582	1.545	1.555	2.238	1.300	1.635	16.77
31)	METHYLENE CHLORIDE										
	2.176	2.467	1.555		1.656	1.598	1.619		1.364	1.776	22.13
32)	3-CHLOROPROPENE										
	1.048	1.193	0.896	1.475	0.885	0.895	0.924	1.192	0.787	1.033	21.04
33)	FREON 113										
	3.039	3.215	2.892	4.060	2.934	2.839	2.943	3.257	2.587	3.085	13.50
34)	TRANS-1,2-DICHLOROETHENE										
	2.084	2.138	1.848	3.352	1.900	1.871	1.902	2.315	1.639	2.117	23.74
35)	TERTIARY BUTYL ALCOHOL										
	5.054	5.195	4.647	7.529	4.826	4.779	4.860	6.194	4.185	5.252	19.25
36)	METHYL TERTIARY BUTYL ETHER										
	5.873	6.202	5.529	8.790	5.692	5.596	5.708	7.193	4.963	6.172	18.68
37)	TETRAHYDROFURAN										
	0.756	0.721	0.730		0.740	0.736	0.755	0.696	0.645	0.722	5.11
38)	HEXANE										
	2.750	2.872	2.644	3.904	2.628	2.617	2.683	3.334	2.568	2.889	15.46
39)	VINYL ACETATE										
	0.525	0.593	0.525		0.482	0.490	0.538		0.472	0.518	8.03
40)	1,1-DICHLOROETHANE										
	4.208	3.996	3.615	5.529	3.811	3.709	3.763	4.473	3.185	4.032	16.60
41)	METHYL ETHYL KETONE										
	1.078	1.041	0.969		1.016	1.006	1.004	1.168	0.856	1.017	8.74
42)	CIS-1,2-DICHLOROETHENE										
	1.657	1.728	1.911		1.551	1.563	1.570	1.794	1.698	1.684	7.51
43)	DIISOPROPYL ETHER										
	0.885	0.863	0.817		0.825	0.808	0.840	0.822	0.765	0.828	4.38
44)	ETHYL ACETATE										
	0.553	0.504	0.572		0.557	0.558	0.581	0.614	0.521	0.558	6.10
45)	METHYL ACRYLATE										
	3.444	3.244	3.468	4.457	3.379	3.350	3.496	3.640	3.376	3.539	10.20
46)	CHLOROFORM										
	3.557	3.572	3.210	4.666	3.275	3.244	3.288	4.085	2.872	3.530	15.32
47)	2,4-DIMETHYLPENTANE										
	3.317	3.431	3.019	4.306	3.048	3.033	3.100	3.686	2.682	3.291	14.47
48)	1,1,1-TRICHLOROETHANE										
	3.424	3.382	3.185	4.349	3.227	3.170	3.259	3.972	2.847	3.424	13.38
49)	CARBON TETRACHLORIDE										
	3.356	3.427	3.303	4.076	3.245	3.233	3.388	4.036	2.960	3.447	10.76
50)	1,2-DICHLOROETHANE										
	2.549	2.558	2.245	3.647	2.335	2.262	2.315	2.980	1.994	2.543	19.54
51)	BENZENE										
	4.908	5.221	4.570	7.208	4.699	4.591	4.685	6.165	4.057	5.123	19.01
52)	I 1,4-DIFLUOROBENZENE	----------ISTD----------									
53)	CYCLOHEXANE										

		0.394	0.377	0.408	0.538	0.379	0.378	0.391	0.414	0.427	0.412	12.23
54)	2,3-DIMETHYLPENTANE											
		0.207	0.201	0.213		0.199	0.197	0.204	0.240	0.220	0.210	6.82
55)	TRICHLOROETHENE											
		0.423	0.431	0.424	0.484	0.388	0.388	0.403	0.450	0.439	0.426	7.20
56)	1,2-DICHLOROPROPANE											
		0.362	0.358	0.373		0.348	0.344	0.359	0.400	0.389	0.367	5.32
57)	DIBROMOMETHANE											
		0.410	0.437	0.390	0.507	0.356	0.359	0.372	0.455	0.406	0.410	12.02
58)	ETHYL ACRYLATE											
		0.684	0.660	0.846	0.912	0.748	0.775	0.808	0.726	0.878	0.782	11.04
59)	BROMODICHLOROMETHANE											
		0.657	0.677	0.725	0.795	0.662	0.670	0.691	0.712	0.754	0.705	6.58
60)	2,2,4-TRIMETHYLPENTANE											
		1.658	1.692	1.671	2.091	1.545	1.550	1.600	1.847	1.733	1.710	10.00
61)	1,4-DIOXANE											
		0.182	0.179	0.223		0.207	0.209	0.214	0.135	0.234	0.198	15.91
62)	HEPTANE											
		0.590	0.688	0.627	0.826	0.581	0.586	0.606	0.674	0.650	0.648	11.92
63)	METHYL METHACRYLATE											
		0.316	0.311	0.372		0.333	0.339	0.358	0.327	0.386	0.343	7.87
64)	METHYL ISOBUTYL KETONE											
		0.269	0.247	0.329		0.305	0.306	0.317	0.293	0.342	0.301	10.39
65)	CIS-1,3-DICHLOROPROPENE											
		0.518	0.490	0.574	0.629	0.505	0.521	0.543	0.560	0.601	0.549	8.37
66)	TOLUENE											
		1.115	1.244	1.147	1.494	1.043	1.065	1.095	1.262	1.190	1.184	11.73
67)	1,3-DICHLOROPROPANE											
		0.587	0.575	0.591	0.752	0.544	0.552	0.565	0.643	0.613	0.602	10.57
68)	TRANS-1,3-DICHLOROPROPENE											
		0.447	0.483	0.544	0.608	0.471	0.478	0.511	0.549	0.570	0.518	10.23
69)	1,1,2-TRICHLOROETHANE											
		0.355	0.368	0.349	0.407	0.325	0.321	0.333	0.358	0.360	0.353	7.37
70)	2-HEXANONE											
		0.161	0.155	0.412		0.373	0.379	0.397		0.429	0.329	36.04
71)	ETHYL METHACRYLATE											
		0.409	0.423	0.600	0.580	0.536	0.545	0.569	0.395	0.631	0.521	17.06
72)	TETRACHLOROETHENE											
		0.440	0.412	0.430	0.491	0.393	0.397	0.408	0.468	0.448	0.432	7.66
73)	DIBROMOCHLOROMETHANE											
		0.624	0.595	0.734	0.693	0.633	0.654	0.692	0.632	0.767	0.669	8.41
74)	1,2-DIBROMOETHANE											
		0.616	0.621	0.637	0.722	0.583	0.586	0.610	0.686	0.664	0.636	7.30
75)	OCTANE											
		0.861	0.838	0.881	1.092	0.801	0.818	0.844	1.022	0.913	0.897	10.96
76)	I CHLOROBENZENE-D5	----------				ISTD						
77)	1,1,1,2-TETRACHLOROETHANE											
		0.522	0.529	0.574	0.587	0.500	0.513	0.542	0.552	0.600	0.547	6.29
78)	CHLOROBENZENE											
		1.049	1.105	1.073	1.190	0.974	0.975	1.022	1.211	1.118	1.080	7.89
79)	ETHYLBENZENE											
		1.707	1.703	1.764	2.305	1.590	1.609	1.688	1.862	1.829	1.784	12.05
80)	M,P-XYLENE											
		1.293	1.295	1.366	1.609	1.220	1.246	1.302	1.401	1.416	1.350	8.72
81)	O-XYLENE											
		1.323	1.360	1.383	1.766	1.239	1.271	1.317	1.451	1.443	1.395	11.21
82)	STYRENE											
		0.877	0.900	1.061	1.033	0.934	0.959	1.009	0.963	1.101	0.982	7.62
83)	NONANE											

	1.063	1.041	1.067	0.972	0.991	1.022	1.118	1.104	1.047	4.88
84)	BROMOFORM										
	0.564	0.568	0.801	0.733	0.658	0.695	0.748	0.622	0.838	0.692	14.08
85)	1,1,2,2-TETRACHLOROETHANE										
	1.062	1.054	1.087	1.254	0.965	0.983	1.031	1.108	1.132	1.075	8.02
86)	1,2,3-TRICHLOROPROPANE										
	0.781	0.800	0.807	0.939	0.728	0.736	0.770	0.840	0.838	0.804	7.96
87)	4-BROMOFLUOROBENZENE										
	0.699	0.688	0.715	0.698	0.698	0.702	0.701	0.692	0.720	0.702	1.47
88)	ISOPROPYLBENZENE										
	0.515	0.530	0.543	0.630	0.478	0.494	0.513	0.504	0.565	0.530	8.61
89)	BROMOBENZENE										
	0.988	1.034	1.004	1.262	0.902	0.914	0.965	1.095	1.050	1.024	10.61
90)	2-CHLOROTOLUENE										
	0.476	0.437	0.492	0.433	0.441	0.469	0.462	0.510	0.465	5.85
91)	N-PROPYLBENZENE										
	0.527	0.548	0.552	0.481	0.504	0.524	0.553	0.576	0.533	5.71
92)	4-ETHYLTOLUENE										
	1.764	1.749	2.077	2.164	1.769	1.844	1.943	1.945	2.164	1.935	8.67
93)	1,3,5-TRIMETHYLBENZENE										
	1.492	1.465	1.747	1.874	1.457	1.492	1.616	1.625	1.807	1.619	9.73
94)	ALPHA-METHYLSTYRENE										
	0.644	0.643	0.881	0.731	0.729	0.759	0.819	0.662	0.920	0.754	13.40
95)	TERT-BUTYLBENZENE										
	0.377	0.406	0.435	0.553	0.361	0.383	0.396	0.411	0.462	0.420	13.87
96)	1,2,4-TRIMETHYLBENZENE										
	1.501	1.538	1.911	1.890	1.522	1.589	1.714	1.674	2.055	1.710	11.61
97)	BENZYL CHLORIDE										
	1.057	1.020	1.726	1.386	1.213	1.330	1.512	1.132	1.865	1.360	21.66
98)	M-DICHLOROBENZENE										
	1.068	1.114	1.211	1.401	1.023	1.053	1.118	1.270	1.281	1.171	10.85
99)	P-DICHLOROBENZENE										
	1.115	1.071	1.236	1.499	1.048	1.083	1.148	1.150	1.320	1.186	12.26
100)	O-DICHLOROBENZENE										
	1.033	1.037	1.224	1.313	0.986	1.019	1.099	1.151	1.317	1.131	11.25
101)	SEC-BUTYLBENZENE										
	0.455	0.453	0.545	0.609	0.447	0.461	0.497	0.520	0.585	0.508	11.92
102)	1,2,3-TRIMETHYLBENZENE										
	1.495	1.485	1.839	1.979	1.476	1.534	1.662	1.631	1.929	1.670	11.86
103)	P-ISOPROPYLTOLUENE										
	0.522	0.557	0.631	0.614	0.506	0.537	0.585	0.540	0.684	0.575	10.13
104)	N-BUTYLBENZENE										
	0.459	0.464	0.609	0.614	0.487	0.495	0.551	0.540	0.658	0.542	13.30
105)	HEXACHLOROETHANE										
	0.535	0.527	0.828	0.711	0.587	0.636	0.711	0.567	0.899	0.667	19.71
106)	HEXACHLOROBUTADIENE										
	0.824	0.808	1.251	0.973	0.827	0.871	1.022	0.980	1.377	0.992	20.16
107)	1,2,4-TRICHLOROBENZENE										
	0.963	0.987	1.396	1.278	0.989	1.052	1.185	1.061	1.537	1.161	17.53
108)	NAPHTHALENE										
	2.404	2.400	3.435	3.032	2.577	2.703	2.972	2.602	3.849	2.886	17.04

(#) = Out of Range ### Number of calibration levels exceeded format ###

M6W1077.M Fri Aug 05 09:13:28 2022

Initial Calibration Verification

Job Number: JD54338 **Sample:** V6W1077-ICV1077
Account: ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 6W25328.D
Project: EPT, Ithaca, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\6W25328.D Vial: 4
Acq On : 5 Aug 2022 3:17 am Operator: thomash
Sample : icv1077-10 Inst : GCMS6W
Misc : MS61009,V6W1077,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\M6W1077.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
Last Update : Fri Aug 05 08:58:59 2022
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	BROMOCHLOROMETHANE	1.000	1.000	0.0	99	0.00	3.41
2	T	FREON 115		----------NA----------				
3	T	FREON 152A	0.897	0.847	5.6	101	0.00	1.72
4	T	CHLORODIFLUOROMETHANE	0.403	0.378	6.2	99	0.00	1.73
5	T	CHLOROTRIFLUOROETHENE	1.953	1.891	3.2	101	0.00	1.74
6	T	DICHLORODIFLUOROMETHANE	4.793	4.888	-2.0	103	0.00	1.76
7	T	PROPYLENE	1.330	1.277	4.0	105	0.00	1.74
8	T	1-CHLORO-1,1-DIFLUOROETHA	5.114	4.818	5.8	102	0.00	1.79
9	T	FREON 114	5.218	4.933	5.5	103	0.00	1.83
10	T	CHLOROMETHANE	0.615	0.616	-0.2	100	0.00	1.80
11	T	VINYL CHLORIDE	2.247	2.070	7.9	103	0.00	1.86
12	t	1,3-BUTADIENE	1.663	1.658	0.3	102	0.00	1.90
13	T	N-BUTANE	3.685	3.309	10.2	101	0.00	1.91
14	T	BROMOMETHANE	1.802	1.631	9.5	102	0.00	1.97
15	T	CHLOROETHANE	1.205	1.059	12.1	103	0.00	2.02
16	T	DICHLOROFLUOROMETHANE	4.641	4.318	7.0	100	0.00	2.05
17	T	ACETONITRILE	2.157	1.922	10.9	97	0.00	2.11
18	T	ACROLEIN	0.705	0.406	42.4#	52	0.00	2.15
19	T	FREON 123	4.466	4.268	4.4	105	0.00	2.16
20	T	FREON 123A	2.474	2.493	-0.8	111	0.00	2.18
21	T	TRICHLOROFLUOROMETHANE	5.173	4.894	5.4	102	0.00	2.25
22	T	ISOPROPYL ALCOHOL	4.707	4.564	3.0	100	0.00	2.26
23	T	ACETONE	1.299	1.409	-8.5	119	0.00	2.19
24	T	PENTANE	2.415	2.368	1.9	104	0.00	2.36
25	T	IODOMETHANE	4.712	4.414	6.3	101	0.00	2.42
26	T	1,1-DICHLOROETHYLENE	1.881	1.746	7.2	103	0.00	2.45
27	T	CARBON DISULFIDE	5.867	5.118	12.8	95	0.00	2.59
28	T	ETHANOL	1.057	1.135	-7.4	111	0.00	2.05
29	T	BROMOETHENE	1.752	1.658	5.4	103	0.00	2.12
30	T	ACRYLONITRILE	1.635	1.536	6.1	99	0.00	2.33
31	T	METHYLENE CHLORIDE	1.776	1.620	8.8	101	0.00	2.49
32	T	3-CHLOROPROPENE	1.033	0.939	9.1	104	0.00	2.53
33	T	FREON 113	3.085	2.850	7.6	100	0.00	2.59
34	T	TRANS-1,2-DICHLOROETHENE	2.117	1.872	11.6	99	0.00	2.85
35	T	TERTIARY BUTYL ALCOHOL	5.252	4.399	16.2	91	0.00	2.46
36	t	METHYL TERTIARY BUTYL ETH	6.172	5.707	7.5	101	0.00	2.97
37	T	TETRAHYDROFURAN	0.722	0.722	0.0	97	0.00	3.72
38	T	HEXANE	2.889	2.716	6.0	103	0.00	3.47
39	T	VINYL ACETATE	0.518	0.469	9.5	95	0.00	3.01
40	T	1,1-DICHLOROETHANE	4.032	3.797	5.8	102	0.00	2.93
41	T	METHYL ETHYL KETONE	1.017	1.025	-0.8	101	0.00	3.12
42	T	CIS-1,2-DICHLOROETHENE	1.684	1.587	5.8	101	0.00	3.33

Initial Calibration Verification

Job Number: JD54338 **Sample:** V6W1077-ICV1077
Account: ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 6W25328.D
Project: EPT, Ithaca, NY

43	T	DIISOPROPYL ETHER	0.828	0.828	0.0	102	0.00	3.47
44	T	ETHYL ACETATE	0.558	0.571	-2.3	102	0.00	3.48
45	T	METHYL ACRYLATE	3.539	3.364	4.9	100	0.00	3.46
46	T	CHLOROFORM	3.530	3.228	8.6	99	0.00	3.50
47	T	2,4-DIMETHYLPENTANE	3.291	3.103	5.7	102	0.00	4.02
48	T	1,1,1-TRICHLOROETHANE	3.424	3.222	5.9	101	0.00	4.11
49	T	CARBON TETRACHLORIDE	3.447	3.272	5.1	100	0.00	4.56
50	T	1,2-DICHLOROETHANE	2.543	2.336	8.1	102	0.00	3.93
51	t	BENZENE	5.123	4.674	8.8	101	0.00	4.44
52	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	98	0.00	4.79
53	T	CYCLOHEXANE	0.412	0.395	4.1	103	0.00	4.67
54	T	2,3-DIMETHYLPENTANE	0.210	0.205	2.4	102	0.00	4.94
55	T	TRICHLOROETHENE	0.426	0.403	5.4	102	0.00	5.40
56	T	1,2-DICHLOROPROPANE	0.367	0.355	3.3	101	0.00	5.16
57	T	DIBROMOMETHANE	0.410	0.375	8.5	102	0.00	5.12
58	T	ETHYL ACRYLATE	0.782	0.775	0.9	98	0.00	5.28
59	T	BROMODICHLOROMETHANE	0.705	0.684	3.0	100	0.00	5.35
60	T	2,2,4-TRIMETHYLPENTANE	1.710	1.616	5.5	102	0.00	5.50
61	T	1,4-DIOXANE	0.198	0.213	-7.6	100	0.00	5.42
62	T	HEPTANE	0.648	0.615	5.1	103	0.00	5.83
63	T	METHYL METHACRYLATE	0.343	0.345	-0.6	100	0.00	5.73
64	T	METHYL ISOBUTYL KETONE	0.301	0.305	-1.3	98	0.00	6.50
65	T	CIS-1,3-DICHLOROPROPENE	0.549	0.563	-2.6	106	0.00	6.39
66	T	TOLUENE	1.184	1.098	7.3	101	0.00	7.65
67	T	1,3-DICHLOROPROPANE	0.602	0.556	7.6	99	0.00	7.71
68	T	TRANS-1,3-DICHLOROPROPENE	0.518	0.485	6.4	99	0.00	7.10
69	T	1,1,2-TRICHLOROETHANE	0.353	0.327	7.4	100	0.00	7.27
70	T	2-HEXANONE	0.329	0.318	3.3	82	0.00	8.24
71	T	ETHYL METHACRYLATE	0.521	0.551	-5.8	99	0.00	8.38
72	T	TETRACHLOROETHENE	0.432	0.407	5.8	100	0.00	9.44
73	T	DIBROMOCHLOROMETHANE	0.669	0.653	2.4	98	0.00	8.22
74	T	1,2-DIBROMOETHANE	0.636	0.600	5.7	100	0.00	8.57
75	T	OCTANE	0.897	0.842	6.1	101	0.00	9.59
76	I	CHLOROBENZENE-D5	1.000	1.000	0.0	98	0.00	10.61
77	T	1,1,1,2-TETRACHLOROETHANE	0.547	0.527	3.7	100	0.00	10.70
78	T	CHLOROBENZENE	1.080	1.011	6.4	101	0.00	10.69
79	t	ETHYLBENZENE	1.784	1.632	8.5	99	0.00	11.59
80	t	M,P-XYLENE	1.350	1.274	5.6	100	0.00	12.02
81	t	O-XYLENE	1.395	1.300	6.8	100	0.00	12.98
82	T	STYRENE	0.982	0.977	0.5	100	0.00	12.76
83	T	NONANE	1.047	1.008	3.7	100	0.00	14.10
84	T	BROMOFORM	0.692	0.683	1.3	96	0.00	11.84
85	T	1,1,2,2-TETRACHLOROETHANE	1.075	1.007	6.3	100	0.00	13.00
86	T	1,2,3-TRICHLOROPROPANE	0.804	0.747	7.1	99	0.00	13.28
87	S	4-BROMOFLUOROBENZENE	0.702	0.703	-0.1	98	0.00	14.03
88	T	ISOPROPYLBENZENE	0.530	0.516	2.6	102	0.00	14.51
89	T	BROMOBENZENE	1.024	0.926	9.6	99	0.00	14.38
90	T	2-CHLOROTOLUENE	0.465	0.444	4.5	98	0.00	15.53
91	T	N-PROPYLBENZENE	0.533	0.512	3.9	99	0.00	15.87
92	T	4-ETHYLTOLUENE	1.935	1.886	2.5	100	0.00	16.21
93	T	1,3,5-TRIMETHYLBENZENE	1.619	1.547	4.4	101	0.00	16.35
94	T	ALPHA-METHYLSTYRENE	0.754	0.714	5.3	92	0.00	16.55
95	T	TERT-BUTYLBENZENE	0.420	0.376	10.5	96	0.00	16.80
96	T	1,2,4-TRIMETHYLBENZENE	1.710	1.596	6.7	98	0.00	16.81
97	T	BENZYL CHLORIDE	1.360	1.135	16.5	84	0.00	16.89
98	T	M-DICHLOROBENZENE	1.171	1.054	10.0	98	0.00	16.87
99	T	P-DICHLOROBENZENE	1.186	1.073	9.5	97	0.00	16.95
100	T	O-DICHLOROBENZENE	1.131	1.015	10.3	97	0.00	17.24

Initial Calibration Verification

Job Number: JD54338 **Sample:** V6W1077-ICV1077
Account: ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 6W25328.D
Project: EPT, Ithaca, NY

101	T	SEC-BUTYLBENZENE	0.508	0.472	7.1	100	0.00	17.08
102	T	1,2,3-TRIMETHYLBENZENE	1.670	1.531	8.3	98	0.00	17.19
103	T	P-ISOPROPYLTOLUENE	0.575	0.514	10.6	94	0.00	17.25
104	T	N-BUTYLBENZENE	0.542	0.498	8.1	99	0.00	17.59
105	T	HEXACHLOROETHANE	0.667	0.622	6.7	96	0.00	17.77
106	T	HEXACHLOROBUTADIENE	0.992	0.822	17.1	92	-0.01	18.80
107	T	1,2,4-TRICHLOROBENZENE	1.161	0.908	21.8	84	-0.01	18.50
108	T	NAPHTHALENE	2.886	2.168	24.9	78	-0.01	18.55

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6W25322.D M6W1077.M Fri Aug 05 09:12:54 2022

Continuing Calibration Summary

Job Number: JD54338 **Sample:** V6W1083-CC1077
Account: ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 6W25439.D
Project: EPT, Ithaca, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\6W25439.D Vial: 2
Acq On : 11 Aug 2022 8:20 am Operator: thomash
Sample : cc1077-10 Inst : GCMS6W
Misc : MS61233,V6W1083,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\M6W1077.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
Last Update : Fri Aug 05 08:58:59 2022
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	BROMOCHLOROMETHANE	1.000	1.000	0.0	126	0.00	3.42
2	T	FREON 115		----------NA----------				
3	T	FREON 152A	0.897	0.775	13.6	118	0.00	1.72
4	T	CHLORODIFLUOROMETHANE	0.403	0.356	11.7	119	0.00	1.73
5	T	CHLOROTRIFLUOROETHENE	1.953	1.948	0.3	132	0.00	1.74
6	T	DICHLORODIFLUOROMETHANE	4.793	5.665	-18.2	152#	0.00	1.76
7	T	PROPYLENE	1.330	0.986	25.9	103	0.00	1.74
8	T	1-CHLORO-1,1-DIFLUOROETHA	5.114	4.496	12.1	121	0.00	1.79
9	T	FREON 114	5.218	5.253	-0.7	139	0.00	1.83
10	T	CHLOROMETHANE	0.615	0.578	6.0	119	0.00	1.80
11	T	VINYL CHLORIDE	2.247	1.990	11.4	126	0.00	1.86
12	t	1,3-BUTADIENE	1.663	1.563	6.0	123	0.00	1.90
13	T	N-BUTANE	3.685	2.983	19.1	116	0.00	1.91
14	T	BROMOMETHANE	1.802	1.759	2.4	140	0.00	1.97
15	T	CHLOROETHANE	1.205	1.024	15.0	126	0.00	2.02
16	T	DICHLOROFLUOROMETHANE	4.641	4.315	7.0	127	0.00	2.05
17	T	ACETONITRILE	2.157	1.752	18.8	112	0.00	2.11
18	T	ACROLEIN	0.705	0.719	-2.0	117	0.00	2.15
19	T	FREON 123	4.466	4.340	2.8	135	0.00	2.16
20	T	FREON 123A	2.474	2.457	0.7	140	0.00	2.18
21	T	TRICHLOROFLUOROMETHANE	5.173	4.962	4.1	132	0.00	2.24
22	T	ISOPROPYL ALCOHOL	4.707	4.000	15.0	112	0.00	2.26
23	T	ACETONE	1.299	1.154	11.2	124	0.00	2.19
24	T	PENTANE	2.415	2.004	17.0	112	0.00	2.36
25	T	IODOMETHANE	4.712	5.011	-6.3	146	0.00	2.42
26	T	1,1-DICHLOROETHYLENE	1.881	1.808	3.9	135	0.00	2.45
27	T	CARBON DISULFIDE	5.867	5.780	1.5	136	0.00	2.59
28	T	ETHANOL	1.057	0.936	11.4	117	0.00	2.05
29	T	BROMOETHENE	1.752	1.770	-1.0	139	0.00	2.12
30	T	ACRYLONITRILE	1.635	1.454	11.1	119	0.00	2.33
31	T	METHYLENE CHLORIDE	1.776	1.737	2.2	137	0.00	2.49
32	T	3-CHLOROPROPENE	1.033	0.956	7.5	135	0.00	2.53
33	T	FREON 113	3.085	3.361	-8.9	149	0.00	2.59
34	T	TRANS-1,2-DICHLOROETHENE	2.117	2.053	3.0	138	0.00	2.85
35	T	TERTIARY BUTYL ALCOHOL	5.252	4.245	19.2	112	0.00	2.46
36	t	METHYL TERTIARY BUTYL ETH	6.172	5.550	10.1	125	0.00	2.97
37	T	TETRAHYDROFURAN	0.722	0.690	4.4	118	0.00	3.72
38	T	HEXANE	2.889	2.318	19.8	112	0.00	3.47
39	T	VINYL ACETATE	0.518	0.550	-6.2	142	0.00	3.01
40	T	1,1-DICHLOROETHANE	4.032	3.827	5.1	130	0.00	2.93
41	T	METHYL ETHYL KETONE	1.017	1.093	-7.5	137	0.00	3.12
42	T	CIS-1,2-DICHLOROETHENE	1.684	1.526	9.4	123	0.00	3.33

Continuing Calibration Summary

Job Number: JD54338 **Sample:** V6W1083-CC1077
Account: ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 6W25439.D
Project: EPT, Ithaca, NY

43	T	DIISOPROPYL ETHER	0.828	0.696	15.9	109	0.00	3.48
44	T	ETHYL ACETATE	0.558	0.489	12.4	110	0.00	3.48
45	T	METHYL ACRYLATE	3.539	2.970	16.1	112	0.00	3.47
46	T	CHLOROFORM	3.530	3.253	7.8	126	0.00	3.50
47	T	2,4-DIMETHYLPENTANE	3.291	2.674	18.7	111	0.00	4.02
48	T	1,1,1-TRICHLOROETHANE	3.424	3.037	11.3	121	0.00	4.11
49	T	CARBON TETRACHLORIDE	3.447	3.193	7.4	124	0.00	4.56
50	T	1,2-DICHLOROETHANE	2.543	2.036	19.9	113	0.00	3.94
51	t	BENZENE	5.123	4.455	13.0	122	0.00	4.44
52	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	121	0.00	4.79
53	T	CYCLOHEXANE	0.412	0.377	8.5	121	0.00	4.67
54	T	2,3-DIMETHYLPENTANE	0.210	0.197	6.2	121	0.00	4.94
55	T	TRICHLOROETHENE	0.426	0.400	6.1	125	0.00	5.40
56	T	1,2-DICHLOROPROPANE	0.367	0.337	8.2	119	0.00	5.16
57	T	DIBROMOMETHANE	0.410	0.416	-1.5	141	0.00	5.12
58	T	ETHYL ACRYLATE	0.782	0.693	11.4	108	0.00	5.28
59	T	BROMODICHLOROMETHANE	0.705	0.675	4.3	122	0.00	5.35
60	T	2,2,4-TRIMETHYLPENTANE	1.710	1.434	16.1	112	0.00	5.50
61	T	1,4-DIOXANE	0.198	0.218	-10.1	126	0.00	5.42
62	T	HEPTANE	0.648	0.488	24.7	101	0.00	5.83
63	T	METHYL METHACRYLATE	0.343	0.325	5.2	116	0.00	5.73
64	T	METHYL ISOBUTYL KETONE	0.301	0.290	3.7	115	0.00	6.50
65	T	CIS-1,3-DICHLOROPROPENE	0.549	0.503	8.4	117	0.00	6.39
66	T	TOLUENE	1.184	1.059	10.6	121	0.00	7.65
67	T	1,3-DICHLOROPROPANE	0.602	0.549	8.8	121	0.00	7.72
68	T	TRANS-1,3-DICHLOROPROPENE	0.518	0.445	14.1	113	0.00	7.10
69	T	1,1,2-TRICHLOROETHANE	0.353	0.332	5.9	125	0.00	7.27
70	T	2-HEXANONE	0.329	0.356	-8.2	114	0.00	8.24
71	T	ETHYL METHACRYLATE	0.521	0.531	-1.9	118	0.00	8.38
72	T	TETRACHLOROETHENE	0.432	0.447	-3.5	136	0.00	9.44
73	T	DIBROMOCHLOROMETHANE	0.669	0.694	-3.7	129	0.00	8.22
74	T	1,2-DIBROMOETHANE	0.636	0.603	5.2	125	0.00	8.57
75	T	OCTANE	0.897	0.696	22.4	103	0.00	9.59
76	I	CHLOROBENZENE-D5	1.000	1.000	0.0	118	0.00	10.60
77	T	1,1,1,2-TETRACHLOROETHANE	0.547	0.571	-4.4	131	0.00	10.70
78	T	CHLOROBENZENE	1.080	1.041	3.6	126	0.00	10.69
79	t	ETHYLBENZENE	1.784	1.637	8.2	120	0.00	11.58
80	t	M,P-XYLENE	1.350	1.275	5.6	121	0.00	12.03
81	t	O-XYLENE	1.395	1.298	7.0	120	0.00	12.98
82	T	STYRENE	0.982	0.975	0.7	120	0.00	12.76
83	T	NONANE	1.047	0.876	16.3	104	0.00	14.10
84	T	BROMOFORM	0.692	0.795	-14.9	135	0.00	11.84
85	T	1,1,2,2-TETRACHLOROETHANE	1.075	1.053	2.0	126	0.00	13.00
86	T	1,2,3-TRICHLOROPROPANE	0.804	0.767	4.6	123	0.00	13.28
87	S	4-BROMOFLUOROBENZENE	0.702	0.672	4.3	113	0.00	14.03
88	T	ISOPROPYLBENZENE	0.530	0.528	0.4	126	0.00	14.51
89	T	BROMOBENZENE	1.024	0.936	8.6	121	0.00	14.39
90	T	2-CHLOROTOLUENE	0.465	0.469	-0.9	125	0.00	15.53
91	T	N-PROPYLBENZENE	0.533	0.535	-0.4	125	0.00	15.87
92	T	4-ETHYLTOLUENE	1.935	1.926	0.5	123	0.00	16.21
93	T	1,3,5-TRIMETHYLBENZENE	1.619	1.595	1.5	126	0.00	16.35
94	T	ALPHA-METHYLSTYRENE	0.754	0.813	-7.8	126	0.00	16.55
95	T	TERT-BUTYLBENZENE	0.420	0.422	-0.5	130	0.00	16.80
96	T	1,2,4-TRIMETHYLBENZENE	1.710	1.688	1.3	125	0.00	16.81
97	T	BENZYL CHLORIDE	1.360	1.086	20.1	96	0.00	16.89
98	T	M-DICHLOROBENZENE	1.171	1.213	-3.6	136	0.00	16.87
99	T	P-DICHLOROBENZENE	1.186	1.233	-4.0	134	0.00	16.95
100	T	O-DICHLOROBENZENE	1.131	1.192	-5.4	138	0.00	17.24

Continuing Calibration Summary

Job Number: JD54338 **Sample:** V6W1083-CC1077
Account: ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 6W25439.D
Project: EPT, Ithaca, NY

101	T	SEC-BUTYLBENZENE	0.508	0.538	-5.9	137	0.00	17.08
102	T	1,2,3-TRIMETHYLBENZENE	1.670	1.663	0.4	128	0.00	17.19
103	T	P-ISOPROPYLTOLUENE	0.575	0.609	-5.9	134	0.00	17.25
104	T	N-BUTYLBENZENE	0.542	0.578	-6.6	138	0.00	17.60
105	T	HEXACHLOROETHANE	0.667	0.667	0.0	124	0.00	17.78
106	T	HEXACHLOROBUTADIENE	0.992	1.055	-6.4	143	0.00	18.81
107	T	1,2,4-TRICHLOROBENZENE	1.161	1.295	-11.5	145	0.00	18.51
108	T	NAPHTHALENE	2.886	3.080	-6.7	134	0.00	18.56

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6W25322.D M6W1077.M Thu Aug 11 14:29:06 2022

Initial Calibration Summary

Job Number: JD54338 **Sample:** V6W1125-ICC1125
Account: ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 6W26454.D
Project: EPT, Ithaca, NY

Response Factor Report GCMS6W

Method : C:\msdchem\1\methods\M6W1125.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
Last Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration

Calibration Files
0.5 =6W26451.D 0.2 =6W26450.D 40 =6W26456.D 0.04=6W26448.D
5 =6W26453.D 10 =6W26454.D 20 =6W26455.D 0.1 =6W26449.D
50 =6W26457.D =

Compound	0.5	0.2	40	0.04	5	10	20	0.1	50	Avg	%RSD
1) I BROMOCHLOROMETHANE	----------ISTD----------										
2) FREON 115										0.000	-1.00
3) FREON 152A	0.934	0.912	0.873		0.829	0.811	0.827		0.832	0.860	5.52
4) CHLORODIFLUOROMETHANE	0.420	0.395	0.400		0.382	0.370	0.376		0.385	0.390	4.35
5) CHLOROTRIFLUOROETHENE	1.960	1.906	1.955		1.804	1.758	1.822	1.971	1.883	1.882	4.26
6) DICHLORODIFLUOROMETHANE	3.357	3.217	3.294	2.916	3.054	3.026	3.039	3.162	3.076	3.127	4.54
7) PROPYLENE	1.494	1.325	1.331		1.220	1.220	1.251	1.153	1.255	1.281	8.08
8) 1-CHLORO-1,1-DIFLUOROETHANE	2.949	2.871	3.044	2.840	2.746	2.692	2.822	2.804	3.010	2.864	4.10
9) FREON 114	3.364	3.288	3.533	3.395	3.023	3.026	3.171	3.313	3.492	3.289	5.61
10) CHLOROMETHANE	0.492	0.442	0.457	0.570	0.419	0.412	0.419	0.409	0.446	0.452	11.43
11) VINYL CHLORIDE	1.472	1.419	1.397	1.357	1.278	1.264	1.325	1.460	1.357	1.370	5.40
12) 1,3-BUTADIENE	1.177	1.139	1.183		1.064	1.040	1.097	1.090	1.171	1.120	4.91
13) N-BUTANE	2.520	2.468	2.396	3.758	2.228	2.149	2.225	2.657	2.326	2.525	19.38
14) BROMOMETHANE	1.098	1.082	1.127		1.025	0.985	1.028	1.033	1.098	1.059	4.59
15) CHLOROETHANE	0.694	0.708	0.693		0.640	0.623	0.647	0.564	0.679	0.656	7.24
16) DICHLOROFLUOROMETHANE	2.888	2.866	2.977	2.810	2.661	2.583	2.713	2.624	2.936	2.784	5.16
17) ACETONITRILE	1.581	1.552	1.473		1.363	1.306	1.365	1.706	1.419	1.471	9.14
18) ACROLEIN	0.519	0.487	0.699		0.628	0.616	0.634		0.677	0.608	12.87
19) FREON 123	2.752	2.686	2.847	2.562	2.453	2.413	2.571	2.663	2.818	2.640	5.79
20) FREON 123A	1.694	1.554	1.729		1.499	1.481	1.555	1.517	1.711	1.592	6.40
21) TRICHLOROFLUOROMETHANE	3.377	3.173	3.409	3.475	3.401	2.960	3.114	3.086	3.350	3.261	5.52
22) ISOPROPYL ALCOHOL	3.252	3.259	3.371	4.111	2.939	2.825	2.976	3.579	3.295	3.290	11.80
23) ACETONE											

	0.935	0.918	0.730		0.596	0.629	0.662		0.713	0.740	18.27
24)	PENTANE										
	1.873	1.831	1.826		1.761	1.536	1.580	1.978	1.652	1.755	8.72
25)	IODOMETHANE										
	3.299	3.098	3.499	2.835	3.391	2.905	2.919	3.162	3.183	3.143	7.27
26)	1,1-DICHLOROETHYLENE										
	1.304	1.243	1.305		1.288	1.197	1.101	1.266	1.212	1.239	5.57
27)	CARBON DISULFIDE										
	4.087	4.029	4.165	3.889	3.954	3.777	3.604	3.841	3.999	3.927	4.36
28)	ETHANOL										
	1.005	0.967	0.721		0.635	0.625	0.661		0.702	0.759	20.89
29)	BROMOETHENE										
	1.176	1.110	1.184		1.028	1.032	1.078	1.119	1.157	1.110	5.48
30)	ACRYLONITRILE										
	1.248	1.048	1.187		1.159	1.002	1.033	1.106	1.092	1.109	7.57
31)	METHYLENE CHLORIDE										
	1.451	1.623	1.198		1.207	1.142	1.010		1.073	1.243	17.49
32)	3-CHLOROPROPENE										
	0.650	0.568	0.653		0.621	0.601	0.550		0.594	0.605	6.47
33)	FREON 113										
	2.299	2.280	2.327		2.279	2.177	1.995	2.023	2.208	2.199	5.77
34)	TRANS-1,2-DICHLOROETHENE										
	1.419	1.382	1.414		1.399	1.343	1.303	1.421	1.392	1.384	3.00
35)	TERTIARY BUTYL ALCOHOL										
	2.800	2.456	3.153		2.386	2.441	2.573	2.734	2.980	2.690	10.29
36)	METHYL TERTIARY BUTYL ETHER										
	3.528	3.479	3.735		3.283	3.303	3.463	3.025	3.743	3.445	6.97
37)	TETRAHYDROFURAN										
	0.654	0.569	0.703		0.627	0.605	0.649		0.674	0.640	6.94
38)	HEXANE										
	2.904	2.704	2.773		2.634	2.550	2.634	2.538	2.740	2.685	4.55
39)	VINYL ACETATE										
	0.250	0.366	0.376		0.297	0.314	0.344		0.375	0.332	14.23
40)	1,1-DICHLOROETHANE										
	2.791	2.661	2.731	2.633	2.658	2.540	2.555	2.497	2.685	2.639	3.58
41)	METHYL ETHYL KETONE										
	0.654	0.686	0.716		0.639	0.644	0.671		0.698	0.673	4.31
42)	CIS-1,2-DICHLOROETHENE										
	1.525	1.498	1.438		1.422	1.381	1.418	1.513	1.427	1.453	3.59
43)	DIISOPROPYL ETHER										
	0.781	0.716	0.819		0.761	0.742	0.774		0.808	0.772	4.64
44)	ETHYL ACETATE										
	0.551	0.511	0.560		0.506	0.503	0.528		0.553	0.530	4.55
45)	METHYL ACRYLATE										
	3.661	3.389	3.601	2.522	3.205	3.202	3.381	3.376	3.540	3.320	10.21
46)	CHLOROFORM										
	3.136	3.071	3.022	2.830	2.955	2.872	2.964	3.000	2.984	2.982	3.14
47)	2,4-DIMETHYLPENTANE										
	3.177	2.936	3.321	2.840	3.027	2.972	3.090	2.843	3.101	3.034	5.18
48)	1,1,1-TRICHLOROETHANE										
	2.950	2.871	3.129		2.796	2.778	2.899	2.980	3.034	2.930	4.05
49)	CARBON TETRACHLORIDE										
	3.118	3.178	3.488	2.764	3.116	3.100	3.212	2.912	3.384	3.141	6.97
50)	1,2-DICHLOROETHANE										
	2.370	2.316	2.358		2.216	2.154	2.204	2.258	2.276	2.269	3.36
51)	BENZENE										
	4.357	4.672	4.576	4.974	4.218	4.103	4.247	4.516	4.462	4.458	5.97
52)	I 1,4-DIFLUOROBENZENE	----------ISTD----------									
53)	CYCLOHEXANE										

		0.383	0.356	0.372	0.357	0.359	0.368	0.349	0.374	0.365	3.08
54)	2,3-DIMETHYLPENTANE										
		0.206	0.206	0.198	0.194	0.192	0.194		0.200	0.199	2.90
55)	TRICHLOROETHENE										
		0.431	0.403	0.395	0.338	0.399	0.386	0.391	0.389	0.400	0.393	6.22
56)	1,2-DICHLOROPROPANE										
		0.390	0.353	0.359	0.361	0.353	0.357	0.346	0.364	0.361	3.68
57)	DIBROMOMETHANE										
		0.362	0.380	0.363	0.357	0.353	0.358	0.419	0.368	0.370	5.82
58)	ETHYL ACRYLATE										
		0.773	0.701	0.839	0.751	0.764	0.803	0.634	0.855	0.765	9.47
59)	BROMODICHLOROMETHANE										
		0.709	0.646	0.660	0.624	0.656	0.646	0.650	0.695	0.666	0.661	3.93
60)	2,2,4-TRIMETHYLPENTANE										
		1.778	1.654	1.684	1.494	1.682	1.645	1.671	1.576	1.705	1.654	4.86
61)	1,4-DIOXANE										
		0.172	0.140	0.186	0.165	0.171	0.181		0.193	0.173	10.04
62)	HEPTANE										
		0.692	0.634	0.666	0.702	0.668	0.647	0.660	0.655	0.675	0.667	3.17
63)	METHYL METHACRYLATE										
		0.319	0.293	0.342	0.311	0.317	0.329	0.297	0.349	0.319	6.23
64)	METHYL ISOBUTYL KETONE										
		0.240	0.206	0.312	0.282	0.287	0.305	0.211	0.319	0.270	16.72
65)	CIS-1,3-DICHLOROPROPENE										
		0.500	0.435	0.513	0.461	0.473	0.493	0.423	0.522	0.478	7.51
66)	TOLUENE										
		1.113	1.089	1.064	1.388	1.012	1.014	1.038	1.153	1.083	1.106	10.42
67)	1,3-DICHLOROPROPANE										
		0.554	0.517	0.543	0.531	0.517	0.534	0.520	0.551	0.533	2.78
68)	TRANS-1,3-DICHLOROPROPENE										
		0.413	0.353	0.474	0.400	0.419	0.453	0.369	0.487	0.421	11.38
69)	1,1,2-TRICHLOROETHANE										
		0.358	0.315	0.315	0.315	0.307	0.312	0.286	0.320	0.316	6.35
70)	2-HEXANONE										
		0.229	0.186	0.394	0.287	0.325	0.373		0.410	0.315	27.07
71)	ETHYL METHACRYLATE										
		0.422	0.365	0.547	0.481	0.498	0.529	0.365	0.562	0.471	16.70
72)	TETRACHLOROETHENE										
		0.428	0.387	0.405	0.245	0.393	0.389	0.396	0.384	0.413	0.382	13.91
73)	DIBROMOCHLOROMETHANE										
		0.725	0.661	0.725	0.547	0.688	0.683	0.702	0.673	0.736	0.682	8.31
74)	1,2-DIBROMOETHANE										
		0.607	0.561	0.593	0.566	0.561	0.580	0.555	0.604	0.579	3.57
75)	OCTANE										
		0.889	0.757	0.930	0.926	0.884	0.884	0.919	0.808	0.939	0.882	6.94
76)	I CHLOROBENZENE-D5	----------			ISTD						
77)	1,1,1,2-TETRACHLOROETHANE										
		0.505	0.564	0.548	0.535	0.537	0.543	0.501	0.560	0.537	4.30
78)	CHLOROBENZENE										
		0.979	1.000	0.986	0.843	0.977	0.970	0.986	0.946	1.009	0.966	5.12
79)	ETHYLBENZENE										
		1.466	1.655	1.598	2.607	1.528	1.551	1.591	1.867	1.633	1.722	20.34
80)	M,P-XYLENE										
		1.113	1.192	1.228	1.772	1.195	1.200	1.228	1.384	1.259	1.286	15.25
81)	O-XYLENE										
		1.095	1.190	1.240	1.803	1.205	1.212	1.240	1.332	1.265	1.287	15.82
82)	STYRENE										
		0.747	0.732	0.967	0.789	0.888	0.925	0.959	0.750	0.986	0.860	12.22
83)	NONANE										

	1.108	1.087	1.087	1.126	1.099	1.087	1.098	1.176	1.097	1.107	2.58
84)	BROMOFORM										
	0.664	0.670	0.736		0.693	0.702	0.728	0.660	0.759	0.702	5.22
85)	1,1,2,2-TETRACHLOROETHANE										
	0.972	0.932	0.925	0.767	0.922	0.918	0.925	0.922	0.943	0.914	6.30
86)	1,2,3-TRICHLOROPROPANE										
	0.748	0.671	0.724		0.720	0.711	0.726	0.682	0.739	0.715	3.70
87)	4-BROMOFLUOROBENZENE										
	0.684	0.686	0.710	0.685	0.698	0.708	0.716	0.684	0.714	0.698	1.98
88)	ISOPROPYLBENZENE										
	1.676	1.769	1.849	1.689	1.772	1.799	1.846	1.688	1.880	1.774	4.31
89)	BROMOBENZENE										
	0.845	0.846	0.893	0.734	0.867	0.868	0.894	0.848	0.909	0.856	5.98
90)	2-CHLOROTOLUENE										
	1.063	1.028	1.288	0.968	1.223	1.232	1.276	1.041	1.306	1.158	11.35
91)	N-PROPYLBENZENE										
	1.745	1.692	2.210	1.647	2.092	2.123	2.191	1.632	2.259	1.955	13.69
92)	4-ETHYLTOLUENE										
	1.372	1.250	1.891	1.134	1.764	1.803	1.863	1.236	1.920	1.581	20.56
93)	1,3,5-TRIMETHYLBENZENE										
	1.183	1.097	1.573	1.068	1.456	1.468	1.538	1.039	1.612	1.337	17.65
94)	ALPHA-METHYLSTYRENE										
	0.546	0.529	0.791		0.720	0.733	0.773	0.463	0.806	0.670	20.20
95)	TERT-BUTYLBENZENE										
	1.326	1.218	1.766	1.190	1.642	1.657	1.729	1.180	1.798	1.501	17.69
96)	1,2,4-TRIMETHYLBENZENE										
	1.221	1.118	1.643	1.023	1.538	1.539	1.601	1.074	1.675	1.381	19.32
97)	BENZYL CHLORIDE										
	0.662	0.534	1.156		0.764	0.860	1.027	0.454	1.240	0.837	34.25
98)	M-DICHLOROBENZENE										
	0.951	0.913	1.079	0.694	1.003	1.013	1.058	0.828	1.107	0.961	13.77
99)	P-DICHLOROBENZENE										
	0.940	0.876	1.096	0.737	0.997	1.010	1.058	0.781	1.137	0.959	14.39
100)	O-DICHLOROBENZENE										
	0.943	0.886	1.057	0.733	0.976	0.971	1.025	0.763	1.103	0.940	13.41
101)	SEC-BUTYLBENZENE										
	1.899	1.766	2.378	1.415	2.244	2.262	2.355	1.644	2.450	2.046	18.24
102)	1,2,3-TRIMETHYLBENZENE										
	1.255	1.124	1.596	0.979	1.476	1.499	1.567	1.046	1.635	1.353	18.78
103)	P-ISOPROPYLTOLUENE										
	1.632	1.456	2.104	1.114	1.929	1.967	2.048	1.364	2.171	1.754	21.37
104)	N-BUTYLBENZENE										
	1.339	1.192	1.986	0.884	1.770	1.804	1.924	1.073	2.056	1.559	28.16
105)	HEXACHLOROETHANE										
	0.578	0.566	0.715	0.612	0.611	0.625	0.680	0.605	0.741	0.637	9.59
106)	HEXACHLOROBUTADIENE										
	0.626	0.623	0.832		0.650	0.681	0.742	0.502	0.914	0.696	18.67
107)	1,2,4-TRICHLOROBENZENE										
	0.561	0.435	1.013		0.691	0.790	0.903		1.070	0.781	29.98
108)	NAPHTHALENE										
	1.190	0.816	2.659		1.672	1.979	2.331		2.829	1.925	38.86

(#) = Out of Range ### Number of calibration levels exceeded format ###

M6W1125.M Thu Oct 20 09:52:34 2022

Initial Calibration Verification

Job Number: JD54338 **Sample:** V6W1125-ICV1125
Account: ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 6W26462.D
Project: EPT, Ithaca, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\6W26462.D Vial: 5
Acq On : 20 Oct 2022 9:08 am Operator: thomash
Sample : icv1125-10 Inst : GCMS6W
Misc : MS63121,V6W1125,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\M6W1125.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
Last Update : Thu Oct 20 08:34:08 2022
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	BROMOCHLOROMETHANE	1.000	1.000	0.0	94	0.00	3.34
2	T	FREON 115		----------NA----------				
3	T	FREON 152A	0.860	0.892	-3.7	104	0.00	1.69
4	T	CHLORODIFLUOROMETHANE	0.390	0.396	-1.5	101	0.00	1.71
5	T	CHLOROTRIFLUOROETHENE	1.882	1.926	-2.3	103	0.00	1.72
6	T	DICHLORODIFLUOROMETHANE	3.127	3.309	-5.8	103	0.00	1.73
7	T	PROPYLENE	1.281	1.312	-2.4	102	0.00	1.71
8	T	1-CHLORO-1,1-DIFLUOROETHA	2.864	2.939	-2.6	103	0.00	1.77
9	T	FREON 114	3.289	3.334	-1.4	104	0.00	1.80
10	T	CHLOROMETHANE	0.452	0.457	-1.1	105	0.00	1.77
11	T	VINYL CHLORIDE	1.370	1.380	-0.7	103	0.00	1.83
12	t	1,3-BUTADIENE	1.120	1.166	-4.1	106	0.00	1.87
13	T	N-BUTANE	2.525	2.357	6.7	104	0.00	1.88
14	T	BROMOMETHANE	1.059	1.098	-3.7	105	0.00	1.93
15	T	CHLOROETHANE	0.656	0.691	-5.3	105	0.00	1.98
16	T	DICHLOROFLUOROMETHANE	2.784	2.839	-2.0	104	0.00	2.00
17	T	ACETONITRILE	1.471	1.418	3.6	103	0.00	2.06
18	T	ACROLEIN	0.608	0.618	-1.6	95	0.00	2.10
19	T	FREON 123	2.640	2.774	-5.1	109	0.00	2.11
20	T	FREON 123A	1.592	1.816	-14.1	116	0.00	2.13
21	T	TRICHLOROFLUOROMETHANE	3.261	3.314	-1.6	106	0.00	2.19
22	T	ISOPROPYL ALCOHOL	3.290	3.087	6.2	103	0.00	2.21
23	T	ACETONE	0.740	0.737	0.4	111	0.00	2.14
24	T	PENTANE	1.755	1.688	3.8	104	0.00	2.30
25	T	IODOMETHANE	3.143	3.058	2.7	99	0.00	2.35
26	T	1,1-DICHLOROETHYLENE	1.239	1.162	6.2	92	0.00	2.38
27	T	CARBON DISULFIDE	3.927	3.333	15.1	83	0.00	2.52
28	T	ETHANOL	0.759	0.817	-7.6	123	0.00	2.01
29	T	BROMOETHENE	1.110	1.144	-3.1	105	0.00	2.07
30	T	ACRYLONITRILE	1.109	1.095	1.3	103	0.00	2.27
31	T	METHYLENE CHLORIDE	1.243	1.030	17.1	85	0.00	2.42
32	T	3-CHLOROPROPENE	0.605	0.559	7.6	88	0.00	2.46
33	T	FREON 113	2.199	1.934	12.1	84	0.00	2.52
34	T	TRANS-1,2-DICHLOROETHENE	1.384	1.318	4.8	93	0.00	2.77
35	T	TERTIARY BUTYL ALCOHOL	2.690	2.435	9.5	94	0.00	2.40
36	t	METHYL TERTIARY BUTYL ETH	3.445	3.498	-1.5	100	0.00	2.89
37	T	TETRAHYDROFURAN	0.640	0.635	0.8	99	0.00	3.65
38	T	HEXANE	2.685	2.704	-0.7	100	0.00	3.39
39	T	VINYL ACETATE	0.332	0.332	0.0	100	0.00	2.93
40	T	1,1-DICHLOROETHANE	2.639	2.663	-0.9	99	0.00	2.85
41	T	METHYL ETHYL KETONE	0.673	0.670	0.4	98	0.00	3.04
42	T	CIS-1,2-DICHLOROETHENE	1.453	1.379	5.1	94	0.00	3.25

Initial Calibration Verification

Job Number: JD54338 **Sample:** V6W1125-ICV1125
Account: ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 6W26462.D
Project: EPT, Ithaca, NY

43	T	DIISOPROPYL ETHER	0.772	0.762	1.3	97	0.00	3.40
44	T	ETHYL ACETATE	0.530	0.536	-1.1	101	0.00	3.40
45	T	METHYL ACRYLATE	3.320	3.384	-1.9	100	0.00	3.39
46	T	CHLOROFORM	2.982	2.822	5.4	93	0.00	3.42
47	T	2,4-DIMETHYLPENTANE	3.034	3.133	-3.3	100	0.00	3.95
48	T	1,1,1-TRICHLOROETHANE	2.930	2.812	4.0	96	0.00	4.04
49	T	CARBON TETRACHLORIDE	3.141	3.003	4.4	91	0.00	4.50
50	T	1,2-DICHLOROETHANE	2.269	2.259	0.4	99	0.00	3.87
51	t	BENZENE	4.458	4.101	8.0	94	0.00	4.38
52	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	94	0.00	4.73
53	T	CYCLOHEXANE	0.365	0.359	1.6	94	0.00	4.60
54	T	2,3-DIMETHYLPENTANE	0.199	0.194	2.5	95	-0.01	4.87
55	T	TRICHLOROETHENE	0.393	0.371	5.6	90	0.00	5.34
56	T	1,2-DICHLOROPROPANE	0.361	0.356	1.4	95	0.00	5.10
57	T	DIBROMOMETHANE	0.370	0.332	10.3	89	0.00	5.05
58	T	ETHYL ACRYLATE	0.765	0.817	-6.8	101	0.00	5.23
59	T	BROMODICHLOROMETHANE	0.661	0.635	3.9	93	0.00	5.29
60	T	2,2,4-TRIMETHYLPENTANE	1.654	1.719	-3.9	99	0.00	5.44
61	T	1,4-DIOXANE	0.173	0.184	-6.4	101	0.00	5.37
62	T	HEPTANE	0.667	0.686	-2.8	100	-0.01	5.78
63	T	METHYL METHACRYLATE	0.319	0.314	1.6	94	0.00	5.68
64	T	METHYL ISOBUTYL KETONE	0.270	0.307	-13.7	101	0.02	6.47
65	T	CIS-1,3-DICHLOROPROPENE	0.478	0.519	-8.6	104	0.00	6.34
66	T	TOLUENE	1.106	1.062	4.0	99	0.00	7.61
67	T	1,3-DICHLOROPROPANE	0.533	0.542	-1.7	99	0.00	7.68
68	T	TRANS-1,3-DICHLOROPROPENE	0.421	0.441	-4.8	99	0.00	7.06
69	T	1,1,2-TRICHLOROETHANE	0.316	0.316	0.0	97	0.00	7.23
70	T	2-HEXANONE	0.315	0.391	-24.1	113	0.02	8.22
71	T	ETHYL METHACRYLATE	0.471	0.518	-10.0	98	0.00	8.35
72	T	TETRACHLOROETHENE	0.382	0.404	-5.8	98	0.00	9.41
73	T	DIBROMOCHLOROMETHANE	0.682	0.699	-2.5	96	0.00	8.18
74	T	1,2-DIBROMOETHANE	0.579	0.584	-0.9	98	0.00	8.53
75	T	OCTANE	0.882	0.941	-6.7	100	0.00	9.55
76	I	CHLOROBENZENE-D5	1.000	1.000	0.0	104	0.00	10.58
77	T	1,1,1,2-TETRACHLOROETHANE	0.537	0.496	7.6	96	0.00	10.68
78	T	CHLOROBENZENE	0.966	0.923	4.5	99	0.00	10.66
79	t	ETHYLBENZENE	1.722	1.446	16.0	97	0.00	11.56
80	t	M,P-XYLENE	1.286	1.118	13.1	97	0.00	12.00
81	t	O-XYLENE	1.287	1.139	11.5	97	0.00	12.96
82	T	STYRENE	0.860	0.815	5.2	91	0.00	12.74
83	T	NONANE	1.107	1.028	7.1	98	0.00	14.08
84	T	BROMOFORM	0.702	0.656	6.6	97	0.00	11.82
85	T	1,1,2,2-TETRACHLOROETHANE	0.914	0.857	6.2	97	0.00	12.98
86	T	1,2,3-TRICHLOROPROPANE	0.715	0.651	9.0	95	0.00	13.26
87	S	4-BROMOFLUOROBENZENE	0.698	0.707	-1.3	104	0.00	14.02
88	T	ISOPROPYLBENZENE	1.774	1.636	7.8	94	0.00	14.50
89	T	BROMOBENZENE	0.856	0.796	7.0	95	0.00	14.37
90	T	2-CHLOROTOLUENE	1.158	1.097	5.3	92	0.00	15.52
91	T	N-PROPYLBENZENE	1.955	1.917	1.9	94	0.00	15.86
92	T	4-ETHYLTOLUENE	1.581	1.624	-2.7	93	0.00	16.20
93	T	1,3,5-TRIMETHYLBENZENE	1.337	1.317	1.5	93	0.00	16.35
94	T	ALPHA-METHYLSTYRENE	0.670	0.574	14.3	81	0.00	16.54
95	T	TERT-BUTYLBENZENE	1.501	1.461	2.7	91	0.00	16.80
96	T	1,2,4-TRIMETHYLBENZENE	1.381	1.345	2.6	91	0.00	16.80
97	T	BENZYL CHLORIDE	0.837	0.777	7.2	94	0.00	16.89
98	T	M-DICHLOROBENZENE	0.961	0.891	7.3	91	0.00	16.86
99	T	P-DICHLOROBENZENE	0.959	0.899	6.3	92	0.00	16.95
100	T	O-DICHLOROBENZENE	0.940	0.850	9.6	91	0.00	17.23

Initial Calibration Verification

Job Number: JD54338 **Sample:** V6W1125-ICV1125
Account: ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 6W26462.D
Project: EPT, Ithaca, NY

101 T	SEC-BUTYLBENZENE	2.046	1.980	3.2	91	0.00	17.07
102 T	1,2,3-TRIMETHYLBENZENE	1.353	1.283	5.2	89	0.00	17.18
103 T	P-ISOPROPYLTOLUENE	1.754	1.646	6.2	87	0.00	17.25
104 T	N-BUTYLBENZENE	1.559	1.552	0.4	89	0.00	17.59
105 T	HEXACHLOROETHANE	0.637	0.494	22.4	82	0.00	17.77
106 T	HEXACHLOROBUTADIENE	0.696	0.507	27.2	77	0.02	18.80
107 T	1,2,4-TRICHLOROBENZENE	0.781	0.630	19.3	83	0.02	18.50
108 T	NAPHTHALENE	1.925	1.665	13.5	87	0.02	18.55

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6W26454.D M6W1125.M Thu Oct 20 09:53:29 2022

Continuing Calibration Summary

Job Number: JD54338 **Sample:** V6W1137-CC1125
Account: ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 6W26823.D
Project: EPT, Ithaca, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\6W26823.D Vial: 2
Acq On : 3 Nov 2022 9:36 am Operator: thomash
Sample : cc1125-10 Inst : GCMS6W
Misc : MS63437,V6W1137,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\M6W1125.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
Last Update : Thu Oct 20 08:34:08 2022
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	BROMOCHLOROMETHANE	1.000	1.000	0.0	90	0.00	3.34
2	T	FREON 115	0.000	0.369	0.0	0#	0.00	1.67
3	T	FREON 152A	0.860	0.705	18.0	78	0.00	1.69
4	T	CHLORODIFLUOROMETHANE	0.390	0.310	20.5	76	0.00	1.71
5	T	CHLOROTRIFLUOROETHENE	1.882	1.608	14.6	83	0.00	1.72
6	T	DICHLORODIFLUOROMETHANE	3.127	3.719	-18.9	111	0.00	1.73
7	T	PROPYLENE	1.281	1.001	21.9	74	0.00	1.72
8	T	1-CHLORO-1,1-DIFLUOROETHA	2.864	2.732	4.6	92	0.00	1.77
9	T	FREON 114	3.289	3.314	-0.8	99	0.00	1.80
10	T	CHLOROMETHANE	0.452	0.441	2.4	97	0.00	1.78
11	T	VINYL CHLORIDE	1.370	1.416	-3.4	101	0.00	1.83
12	t	1,3-BUTADIENE	1.120	1.181	-5.4	103	0.00	1.87
13	T	N-BUTANE	2.525	2.379	5.8	100	0.00	1.88
14	T	BROMOMETHANE	1.059	1.175	-11.0	108	0.00	1.94
15	T	CHLOROETHANE	0.656	0.727	-10.8	105	0.00	1.98
16	T	DICHLOROFLUOROMETHANE	2.784	2.935	-5.4	103	0.00	2.00
17	T	ACETONITRILE	1.471	1.516	-3.1	105	0.00	2.07
18	T	ACROLEIN	0.608	0.713	-17.3	105	0.00	2.10
19	T	FREON 123	2.640	2.858	-8.3	107	0.00	2.12
20	T	FREON 123A	1.592	1.668	-4.8	102	0.00	2.13
21	T	TRICHLOROFLUOROMETHANE	3.261	3.239	0.7	99	0.00	2.19
22	T	ISOPROPYL ALCOHOL	3.290	3.067	6.8	98	0.00	2.21
23	T	ACETONE	0.740	0.772	-4.3	111	0.00	2.14
24	T	PENTANE	1.755	1.725	1.7	101	0.00	2.30
25	T	IODOMETHANE	3.143	3.338	-6.2	104	0.00	2.36
26	T	1,1-DICHLOROETHYLENE	1.239	1.232	0.6	93	0.00	2.39
27	T	CARBON DISULFIDE	3.927	3.887	1.0	93	0.00	2.52
28	T	ETHANOL	0.759	0.746	1.7	108	0.00	2.01
29	T	BROMOETHENE	1.110	1.207	-8.7	106	0.00	2.07
30	T	ACRYLONITRILE	1.109	1.176	-6.0	106	0.00	2.27
31	T	METHYLENE CHLORIDE	1.243	1.166	6.2	92	0.00	2.42
32	T	3-CHLOROPROPENE	0.605	0.611	-1.0	92	0.00	2.46
33	T	FREON 113	2.199	2.084	5.2	86	0.00	2.52
34	T	TRANS-1,2-DICHLOROETHENE	1.384	1.368	1.2	92	0.00	2.77
35	T	TERTIARY BUTYL ALCOHOL	2.690	2.329	13.4	86	0.00	2.40
36	t	METHYL TERTIARY BUTYL ETH	3.445	2.742	20.4	75	0.00	2.89
37	T	TETRAHYDROFURAN	0.640	0.673	-5.2	100	0.00	3.66
38	T	HEXANE	2.685	2.591	3.5	92	0.00	3.39
39	T	VINYL ACETATE	0.332	0.336	-1.2	97	0.00	2.93
40	T	1,1-DICHLOROETHANE	2.639	2.549	3.4	91	0.00	2.86
41	T	METHYL ETHYL KETONE	0.673	0.691	-2.7	97	0.00	3.04
42	T	CIS-1,2-DICHLOROETHENE	1.453	1.411	2.9	92	0.00	3.26

Continuing Calibration Summary

Job Number: JD54338 **Sample:** V6W1137-CC1125
Account: ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 6W26823.D
Project: EPT, Ithaca, NY

43	T	DIISOPROPYL ETHER	0.772	0.700	9.3	85	0.00	3.40
44	T	ETHYL ACETATE	0.530	0.546	-3.0	98	0.00	3.41
45	T	METHYL ACRYLATE	3.320	3.394	-2.2	96	0.00	3.39
46	T	CHLOROFORM	2.982	2.798	6.2	88	0.00	3.42
47	T	2,4-DIMETHYLPENTANE	3.034	3.018	0.5	92	0.00	3.96
48	T	1,1,1-TRICHLOROETHANE	2.930	2.540	13.3	83	0.00	4.05
49	T	CARBON TETRACHLORIDE	3.141	2.791	11.1	81	0.00	4.50
50	T	1,2-DICHLOROETHANE	2.269	2.060	9.2	86	0.00	3.87
51	t	BENZENE	4.458	4.169	6.5	92	0.00	4.38
52	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	91	0.00	4.73
53	T	CYCLOHEXANE	0.365	0.357	2.2	90	0.00	4.60
54	T	2,3-DIMETHYLPENTANE	0.199	0.195	2.0	92	0.00	4.87
55	T	TRICHLOROETHENE	0.393	0.349	11.2	82	0.00	5.35
56	T	1,2-DICHLOROPROPANE	0.361	0.357	1.1	92	0.00	5.10
57	T	DIBROMOMETHANE	0.370	0.326	11.9	84	0.00	5.06
58	T	ETHYL ACRYLATE	0.765	0.835	-9.2	99	0.01	5.24
59	T	BROMODICHLOROMETHANE	0.661	0.586	11.3	82	0.00	5.30
60	T	2,2,4-TRIMETHYLPENTANE	1.654	1.434	13.3	79	0.00	5.44
61	T	1,4-DIOXANE	0.173	0.189	-9.2	100	0.02	5.38
62	T	HEPTANE	0.667	0.554	16.9	78	0.00	5.78
63	T	METHYL METHACRYLATE	0.319	0.303	5.0	87	0.01	5.69
64	T	METHYL ISOBUTYL KETONE	0.270	0.288	-6.7	91	0.03	6.48
65	T	CIS-1,3-DICHLOROPROPENE	0.478	0.415	13.2	80	0.00	6.35
66	T	TOLUENE	1.106	0.921	16.7	83	0.00	7.62
67	T	1,3-DICHLOROPROPANE	0.533	0.478	10.3	84	0.00	7.68
68	T	TRANS-1,3-DICHLOROPROPENE	0.421	0.369	12.4	80	0.00	7.07
69	T	1,1,2-TRICHLOROETHANE	0.316	0.283	10.4	84	0.00	7.24
70	T	2-HEXANONE	0.315	0.386	-22.5	108	0.02	8.23
71	T	ETHYL METHACRYLATE	0.471	0.497	-5.5	91	0.02	8.36
72	T	TETRACHLOROETHENE	0.382	0.352	7.9	82	0.00	9.41
73	T	DIBROMOCHLOROMETHANE	0.682	0.594	12.9	79	0.00	8.19
74	T	1,2-DIBROMOETHANE	0.579	0.524	9.5	85	0.00	8.54
75	T	OCTANE	0.882	0.757	14.2	78	0.00	9.56
76	I	CHLOROBENZENE-D5	1.000	1.000	0.0	86	0.00	10.59
77	T	1,1,1,2-TETRACHLOROETHANE	0.537	0.491	8.6	79	0.00	10.68
78	T	CHLOROBENZENE	0.966	0.933	3.4	83	0.00	10.67
79	t	ETHYLBENZENE	1.722	1.499	13.0	83	0.00	11.57
80	t	M,P-XYLENE	1.286	1.166	9.3	84	0.00	12.01
81	t	O-XYLENE	1.287	1.185	7.9	84	0.00	12.96
82	T	STYRENE	0.860	0.902	-4.9	84	0.00	12.75
83	T	NONANE	1.107	0.987	10.8	78	0.00	14.09
84	T	BROMOFORM	0.702	0.661	5.8	81	0.00	11.83
85	T	1,1,2,2-TETRACHLOROETHANE	0.914	0.919	-0.5	86	0.00	12.99
86	T	1,2,3-TRICHLOROPROPANE	0.715	0.696	2.7	84	0.00	13.27
87	S	4-BROMOFLUOROBENZENE	0.698	0.715	-2.4	87	0.00	14.02
88	T	ISOPROPYLBENZENE	1.774	1.715	3.3	82	0.00	14.50
89	T	BROMOBENZENE	0.856	0.847	1.1	84	0.00	14.38
90	T	2-CHLOROTOLUENE	1.158	1.195	-3.2	83	0.00	15.52
91	T	N-PROPYLBENZENE	1.955	2.077	-6.2	84	0.00	15.86
92	T	4-ETHYLTOLUENE	1.581	1.741	-10.1	83	0.00	16.20
93	T	1,3,5-TRIMETHYLBENZENE	1.337	1.433	-7.2	84	0.00	16.35
94	T	ALPHA-METHYLSTYRENE	0.670	0.783	-16.9	92	0.00	16.55
95	T	TERT-BUTYLBENZENE	1.501	1.618	-7.8	84	0.00	16.80
96	T	1,2,4-TRIMETHYLBENZENE	1.381	1.511	-9.4	84	0.00	16.81
97	T	BENZYL CHLORIDE	0.837	0.940	-12.3	94	0.00	16.89
98	T	M-DICHLOROBENZENE	0.961	1.015	-5.6	86	0.00	16.86
99	T	P-DICHLOROBENZENE	0.959	1.032	-7.6	88	0.00	16.95
100	T	O-DICHLOROBENZENE	0.940	0.994	-5.7	88	0.00	17.23

Continuing Calibration Summary

Job Number: JD54338 **Sample:** V6W1137-CC1125
Account: ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 6W26823.D
Project: EPT, Ithaca, NY

101	T	SEC-BUTYLBENZENE	2.046	2.225	-8.7	85	0.00	17.07
102	T	1,2,3-TRIMETHYLBENZENE	1.353	1.472	-8.8	84	0.00	17.18
103	T	P-ISOPROPYLTOLUENE	1.754	1.946	-10.9	85	0.00	17.25
104	T	N-BUTYLBENZENE	1.559	1.848	-18.5	88	0.00	17.59
105	T	HEXACHLOROETHANE	0.637	0.639	-0.3	88	0.00	17.77
106	T	HEXACHLOROBUTADIENE	0.696	0.735	-5.6	93	0.01	18.79
107	T	1,2,4-TRICHLOROBENZENE	0.781	0.914	-17.0	99	0.00	18.49
108	T	NAPHTHALENE	1.925	2.441	-26.8	106	0.00	18.54

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6W26454.D M6W1125.M Fri Nov 04 15:14:18 2022

Continuing Calibration Summary

Job Number: JD54338 **Sample:** V6W1138-CC1125
Account: ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 6W26863.D
Project: EPT, Ithaca, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\6W26863.D Vial: 2
Acq On : 4 Nov 2022 9:36 am Operator: thomash
Sample : cc1125-10 Inst : GCMS6W
Misc : MS63483,V6W1138,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\M6W1125.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
Last Update : Thu Oct 20 08:34:08 2022
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	BROMOCHLOROMETHANE	1.000	1.000	0.0	90	0.00	3.34
2	T	FREON 115	0.000	0.258	0.0	0#	0.00	1.67
3	T	FREON 152A	0.860	0.754	12.3	84	0.00	1.69
4	T	CHLORODIFLUOROMETHANE	0.390	0.342	12.3	83	0.00	1.71
5	T	CHLOROTRIFLUOROETHENE	1.882	1.712	9.0	88	0.00	1.72
6	T	DICHLORODIFLUOROMETHANE	3.127	3.269	-4.5	98	0.07	1.80
7	T	PROPYLENE	1.281	1.075	16.1	80	0.00	1.72
8	T	1-CHLORO-1,1-DIFLUOROETHA	2.864	2.959	-3.3	99	0.00	1.77
9	T	FREON 114	3.289	3.555	-8.1	106	0.00	1.80
10	T	CHLOROMETHANE	0.452	0.475	-5.1	104	0.00	1.77
11	T	VINYL CHLORIDE	1.370	1.529	-11.6	109	0.00	1.83
12	t	1,3-BUTADIENE	1.120	1.261	-12.6	110	0.00	1.87
13	T	N-BUTANE	2.525	2.542	-0.7	107	0.00	1.88
14	T	BROMOMETHANE	1.059	1.240	-17.1	114	0.00	1.94
15	T	CHLOROETHANE	0.656	0.778	-18.6	113	0.00	1.98
16	T	DICHLOROFLUOROMETHANE	2.784	3.143	-12.9	110	0.00	2.00
17	T	ACETONITRILE	1.471	1.624	-10.4	112	0.00	2.07
18	T	ACROLEIN	0.608	0.745	-22.5	109	0.00	2.10
19	T	FREON 123	2.640	3.045	-15.3	114	0.00	2.12
20	T	FREON 123A	1.592	1.790	-12.4	109	0.00	2.13
21	T	TRICHLOROFLUOROMETHANE	3.261	3.451	-5.8	105	0.00	2.19
22	T	ISOPROPYL ALCOHOL	3.290	3.223	2.0	103	0.00	2.21
23	T	ACETONE	0.740	0.816	-10.3	117	0.00	2.14
24	T	PENTANE	1.755	1.834	-4.5	108	0.00	2.30
25	T	IODOMETHANE	3.143	3.557	-13.2	111	0.00	2.36
26	T	1,1-DICHLOROETHYLENE	1.239	1.334	-7.7	101	0.00	2.39
27	T	CARBON DISULFIDE	3.927	4.151	-5.7	99	0.00	2.52
28	T	ETHANOL	0.759	0.788	-3.8	114	0.00	2.01
29	T	BROMOETHENE	1.110	1.286	-15.9	113	0.00	2.07
30	T	ACRYLONITRILE	1.109	1.244	-12.2	112	0.00	2.27
31	T	METHYLENE CHLORIDE	1.243	1.238	0.4	98	0.00	2.42
32	T	3-CHLOROPROPENE	0.605	0.653	-7.9	98	0.00	2.46
33	T	FREON 113	2.199	2.225	-1.2	92	0.00	2.52
34	T	TRANS-1,2-DICHLOROETHENE	1.384	1.446	-4.5	97	0.00	2.77
35	T	TERTIARY BUTYL ALCOHOL	2.690	2.227	17.2	82	0.00	2.40
36	t	METHYL TERTIARY BUTYL ETH	3.445	2.550	26.0	70	0.00	2.89
37	T	TETRAHYDROFURAN	0.640	0.712	-11.2	106	0.00	3.66
38	T	HEXANE	2.685	2.766	-3.0	98	0.00	3.39
39	T	VINYL ACETATE	0.332	0.357	-7.5	103	0.00	2.93
40	T	1,1-DICHLOROETHANE	2.639	2.720	-3.1	97	0.00	2.85
41	T	METHYL ETHYL KETONE	0.673	0.735	-9.2	103	0.00	3.04
42	T	CIS-1,2-DICHLOROETHENE	1.453	1.489	-2.5	97	0.00	3.26

Continuing Calibration Summary

Job Number: JD54338 **Sample:** V6W1138-CC1125
Account: ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 6W26863.D
Project: EPT, Ithaca, NY

43	T	DIISOPROPYL ETHER	0.772	0.702	9.1	85	0.00	3.40
44	T	ETHYL ACETATE	0.530	0.591	-11.5	106	0.00	3.41
45	T	METHYL ACRYLATE	3.320	3.629	-9.3	102	0.00	3.39
46	T	CHLOROFORM	2.982	2.994	-0.4	94	0.00	3.42
47	T	2,4-DIMETHYLPENTANE	3.034	3.245	-7.0	99	0.00	3.96
48	T	1,1,1-TRICHLOROETHANE	2.930	2.627	10.3	85	0.00	4.05
49	T	CARBON TETRACHLORIDE	3.141	2.965	5.6	86	0.00	4.50
50	T	1,2-DICHLOROETHANE	2.269	2.200	3.0	92	0.00	3.87
51	t	BENZENE	4.458	4.423	0.8	97	0.00	4.38
52	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	92	0.00	4.74
53	T	CYCLOHEXANE	0.365	0.379	-3.8	97	0.00	4.60
54	T	2,3-DIMETHYLPENTANE	0.199	0.205	-3.0	98	0.00	4.87
55	T	TRICHLOROETHENE	0.393	0.361	8.1	86	0.00	5.35
56	T	1,2-DICHLOROPROPANE	0.361	0.370	-2.5	96	0.00	5.10
57	T	DIBROMOMETHANE	0.370	0.343	7.3	89	0.00	5.06
58	T	ETHYL ACRYLATE	0.765	0.765	0.0	92	0.01	5.24
59	T	BROMODICHLOROMETHANE	0.661	0.592	10.4	84	0.00	5.30
60	T	2,2,4-TRIMETHYLPENTANE	1.654	1.514	8.5	85	0.00	5.44
61	T	1,4-DIOXANE	0.173	0.197	-13.9	106	0.01	5.38
62	T	HEPTANE	0.667	0.582	12.7	83	0.00	5.78
63	T	METHYL METHACRYLATE	0.319	0.314	1.6	91	0.01	5.69
64	T	METHYL ISOBUTYL KETONE	0.270	0.299	-10.7	96	0.02	6.47
65	T	CIS-1,3-DICHLOROPROPENE	0.478	0.424	11.3	82	0.00	6.35
66	T	TOLUENE	1.106	0.971	12.2	88	0.00	7.61
67	T	1,3-DICHLOROPROPANE	0.533	0.506	5.1	90	0.00	7.68
68	T	TRANS-1,3-DICHLOROPROPENE	0.421	0.376	10.7	82	0.00	7.07
69	T	1,1,2-TRICHLOROETHANE	0.316	0.298	5.7	89	0.00	7.24
70	T	2-HEXANONE	0.315	0.400	-27.0	113	0.02	8.22
71	T	ETHYL METHACRYLATE	0.471	0.522	-10.8	96	0.01	8.36
72	T	TETRACHLOROETHENE	0.382	0.371	2.9	88	0.00	9.42
73	T	DIBROMOCHLOROMETHANE	0.682	0.625	8.4	84	0.00	8.19
74	T	1,2-DIBROMOETHANE	0.579	0.543	6.2	89	0.00	8.54
75	T	OCTANE	0.882	0.801	9.2	83	0.00	9.56
76	I	CHLOROBENZENE-D5	1.000	1.000	0.0	87	0.00	10.59
77	T	1,1,1,2-TETRACHLOROETHANE	0.537	0.516	3.9	84	0.00	10.68
78	T	CHLOROBENZENE	0.966	0.981	-1.6	88	0.00	10.67
79	t	ETHYLBENZENE	1.722	1.570	8.8	88	0.00	11.57
80	t	M,P-XYLENE	1.286	1.218	5.3	89	0.00	12.01
81	t	O-XYLENE	1.287	1.234	4.1	89	0.00	12.96
82	T	STYRENE	0.860	0.945	-9.9	89	0.00	12.75
83	T	NONANE	1.107	1.038	6.2	83	0.00	14.09
84	T	BROMOFORM	0.702	0.685	2.4	85	0.00	11.83
85	T	1,1,2,2-TETRACHLOROETHANE	0.914	0.972	-6.3	92	0.00	12.99
86	T	1,2,3-TRICHLOROPROPANE	0.715	0.729	-2.0	89	0.00	13.27
87	S	4-BROMOFLUOROBENZENE	0.698	0.704	-0.9	87	0.00	14.03
88	T	ISOPROPYLBENZENE	1.774	1.813	-2.2	88	0.00	14.50
89	T	BROMOBENZENE	0.856	0.896	-4.7	90	0.00	14.37
90	T	2-CHLOROTOLUENE	1.158	1.271	-9.8	90	0.00	15.53
91	T	N-PROPYLBENZENE	1.955	2.198	-12.4	90	0.00	15.86
92	T	4-ETHYLTOLUENE	1.581	1.840	-16.4	89	0.00	16.20
93	T	1,3,5-TRIMETHYLBENZENE	1.337	1.526	-14.1	91	0.00	16.35
94	T	ALPHA-METHYLSTYRENE	0.670	0.819	-22.2	98	0.00	16.55
95	T	TERT-BUTYLBENZENE	1.501	1.718	-14.5	90	0.00	16.80
96	T	1,2,4-TRIMETHYLBENZENE	1.381	1.602	-16.0	91	0.00	16.81
97	T	BENZYL CHLORIDE	0.837	0.932	-11.4	94	0.00	16.89
98	T	M-DICHLOROBENZENE	0.961	1.069	-11.2	92	0.00	16.86
99	T	P-DICHLOROBENZENE	0.959	1.093	-14.0	94	0.00	16.95
100	T	O-DICHLOROBENZENE	0.940	1.055	-12.2	95	0.00	17.24

Continuing Calibration Summary

Job Number: JD54338 **Sample:** V6W1138-CC1125
Account: ESCVAR WSP USA Environment & Infrastructure Inc **Lab FileID:** 6W26863.D
Project: EPT, Ithaca, NY

101	T	SEC-BUTYLBENZENE	2.046	2.360	-15.3	91	0.00	17.07
102	T	1,2,3-TRIMETHYLBENZENE	1.353	1.555	-14.9	90	0.00	17.18
103	T	P-ISOPROPYLTOLUENE	1.754	2.025	-15.5	90	0.00	17.25
104	T	N-BUTYLBENZENE	1.559	1.949	-25.0	94	0.00	17.59
105	T	HEXACHLOROETHANE	0.637	0.674	-5.8	94	0.00	17.77
106	T	HEXACHLOROBUTADIENE	0.696	0.787	-13.1	101	0.02	18.80
107	T	1,2,4-TRICHLOROBENZENE	0.781	0.945	-21.0	104	0.01	18.49
108	T	NAPHTHALENE	1.925	2.563	-33.1#	113	0.01	18.54

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6W26454.D M6W1125.M Tue Nov 08 15:59:21 2022

Run Sequence Report

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Run ID: V2W2709	**Method:** TO-15	**Instrument ID:** GCMS2W

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V2W2709-BFB	2W61009.D	08/19/22 10:50	n/a	BFB Tune
V2W2709-IC2709	2W61010.D	08/19/22 11:22	n/a	Initial cal 0.04
V2W2709-IC2709	2W61011.D	08/19/22 11:55	n/a	Initial cal 0.1
V2W2709-IC2709	2W61012.D	08/19/22 12:27	n/a	Initial cal 0.2
V2W2709-IC2709	2W61013.D	08/19/22 12:59	n/a	Initial cal 0.5
V2W2709-IC2709	2W61015.D	08/19/22 14:02	n/a	Initial cal 5
V2W2709-ICC2709	2W61016.D	08/19/22 14:34	n/a	Initial cal 10
V2W2709-IC2709	2W61017.D	08/19/22 15:08	n/a	Initial cal 20
V2W2709-IC2709	2W61018.D	08/19/22 15:45	n/a	Initial cal 40
V2W2709-IC2709	2W61019.D	08/19/22 16:25	n/a	Initial cal 50
V2W2709-ICV2709	2W61022.D	08/19/22 18:00	n/a	Initial cal verification 10

Run Sequence Report

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Run ID: V2W2734	**Method:** TO-15	**Instrument ID:** GCMS2W

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V2W2734-BFB	2W61610.D	09/27/22 07:25	n/a	BFB Tune
V2W2734-CC2709	2W61611.D	09/27/22 07:58	n/a	Continuing cal 10
V2W2734-BS	2W61612.D	09/27/22 08:57	n/a	Blank Spike
V2W2734-BSD	2W61613.D	09/27/22 09:29	n/a	Blank Spike Duplicate
V2W2734-MB	2W61615.D	09/27/22 10:49	n/a	Method Blank
ZZZZZZ	2W61616.D	09/27/22 11:38	n/a	(unrelated sample)
ZZZZZZ	2W61617.D	09/27/22 12:16	n/a	(unrelated sample)
JD52279-6	2W61618.D	09/27/22 12:55	n/a	(used for QC only; not part of job JD54338)
JD52279-6DUP	2W61619.D	09/27/22 13:36	n/a	Duplicate
ZZZZZZ	2W61620.D	09/27/22 14:08	n/a	(unrelated sample)
ZZZZZZ	2W61621.D	09/27/22 14:59	n/a	(unrelated sample)
V2W2734-SCC	2W61622.D	09/27/22 15:37	n/a	Summa Cleaning Certification
V2W2734-SCC	2W61623.D	09/27/22 16:15	n/a	Summa Cleaning Certification
V2W2734-SCC	2W61625.D	09/27/22 17:24	n/a	Summa Cleaning Certification
V2W2734-SCC	2W61626.D	09/27/22 17:57	n/a	Summa Cleaning Certification
V2W2734-SCC	2W61627.D	09/27/22 18:29	n/a	Summa Cleaning Certification

Run Sequence Report

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Run ID: V6W1077	**Method:** TO-15	**Instrument ID:** GCMS6W

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V6W1077-BFB	6W25315.D	08/04/22 17:09	n/a	BFB Tune
V6W1077-IC1077	6W25316.D	08/04/22 17:54	n/a	Initial cal 0.04
V6W1077-IC1077	6W25317.D	08/04/22 18:39	n/a	Initial cal 0.1
V6W1077-IC1077	6W25318.D	08/04/22 19:25	n/a	Initial cal 0.2
V6W1077-IC1077	6W25319.D	08/04/22 20:11	n/a	Initial cal 0.5
V6W1077-IC1077	6W25321.D	08/04/22 21:41	n/a	Initial cal 5
V6W1077-ICC1077	6W25322.D	08/04/22 22:26	n/a	Initial cal 10
V6W1077-IC1077	6W25323.D	08/04/22 23:14	n/a	Initial cal 20
V6W1077-IC1077	6W25324.D	08/05/22 00:05	n/a	Initial cal 40
V6W1077-IC1077	6W25325.D	08/05/22 00:59	n/a	Initial cal 50
V6W1077-ICV1077	6W25328.D	08/05/22 03:17	n/a	Initial cal verification 10

Run Sequence Report

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Run ID: V6W1083	**Method:** TO-15	**Instrument ID:** GCMS6W

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V6W1083-BFB	6W25438.D	08/11/22 07:24	n/a	BFB Tune
V6W1083-CC1077	6W25439.D	08/11/22 08:20	n/a	Continuing cal 10
V6W1083-BS	6W25440.D	08/11/22 09:21	n/a	Blank Spike
V6W1083-BSD	6W25441.D	08/11/22 10:25	n/a	Blank Spike Duplicate
V6W1083-MB	6W25444.D	08/11/22 12:47	n/a	Method Blank
JD49709-1	6W25445.D	08/11/22 13:33	n/a	(used for QC only; not part of job JD54338)
JD49709-1DUP	6W25446.D	08/11/22 14:19	n/a	Duplicate
ZZZZZZ	6W25447.D	08/11/22 15:24	n/a	(unrelated sample)
V6W1083-SCC	6W25451.D	08/11/22 18:38	n/a	Summa Cleaning Certification
V6W1083-SCC	6W25452.D	08/11/22 19:25	n/a	Summa Cleaning Certification
V6W1083-SCC	6W25453.D	08/11/22 20:12	n/a	Summa Cleaning Certification
V6W1083-SCC	6W25454.D	08/11/22 20:58	n/a	Summa Cleaning Certification
V6W1083-SCC	6W25455.D	08/11/22 21:50	n/a	Summa Cleaning Certification

Run Sequence Report

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Run ID: V6W1125	**Method:** TO-15	**Instrument ID:** GCMS6W

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V6W1125-BFB	6W26446.D	10/19/22 17:44	n/a	BFB Tune
V6W1125-IC1125	6W26448.D	10/19/22 19:10	n/a	Initial cal 0.04
V6W1125-IC1125	6W26449.D	10/19/22 19:43	n/a	Initial cal 0.1
V6W1125-IC1125	6W26450.D	10/19/22 20:15	n/a	Initial cal 0.2
V6W1125-IC1125	6W26451.D	10/19/22 20:47	n/a	Initial cal 0.5
V6W1125-IC1125	6W26453.D	10/19/22 21:52	n/a	Initial cal 5
V6W1125-ICC1125	6W26454.D	10/19/22 22:25	n/a	Initial cal 10
V6W1125-IC1125	6W26455.D	10/19/22 22:57	n/a	Initial cal 20
V6W1125-IC1125	6W26456.D	10/19/22 23:29	n/a	Initial cal 40
V6W1125-IC1125	6W26457.D	10/20/22 00:03	n/a	Initial cal 50
V6W1125-ICV1125	6W26462.D	10/20/22 09:08	n/a	Initial cal verification 10

Run Sequence Report

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Run ID: V6W1137	**Method:** TO-15	**Instrument ID:** GCMS6W

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V6W1137-BFB	6W26822.D	11/03/22 09:04	n/a	BFB Tune
V6W1137-CC1125	6W26823.D	11/03/22 09:36	n/a	Continuing cal 10
V6W1137-BS	6W26824.D	11/03/22 10:14	n/a	Blank Spike
V6W1137-BSD	6W26825.D	11/03/22 10:45	n/a	Blank Spike Duplicate
V6W1137-MB	6W26830.D	11/03/22 14:39	n/a	Method Blank
ZZZZZZ	6W26831.D	11/03/22 15:48	n/a	(unrelated sample)
ZZZZZZ	6W26832.D	11/03/22 16:21	n/a	(unrelated sample)
JD53652-1	6W26833.D	11/03/22 16:53	n/a	(used for QC only; not part of job JD54338)
JD53652-1DUP	6W26834.D	11/03/22 17:26	n/a	Duplicate
ZZZZZZ	6W26835.D	11/03/22 17:59	n/a	(unrelated sample)
ZZZZZZ	6W26836.D	11/03/22 18:31	n/a	(unrelated sample)
ZZZZZZ	6W26837.D	11/03/22 19:03	n/a	(unrelated sample)
ZZZZZZ	6W26838.D	11/03/22 19:35	n/a	(unrelated sample)
ZZZZZZ	6W26839.D	11/03/22 20:07	n/a	(unrelated sample)
ZZZZZZ	6W26840.D	11/03/22 20:40	n/a	(unrelated sample)
JD54338-1	6W26841.D	11/03/22 21:12	n/a	VPOST GAC
JD54338-2	6W26842.D	11/03/22 21:46	n/a	VINF
ZZZZZZ	6W26843.D	11/03/22 22:19	n/a	(unrelated sample)
ZZZZZZ	6W26844.D	11/03/22 22:51	n/a	(unrelated sample)
ZZZZZZ	6W26846.D	11/03/22 23:58	n/a	(unrelated sample)
ZZZZZZ	6W26847.D	11/04/22 00:31	n/a	(unrelated sample)
ZZZZZZ	6W26848.D	11/04/22 01:04	n/a	(unrelated sample)
ZZZZZZ	6W26849.D	11/04/22 01:37	n/a	(unrelated sample)
V6W1137-SCC	6W26852.D	11/04/22 03:16	n/a	Summa Cleaning Certification
V6W1137-SCC	6W26853.D	11/04/22 03:48	n/a	Summa Cleaning Certification
V6W1137-SCC	6W26854.D	11/04/22 04:20	n/a	Summa Cleaning Certification
V6W1137-SCC	6W26855.D	11/04/22 04:53	n/a	Summa Cleaning Certification
V6W1137-SCC	6W26856.D	11/04/22 05:25	n/a	Summa Cleaning Certification
V6W1137-SCC	6W26859.D	11/04/22 07:04	n/a	Summa Cleaning Certification
V6W1137-SCC	6W26860.D	11/04/22 07:37	n/a	Summa Cleaning Certification

Run Sequence Report

Job Number: JD54338
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY

Run ID: V6W1138	**Method:** TO-15	**Instrument ID:** GCMS6W

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V6W1138-BFB	6W26862.D	11/04/22 09:04	n/a	BFB Tune
V6W1138-CC1125	6W26863.D	11/04/22 09:36	n/a	Continuing cal 10
V6W1138-BS	6W26864.D	11/04/22 10:15	n/a	Blank Spike
V6W1138-BSD	6W26865.D	11/04/22 10:47	n/a	Blank Spike Duplicate
V6W1138-MB	6W26867.D	11/04/22 11:58	n/a	Method Blank
JD54338-1	6W26868.D	11/04/22 12:51	n/a	VPOST GAC
ZZZZZZ	6W26869.D	11/04/22 13:22	n/a	(unrelated sample)
ZZZZZZ	6W26870.D	11/04/22 13:54	n/a	(unrelated sample)
JD54423-15	6W26871.D	11/04/22 14:27	n/a	(used for QC only; not part of job JD54338)
JD54423-15DUP	6W26872.D	11/04/22 15:00	n/a	Duplicate
ZZZZZZ	6W26874.D	11/04/22 16:06	n/a	(unrelated sample)
ZZZZZZ	6W26876.D	11/04/22 17:10	n/a	(unrelated sample)
ZZZZZZ	6W26878.D	11/04/22 18:16	n/a	(unrelated sample)
ZZZZZZ	6W26880.D	11/04/22 19:21	n/a	(unrelated sample)
ZZZZZZ	6W26882.D	11/04/22 20:25	n/a	(unrelated sample)
ZZZZZZ	6W26884.D	11/04/22 21:30	n/a	(unrelated sample)
V6W1138-SCC	6W26899.D	11/05/22 05:49	n/a	Summa Cleaning Certification
V6W1138-SCC	6W26900.D	11/05/22 06:21	n/a	Summa Cleaning Certification

MS Volatiles

Raw Data

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 11/10/22 11:08

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26841.D
Acq On : 3 Nov 2022 9:12 pm
Operator : thomash
Sample : jd54338-1
Misc : MS63293,V6W1137,100,,,,1
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Nov 08 13:33:03 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration

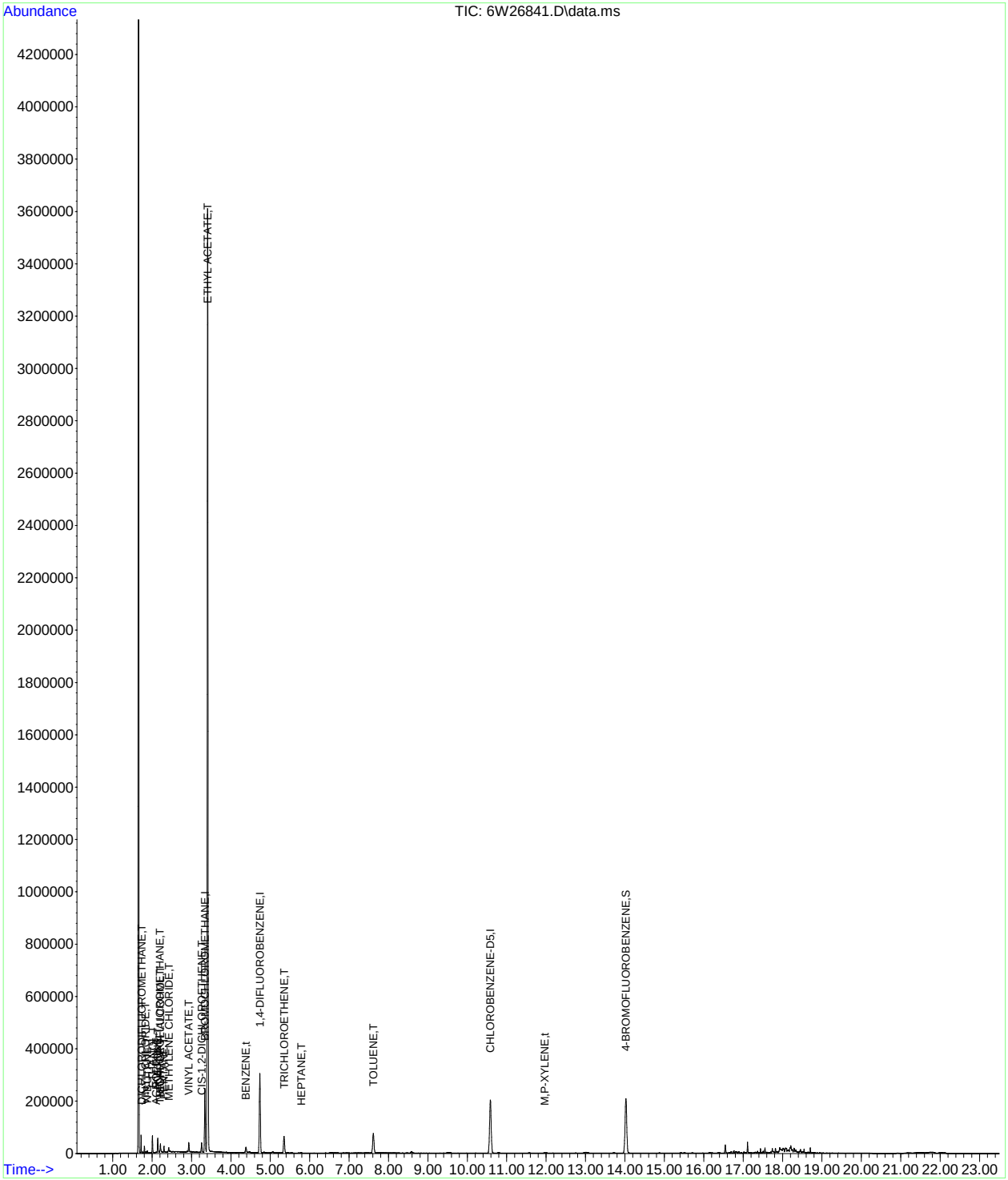
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	3.341	128	44814	10.00	PPBV	# 0.00
52) 1,4-DIFLUOROBENZENE	4.737	114	228657	10.00	PPBV	0.00
76) CHLOROBENZENE-D5	10.585	117	182102	10.00	PPBV	0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	14.022	95	125264	9.85	PPBV	0.00
Target Compounds						Qvalue
6) DICHLORODIFLUOROMETHANE	1.734	85	1842	0.13	PPBV	# 93
11) VINYL CHLORIDE	1.830	62	2245	0.37	PPBV	# 95
13) N-BUTANE	1.881	43	3721	0.33	PPBV	# 60
18) ACROLEIN	2.103	56	969	0.36	PPBV	96
21) TRICHLOROFLUOROMETHANE	2.193	101	1629	0.11	PPBV	# 94
22) ISOPROPYL ALCOHOL	2.213	45	20371	1.38	PPBV	# 88
23) ACETONE	2.142	58	9641	2.91	PPBV	# 45
24) PENTANE	2.303	42	4506	0.57	PPBV	# 94
28) ETHANOL	2.010	45	33856	9.95	PPBV	97
31) METHYLENE CHLORIDE	2.425	84	3283	0.59	PPBV	# 59
39) VINYL ACETATE	2.933	86	2856	1.92	PPBV	# 1
42) CIS-1,2-DICHLOROETHENE	3.258	96	10461	1.61	PPBV	# 79
44) ETHYL ACETATE	3.412	61	414072	174.21	PPBV	# 13
51) BENZENE	4.380	78	15042	0.75	PPBV	81
55) TRICHLOROETHENE	5.351	95	21415	2.39	PPBV	99
62) HEPTANE	5.782	43	1602	0.11	PPBV	# 54
66) TOLUENE	7.614	91	71451	2.82	PPBV	99
80) M,P-XYLENE	11.958	91	2488m	0.11	PPBV	

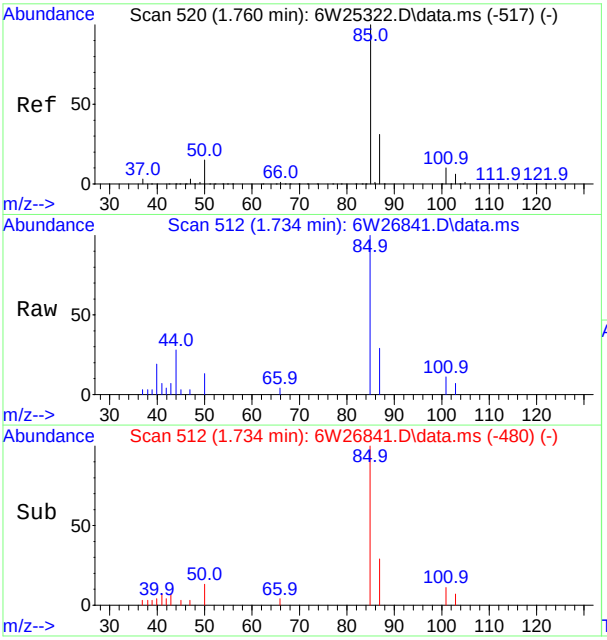
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26841.D
Acq On : 3 Nov 2022 9:12 pm
Operator : thomash
Sample : jd54338-1
Misc : MS63293,V6W1137,100,,,,1
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Nov 08 13:33:03 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration

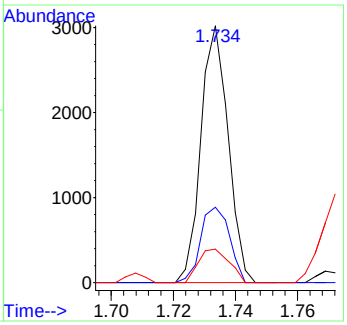


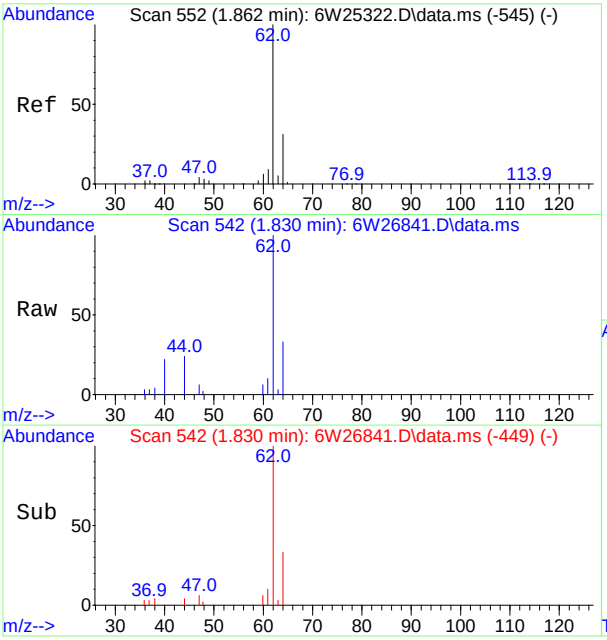


#6
DICHLORODIFLUOROMETHANE
Concen: 0.13 PPBV
RT: 1.734 min Scan# 512
Delta R.T. 0.003 min
Lab File: 6W26841.D
Acq: 3 Nov 2022 9:12 pm

Tgt Ion: 85 Resp: 1842

Ion	Ratio	Lower	Upper
85	100		
87	31.2	25.8	38.6
50	0.0	7.4	11.2#

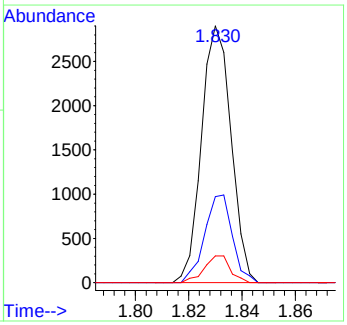


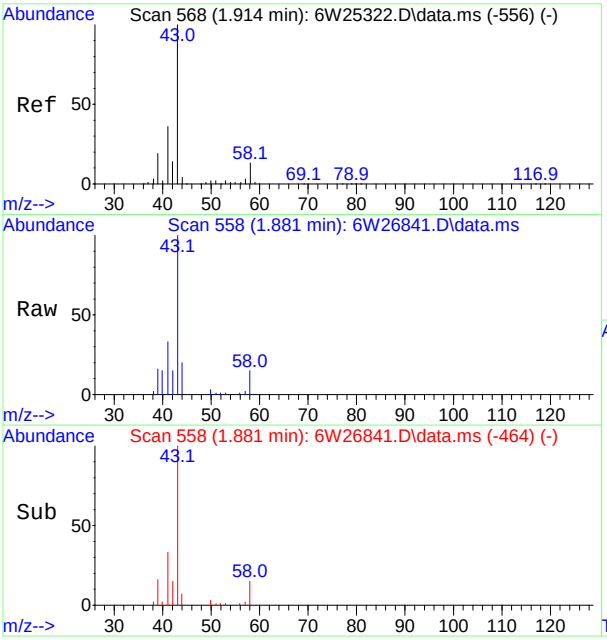


#11
VINYL CHLORIDE
Concen: 0.37 PPBV
RT: 1.830 min Scan# 542
Delta R.T. 0.000 min
Lab File: 6W26841.D
Acq: 3 Nov 2022 9:12 pm

Tgt Ion: 62 Resp: 2245

Ion	Ratio	Lower	Upper
62	100		
64	32.0	25.7	38.5
61	0.0	6.7	10.1#

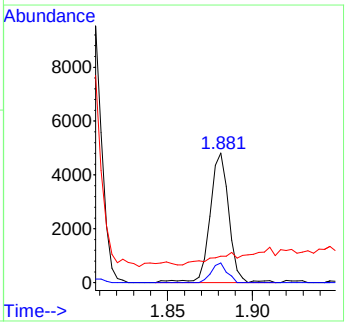


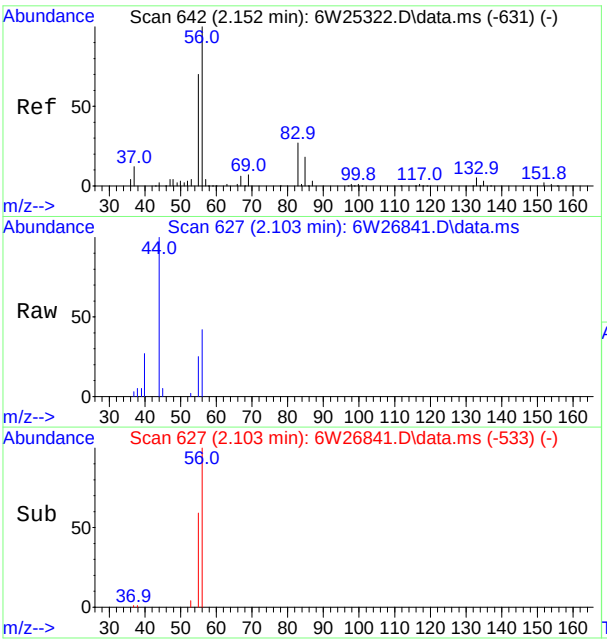


#13
N-BUTANE
Concen: 0.33 PPBV
RT: 1.881 min Scan# 558
Delta R.T. 0.003 min
Lab File: 6W26841.D
Acq: 3 Nov 2022 9:12 pm

Tgt Ion: 43 Resp: 3721

Ion	Ratio	Lower	Upper
43	100		
58	0.0	14.2	21.2#
44	18.2	4.2	6.4#

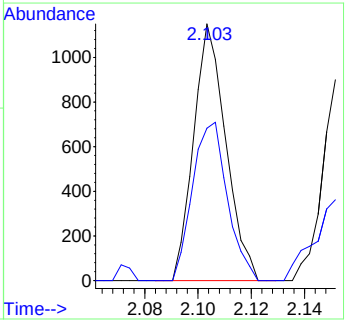


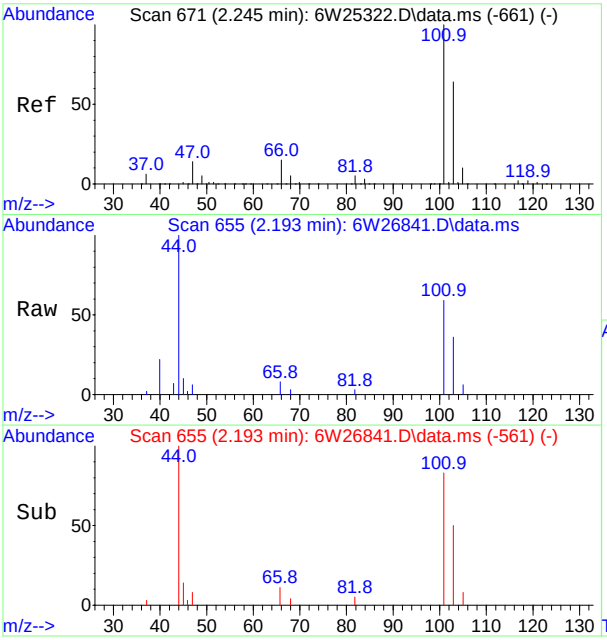


#18
ACROLEIN
Concen: 0.36 PPBV
RT: 2.103 min Scan# 627
Delta R.T. 0.003 min
Lab File: 6W26841.D
Acq: 3 Nov 2022 9:12 pm

Tgt Ion: 56 Resp: 969

Ion	Ratio	Lower	Upper
56	100		
55	66.7	56.0	84.0

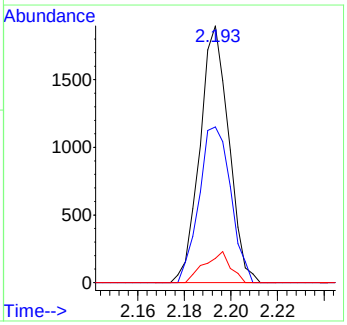


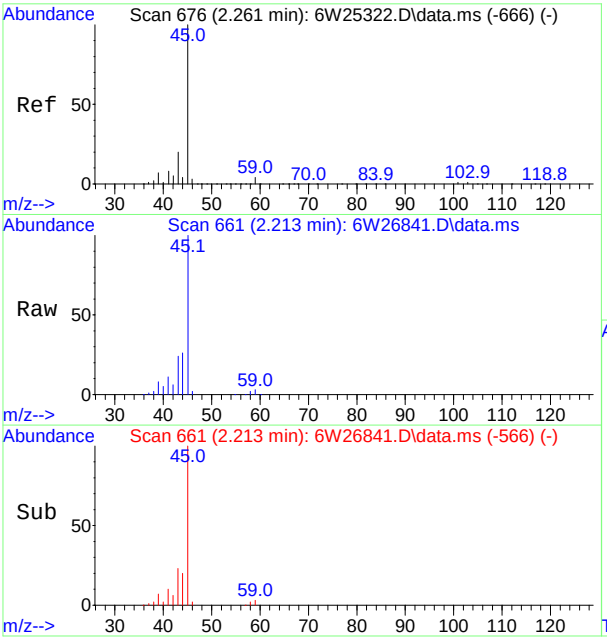


#21
TRICHLOROFLUOROMETHANE
Concen: 0.11 PPBV
RT: 2.193 min Scan# 655
Delta R.T. 0.003 min
Lab File: 6W26841.D
Acq: 3 Nov 2022 9:12 pm

Tgt Ion:101 Resp: 1629

Ion	Ratio	Lower	Upper
101	100		
103	66.8	51.8	77.6
105	0.0	8.4	12.6#

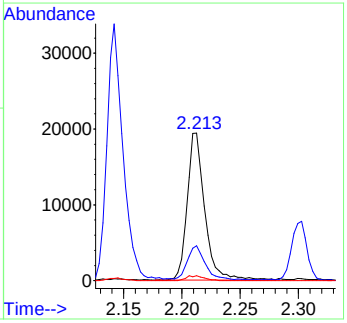


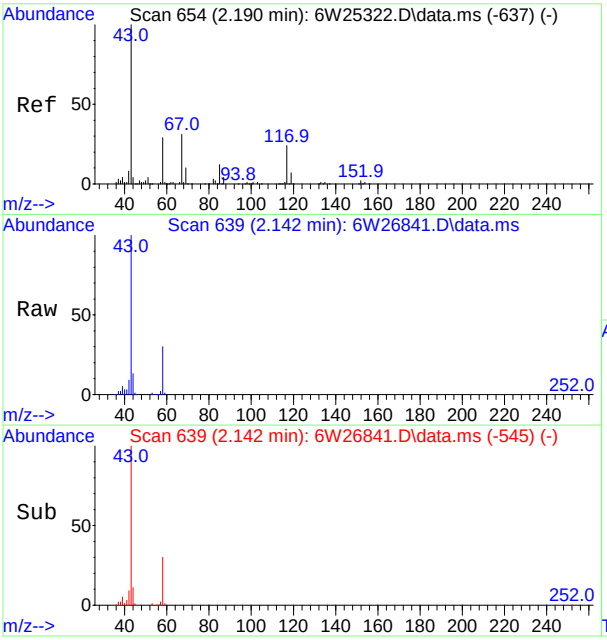


#22
ISOPROPYL ALCOHOL
Concen: 1.38 PPBV
RT: 2.213 min Scan# 661
Delta R.T. 0.007 min
Lab File: 6W26841.D
Acq: 3 Nov 2022 9:12 pm

Tgt Ion: 45 Resp: 20371

Ion	Ratio	Lower	Upper
45	100		
43	25.9	15.5	23.3#
59	3.4	4.1	6.1#

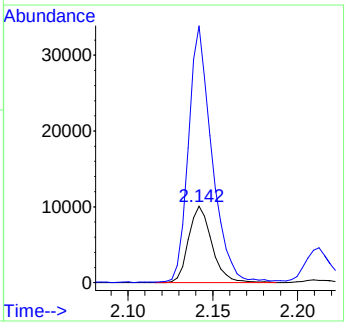


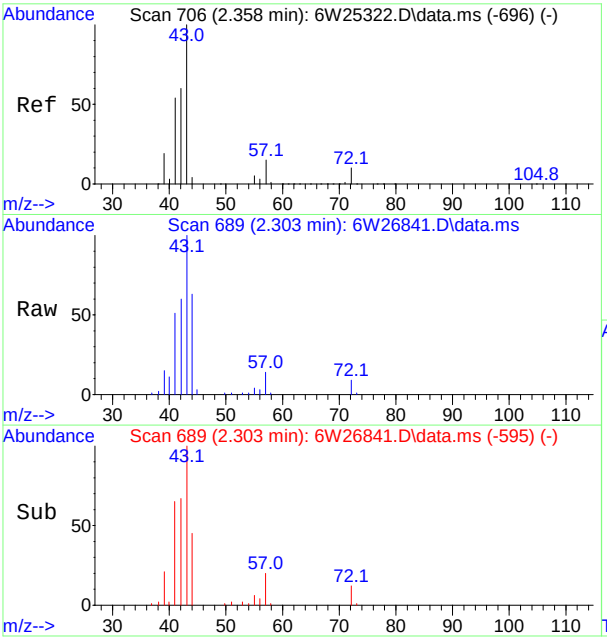


#23
ACETONE
Concen: 2.91 PPBV
RT: 2.142 min Scan# 639
Delta R.T. 0.003 min
Lab File: 6W26841.D
Acq: 3 Nov 2022 9:12 pm

Tgt Ion: 58 Resp: 9641

Ion	Ratio	Lower	Upper
58	100		
43	340.3	195.9	293.9#

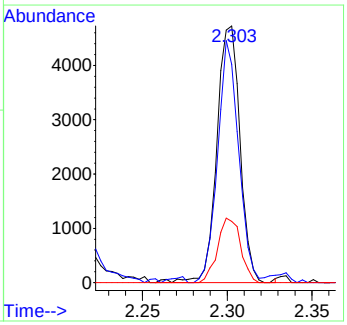


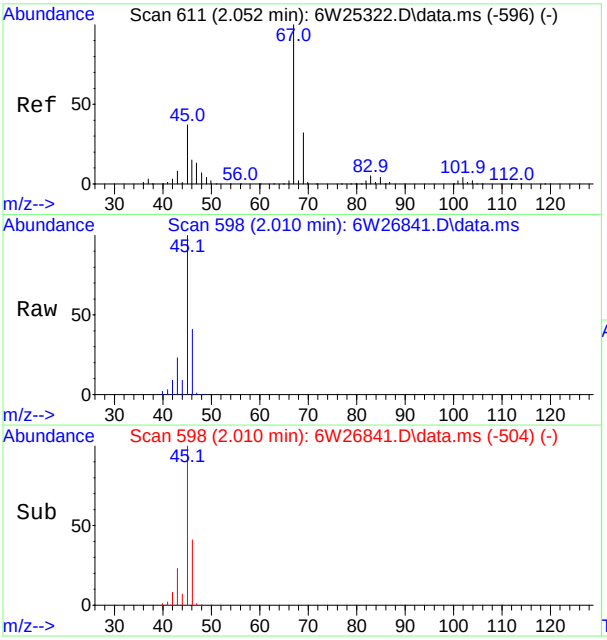


#24
PENTANE
Concen: 0.57 PPBV
RT: 2.303 min Scan# 689
Delta R.T. 0.003 min
Lab File: 6W26841.D
Acq: 3 Nov 2022 9:12 pm

Tgt Ion: 42 Resp: 4506

Ion	Ratio	Lower	Upper
42	100		
41	88.7	69.5	104.3
57	25.0	27.4	41.0#

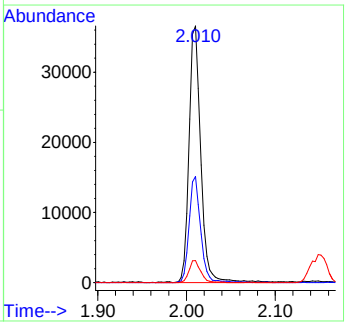


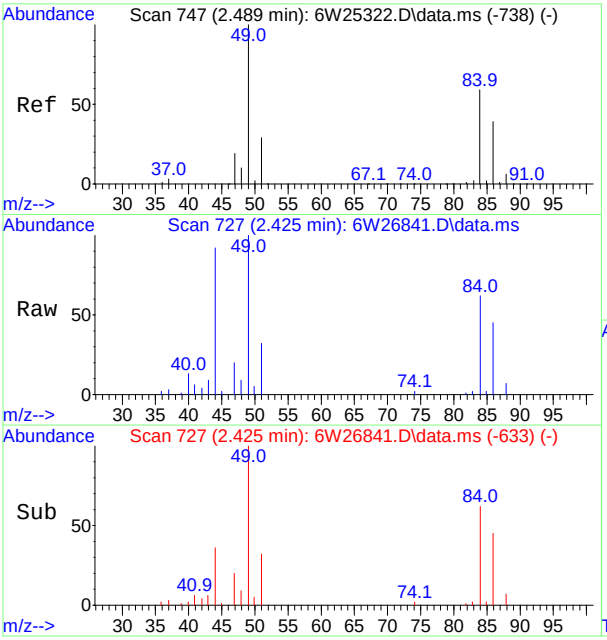


#28
ETHANOL
Concen: 9.95 PPBV
RT: 2.010 min Scan# 598
Delta R.T. 0.003 min
Lab File: 6W26841.D
Acq: 3 Nov 2022 9:12 pm

Tgt Ion: 45 Resp: 33856

Ion	Ratio	Lower	Upper
45	100		
46	40.6	34.1	51.1
42	8.6	6.1	9.1

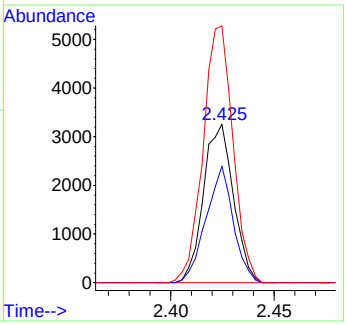


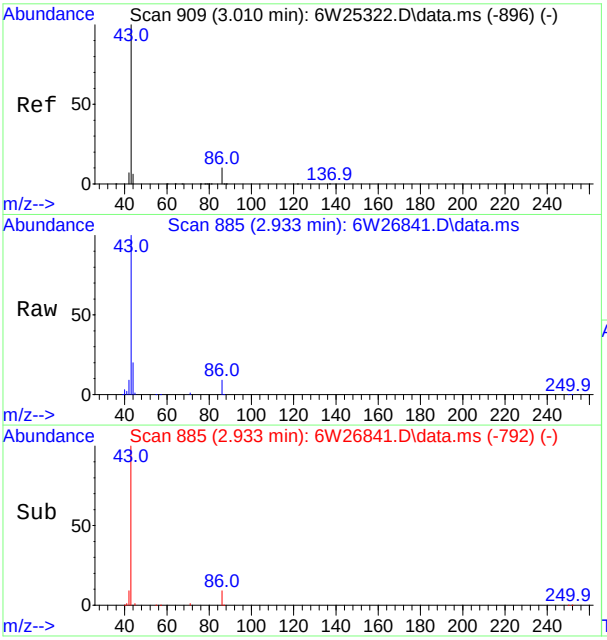


#31
METHYLENE CHLORIDE
Concen: 0.59 PPBV
RT: 2.425 min Scan# 727
Delta R.T. 0.003 min
Lab File: 6W26841.D
Acq: 3 Nov 2022 9:12 pm

Tgt Ion: 84 Resp: 3283

Ion	Ratio	Lower	Upper
84	100		
86	66.8	50.9	76.3
49	161.7	78.6	118.0#

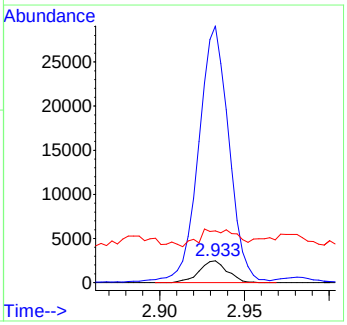


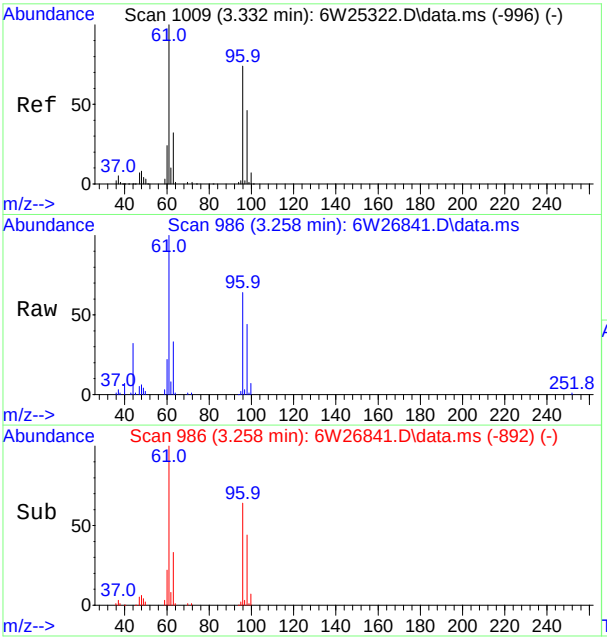


#39
VINYL ACETATE
Concen: 1.92 PPBV
RT: 2.933 min Scan# 885
Delta R.T. 0.000 min
Lab File: 6W26841.D
Acq: 3 Nov 2022 9:12 pm

Tgt Ion: 86 Resp: 2856

Ion	Ratio	Lower	Upper
86	100		
43	1279.8	626.3	939.5#
44	124.8	34.5	51.7#

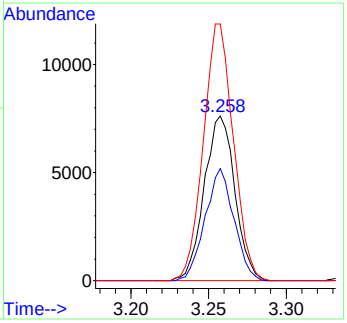


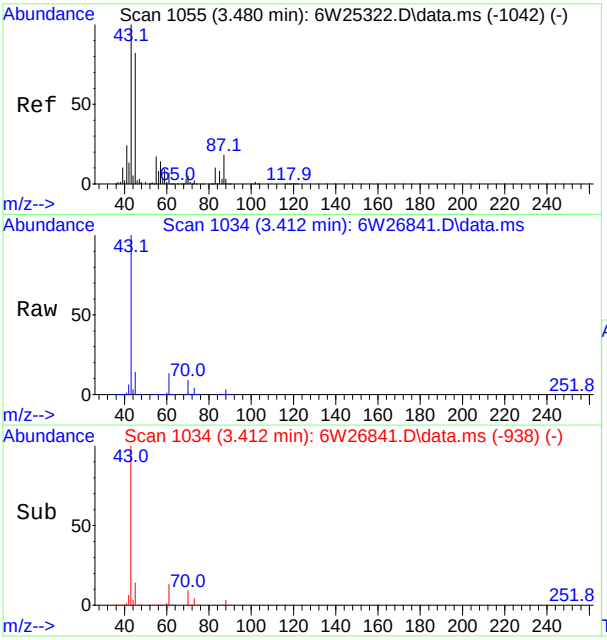


#42
CIS-1,2-DICHLOROETHENE
Concen: 1.61 PPBV
RT: 3.258 min Scan# 986
Delta R.T. 0.003 min
Lab File: 6W26841.D
Acq: 3 Nov 2022 9:12 pm

Tgt Ion: 96 Resp: 10461

Ion	Ratio	Lower	Upper
96	100		
98	64.0	51.1	76.7
61	152.5	93.9	140.9#

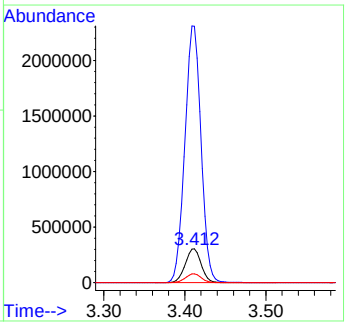


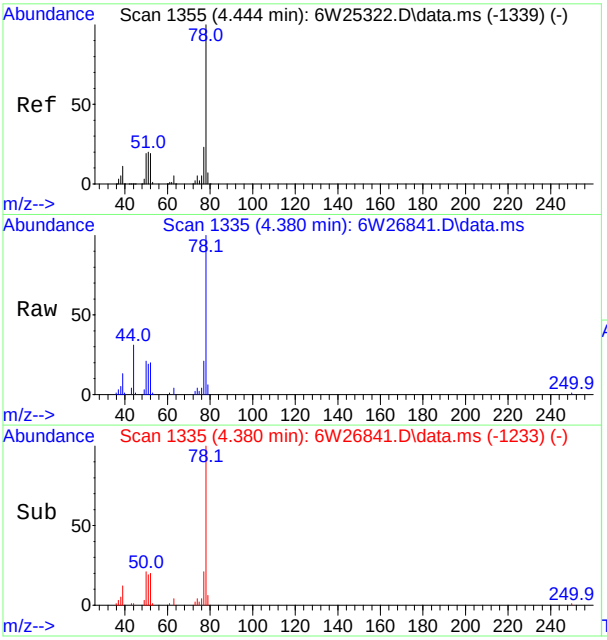


#44
ETHYL ACETATE
Concen: 174.21 PPBV
RT: 3.412 min Scan# 1034
Delta R.T. 0.010 min
Lab File: 6W26841.D
Acq: 3 Nov 2022 9:12 pm

Tgt Ion: 61 Resp: 414072

Ion	Ratio	Lower	Upper
61	100		
43	773.5	986.2	1479.2#
88	26.0	38.8	58.2#

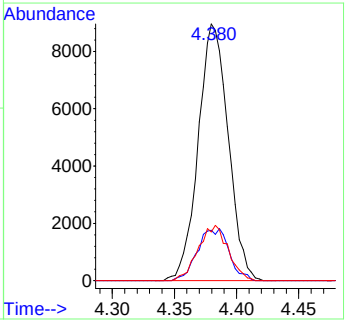


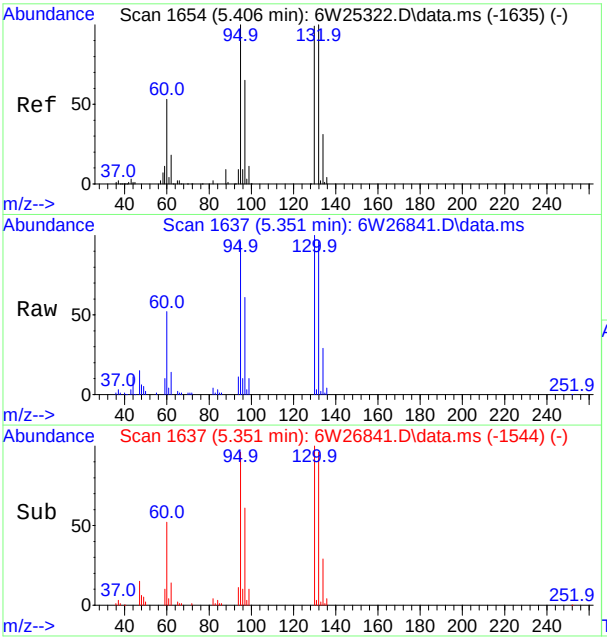


#51
BENZENE
Concen: 0.75 PPBV
RT: 4.380 min Scan# 1335
Delta R.T. -0.003 min
Lab File: 6W26841.D
Acq: 3 Nov 2022 9:12 pm

Tgt Ion: 78 Resp: 15042

Ion	Ratio	Lower	Upper
78	100		
52	21.3	0.0	34.0
51	21.5	0.0	33.5

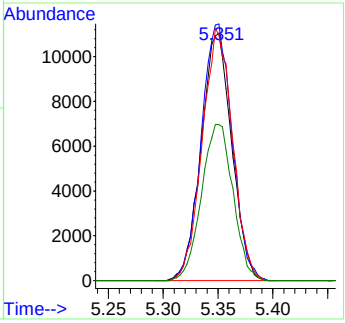


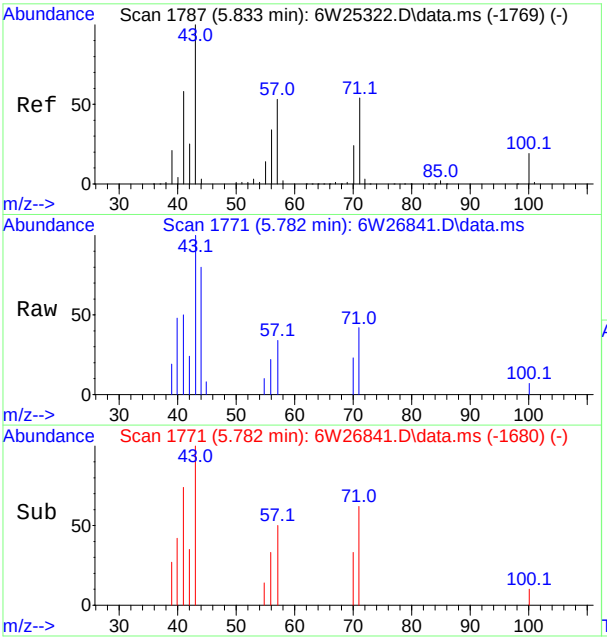


#55
TRICHLOROETHENE
Concen: 2.39 PPBV
RT: 5.351 min Scan# 1637
Delta R.T. 0.000 min
Lab File: 6W26841.D
Acq: 3 Nov 2022 9:12 pm

Tgt Ion: 95 Resp: 21415

Ion	Ratio	Lower	Upper
95	100		
130	104.7	83.2	124.8
132	100.6	79.8	119.6
97	64.8	51.3	76.9

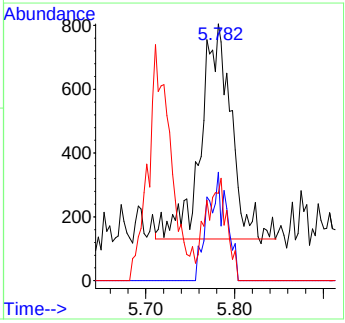


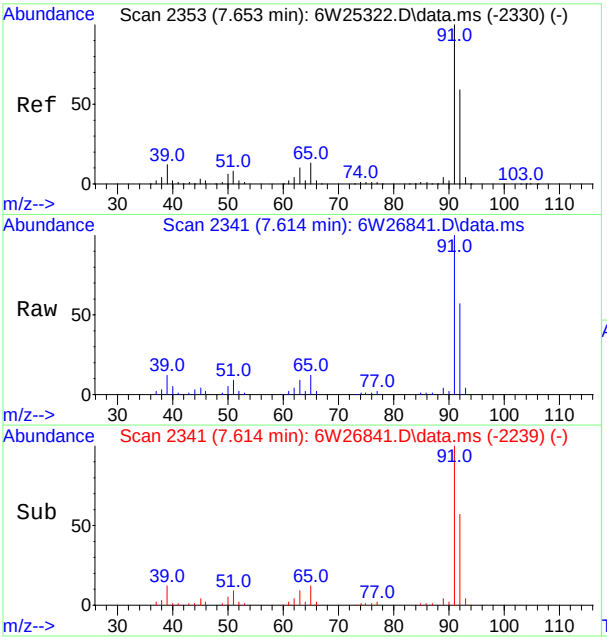


#62
HEPTANE
Concen: 0.11 PPBV
RT: 5.782 min Scan# 1771
Delta R.T. -0.006 min
Lab File: 6W26841.D
Acq: 3 Nov 2022 9:12 pm

Tgt Ion: 43 Resp: 1602

Ion	Ratio	Lower	Upper
43	100		
71	32.2	60.6	90.8#
57	32.5	50.2	75.4#

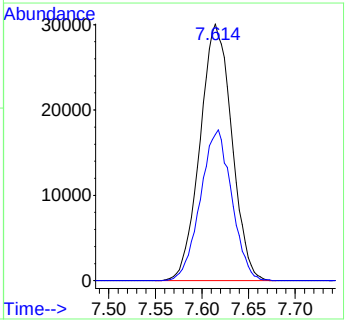


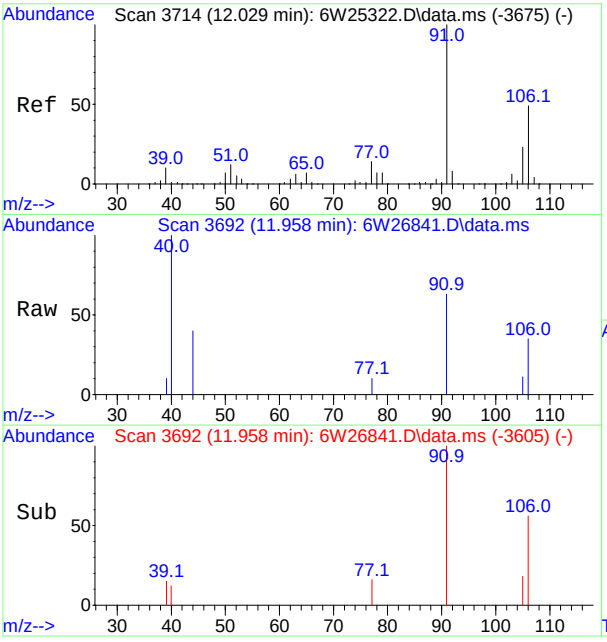


#66
TOLUENE
Concen: 2.82 PPBV
RT: 7.614 min Scan# 2341
Delta R.T. -0.003 min
Lab File: 6W26841.D
Acq: 3 Nov 2022 9:12 pm

Tgt Ion: 91 Resp: 71451

Ion	Ratio	Lower	Upper
91	100		
92	57.9	38.9	78.9

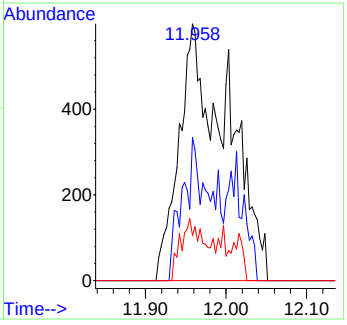




#80
M,P-XYLENE
Concen: 0.11 PPBV m
RT: 11.958 min Scan# 3692
Delta R.T. -0.051 min
Lab File: 6W26841.D
Acq: 3 Nov 2022 9:12 pm

Tgt Ion: 91 Resp: 2488

Ion	Ratio	Lower	Upper
91	100		
106	48.3	31.5	71.5
105	0.0	3.6	43.6#



Manual Integration Approval Summary

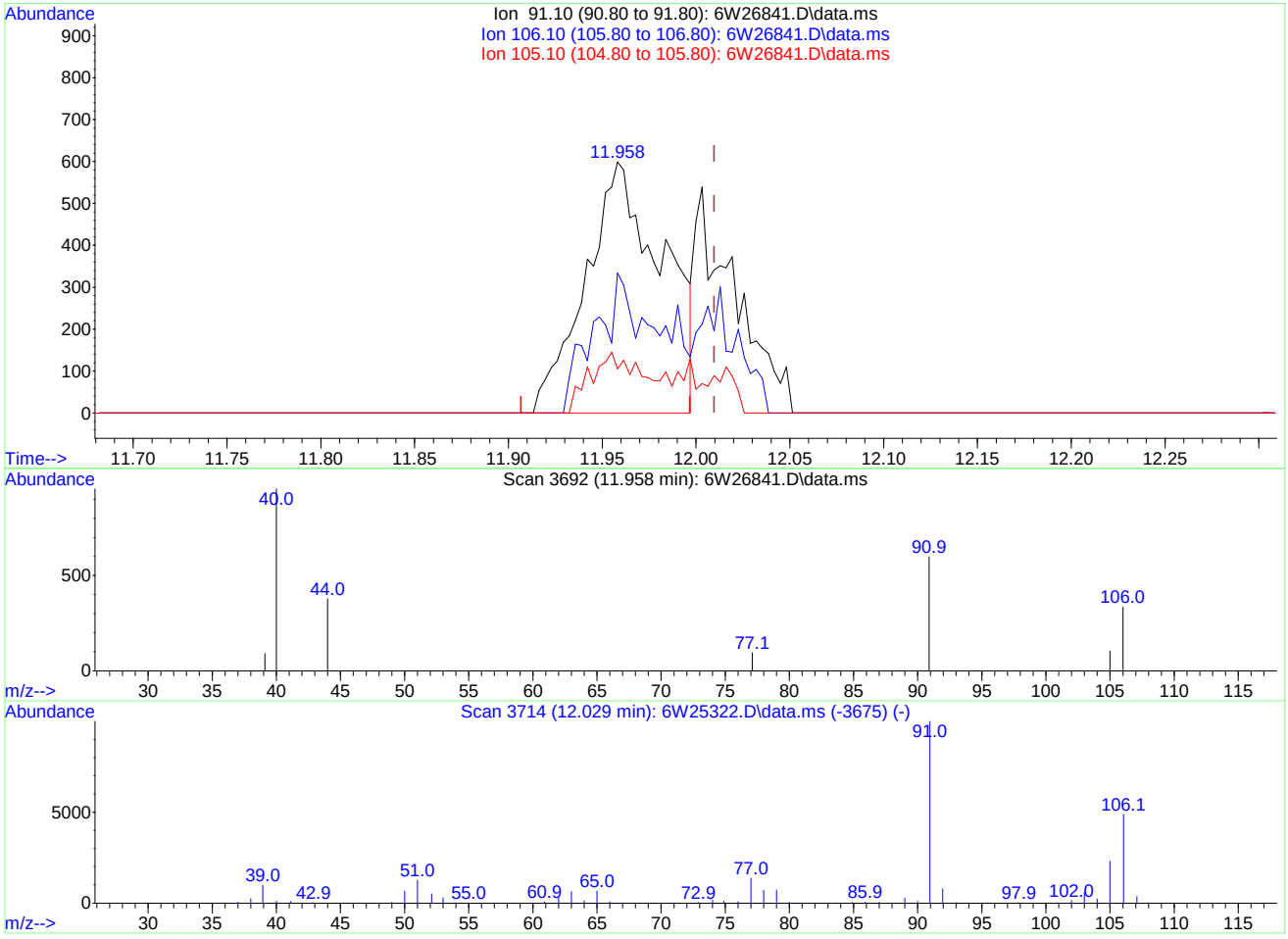
Sample Number:	JD54338-1	**Method:**	TO-15
Lab FileID:	6W26841.D	**Analyst approved:**	11/08/22 13:45 William Cruser
Injection Time:	11/03/22 21:12	**Supervisor approved:**	11/10/22 11:08 Kanya Veerawat

Parameter	CAS	Sig#	R.T. (min.)	Reason
m,p-Xylene			11.96	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26841.D
Acq On : 3 Nov 2022 9:12 pm
Operator : thomash
Sample : jd54338-1
Misc : MS63293,V6W1137,100,,,,1
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Nov 04 14:18:23 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration



TIC: 6W26841.D\data.ms

(80) M,P-XYLENE (t)

11.958min (-0.051) 0.07PPBV

response 1689

Ion	Exp%	Act%
91.10	100	100
106.10	51.50	71.17
105.10	23.60	0.00#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26868.D
Acq On : 4 Nov 2022 12:51 pm
Operator : thomash
Sample : jd54338-1
Misc : MS63437,V6W1138,10,,,,1
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Nov 10 09:01:31 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration

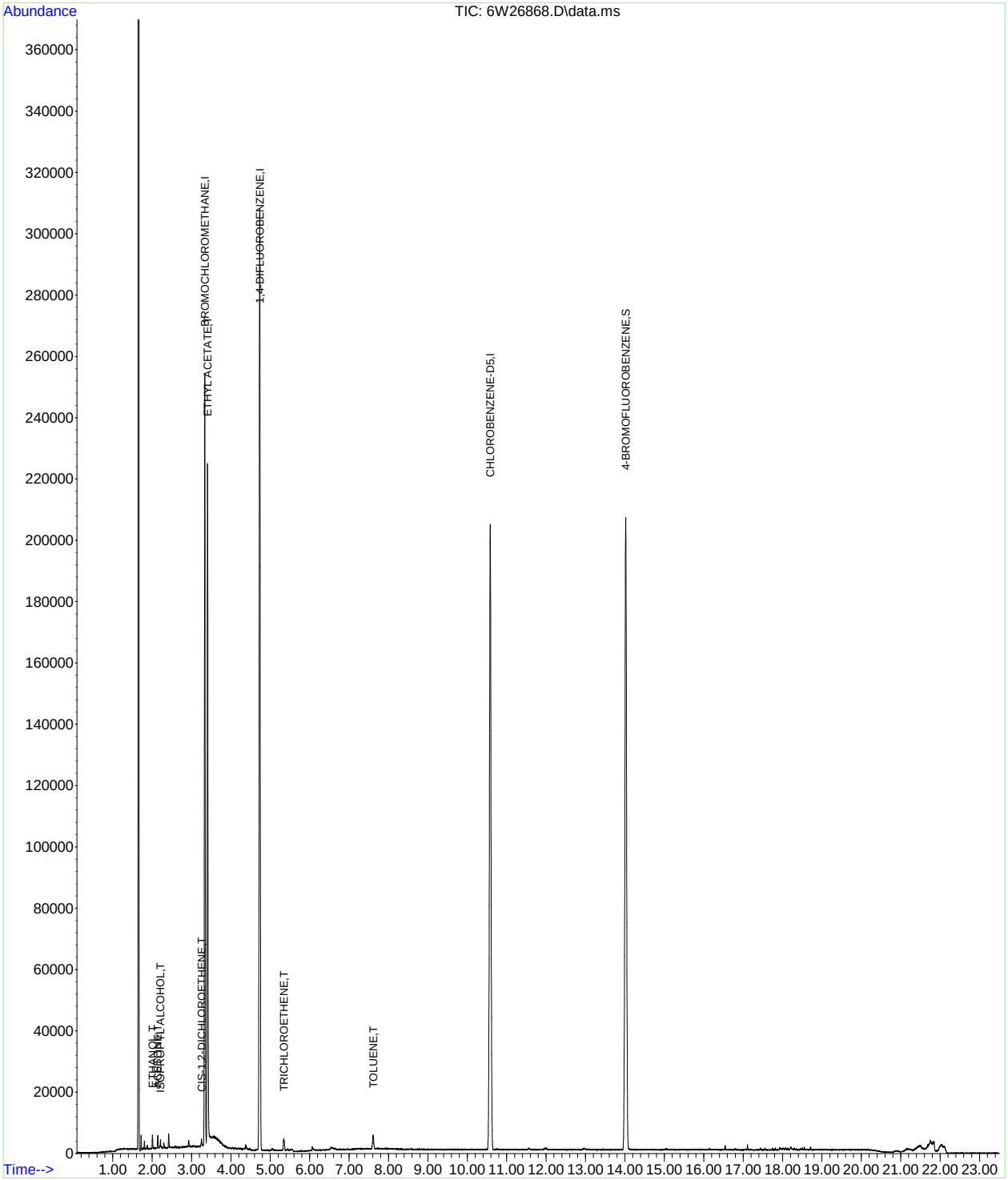
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	3.338	128	45513	10.00	PPBV	# 0.00
52) 1,4-DIFLUOROBENZENE	4.733	114	230658	10.00	PPBV	0.00
76) CHLOROBENZENE-D5	10.582	117	180587	10.00	PPBV	0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	14.019	95	122450	9.71	PPBV	0.00
Target Compounds						Qvalue
22) ISOPROPYL ALCOHOL	2.213	45	1783	0.12	PPBV	# 78
23) ACETONE	2.142	58	814	0.24	PPBV	# 40
28) ETHANOL	2.010	45	2487	0.72	PPBV	# 91
42) CIS-1,2-DICHLOROETHENE	3.254	96	677	0.10	PPBV	# 53
44) ETHYL ACETATE	3.409	61	24827	10.28	PPBV	# 18
55) TRICHLOROETHENE	5.344	95	1349	0.15	PPBV	97
66) TOLUENE	7.614	91	4476	0.18	PPBV	96

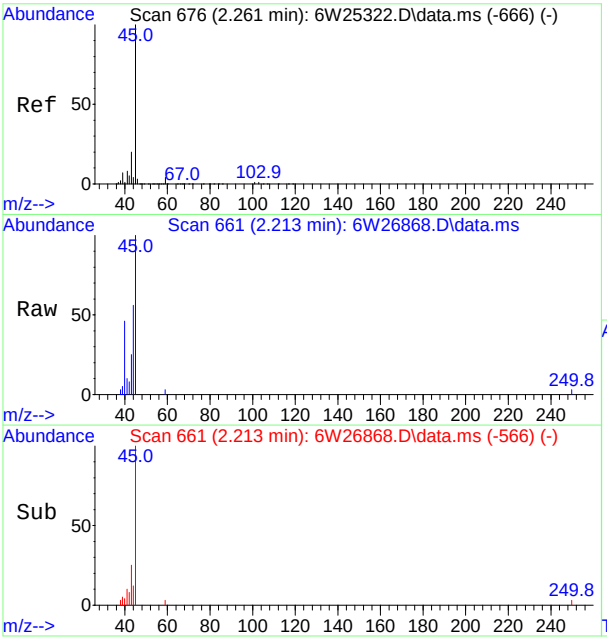
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26868.D
Acq On : 4 Nov 2022 12:51 pm
Operator : thomash
Sample : jd54338-1
Misc : MS63437,V6W1138,10,,,,1
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Nov 10 09:01:31 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration

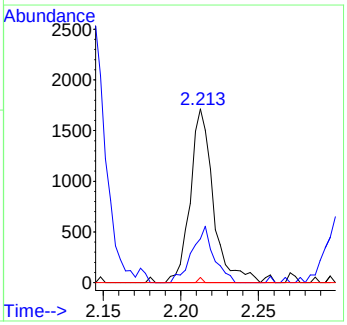


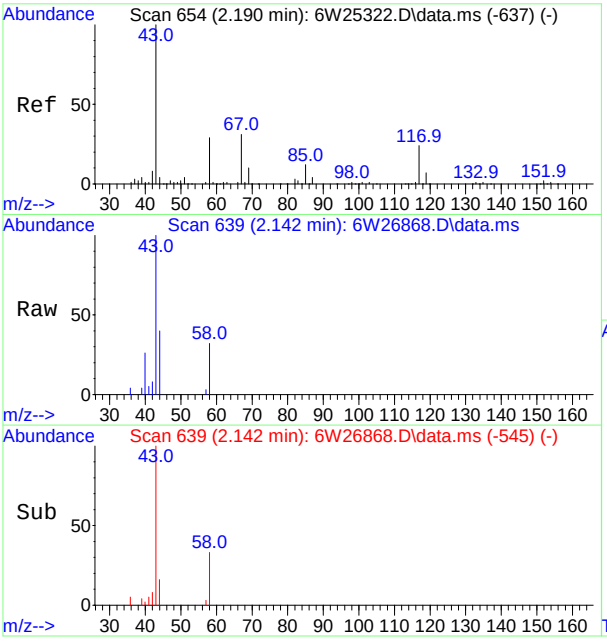


#22
ISOPROPYL ALCOHOL
Concen: 0.12 PPBV
RT: 2.213 min Scan# 661
Delta R.T. 0.007 min
Lab File: 6W26868.D
Acq: 4 Nov 2022 12:51 pm

Tgt Ion: 45 Resp: 1783

Ion	Ratio	Lower	Upper
45	100		
43	30.2	15.5	23.3#
59	0.0	4.1	6.1#

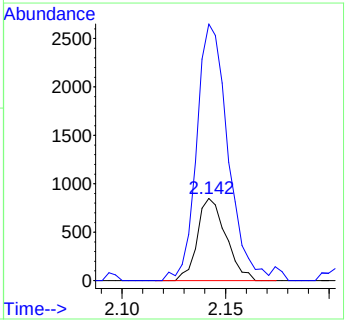


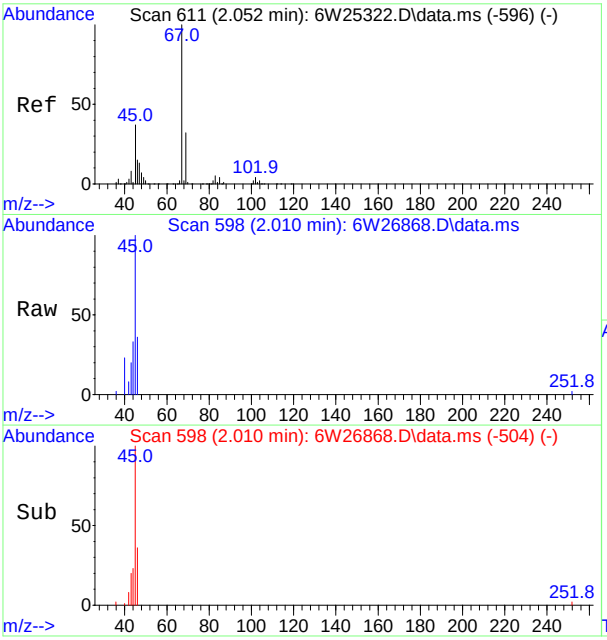


#23
ACETONE
Concen: 0.24 PPBV
RT: 2.142 min Scan# 639
Delta R.T. 0.003 min
Lab File: 6W26868.D
Acq: 4 Nov 2022 12:51 pm

Tgt Ion: 58 Resp: 814

Ion	Ratio	Lower	Upper
58	100		
43	347.9	195.9	293.9#

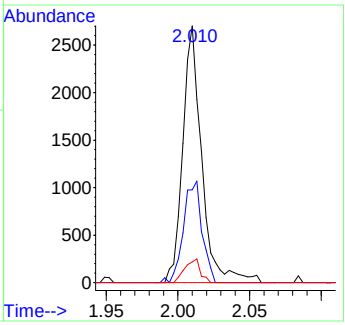


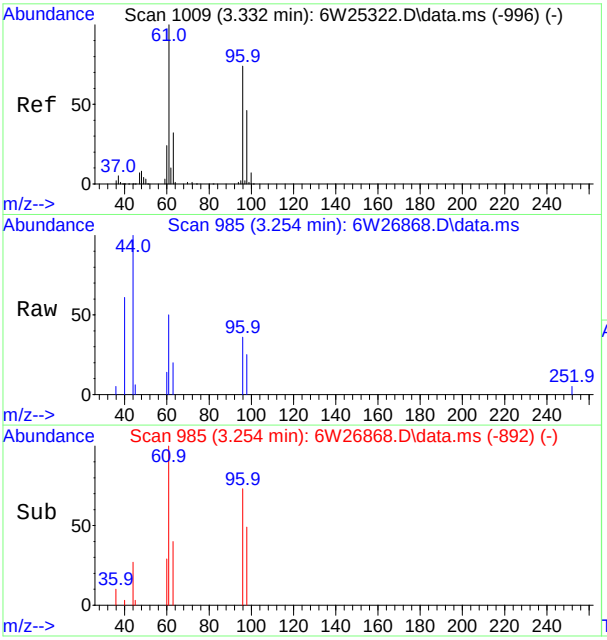


#28
ETHANOL
Concen: 0.72 PPBV
RT: 2.010 min Scan# 598
Delta R.T. 0.003 min
Lab File: 6W26868.D
Acq: 4 Nov 2022 12:51 pm

Tgt Ion: 45 Resp: 2487

Ion	Ratio	Lower	Upper
45	100		
46	38.6	34.1	51.1
42	0.0	6.1	9.1#

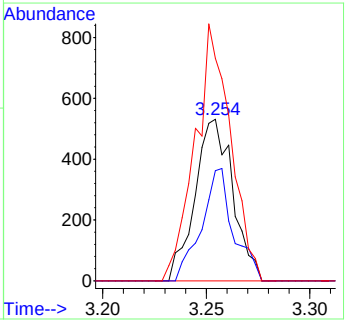


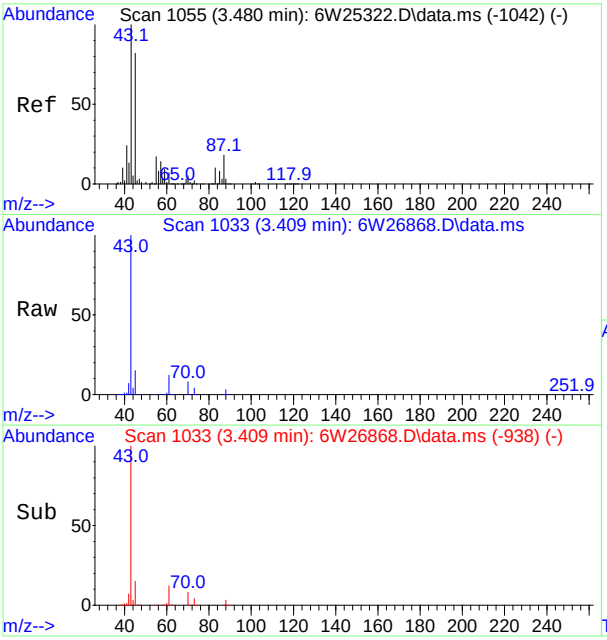


#42
CIS-1,2-DICHLOROETHENE
Concen: 0.10 PPBV
RT: 3.254 min Scan# 985
Delta R.T. 0.000 min
Lab File: 6W26868.D
Acq: 4 Nov 2022 12:51 pm

Tgt Ion: 96 Resp: 677

Ion	Ratio	Lower	Upper
96	100		
98	0.0	51.1	76.7#
61	148.9	93.9	140.9#

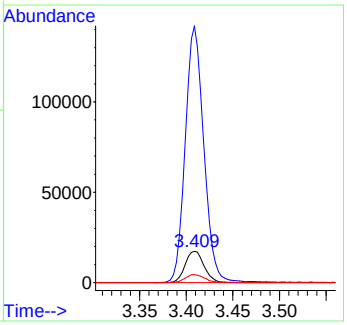


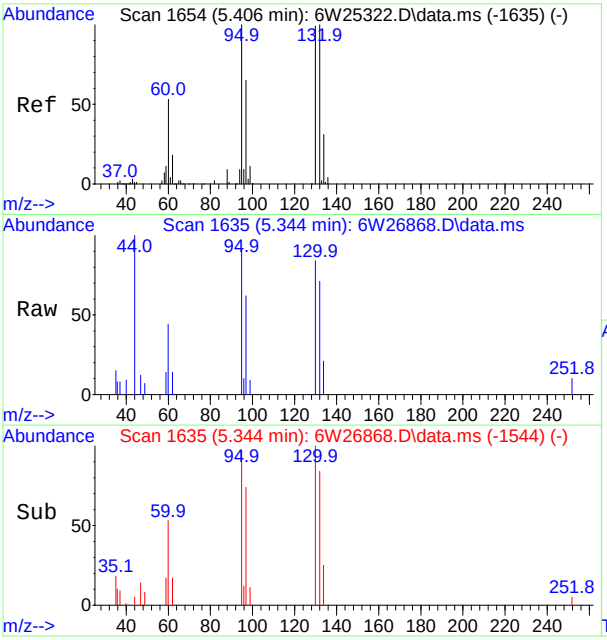


#44
ETHYL ACETATE
Concen: 10.28 PPBV
RT: 3.409 min Scan# 1033
Delta R.T. 0.007 min
Lab File: 6W26868.D
Acq: 4 Nov 2022 12:51 pm

Tgt Ion: 61 Resp: 24827

Ion	Ratio	Lower	Upper
61	100		
43	796.4	986.2	1479.2#
88	25.9	38.8	58.2#

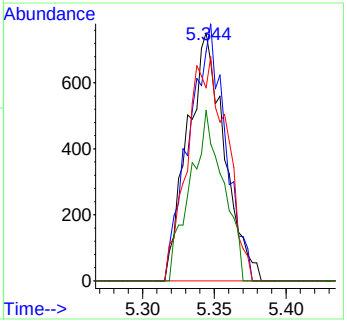


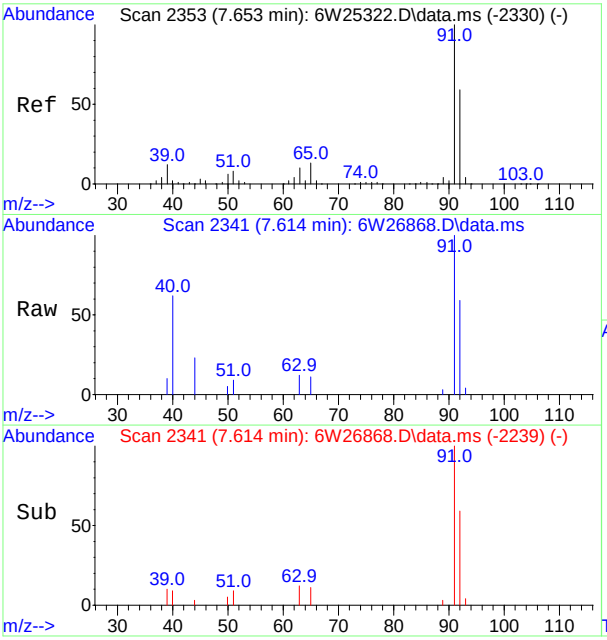


#55
TRICHLOROETHENE
Concen: 0.15 PPBV
RT: 5.344 min Scan# 1635
Delta R.T. -0.006 min
Lab File: 6W26868.D
Acq: 4 Nov 2022 12:51 pm

Tgt Ion: 95 Resp: 1349

Ion	Ratio	Lower	Upper
95	100		
130	102.0	83.2	124.8
132	97.0	79.8	119.6
97	61.5	51.3	76.9

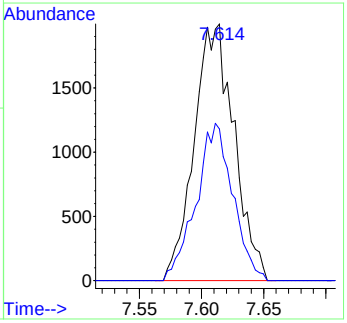




#66
TOLUENE
Concen: 0.18 PPBV
RT: 7.614 min Scan# 2341
Delta R.T. -0.003 min
Lab File: 6W26868.D
Acq: 4 Nov 2022 12:51 pm

Tgt Ion: 91 Resp: 4476

Ion	Ratio	Lower	Upper
91	100		
92	56.3	38.9	78.9



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26842.D
Acq On : 3 Nov 2022 9:46 pm
Operator : thomash
Sample : jd54338-2
Misc : MS63293,V6W1137,148,,,,1.48
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Nov 08 13:41:43 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration

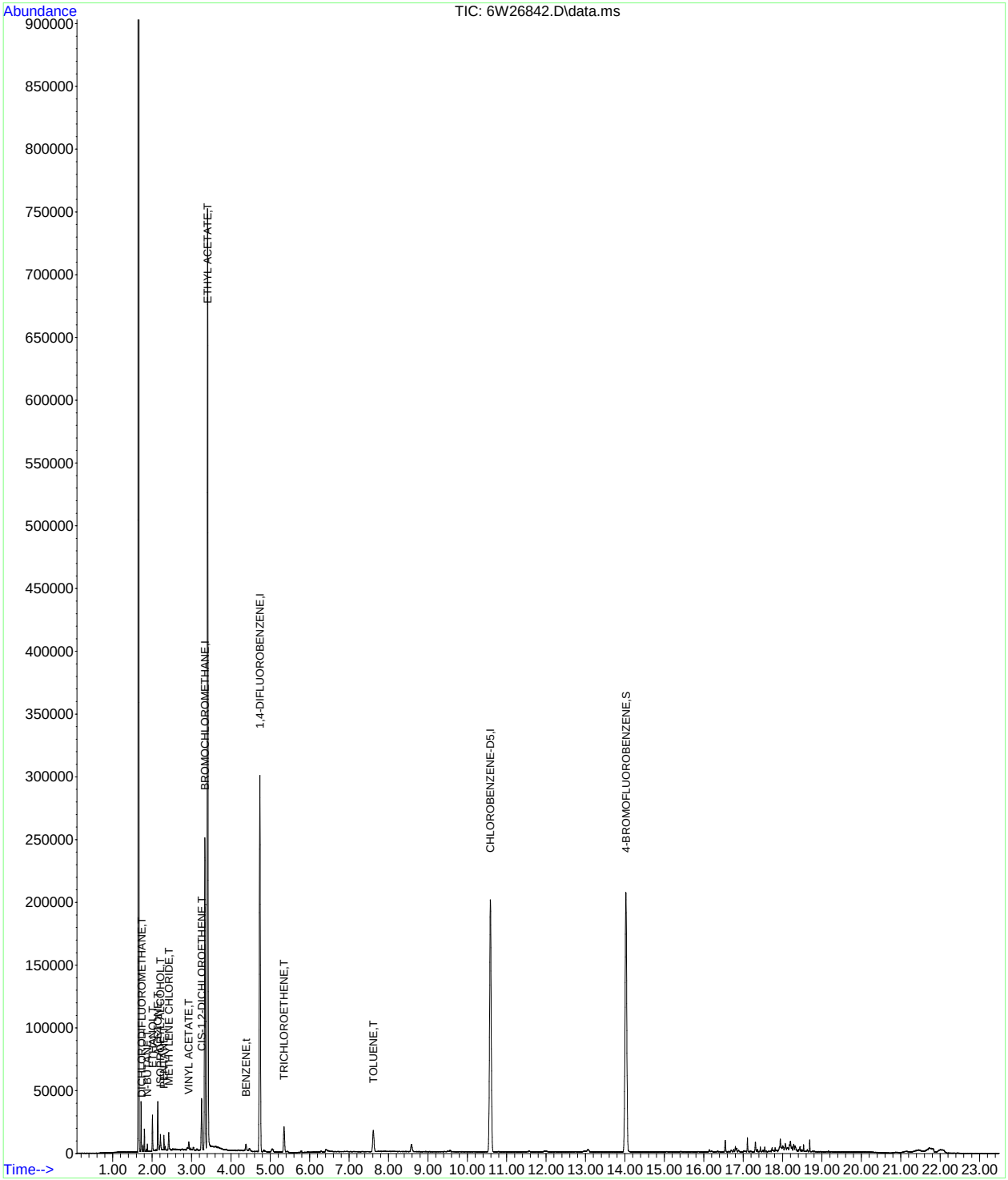
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	3.341	128	44877	10.00	PPBV	# 0.00
52) 1,4-DIFLUOROBENZENE	4.737	114	225821	10.00	PPBV	0.00
76) CHLOROBENZENE-D5	10.585	117	180115	10.00	PPBV	0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	14.029	95	123126	9.79	PPBV	0.00
Target Compounds						Qvalue
6) DICHLORODIFLUOROMETHANE	1.734	85	1745	0.12	PPBV	# 90
13) N-BUTANE	1.881	43	2258	0.20	PPBV	# 65
22) ISOPROPYL ALCOHOL	2.213	45	7771	0.53	PPBV	# 78
23) ACETONE	2.145	58	7317	2.20	PPBV	# 45
24) PENTANE	2.303	42	2464	0.31	PPBV	# 94
28) ETHANOL	2.010	45	14645	4.30	PPBV	95
31) METHYLENE CHLORIDE	2.425	84	2762	0.49	PPBV	# 56
39) VINYL ACETATE	2.933	86	533	0.36	PPBV	# 1
42) CIS-1,2-DICHLOROETHENE	3.258	96	11944	1.83	PPBV	# 79
44) ETHYL ACETATE	3.409	61	84085	35.33	PPBV	# 18
51) BENZENE	4.383	78	3716	0.19	PPBV	82
55) TRICHLOROETHENE	5.348	95	6800	0.77	PPBV	98
66) TOLUENE	7.614	91	16339	0.65	PPBV	98

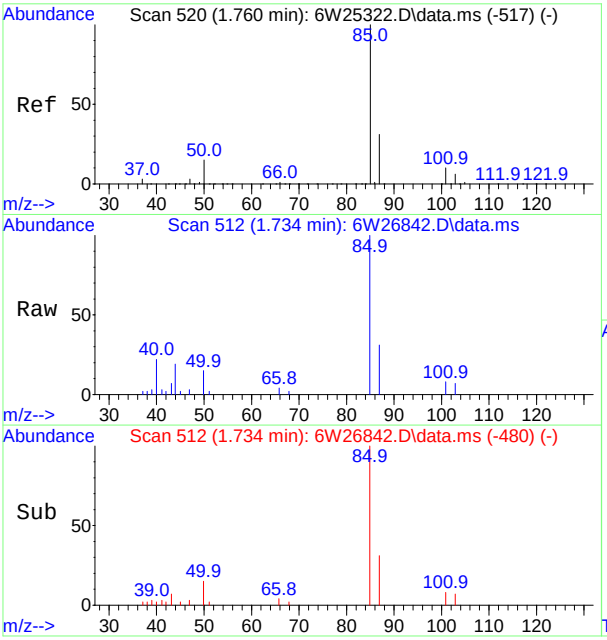
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26842.D
Acq On : 3 Nov 2022 9:46 pm
Operator : thomash
Sample : jd54338-2
Misc : MS63293,V6W1137,148,,,,1.48
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Nov 08 13:41:43 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration

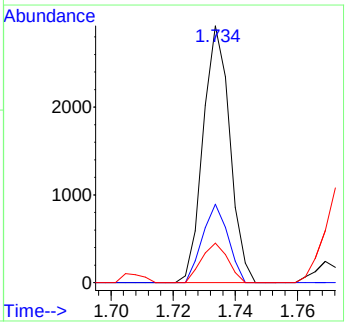


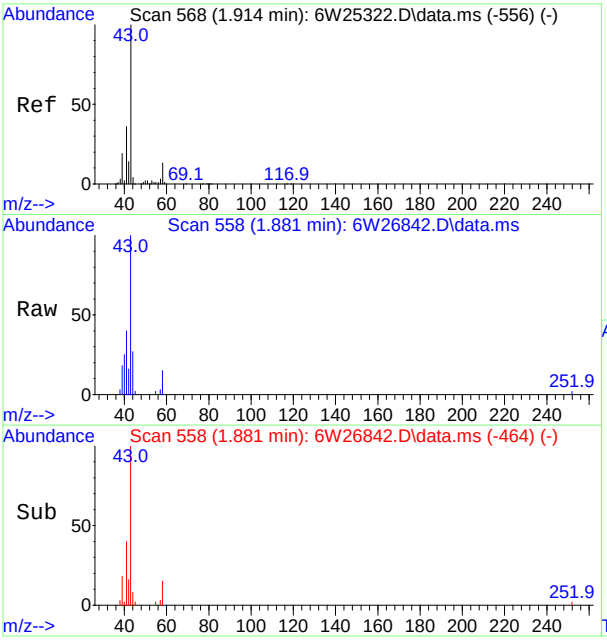


#6
DICHLORODIFLUOROMETHANE
Concen: 0.12 PPBV
RT: 1.734 min Scan# 512
Delta R.T. 0.003 min
Lab File: 6W26842.D
Acq: 3 Nov 2022 9:46 pm

Tgt Ion: 85 Resp: 1745

Ion	Ratio	Lower	Upper
85	100		
87	29.3	25.8	38.6
50	0.0	7.4	11.2#

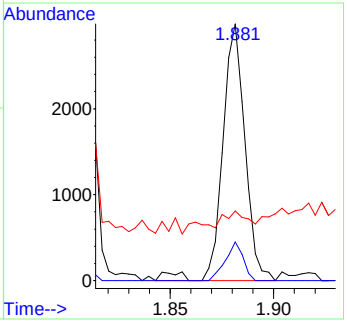


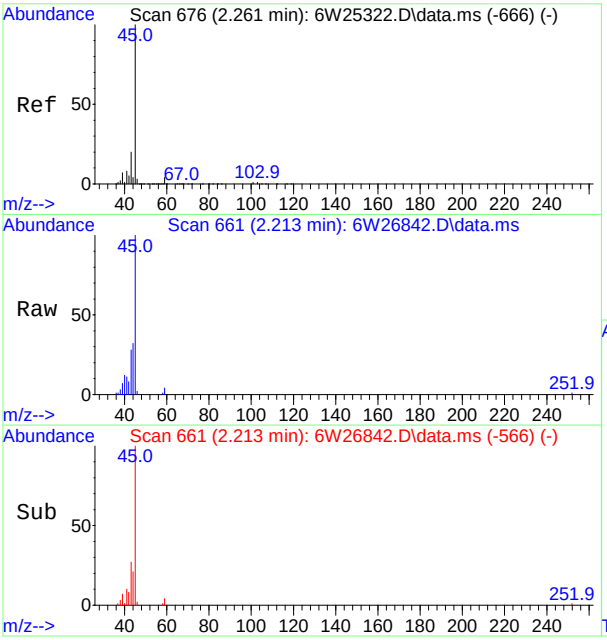


#13
N-BUTANE
Concen: 0.20 PPBV
RT: 1.881 min Scan# 558
Delta R.T. 0.003 min
Lab File: 6W26842.D
Acq: 3 Nov 2022 9:46 pm

Tgt Ion: 43 Resp: 2258

Ion	Ratio	Lower	Upper
43	100		
58	0.0	14.2	21.2#
44	0.0	4.2	6.4#

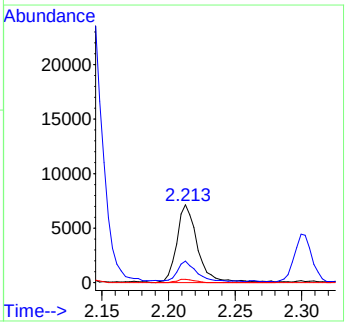


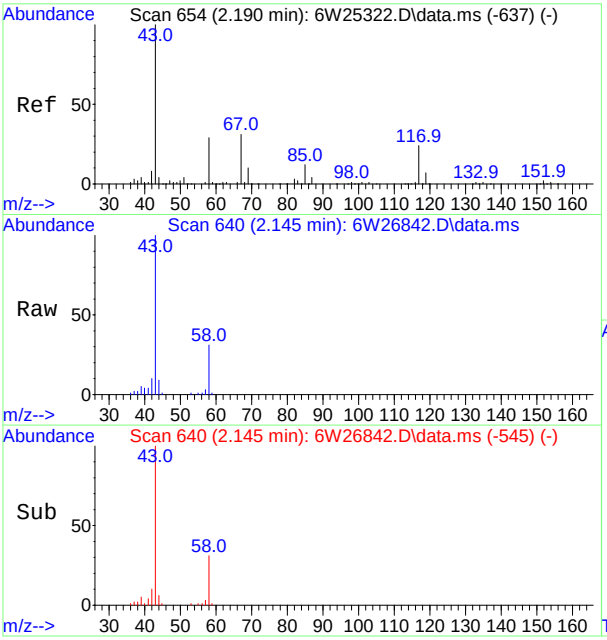


#22
ISOPROPYL ALCOHOL
Concen: 0.53 PPBV
RT: 2.213 min Scan# 661
Delta R.T. 0.007 min
Lab File: 6W26842.D
Acq: 3 Nov 2022 9:46 pm

Tgt Ion: 45 Resp: 7771

Ion	Ratio	Lower	Upper
45	100		
43	30.3	15.5	23.3#
59	0.0	4.1	6.1#

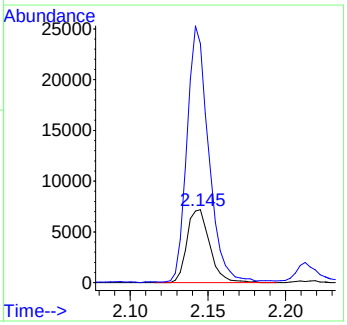


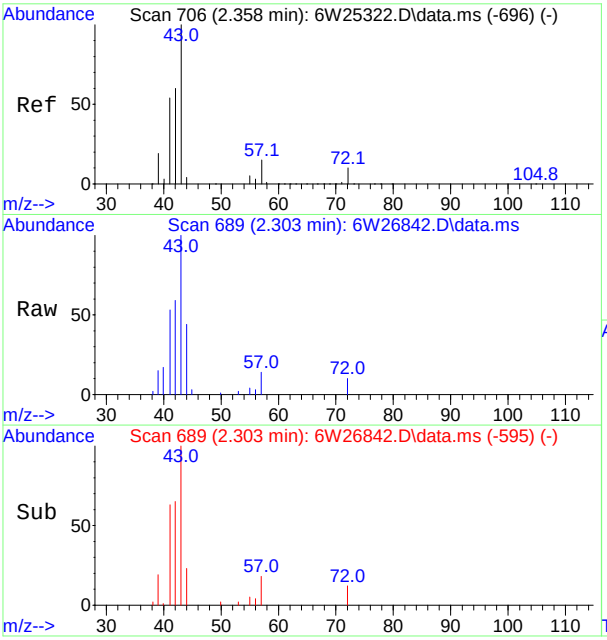


#23
ACETONE
Concen: 2.20 PPBV
RT: 2.145 min Scan# 640
Delta R.T. 0.007 min
Lab File: 6W26842.D
Acq: 3 Nov 2022 9:46 pm

Tgt Ion: 58 Resp: 7317

Ion	Ratio	Lower	Upper
58	100		
43	338.9	195.9	293.9#

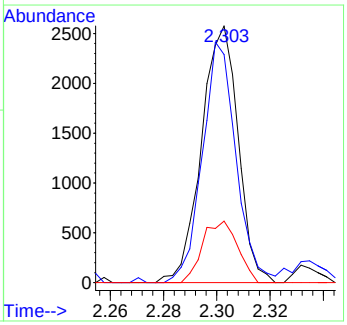


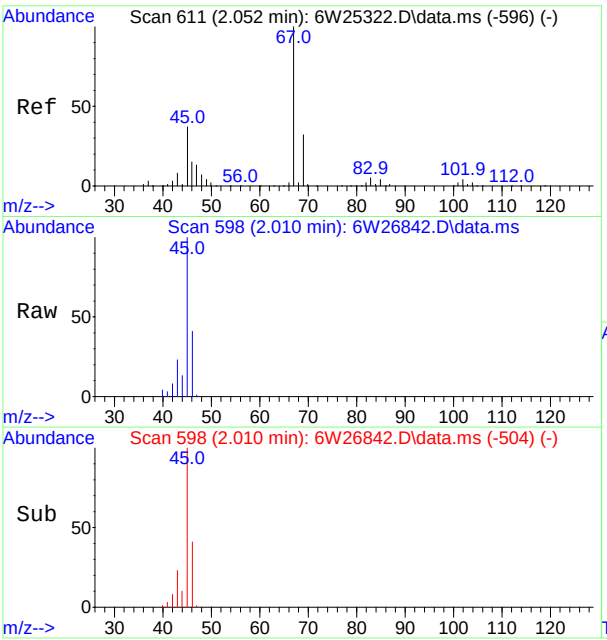


#24
PENTANE
Concen: 0.31 PPBV
RT: 2.303 min Scan# 689
Delta R.T. 0.003 min
Lab File: 6W26842.D
Acq: 3 Nov 2022 9:46 pm

Tgt Ion: 42 Resp: 2464

Ion	Ratio	Lower	Upper
42	100		
41	86.4	69.5	104.3
57	22.9	27.4	41.0#

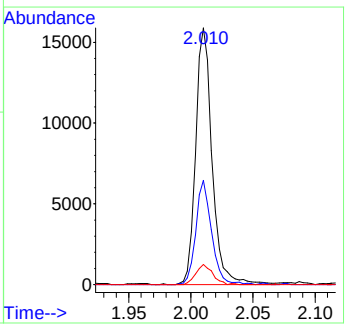


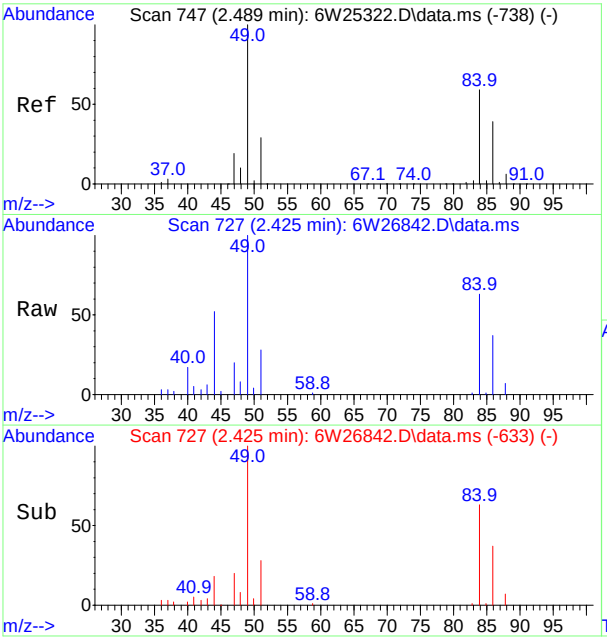


#28
ETHANOL
Concen: 4.30 PPBV
RT: 2.010 min Scan# 598
Delta R.T. 0.003 min
Lab File: 6W26842.D
Acq: 3 Nov 2022 9:46 pm

Tgt Ion: 45 Resp: 14645

Ion	Ratio	Lower	Upper
45	100		
46	39.2	34.1	51.1
42	8.1	6.1	9.1

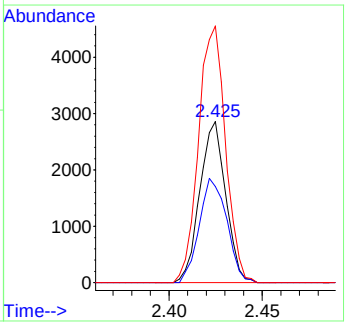


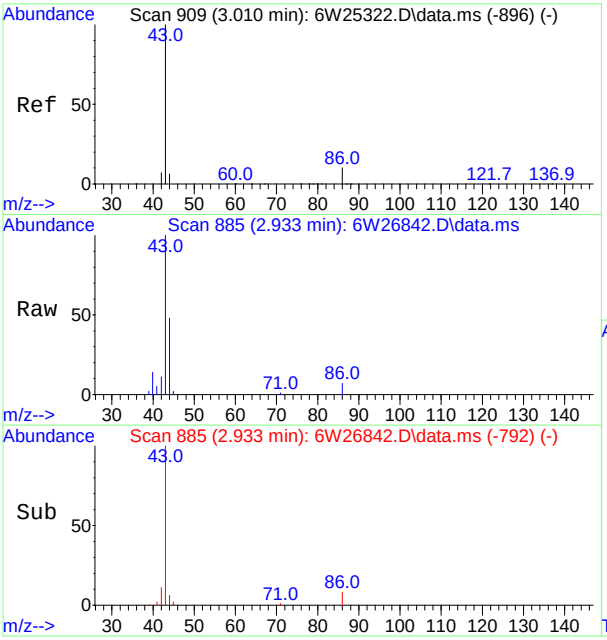


#31
METHYLENE CHLORIDE
Concen: 0.49 PPBV
RT: 2.425 min Scan# 727
Delta R.T. 0.003 min
Lab File: 6W26842.D
Acq: 3 Nov 2022 9:46 pm

Tgt Ion: 84 Resp: 2762

Ion	Ratio	Lower	Upper
84	100		
86	69.0	50.9	76.3
49	166.1	78.6	118.0#

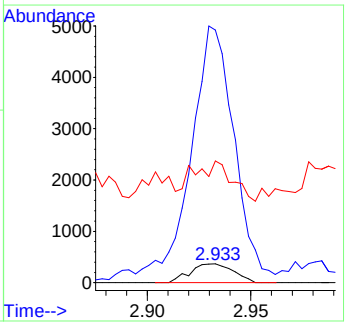


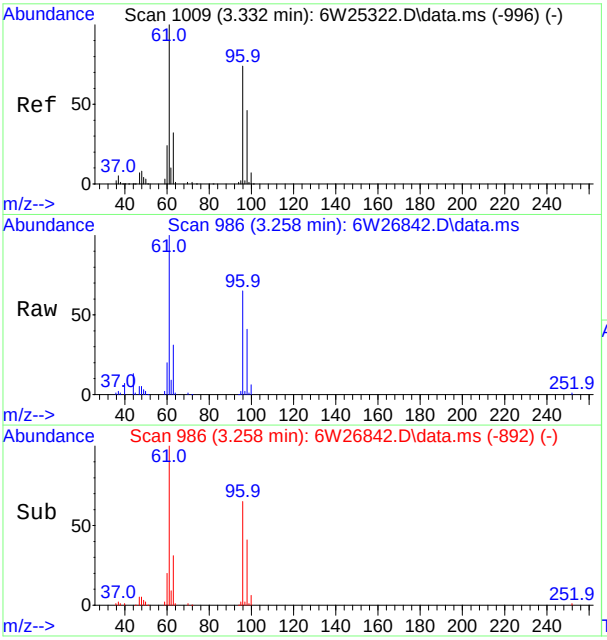


#39
VINYL ACETATE
Concen: 0.36 PPBV
RT: 2.933 min Scan# 885
Delta R.T. 0.000 min
Lab File: 6W26842.D
Acq: 3 Nov 2022 9:46 pm

Tgt Ion: 86 Resp: 533

Ion	Ratio	Lower	Upper
86	100		
43	1414.4	626.3	939.5#
44	146.9	34.5	51.7#

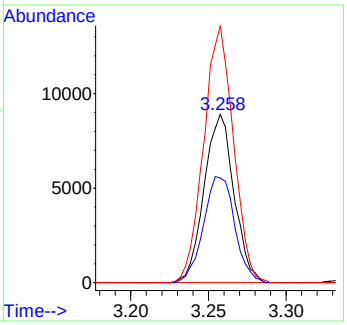


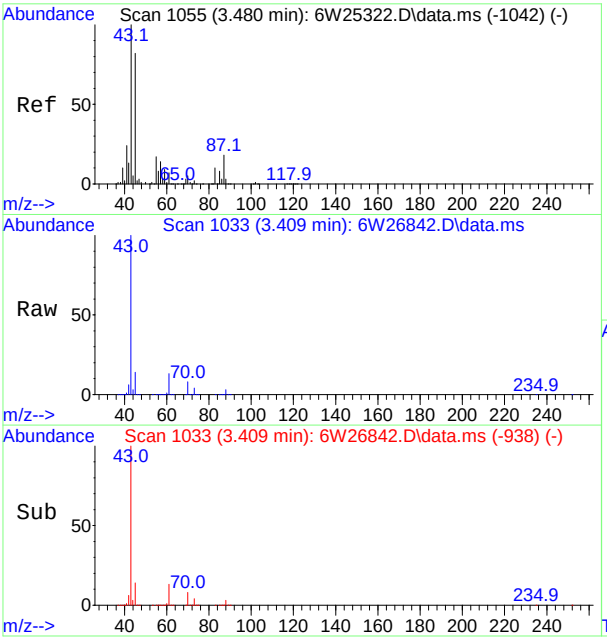


#42
CIS-1,2-DICHLOROETHENE
Concen: 1.83 PPBV
RT: 3.258 min Scan# 986
Delta R.T. 0.003 min
Lab File: 6W26842.D
Acq: 3 Nov 2022 9:46 pm

Tgt Ion: 96 Resp: 11944

Ion	Ratio	Lower	Upper
96	100		
98	65.8	51.1	76.7
61	151.6	93.9	140.9#

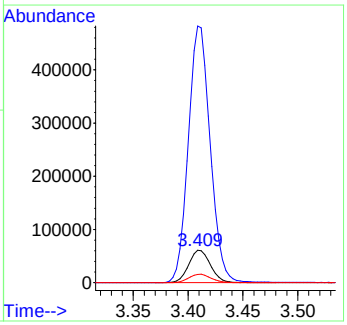


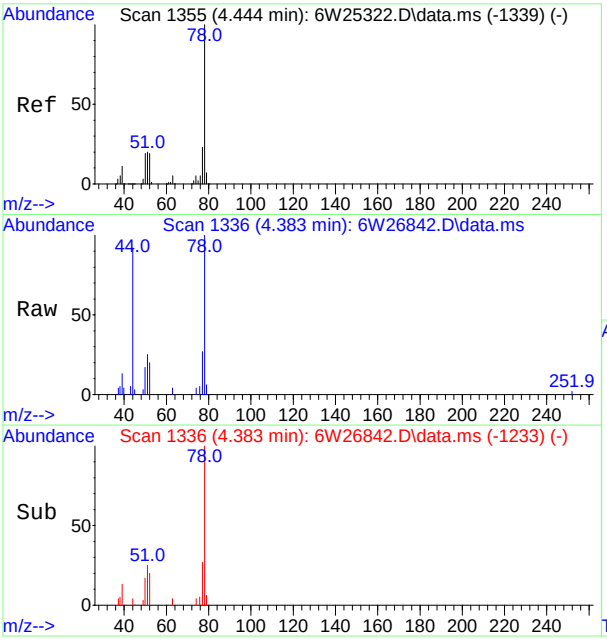


#44
ETHYL ACETATE
Concen: 35.33 PPBV
RT: 3.409 min Scan# 1033
Delta R.T. 0.007 min
Lab File: 6W26842.D
Acq: 3 Nov 2022 9:46 pm

Tgt Ion: 61 Resp: 84085

Ion	Ratio	Lower	Upper
61	100		
43	796.3	986.2	1479.2#
88	26.3	38.8	58.2#

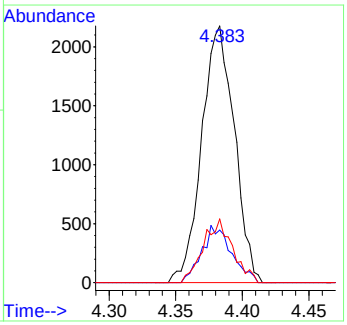


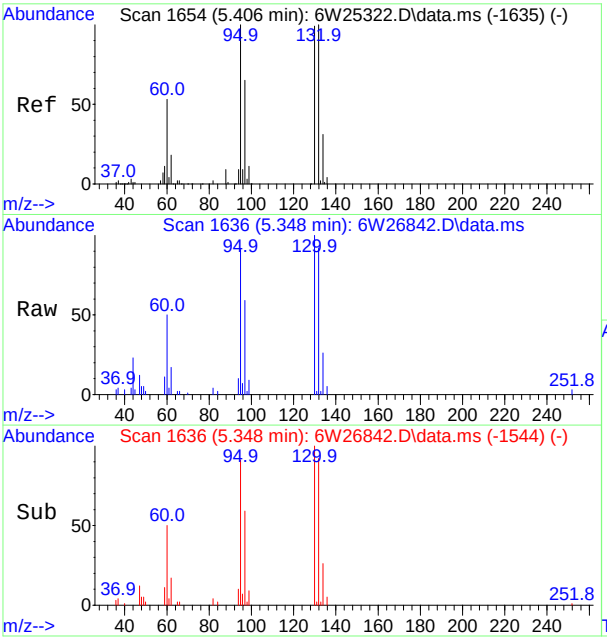


#51
BENZENE
Concen: 0.19 PPBV
RT: 4.383 min Scan# 1336
Delta R.T. 0.000 min
Lab File: 6W26842.D
Acq: 3 Nov 2022 9:46 pm

Tgt Ion: 78 Resp: 3716

Ion	Ratio	Lower	Upper
78	100		
52	20.2	0.0	34.0
51	22.2	0.0	33.5

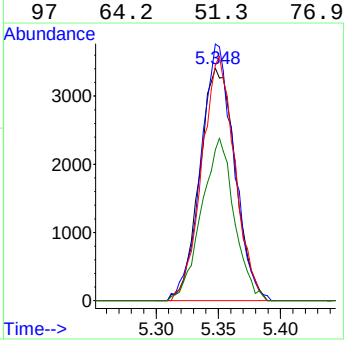


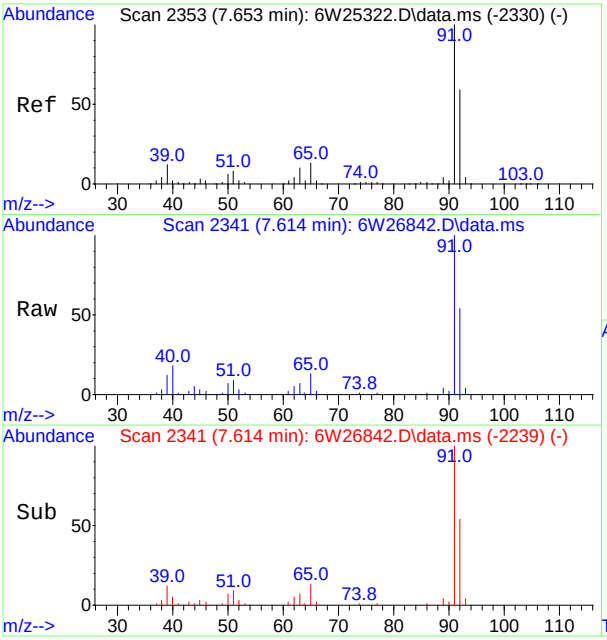


#55
TRICHLOROETHENE
Concen: 0.77 PPBV
RT: 5.348 min Scan# 1636
Delta R.T. -0.003 min
Lab File: 6W26842.D
Acq: 3 Nov 2022 9:46 pm

Tgt Ion: 95 Resp: 6800

Ion	Ratio	Lower	Upper
95	100		
130	102.4	83.2	124.8
132	97.2	79.8	119.6
97	64.2	51.3	76.9

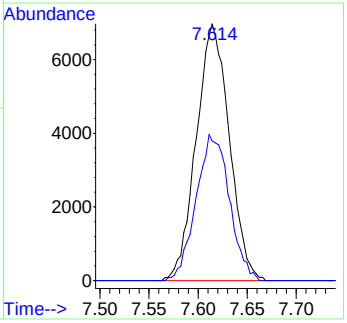




#66
TOLUENE
Concen: 0.65 PPBV
RT: 7.614 min Scan# 2341
Delta R.T. -0.003 min
Lab File: 6W26842.D
Acq: 3 Nov 2022 9:46 pm

Tgt Ion: 91 Resp: 16339

Ion	Ratio	Lower	Upper
91	100		
92	57.2	38.9	78.9



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26830.D
Acq On : 3 Nov 2022 2:39 pm
Operator : thomash
Sample : mb
Misc : MS63437,V6W1137,,,,,1
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Nov 04 15:20:12 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration

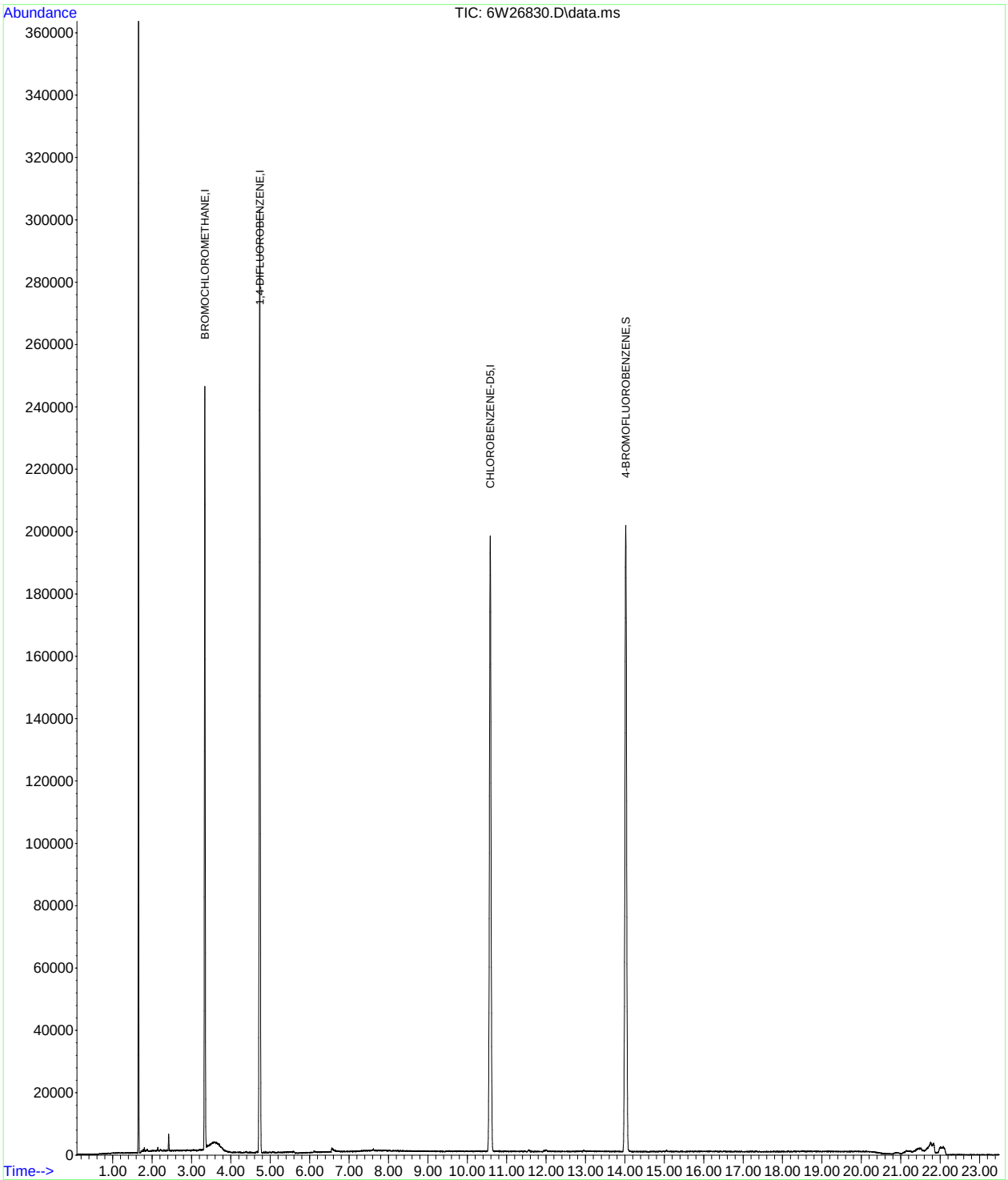
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	3.338	128	44863	10.00	PPBV	# 0.00
52) 1,4-DIFLUOROBENZENE	4.734	114	225395	10.00	PPBV	0.00
76) CHLOROBENZENE-D5	10.582	117	177281	10.00	PPBV	0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	14.019	95	121077	9.78	PPBV	0.00
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26830.D
Acq On : 3 Nov 2022 2:39 pm
Operator : thomash
Sample : mb
Misc : MS63437,V6W1137,,,,,1
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Nov 04 15:20:12 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration



Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26867.D
Acq On : 4 Nov 2022 11:58 am
Operator : thomash
Sample : mb
Misc : MS63483,V6W1138,,,,,1
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Nov 06 15:44:45 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration

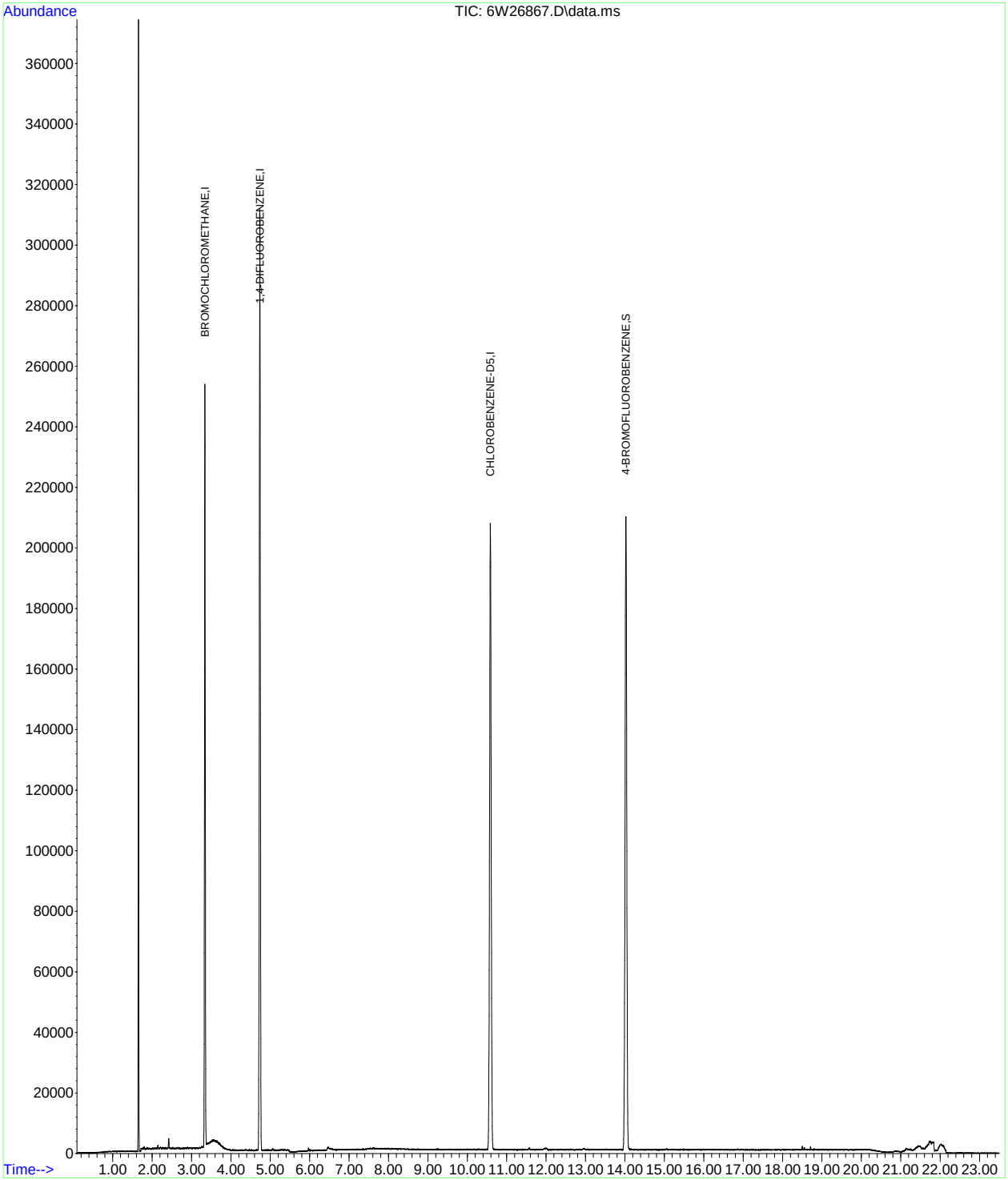
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	3.341	128	46239	10.00	PPBV	# 0.00
52) 1,4-DIFLUOROBENZENE	4.733	114	231869	10.00	PPBV	0.00
76) CHLOROBENZENE-D5	10.585	117	184569	10.00	PPBV	0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	14.022	95	126290	9.80	PPBV	0.00
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26867.D
Acq On : 4 Nov 2022 11:58 am
Operator : thomash
Sample : mb
Misc : MS63483,V6W1138,,,,,1
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Nov 06 15:44:45 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W25444.D
Acq On : 11 Aug 2022 12:47 pm
Operator : thomash
Sample : mb
Misc : MS61233,V6W1083,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 11 14:27:26 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 05 08:58:59 2022
Response via : Initial Calibration

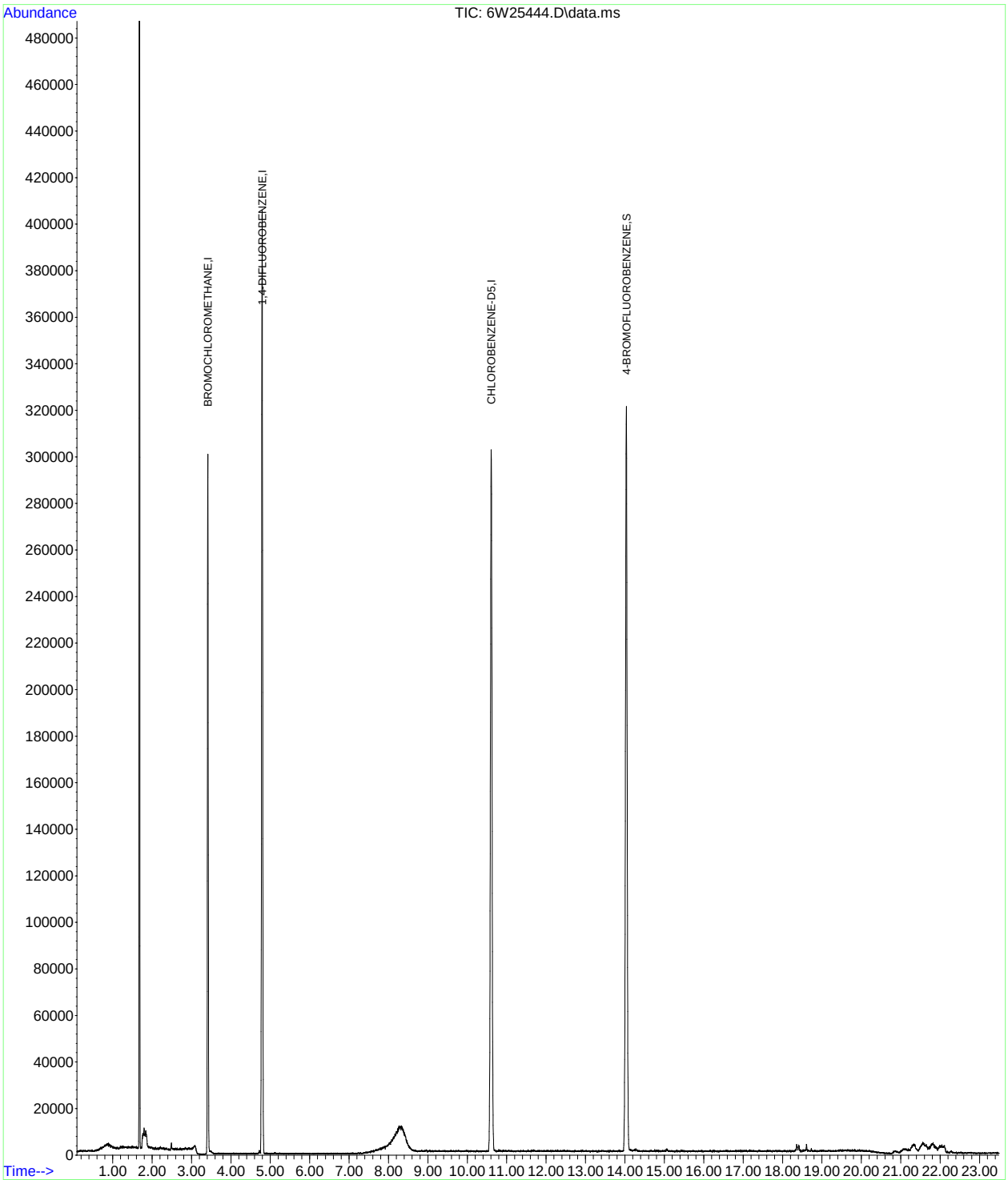
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	3.415	128	62033	10.00	PPBV	# 0.00
52) 1,4-DIFLUOROBENZENE	4.794	114	317377	10.00	PPBV	0.00
76) CHLOROBENZENE-D5	10.605	117	278641	10.00	PPBV	0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	14.038	95	184664	9.45	PPBV	0.00
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W25444.D
Acq On : 11 Aug 2022 12:47 pm
Operator : thomash
Sample : mb
Misc : MS61233,V6W1083,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 11 14:27:26 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 05 08:58:59 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61615.D
Acq On : 27 Sep 2022 10:49 am
Operator : thomash
Sample : mb
Misc : MS62367,V2w2734,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 27 12:24:48 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

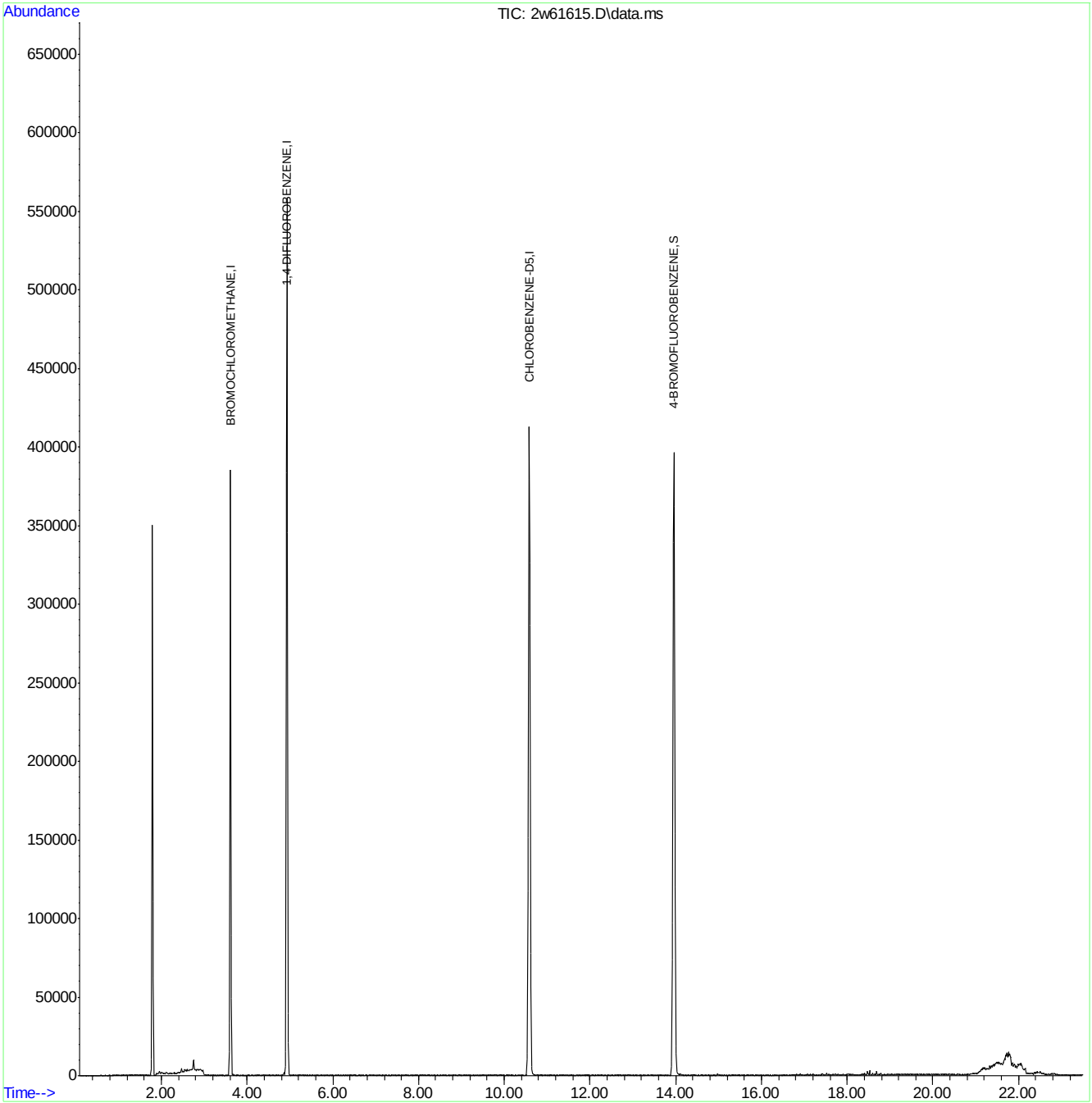
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	3.612	128	77815	10.00	PPBV	0.00
52) 1,4-DIFLUOROBENZENE	4.927	114	428161	10.00	PPBV	0.00
76) CHLOROBENZENE-D5	10.582	117	371065	10.00	PPBV	0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	13.958	95	237014	9.59	PPBV	0.00
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61615.D
Acq On : 27 Sep 2022 10:49 am
Operator : thomash
Sample : mb
Misc : MS62367,V2w2734,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 27 12:24:48 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration



M2W2709.M Tue Sep 27 14:15:37 2022 GCMS2W Page: 2

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 11/07/22 15:11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26824.D
Acq On : 3 Nov 2022 10:14 am
Operator : thomash
Sample : bs
Misc : MS63437,V6W1137,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 04 15:15:01 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.338	128	45781	10.00	PPBV	#	0.00
52) 1,4-DIFLUOROBENZENE	4.734	114	229465	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	10.582	117	188055	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	14.023	95	132154	10.06	PPBV		0.00
Target Compounds							Qvalue
3) FREON 152A	1.695	65	32453m	8.25	PPBV		
4) CHLORODIFLUOROMETHANE	1.708	67	14675	8.23	PPBV		97
5) CHLOROTRIFLUOROETHENE	1.718	116	73588	8.54	PPBV	#	100
6) DICHLORODIFLUOROMETHANE	1.730	85	170322	11.90	PPBV	#	94
7) PROPYLENE	1.714	41	45383	7.74	PPBV		96
8) 1-CHLORO-1,1-DIFLUOROE...	1.766	65	125105	9.54	PPBV	#	89
9) FREON 114	1.798	85	152679	10.14	PPBV		97
10) CHLOROMETHANE	1.772	52	20030	9.69	PPBV		95
11) VINYL CHLORIDE	1.830	62	64728	10.32	PPBV		98
12) 1,3-BUTADIENE	1.866	54	52397	10.22	PPBV	#	76
13) N-BUTANE	1.878	43	105398	9.12	PPBV	#	92
14) BROMOMETHANE	1.933	94	54026	11.14	PPBV		99
15) CHLOROETHANE	1.978	64	33508	11.16	PPBV		97
16) DICHLOROFLUOROMETHANE	2.004	67	133222	10.45	PPBV	#	96
17) ACETONITRILE	2.065	41	67541	10.03	PPBV		97
18) ACROLEIN	2.100	56	31953	11.47	PPBV		100
19) FREON 123	2.116	83	130702	10.81	PPBV		96
20) FREON 123A	2.132	117	76515	10.50	PPBV		85
21) TRICHLOROFLUOROMETHANE	2.190	101	148520	9.95	PPBV		100
22) ISOPROPYL ALCOHOL	2.206	45	138301	9.18	PPBV	#	95
23) ACETONE	2.139	58	34733	10.25	PPBV	#	49
24) PENTANE	2.300	42	76962	9.58	PPBV	#	93
25) IODOMETHANE	2.357	142	153655	10.68	PPBV		88
26) 1,1-DICHLOROETHYLENE	2.383	96	56980	10.04	PPBV	#	60
27) CARBON DISULFIDE	2.521	76	177919	9.90	PPBV	#	91
28) ETHANOL	2.007	45	32893	9.46	PPBV	#	96
29) BROMOETHENE	2.071	106	55969	11.01	PPBV	#	98
30) ACRYLONITRILE	2.271	52	52667	10.37	PPBV		96
31) METHYLENE CHLORIDE	2.422	84	52705	9.26	PPBV	#	51
32) 3-CHLOROPROPENE	2.464	76	28193	10.18	PPBV	#	6
33) FREON 113	2.518	151	97033	9.64	PPBV		89
34) TRANS-1,2-DICHLOROETHENE	2.769	96	62055	9.79	PPBV	#	80
35) TERTIARY BUTYL ALCOHOL	2.396	59	108467	8.81	PPBV	#	87
36) METHYL TERTIARY BUTYL ...	2.888	73	128568	8.15	PPBV	#	93
37) TETRAHYDROFURAN	3.653	72	30706	10.48	PPBV	#	48
38) HEXANE	3.390	57	116144	9.45	PPBV	#	78
39) VINYL ACETATE	2.930	86	15872	10.45	PPBV	#	1
40) 1,1-DICHLOROETHANE	2.853	63	116835	9.67	PPBV		99
41) METHYL ETHYL KETONE	3.039	72	31587	10.26	PPBV	#	7
42) CIS-1,2-DICHLOROETHENE	3.255	96	63495	9.55	PPBV	#	80
43) DIISOPROPYL ETHER	3.399	59	31703	8.97	PPBV	#	46
44) ETHYL ACETATE	3.406	61	24493	10.09	PPBV	#	45
45) METHYL ACRYLATE	3.390	55	152178	10.01	PPBV	#	97
46) CHLOROFORM	3.422	83	128228	9.39	PPBV	#	93
47) 2,4-DIMETHYLPENTANE	3.952	57	137128	9.87	PPBV	#	93
48) 1,1,1-TRICHLOROETHANE	4.042	97	117150	8.73	PPBV	#	91
49) CARBON TETRACHLORIDE	4.499	117	128466	8.93	PPBV		99
50) 1,2-DICHLOROETHANE	3.865	62	93097	8.96	PPBV	#	95
51) BENZENE	4.380	78	190864	9.35	PPBV		81
53) CYCLOHEXANE	4.602	84	81604	9.75	PPBV	#	73
54) 2,3-DIMETHYLPENTANE	4.875	71	44180	9.69	PPBV	#	57
55) TRICHLOROETHENE	5.348	95	84261	9.35	PPBV		99
56) 1,2-DICHLOROPROPANE	5.100	63	80579	9.74	PPBV		99
57) DIBROMOMETHANE	5.058	174	74436	8.76	PPBV		89

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26824.D
Acq On : 3 Nov 2022 10:14 am
Operator : thomash
Sample : bs
Misc : MS63437,V6W1137,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 04 15:15:01 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration

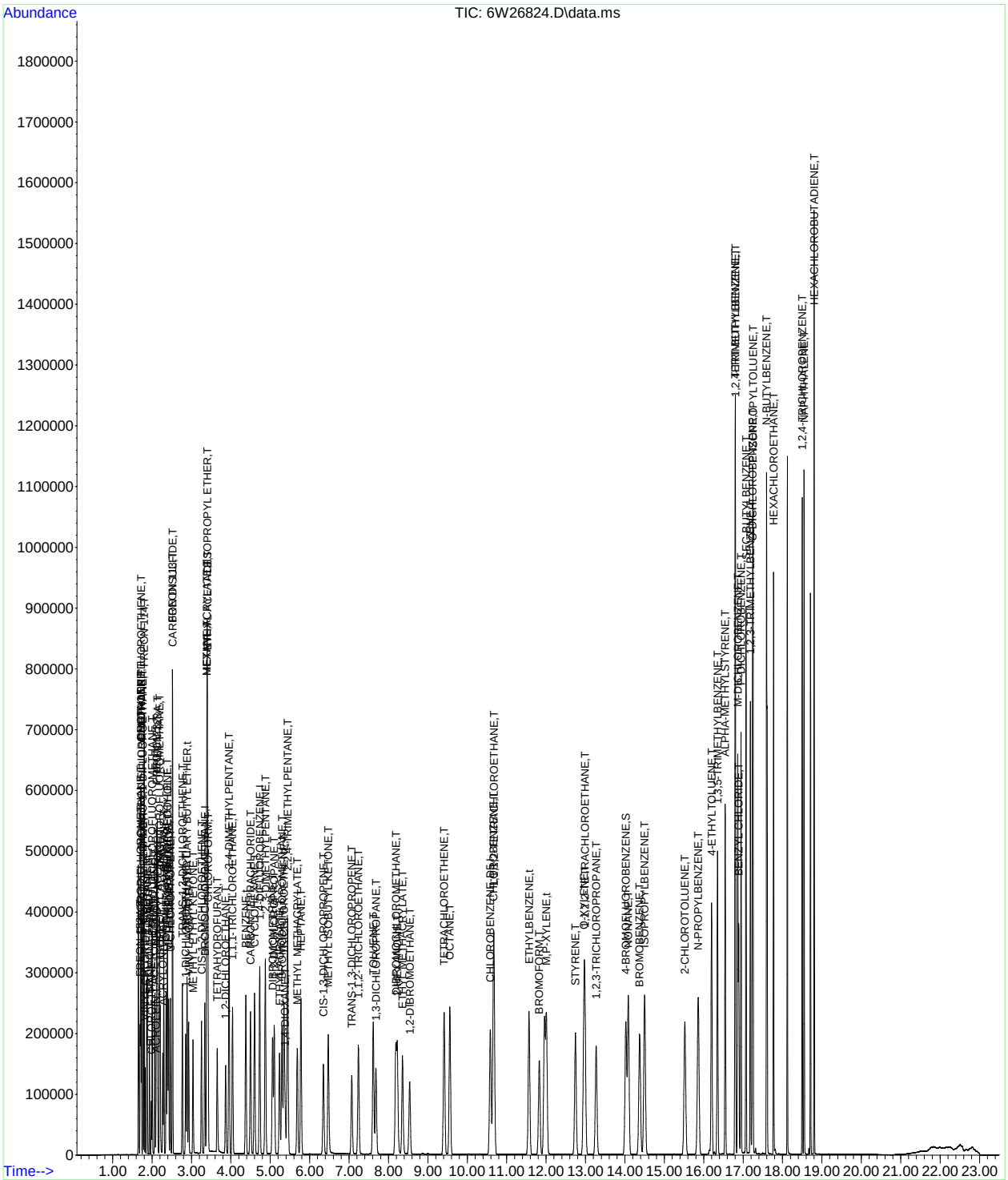
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
58)	ETHYL ACRYLATE	5.235	55	189046	10.77	PPBV	#	97
59)	BROMODICHLOROMETHANE	5.296	83	135989	8.96	PPBV		99
60)	2,2,4-TRIMETHYLPENTANE	5.441	57	375427	9.89	PPBV	#	98
61)	1,4-DIOXANE	5.373	88	47121	11.90	PPBV	#	74
62)	HEPTANE	5.775	43	123410	8.07	PPBV	#	78
63)	METHYL METHACRYLATE	5.682	69	68221	9.31	PPBV	#	59
64)	METHYL ISOBUTYL KETONE	6.470	58	63961	10.31	PPBV	#	65
65)	CIS-1,3-DICHLOROPROPENE	6.348	75	93764	8.56	PPBV	#	76
66)	TOLUENE	7.614	91	207309	8.17	PPBV		99
67)	1,3-DICHLOROPROPANE	7.682	76	106865	8.73	PPBV	#	98
68)	TRANS-1,3-DICHLOROPROPENE	7.068	75	83311	8.62	PPBV	#	79
69)	1,1,2-TRICHLOROETHANE	7.238	83	63312	8.73	PPBV		98
70)	2-HEXANONE	8.222	58	87163	12.07	PPBV	#	69
71)	ETHYL METHACRYLATE	8.354	69	112284	10.39	PPBV	#	73
72)	TETRACHLOROETHENE	9.412	164	80149	9.14	PPBV		94
73)	DIBROMOCHLOROMETHANE	8.187	129	134013	8.56	PPBV		99
74)	1,2-DIBROMOETHANE	8.540	107	118289	8.91	PPBV		99
75)	OCTANE	9.557	43	168011	8.30	PPBV	#	78
77)	1,1,1,2-TETRACHLOROETHANE	10.675	131	92122	9.13	PPBV		95
78)	CHLOROBENZENE	10.663	112	171591	9.44	PPBV		98
79)	ETHYLBENZENE	11.566	91	277012	8.55	PPBV		99
80)	M,P-XYLENE	12.003	91	429971	17.79	PPBV	#	66
81)	O-XYLENE	12.962	91	216611	8.95	PPBV		98
82)	STYRENE	12.746	104	168457	10.41	PPBV		98
83)	NONANE	14.084	43	180978	8.69	PPBV	#	77
84)	BROMOFORM	11.823	173	121723	9.23	PPBV	#	98
85)	1,1,2,2-TETRACHLOROETHANE	12.984	83	171784	9.99	PPBV		99
86)	1,2,3-TRICHLOROPROPANE	13.270	75	128467	9.55	PPBV		98
88)	ISOPROPYLBENZENE	14.498	105	317146	9.50	PPBV	#	93
89)	BROMOBENZENE	14.373	77	157229	9.77	PPBV		95
90)	2-CHLOROTOLUENE	15.521	91	221725	10.18	PPBV		99
91)	N-PROPYLBENZENE	15.859	91	385977	10.50	PPBV	#	96
92)	4-ETHYLTOLUENE	16.199	105	321510	10.81	PPBV		100
93)	1,3,5-TRIMETHYLBENZENE	16.350	105	267105	10.62	PPBV		100
94)	ALPHA-METHYLSTYRENE	16.543	118	143897	11.42	PPBV		99
95)	TERT-BUTYLBENZENE	16.797	119	301546	10.69	PPBV		98
96)	1,2,4-TRIMETHYLBENZENE	16.804	105	280909	10.81	PPBV		96
97)	BENZYL CHLORIDE	16.887	91	177463	11.27	PPBV		98
98)	M-DICHLOROBENZENE	16.865	146	190501	10.55	PPBV		99
99)	P-DICHLOROBENZENE	16.945	146	191007	10.59	PPBV		99
100)	O-DICHLOROBENZENE	17.238	146	185805	10.51	PPBV		99
101)	SEC-BUTYLBENZENE	17.074	105	413233	10.74	PPBV		99
102)	1,2,3-TRIMETHYLBENZENE	17.183	105	275839	10.84	PPBV		99
103)	P-ISOPROPYLTOLUENE	17.251	119	359563	10.90	PPBV		96
104)	N-BUTYLBENZENE	17.595	91	343092	11.70	PPBV		98
105)	HEXACHLOROETHANE	17.772	117	118819	9.92	PPBV		90
106)	HEXACHLOROBUTADIENE	18.804	225	137095	10.47	PPBV		100
107)	1,2,4-TRICHLOROBENZENE	18.498	180	170571	11.62	PPBV		98
108)	NAPHTHALENE	18.547	128	457473	12.64	PPBV		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26824.D
Acq On : 3 Nov 2022 10:14 am
Operator : thomash
Sample : bs
Misc : MS63437,V6W1137,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 04 15:15:01 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration



Manual Integration Approval Summary

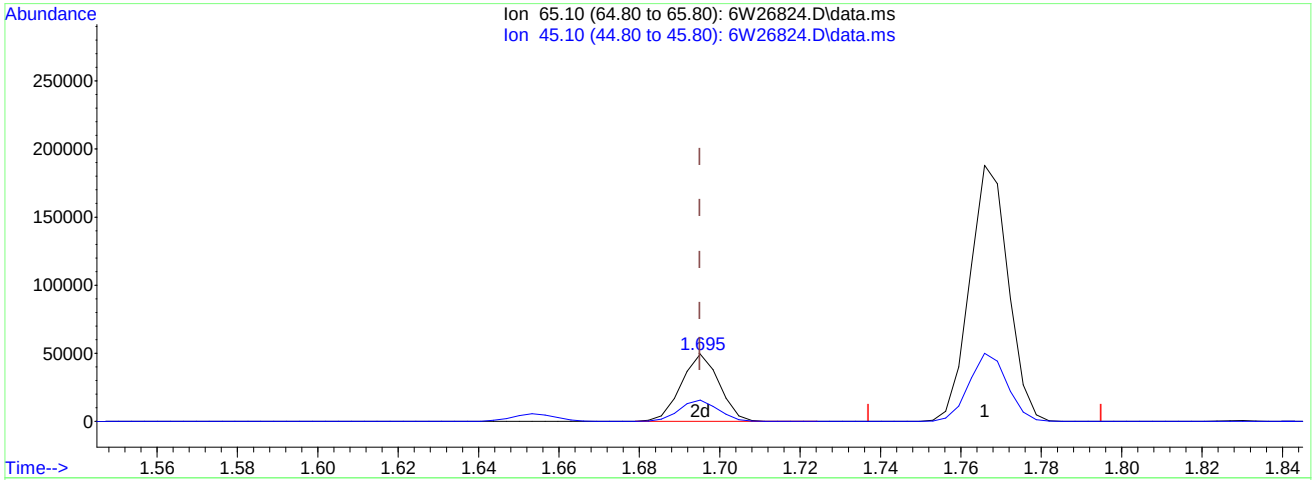
Sample Number:	V6W1137-BS	**Method:**	TO-15
Lab FileID:	6W26824.D	**Analyst approved:**	11/04/22 15:23 William Cruser
Injection Time:	11/03/22 10:14	**Supervisor approved:**	11/07/22 15:11 Kanya Veerawat

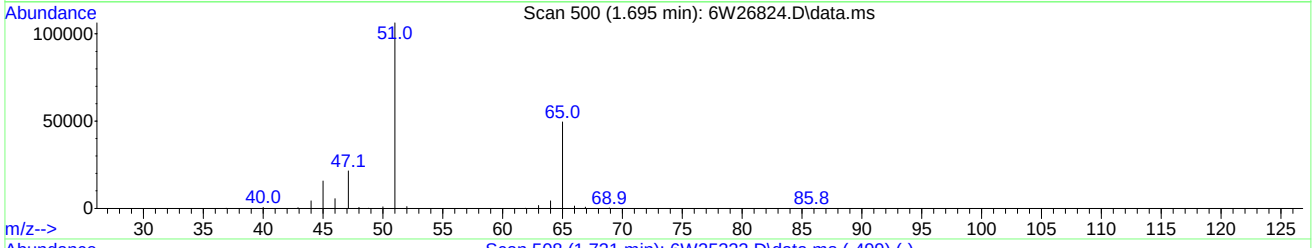
Parameter	CAS	Sig#	R.T. (min.)	Reason
Freon 152A	75-37-6		1.70	Missed peak

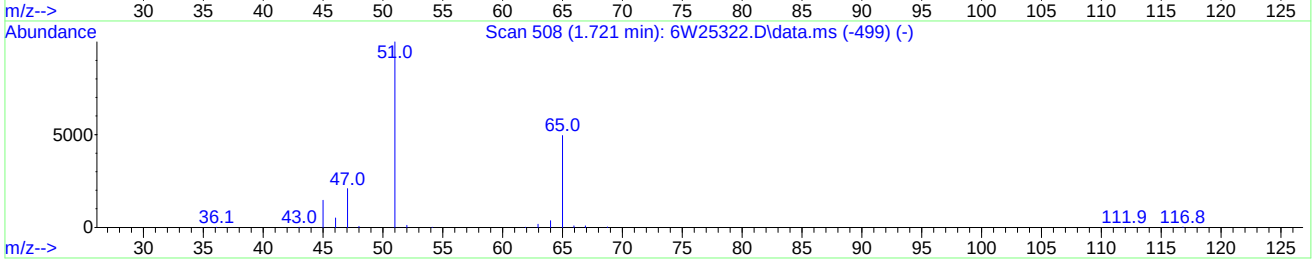
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26824.D
Acq On : 3 Nov 2022 10:14 am
Operator : thomash
Sample : bs
Misc : MS63437,V6W1137,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 03 10:39:21 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration







TIC: 6W26824.D\data.ms

(3) FREON 152A (T)

1.695min (+0.000) 8.25PPBV m

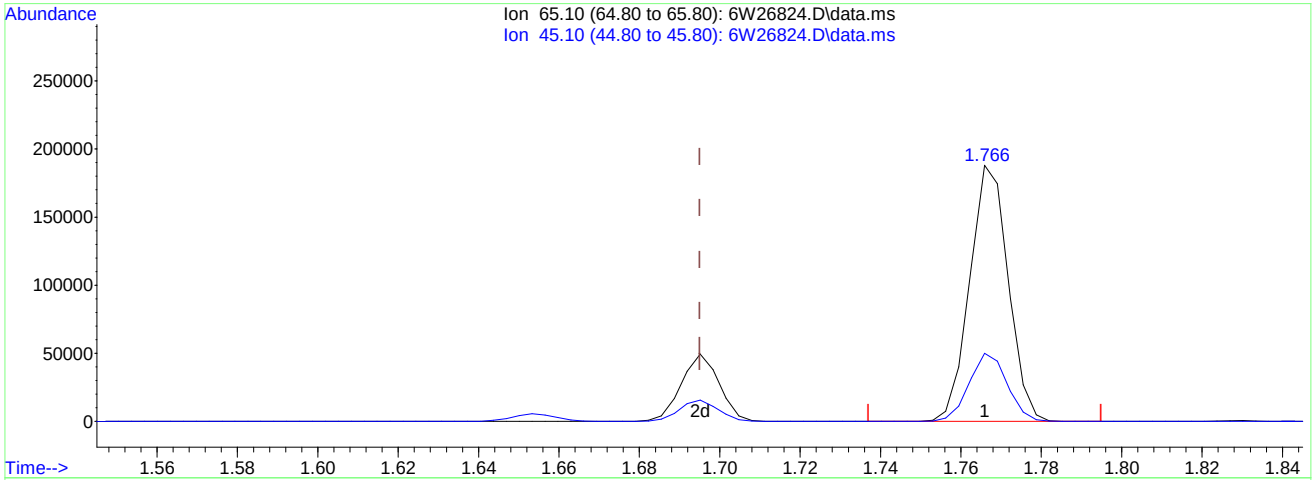
response 32453

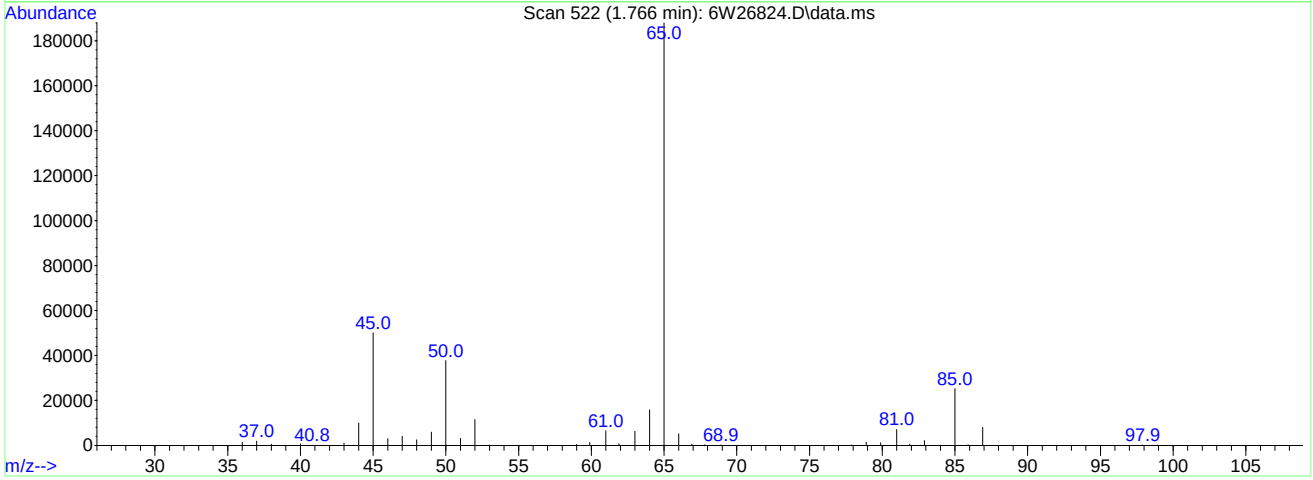
Ion	Exp%	Act%
65.10	100	100
45.10	22.90	101.59#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\Raw Data\
Data File : 6W26824.D
Acq On : 3 Nov 2022 10:14 am
Operator : thomash
Sample : bs
Misc : MS63437,V6W1137,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 07 15:58:08 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration





TIC: 6W26824.D\data.ms

(3) FREON 152A (T)

1.766min (+0.071) 31.79PPBV

response 125105

Ion	Exp%	Act%
65.10	100	100
45.10	22.90	26.35
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 11/07/22 15:11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26825.D
Acq On : 3 Nov 2022 10:45 am
Operator : thomash
Sample : bsd
Misc : MS63437,V6W1137,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 04 15:16:20 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.341	128	46044	10.00	PPBV	#	0.00
52) 1,4-DIFLUOROBENZENE	4.733	114	228615	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	10.585	117	186065	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	14.026	95	132310	10.18	PPBV		0.00
Target Compounds							Qvalue
3) FREON 152A	1.695	65	33216m	8.39	PPBV		
4) CHLORODIFLUOROMETHANE	1.708	67	14949	8.33	PPBV		97
5) CHLOROTRIFLUOROETHENE	1.717	116	75776	8.74	PPBV	#	99
6) DICHLORODIFLUOROMETHANE	1.734	85	173290	12.04	PPBV	#	93
7) PROPYLENE	1.717	41	46448	7.87	PPBV		97
8) 1-CHLORO-1,1-DIFLUOROE...	1.769	65	127408	9.66	PPBV	#	89
9) FREON 114	1.801	85	155582	10.27	PPBV		97
10) CHLOROMETHANE	1.772	52	20087	9.66	PPBV		93
11) VINYL CHLORIDE	1.830	62	66209	10.50	PPBV		98
12) 1,3-BUTADIENE	1.865	54	54325	10.53	PPBV	#	78
13) N-BUTANE	1.878	43	107395	9.24	PPBV	#	92
14) BROMOMETHANE	1.936	94	54279	11.13	PPBV		100
15) CHLOROETHANE	1.981	64	34006	11.26	PPBV		96
16) DICHLOROFLUOROMETHANE	2.004	67	136165	10.62	PPBV	#	96
17) ACETONITRILE	2.068	41	69412	10.25	PPBV		98
18) ACROLEIN	2.103	56	32920	11.75	PPBV		100
19) FREON 123	2.116	83	133907	11.01	PPBV		97
20) FREON 123A	2.132	117	78998	10.77	PPBV		87
21) TRICHLOROFLUOROMETHANE	2.193	101	150488	10.02	PPBV		100
22) ISOPROPYL ALCOHOL	2.206	45	143973	9.51	PPBV	#	96
23) ACETONE	2.139	58	35176	10.32	PPBV	#	49
24) PENTANE	2.299	42	77303	9.57	PPBV	#	95
25) IODOMETHANE	2.357	142	157077	10.85	PPBV		88
26) 1,1-DICHLOROETHYLENE	2.386	96	58048	10.17	PPBV	#	60
27) CARBON DISULFIDE	2.521	76	180249	9.97	PPBV	#	91
28) ETHANOL	2.007	45	34132	9.76	PPBV		97
29) BROMOETHENE	2.074	106	56221	11.00	PPBV	#	99
30) ACRYLONITRILE	2.274	52	53411	10.46	PPBV		97
31) METHYLENE CHLORIDE	2.422	84	54219	9.47	PPBV	#	56
32) 3-CHLOROPROPENE	2.463	76	28782	10.33	PPBV	#	6
33) FREON 113	2.521	151	98600	9.74	PPBV		88
34) TRANS-1,2-DICHLOROETHENE	2.772	96	63473	9.96	PPBV	#	80
35) TERTIARY BUTYL ALCOHOL	2.396	59	112444	9.08	PPBV	#	88
36) METHYL TERTIARY BUTYL ...	2.888	73	132947	8.38	PPBV	#	93
37) TETRAHYDROFURAN	3.656	72	31351	10.64	PPBV	#	46
38) HEXANE	3.393	57	118476	9.58	PPBV	#	78
39) VINYL ACETATE	2.933	86	16439	10.76	PPBV	#	1
40) 1,1-DICHLOROETHANE	2.852	63	118607	9.76	PPBV		98
41) METHYL ETHYL KETONE	3.039	72	32160	10.38	PPBV	#	4
42) CIS-1,2-DICHLOROETHENE	3.254	96	65144	9.74	PPBV	#	80
43) DIISOPROPYL ETHER	3.399	59	32911	9.26	PPBV	#	48
44) ETHYL ACETATE	3.409	61	25316	10.37	PPBV	#	45
45) METHYL ACRYLATE	3.393	55	156892	10.26	PPBV	#	97
46) CHLOROFORM	3.422	83	131064	9.55	PPBV	#	94
47) 2,4-DIMETHYLPENTANE	3.955	57	140305	10.04	PPBV	#	94
48) 1,1,1-TRICHLOROETHANE	4.042	97	119399	8.85	PPBV	#	91
49) CARBON TETRACHLORIDE	4.499	117	131670	9.10	PPBV		99
50) 1,2-DICHLOROETHANE	3.868	62	95041	9.10	PPBV	#	95
51) BENZENE	4.380	78	193835	9.44	PPBV		81
53) CYCLOHEXANE	4.602	84	83201	9.98	PPBV	#	72
54) 2,3-DIMETHYLPENTANE	4.878	71	44752	9.86	PPBV	#	55
55) TRICHLOROETHENE	5.351	95	85815	9.56	PPBV		99
56) 1,2-DICHLOROPROPANE	5.103	63	82162	9.97	PPBV		99
57) DIBROMOMETHANE	5.061	174	75718	8.95	PPBV		88

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26825.D
Acq On : 3 Nov 2022 10:45 am
Operator : thomash
Sample : bsd
Misc : MS63437,V6W1137,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 04 15:16:20 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration

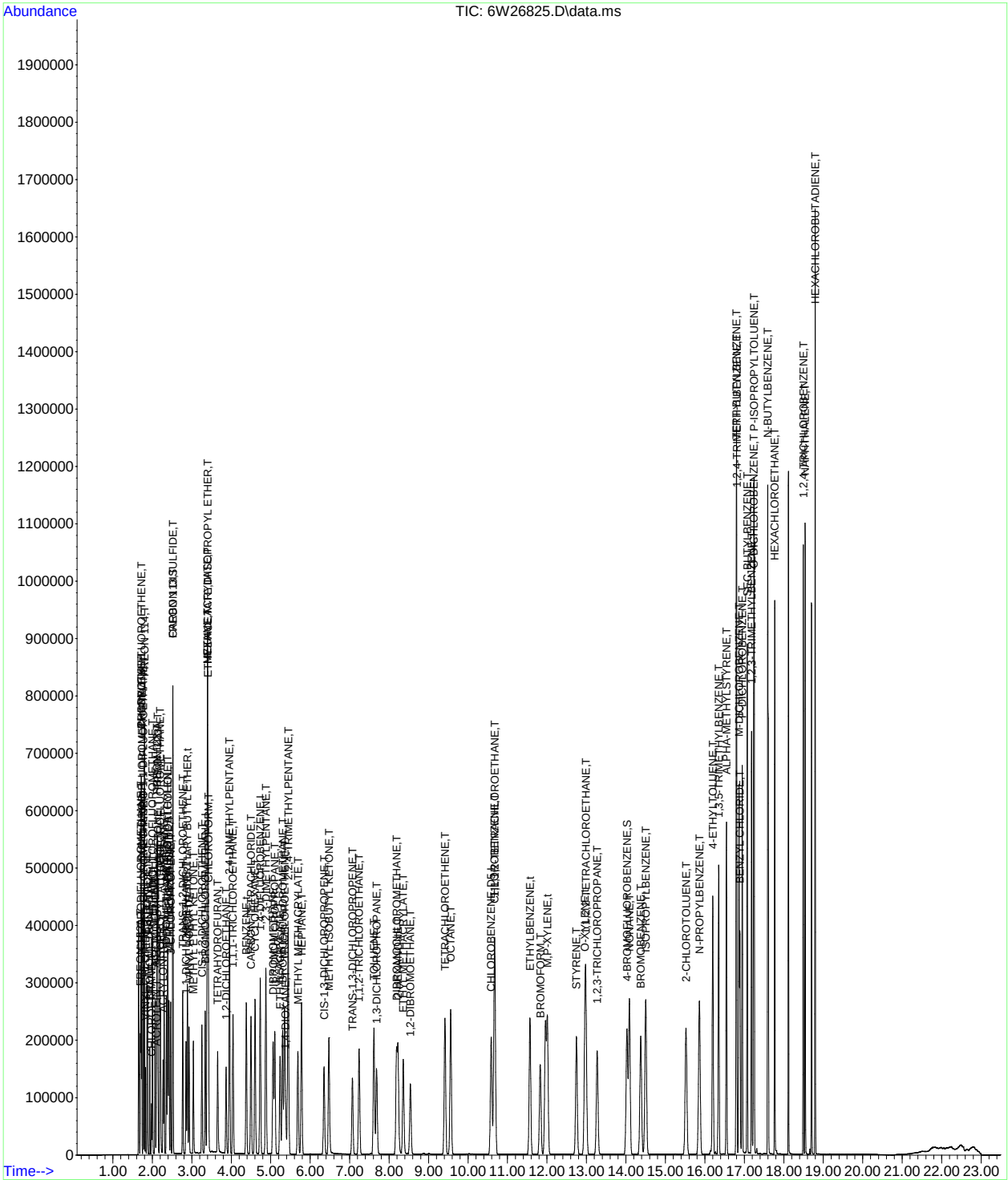
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
58) ETHYL ACRYLATE	5.238	55	194204	11.11	PPBV	#	97
59) BROMODICHLOROMETHANE	5.299	83	139846	9.25	PPBV		99
60) 2,2,4-TRIMETHYLPENTANE	5.444	57	384577	10.17	PPBV	#	98
61) 1,4-DIOXANE	5.376	88	48379	12.26	PPBV	#	75
62) HEPTANE	5.782	43	126400	8.30	PPBV	#	77
63) METHYL METHACRYLATE	5.688	69	69893	9.57	PPBV	#	58
64) METHYL ISOBUTYL KETONE	6.473	58	66769	10.81	PPBV	#	67
65) CIS-1,3-DICHLOROPROPENE	6.351	75	96570	8.84	PPBV	#	76
66) TOLUENE	7.614	91	213416	8.44	PPBV		98
67) 1,3-DICHLOROPROPANE	7.685	76	109251	8.96	PPBV	#	98
68) TRANS-1,3-DICHLOROPROPENE	7.071	75	86888	9.03	PPBV	#	79
69) 1,1,2-TRICHLOROETHANE	7.238	83	64932	8.99	PPBV		99
70) 2-HEXANONE	8.225	58	90346	12.55	PPBV	#	71
71) ETHYL METHACRYLATE	8.357	69	115476	10.73	PPBV	#	74
72) TETRACHLOROETHENE	9.415	164	81260	9.30	PPBV		93
73) DIBROMOCHLOROMETHANE	8.187	129	136536	8.75	PPBV		98
74) 1,2-DIBROMOETHANE	8.537	107	121318	9.17	PPBV		99
75) OCTANE	9.560	43	172896	8.58	PPBV	#	78
77) 1,1,1,2-TETRACHLOROETHANE	10.679	131	93527	9.37	PPBV		95
78) CHLOROBENZENE	10.666	112	177544	9.88	PPBV		99
79) ETHYLBENZENE	11.569	91	285116	8.90	PPBV		99
80) M,P-XYLENE	12.006	91	438435	18.33	PPBV	#	67
81) O-XYLENE	12.958	91	224408	9.37	PPBV		96
82) STYRENE	12.746	104	172544	10.78	PPBV		97
83) NONANE	14.090	43	185495	9.00	PPBV	#	77
84) BROMOFORM	11.830	173	124184	9.51	PPBV	#	98
85) 1,1,2,2-TETRACHLOROETHANE	12.987	83	174386	10.25	PPBV		98
86) 1,2,3-TRICHLOROPROPANE	13.270	75	130786	9.83	PPBV		99
88) ISOPROPYLBENZENE	14.502	105	326034	9.88	PPBV	#	94
89) BROMOBENZENE	14.376	77	160502	10.08	PPBV		95
90) 2-CHLOROTOLUENE	15.524	91	227471	10.55	PPBV		99
91) N-PROPYLBENZENE	15.862	91	396215	10.89	PPBV	#	96
92) 4-ETHYLTOLUENE	16.202	105	331969	11.28	PPBV		100
93) 1,3,5-TRIMETHYLBENZENE	16.350	105	273657	11.00	PPBV		99
94) ALPHA-METHYLSTYRENE	16.546	118	147551	11.84	PPBV		98
95) TERT-BUTYLBENZENE	16.797	119	305573	10.94	PPBV		98
96) 1,2,4-TRIMETHYLBENZENE	16.807	105	285821	11.12	PPBV		96
97) BENZYL CHLORIDE	16.887	91	183899	11.80	PPBV		98
98) M-DICHLOROBENZENE	16.865	146	193831	10.84	PPBV		99
99) P-DICHLOROBENZENE	16.948	146	194887	10.92	PPBV		99
100) O-DICHLOROBENZENE	17.238	146	190795	10.91	PPBV		99
101) SEC-BUTYLBENZENE	17.074	105	425347	11.17	PPBV		99
102) 1,2,3-TRIMETHYLBENZENE	17.183	105	280585	11.15	PPBV		99
103) P-ISOPROPYLTOLUENE	17.247	119	368422	11.29	PPBV		96
104) N-BUTYLBENZENE	17.591	91	351484	12.12	PPBV		98
105) HEXACHLOROETHANE	17.768	117	121827m	10.28	PPBV		
106) HEXACHLOROBUTADIENE	18.794	225	141949	10.96	PPBV		99
107) 1,2,4-TRICHLOROBENZENE	18.495	180	174827	12.04	PPBV		99
108) NAPHTHALENE	18.540	128	464467	12.97	PPBV		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26825.D
Acq On : 3 Nov 2022 10:45 am
Operator : thomash
Sample : bsd
Misc : MS63437,V6W1137,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 04 15:16:20 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration



Manual Integration Approval Summary

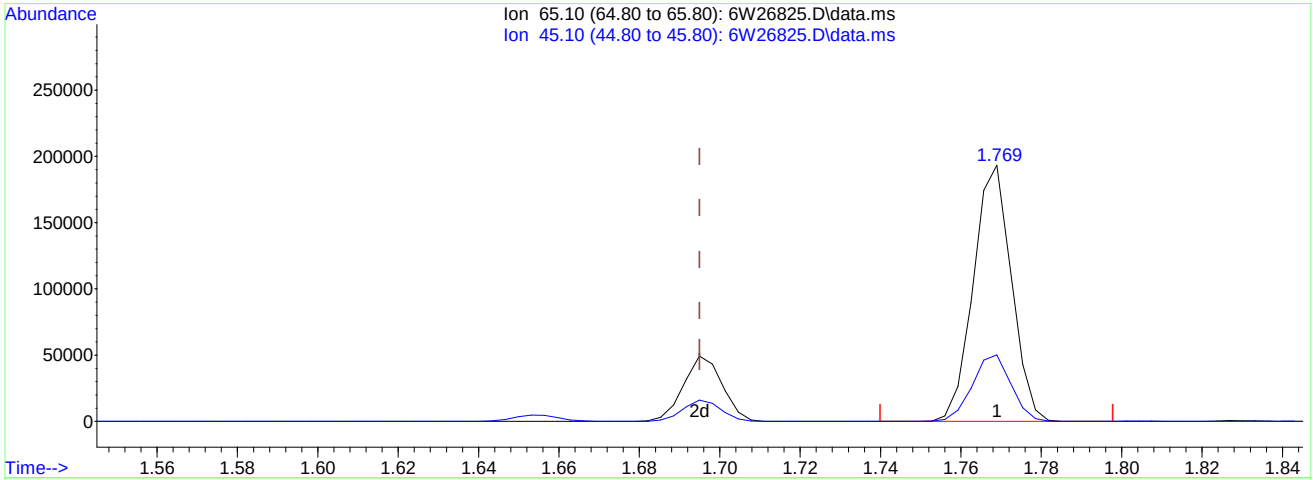
Sample Number:	V6W1137-BSD	**Method:**	TO-15
Lab FileID:	6W26825.D	**Analyst approved:**	11/04/22 15:23 William Cruser
Injection Time:	11/03/22 10:45	**Supervisor approved:**	11/07/22 15:11 Kanya Veerawat

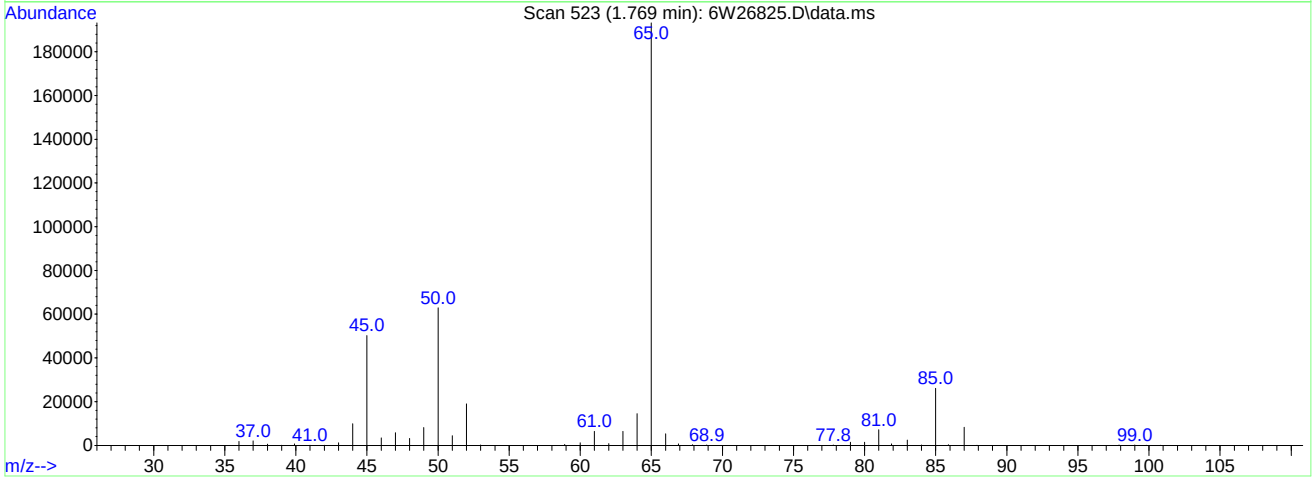
Parameter	CAS	Sig#	R.T. (min.)	Reason
Freon 152A	75-37-6		1.69	Missed peak
Hexachloroethane	67-72-1		17.77	Missed peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26825.D
Acq On : 3 Nov 2022 10:45 am
Operator : thomash
Sample : bsd
Misc : MS63437,V6W1137,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 03 11:19:27 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration





TIC: 6W26825.D\data.ms

(3) FREON 152A (T)

1.769min (+0.074) 32.18PPBV

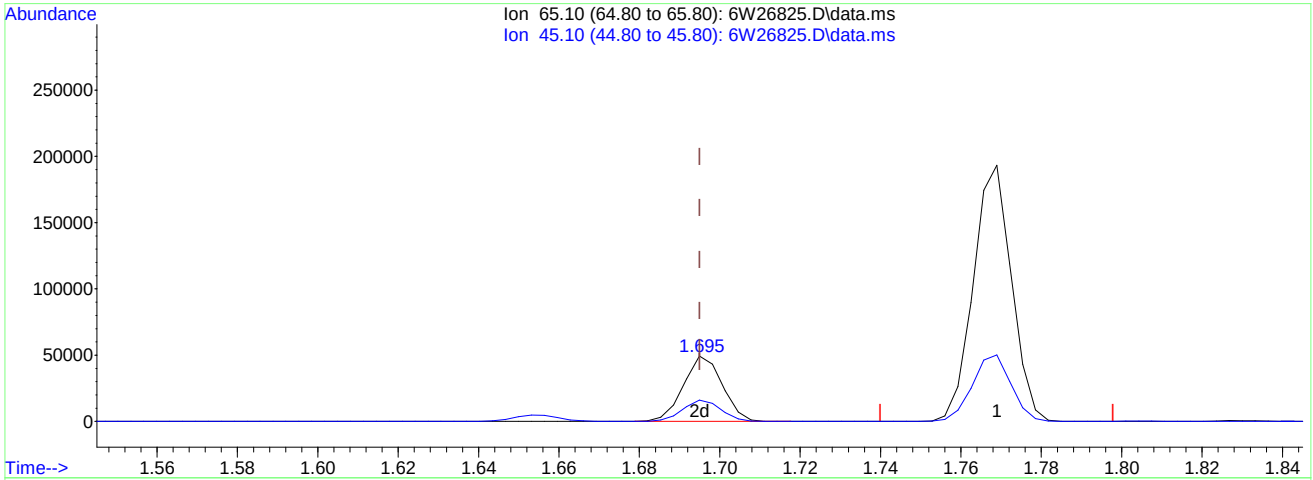
response 127376

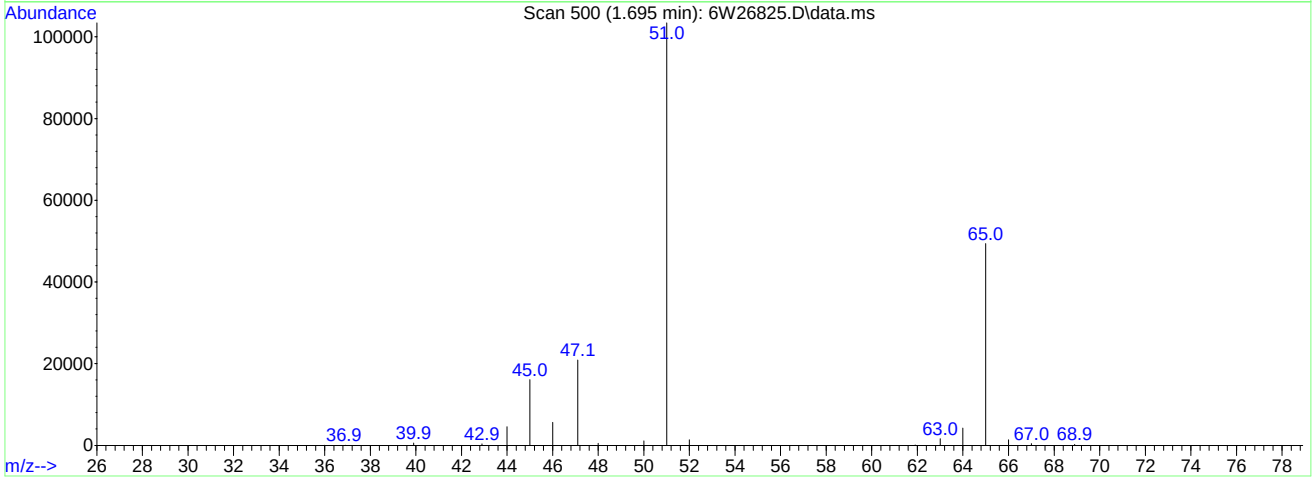
Ion	Exp%	Act%
65.10	100	100
45.10	22.90	26.36
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26825.D
Acq On : 3 Nov 2022 10:45 am
Operator : thomash
Sample : bsd
Misc : MS63437,V6W1137,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 03 11:19:27 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration





TIC: 6W26825.D\data.ms

(3) FREON 152A (T)

1.695min (-0.000) 8.39PPBV m

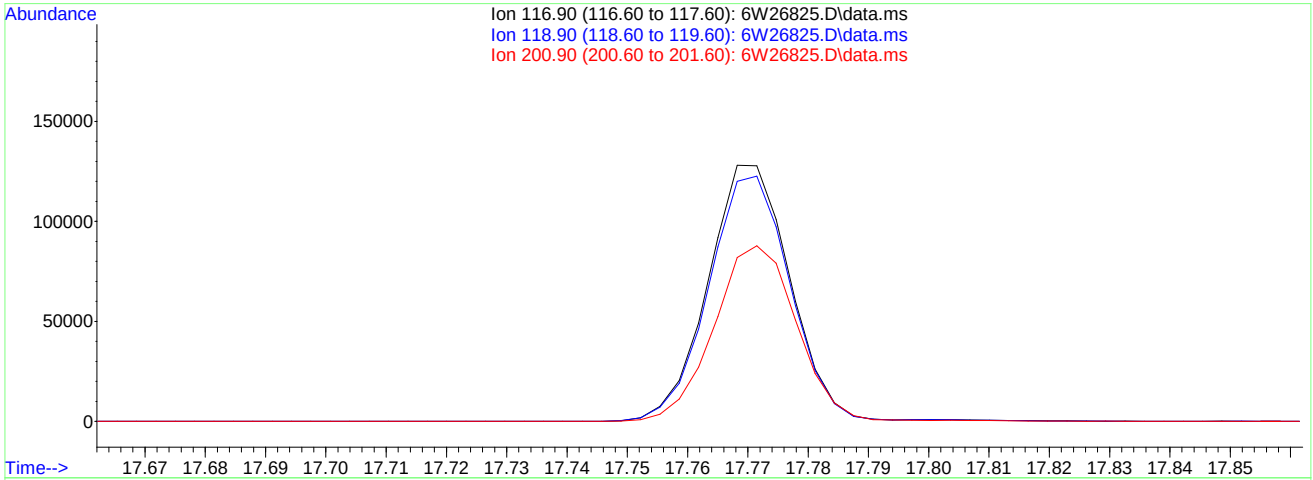
response 33216

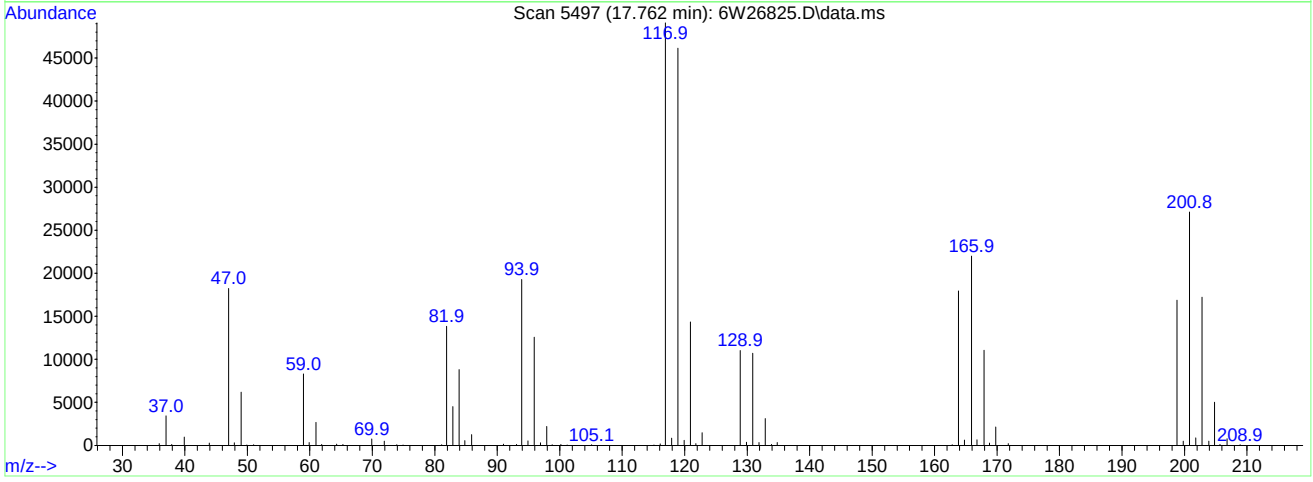
Ion	Exp%	Act%
65.10	100	100
45.10	22.90	101.07#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26825.D
Acq On : 3 Nov 2022 10:45 am
Operator : thomash
Sample : bsd
Misc : MS63437,V6W1137,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 03 11:19:27 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration





TIC: 6W26825.D\data.ms

(105) HEXACHLOROETHANE (T)

17.762min (-17.762) 0.00PPBV

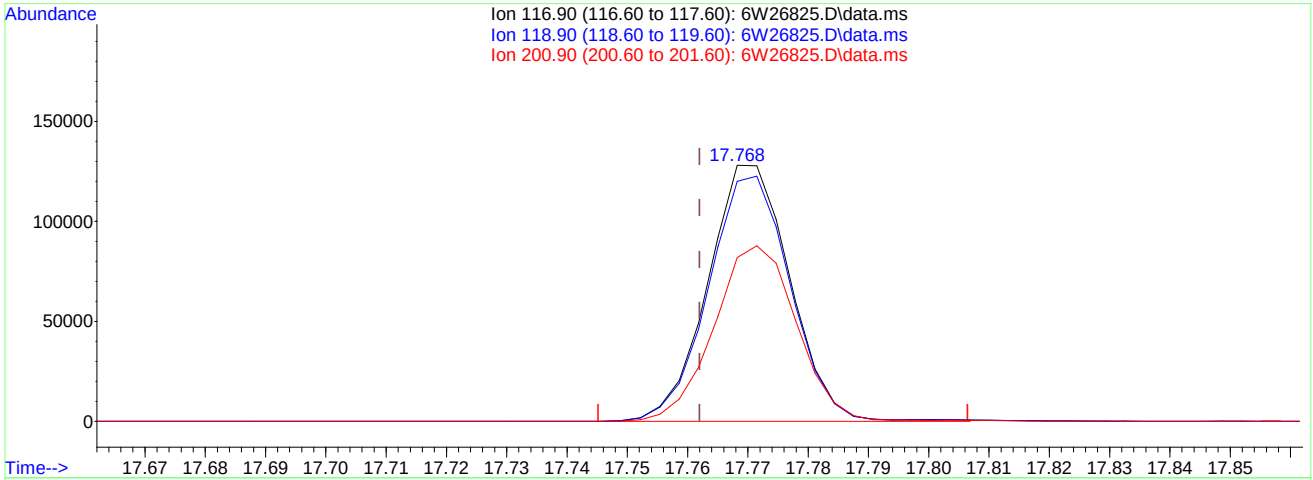
response 0

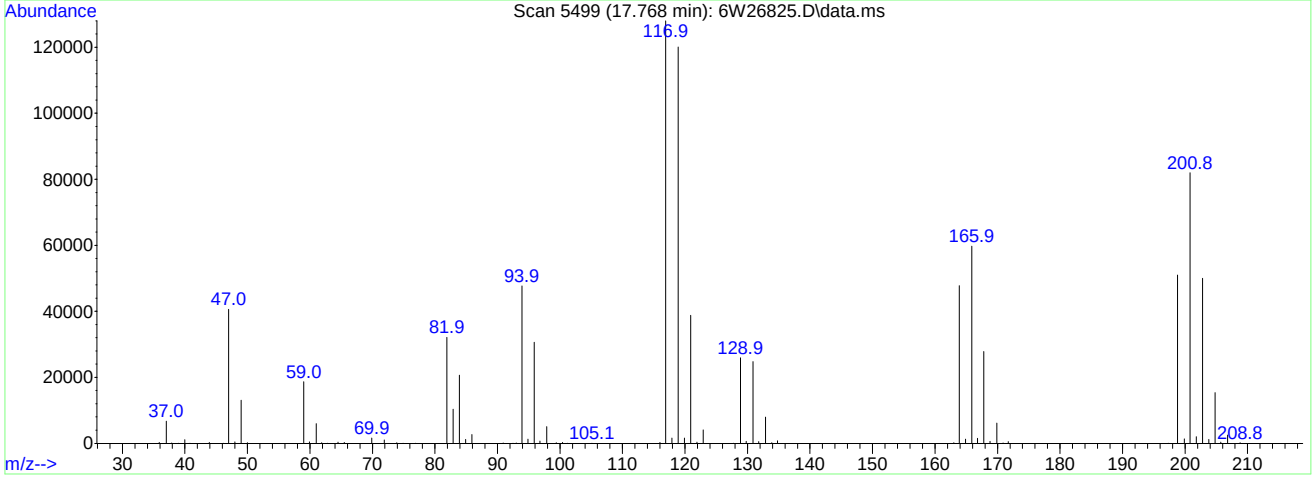
Ion	Exp%	Act%
116.90	100	0.00
118.90	95.50	0.00#
200.90	87.80	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26825.D
Acq On : 3 Nov 2022 10:45 am
Operator : thomash
Sample : bsd
Misc : MS63437,V6W1137,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 04 15:16:20 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration





TIC: 6W26825.D\data.ms

(105) HEXACHLOROETHANE (T)

17.768min (+0.006) 10.28PPBV m

response 121827

Ion	Exp%	Act%
116.90	100	100
118.90	95.50	0.00#
200.90	87.80	0.00#
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 11/08/22 16:17

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26864.D
Acq On : 4 Nov 2022 10:15 am
Operator : thomash
Sample : bs
Misc : MS63483,V6W1138,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 08 16:01:49 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.338	128	47373	10.00	PPBV	#	0.00
52) 1,4-DIFLUOROBENZENE	4.733	114	236723	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	10.585	117	191883	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	14.026	95	136001	10.15	PPBV		0.00
Target Compounds							Qvalue
3) FREON 152A	1.695	65	34256m	8.41	PPBV		
4) CHLORODIFLUOROMETHANE	1.708	67	15537	8.42	PPBV		99
5) CHLOROTRIFLUOROETHENE	1.717	116	79227	8.88	PPBV	#	99
6) DICHLORODIFLUOROMETHANE	1.798	85	147805	9.98	PPBV		99
7) PROPYLENE	1.717	41	48268	7.95	PPBV		96
8) 1-CHLORO-1,1-DIFLUOROE...	1.769	65	133168	9.81	PPBV	#	90
9) FREON 114	1.801	85	164132	10.53	PPBV		97
10) CHLOROMETHANE	1.772	52	21114	9.87	PPBV		95
11) VINYL CHLORIDE	1.830	62	69065	10.64	PPBV		98
12) 1,3-BUTADIENE	1.865	54	56942	10.73	PPBV	#	79
13) N-BUTANE	1.881	43	113955	9.53	PPBV	#	91
14) BROMOMETHANE	1.936	94	57387	11.43	PPBV		99
15) CHLOROETHANE	1.981	64	35545	11.44	PPBV		96
16) DICHLOROFLUOROMETHANE	2.004	67	142665	10.82	PPBV	#	97
17) ACETONITRILE	2.068	41	73177	10.50	PPBV		99
18) ACROLEIN	2.103	56	34305	11.90	PPBV		100
19) FREON 123	2.116	83	139159	11.13	PPBV		96
20) FREON 123A	2.132	117	82097	10.88	PPBV		86
21) TRICHLOROFLUOROMETHANE	2.193	101	157632	10.21	PPBV		99
22) ISOPROPYL ALCOHOL	2.209	45	146753	9.42	PPBV	#	95
23) ACETONE	2.139	58	36486	10.40	PPBV	#	45
24) PENTANE	2.299	42	81644	9.82	PPBV	#	94
25) IODOMETHANE	2.357	142	163638	10.99	PPBV		88
26) 1,1-DICHLOROETHYLENE	2.386	96	60825	10.36	PPBV	#	61
27) CARBON DISULFIDE	2.521	76	189650	10.19	PPBV	#	91
28) ETHANOL	2.007	45	35594	9.89	PPBV		97
29) BROMOETHENE	2.074	106	58992	11.21	PPBV	#	98
30) ACRYLONITRILE	2.274	52	55295	10.52	PPBV		97
31) METHYLENE CHLORIDE	2.422	84	56434	9.58	PPBV	#	55
32) 3-CHLOROPROPENE	2.463	76	30051	10.48	PPBV	#	5
33) FREON 113	2.521	151	102970	9.89	PPBV		88
34) TRANS-1,2-DICHLOROETHENE	2.772	96	66363	10.12	PPBV	#	81
35) TERTIARY BUTYL ALCOHOL	2.396	59	103985	8.16	PPBV	#	76
36) METHYL TERTIARY BUTYL ...	2.888	73	121526	7.45	PPBV	#	92
37) TETRAHYDROFURAN	3.653	72	32728	10.79	PPBV	#	46
38) HEXANE	3.393	57	124174	9.76	PPBV	#	77
39) VINYL ACETATE	2.933	86	16659	10.60	PPBV	#	1
40) 1,1-DICHLOROETHANE	2.852	63	124069	9.92	PPBV		98
41) METHYL ETHYL KETONE	3.039	72	33424	10.49	PPBV	#	5
42) CIS-1,2-DICHLOROETHENE	3.258	96	68018	9.88	PPBV	#	80
43) DIISOPROPYL ETHER	3.399	59	32381	8.86	PPBV	#	48
44) ETHYL ACETATE	3.406	61	25738	10.24	PPBV	#	45
45) METHYL ACRYLATE	3.393	55	162212	10.31	PPBV	#	97
46) CHLOROFORM	3.422	83	135620	9.60	PPBV	#	93
47) 2,4-DIMETHYLPENTANE	3.955	57	147731	10.28	PPBV	#	94
48) 1,1,1-TRICHLOROETHANE	4.042	97	122719	8.84	PPBV	#	90
49) CARBON TETRACHLORIDE	4.499	117	137135	9.21	PPBV		99
50) 1,2-DICHLOROETHANE	3.869	62	98881	9.20	PPBV	#	95
51) BENZENE	4.380	78	202291	9.58	PPBV		81
53) CYCLOHEXANE	4.605	84	87144	10.09	PPBV	#	73
54) 2,3-DIMETHYLPENTANE	4.878	71	47036	10.00	PPBV	#	56
55) TRICHLOROETHENE	5.348	95	90585	9.75	PPBV		100
56) 1,2-DICHLOROPROPANE	5.103	63	85143	9.98	PPBV		98
57) DIBROMOMETHANE	5.061	174	78303	8.93	PPBV		88

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26864.D
Acq On : 4 Nov 2022 10:15 am
Operator : thomash
Sample : bs
Misc : MS63483,V6W1138,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 08 16:01:49 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration

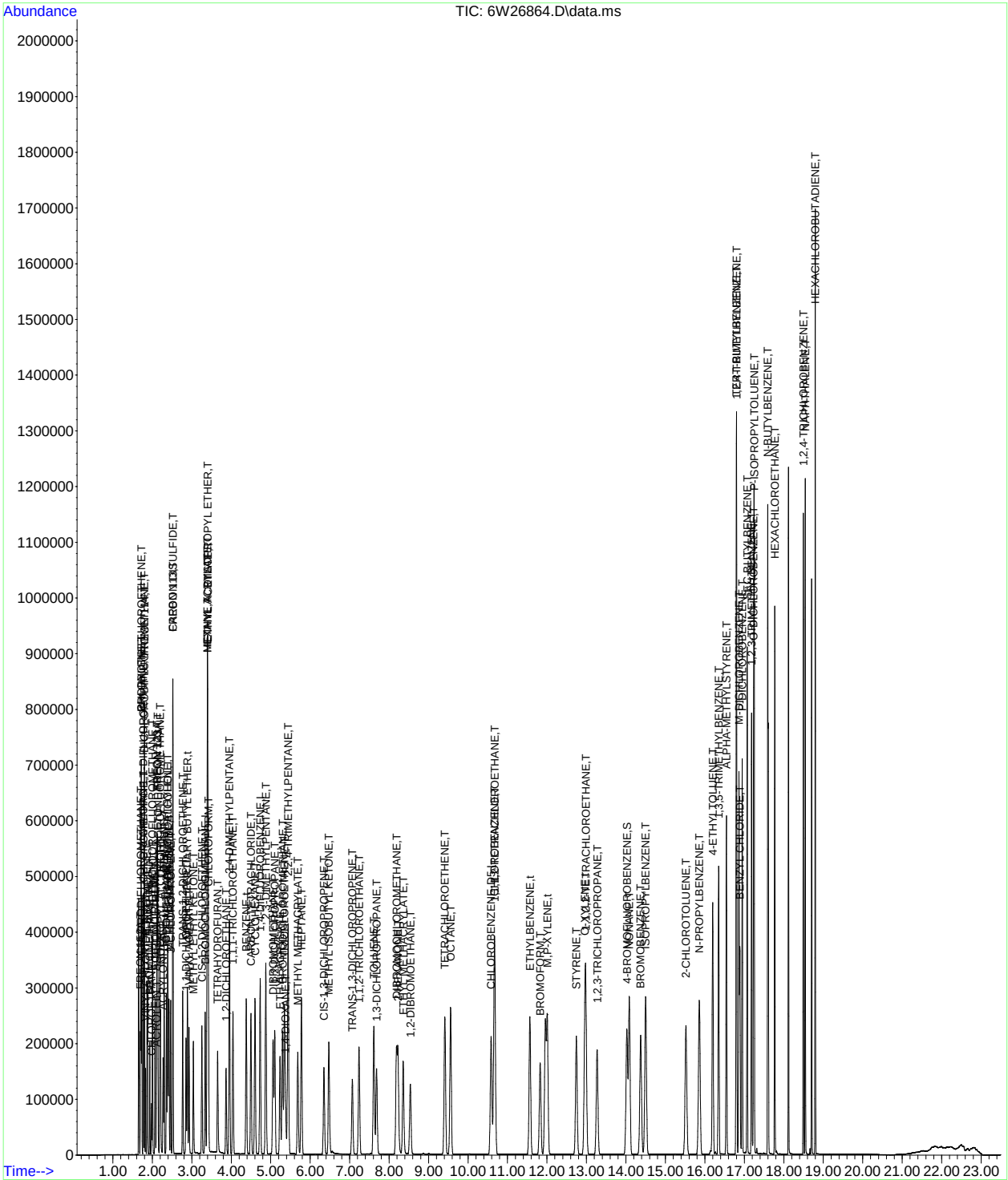
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
58)	ETHYL ACRYLATE	5.235	55	198668	10.97	PPBV	#	97
59)	BROMODICHLOROMETHANE	5.299	83	143424	9.16	PPBV		98
60)	2,2,4-TRIMETHYLPENTANE	5.441	57	401160	10.24	PPBV	#	98
61)	1,4-DIOXANE	5.377	88	49729	12.18	PPBV	#	75
62)	HEPTANE	5.778	43	132545	8.40	PPBV	#	77
63)	METHYL METHACRYLATE	5.685	69	72029	9.52	PPBV	#	58
64)	METHYL ISOBUTYL KETONE	6.470	58	67407	10.54	PPBV	#	70
65)	CIS-1,3-DICHLOROPROPENE	6.348	75	97463	8.62	PPBV	#	76
66)	TOLUENE	7.614	91	221006	8.44	PPBV		99
67)	1,3-DICHLOROPROPANE	7.685	76	115357	9.14	PPBV	#	98
68)	TRANS-1,3-DICHLOROPROPENE	7.068	75	86964	8.73	PPBV	#	79
69)	1,1,2-TRICHLOROETHANE	7.241	83	67537	9.03	PPBV		98
70)	2-HEXANONE	8.225	58	90926	12.20	PPBV	#	68
71)	ETHYL METHACRYLATE	8.360	69	118228	10.61	PPBV	#	74
72)	TETRACHLOROETHENE	9.412	164	84861	9.38	PPBV		94
73)	DIBROMOCHLOROMETHANE	8.187	129	141476	8.76	PPBV		99
74)	1,2-DIBROMOETHANE	8.540	107	124047	9.06	PPBV		100
75)	OCTANE	9.560	43	180642	8.65	PPBV	#	78
77)	1,1,1,2-TETRACHLOROETHANE	10.679	131	97406	9.46	PPBV		95
78)	CHLOROBENZENE	10.666	112	183295	9.89	PPBV		98
79)	ETHYLBENZENE	11.569	91	294167	8.90	PPBV		100
80)	M,P-XYLENE	12.006	91	455635m	18.47	PPBV		
81)	O-XYLENE	12.961	91	230791	9.35	PPBV		99
82)	STYRENE	12.746	104	177107	10.73	PPBV		97
83)	NONANE	14.084	43	192784	9.07	PPBV	#	77
84)	BROMOFORM	11.826	173	128802	9.57	PPBV	#	98
85)	1,1,2,2-TETRACHLOROETHANE	12.984	83	180583	10.30	PPBV		98
86)	1,2,3-TRICHLOROPROPANE	13.273	75	136140	9.92	PPBV		98
88)	ISOPROPYLBENZENE	14.498	105	339084	9.96	PPBV	#	94
89)	BROMOBENZENE	14.373	77	166998	10.17	PPBV		95
90)	2-CHLOROTOLUENE	15.521	91	236190	10.63	PPBV		99
91)	N-PROPYLBENZENE	15.858	91	404154	10.78	PPBV	#	96
92)	4-ETHYLTOLUENE	16.199	105	341387	11.25	PPBV		100
93)	1,3,5-TRIMETHYLBENZENE	16.350	105	283633	11.05	PPBV		99
94)	ALPHA-METHYLSTYRENE	16.546	118	151938	11.82	PPBV		99
95)	TERT-BUTYLBENZENE	16.797	119	318387	11.06	PPBV		98
96)	1,2,4-TRIMETHYLBENZENE	16.804	105	298108	11.25	PPBV		96
97)	BENZYL CHLORIDE	16.887	91	176978	11.02	PPBV		98
98)	M-DICHLOROBENZENE	16.865	146	199980	10.85	PPBV		99
99)	P-DICHLOROBENZENE	16.945	146	202174	10.99	PPBV		99
100)	O-DICHLOROBENZENE	17.235	146	195196	10.82	PPBV		99
101)	SEC-BUTYLBENZENE	17.074	105	439600	11.20	PPBV		99
102)	1,2,3-TRIMETHYLBENZENE	17.183	105	288579	11.12	PPBV		99
103)	P-ISOPROPYLTOLUENE	17.251	119	381859	11.35	PPBV		97
104)	N-BUTYLBENZENE	17.591	91	363553	12.16	PPBV		99
105)	HEXACHLOROETHANE	17.772	117	121545m	9.94	PPBV		
106)	HEXACHLOROBUTADIENE	18.797	225	145248	10.87	PPBV		100
107)	1,2,4-TRICHLOROBENZENE	18.495	180	180071	12.02	PPBV		99
108)	NAPHTHALENE	18.543	128	483817	13.10	PPBV		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26864.D
Acq On : 4 Nov 2022 10:15 am
Operator : thomash
Sample : bs
Misc : MS63483,V6W1138,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 08 16:01:49 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration



Manual Integration Approval Summary

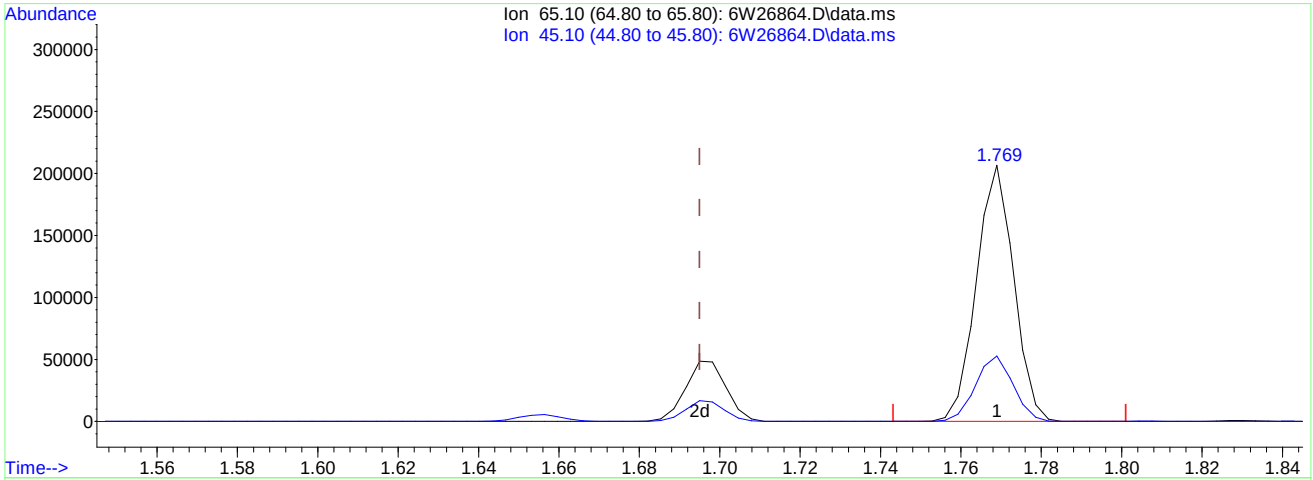
Sample Number: V6W1138-BS
Lab FileID: 6W26864.D
Injection Time: 11/04/22 10:15
Method: TO-15
Analyst approved: 11/08/22 16:03 William Cruser
Supervisor approved: 11/08/22 16:17 Kanya Veerawat

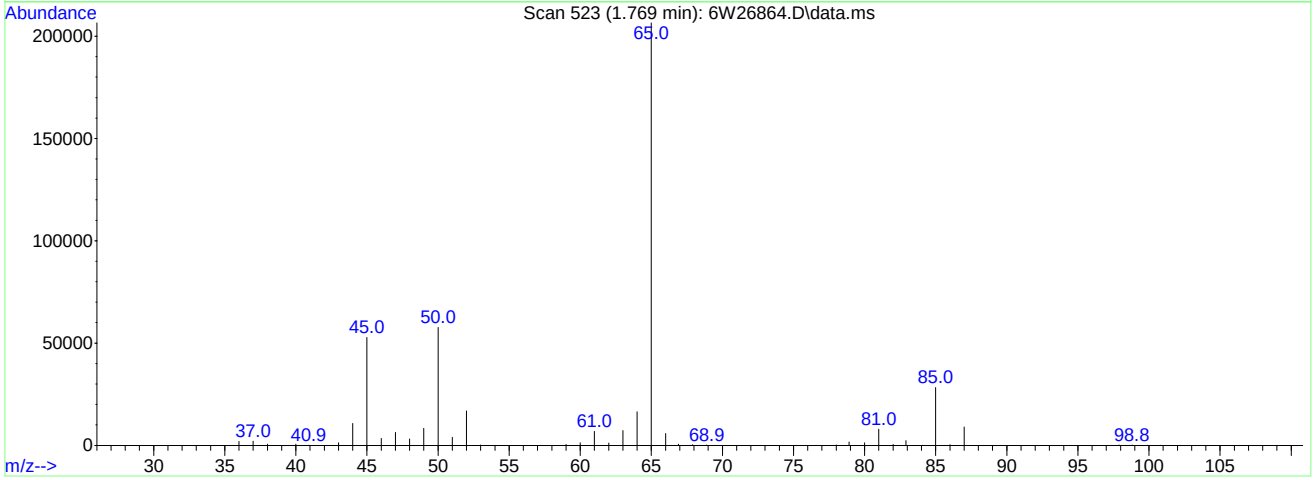
Parameter	CAS	Sig#	R.T. (min.)	Reason
Freon 152A	75-37-6		1.69	Missed peak
m,p-Xylene			12.01	Split peak
Hexachloroethane	67-72-1		17.77	Missed peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26864.D
Acq On : 4 Nov 2022 10:15 am
Operator : thomash
Sample : bs
Misc : MS63483,V6W1138,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 04 09:41:14 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration





TIC: 6W26864.D\data.ms

(3) FREON 152A (T)

1.769min (+0.074) 32.70PPBV

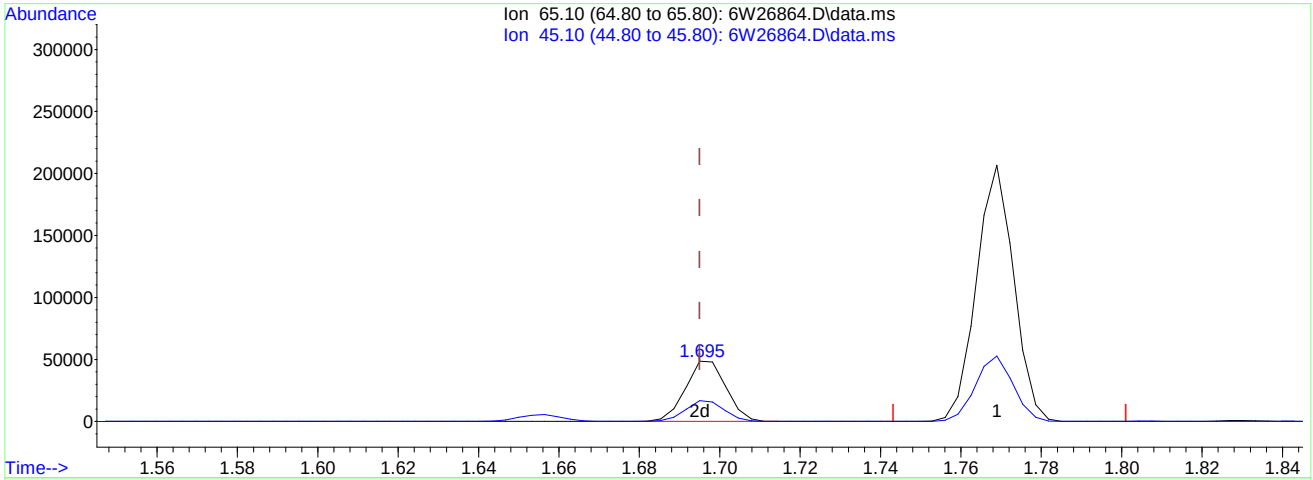
response 133168

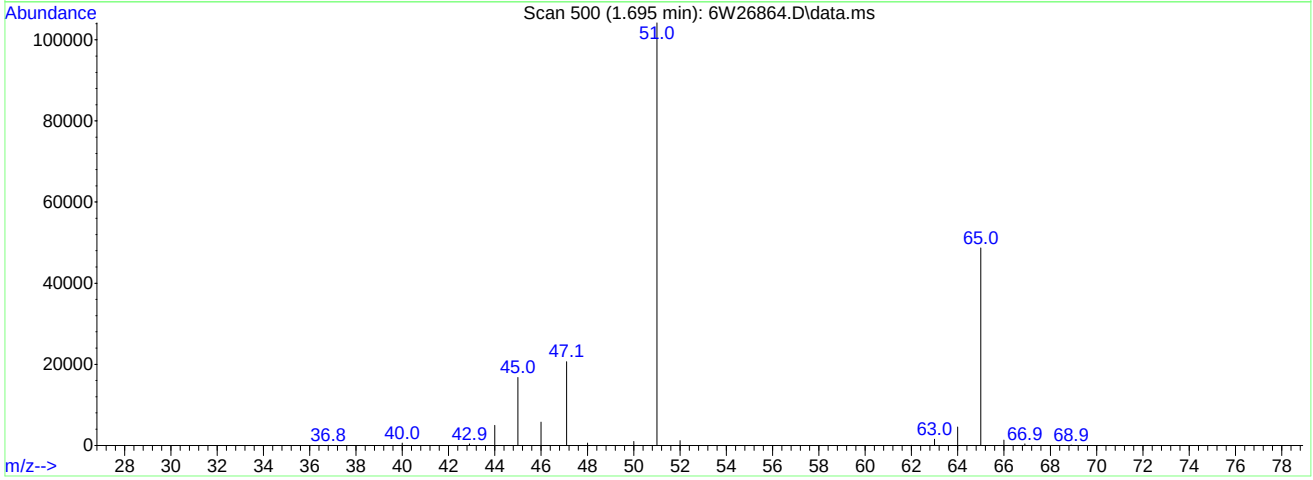
Ion	Exp%	Act%
65.10	100	100
45.10	22.90	25.84
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26864.D
Acq On : 4 Nov 2022 10:15 am
Operator : thomash
Sample : bs
Misc : MS63483,V6W1138,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 04 09:41:14 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration





TIC: 6W26864.D\data.ms

(3) FREON 152A (T)

1.695min (-0.000) 8.41PPBV m

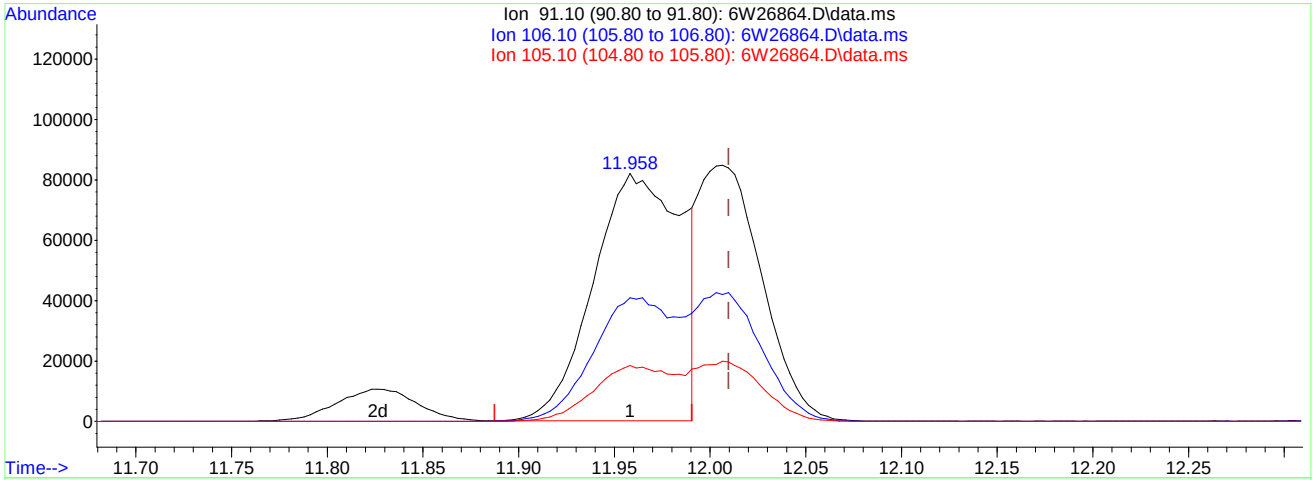
response 34256

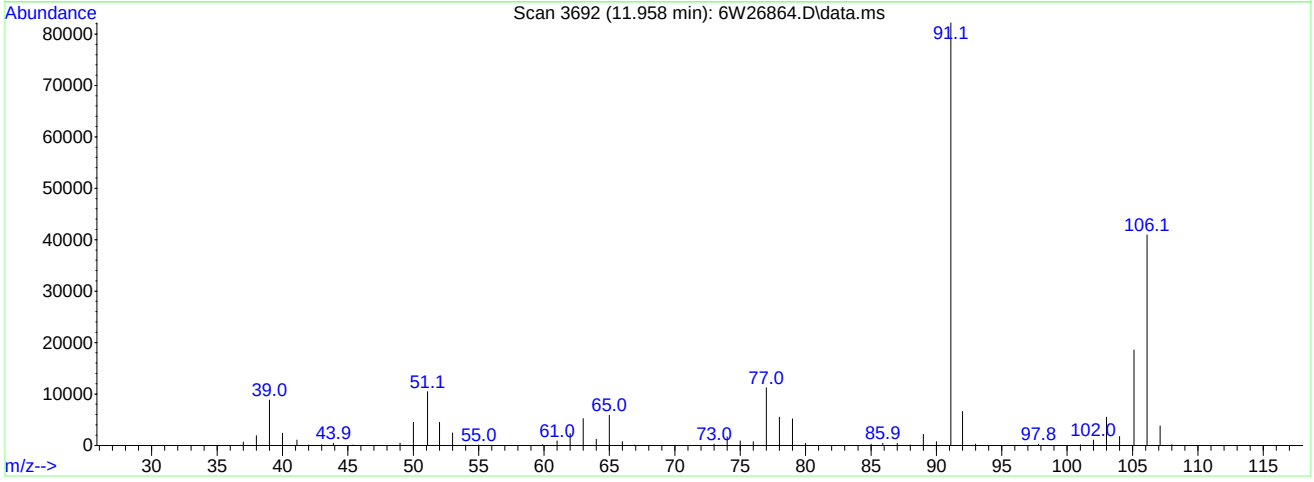
Ion	Exp%	Act%
65.10	100	100
45.10	22.90	100.46#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26864.D
Acq On : 4 Nov 2022 10:15 am
Operator : thomash
Sample : bs
Misc : MS63483,V6W1138,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 04 09:41:14 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration





TIC: 6W26864.D\data.ms

(80) M,P-XYLENE (t)

11.958min (-0.051) 10.55PPBV

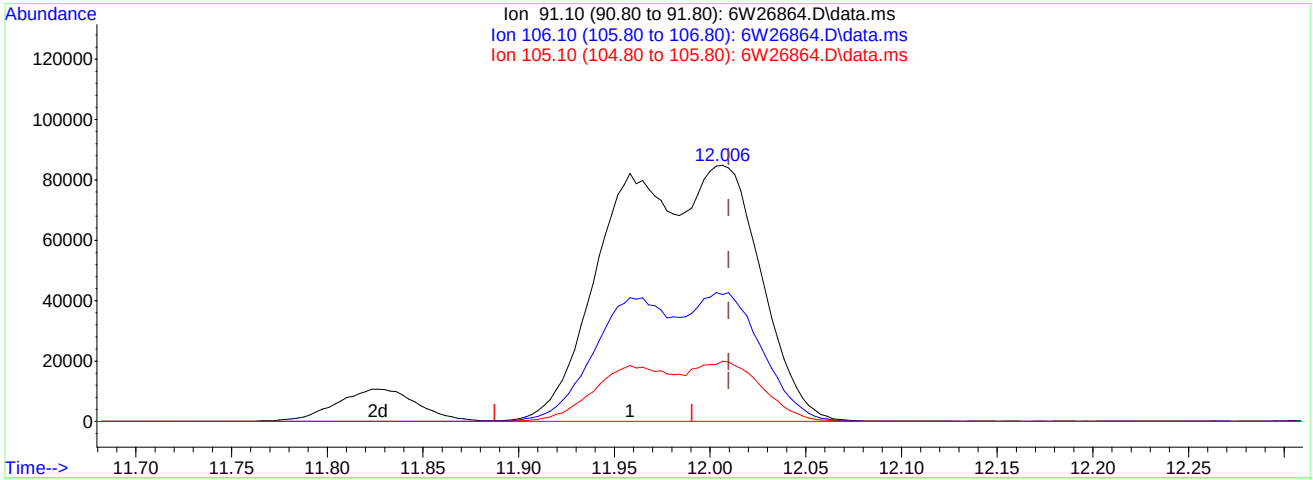
response 260225

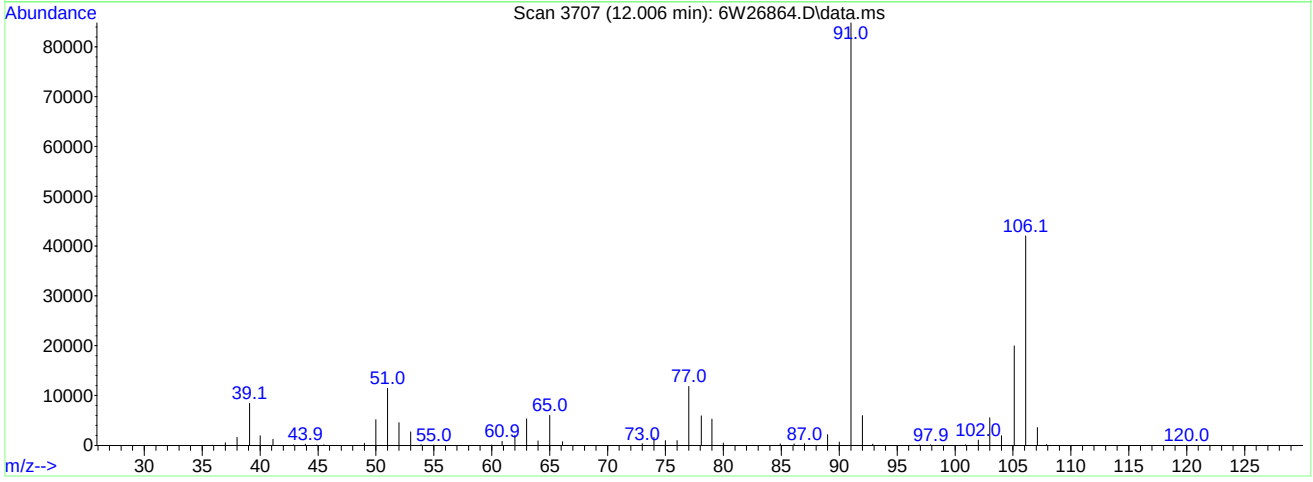
Ion	Exp%	Act%
91.10	100	100
106.10	51.50	45.27
105.10	23.60	20.22
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26864.D
Acq On : 4 Nov 2022 10:15 am
Operator : thomash
Sample : bs
Misc : MS63483,V6W1138,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 04 09:41:14 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration





TIC: 6W26864.D\data.ms

(80) M,P-XYLENE (t)

12.006min (-0.003) 18.47PPBV m

response 455635

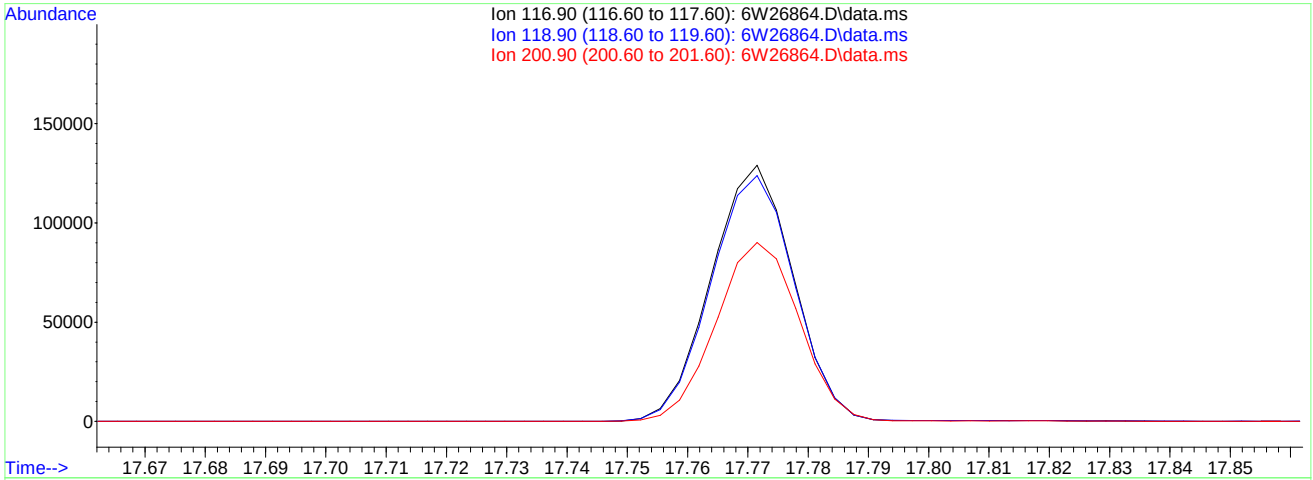
Ion	Exp%	Act%
91.10	100	100
106.10	51.50	25.85#
105.10	23.60	11.55
0.00	0.00	0.00

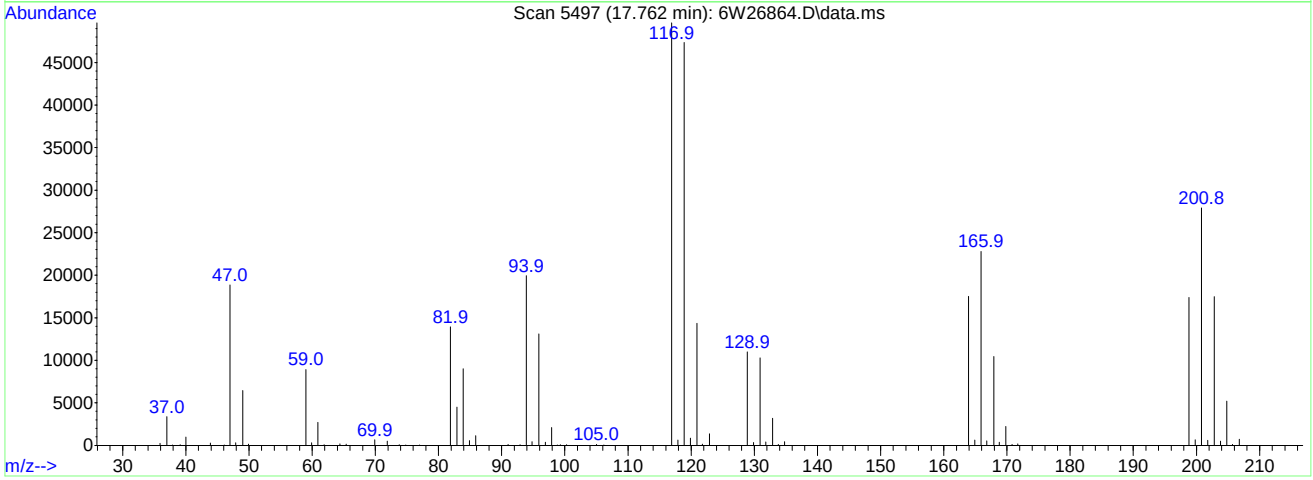
6W26864.D edits: M,P-XYLENE

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26864.D
Acq On : 4 Nov 2022 10:15 am
Operator : thomash
Sample : bs
Misc : MS63483,V6W1138,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 04 09:41:14 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration





TIC: 6W26864.D\data.ms

(105) HEXACHLOROETHANE (T)

17.762min (-17.762) 0.00PPBV

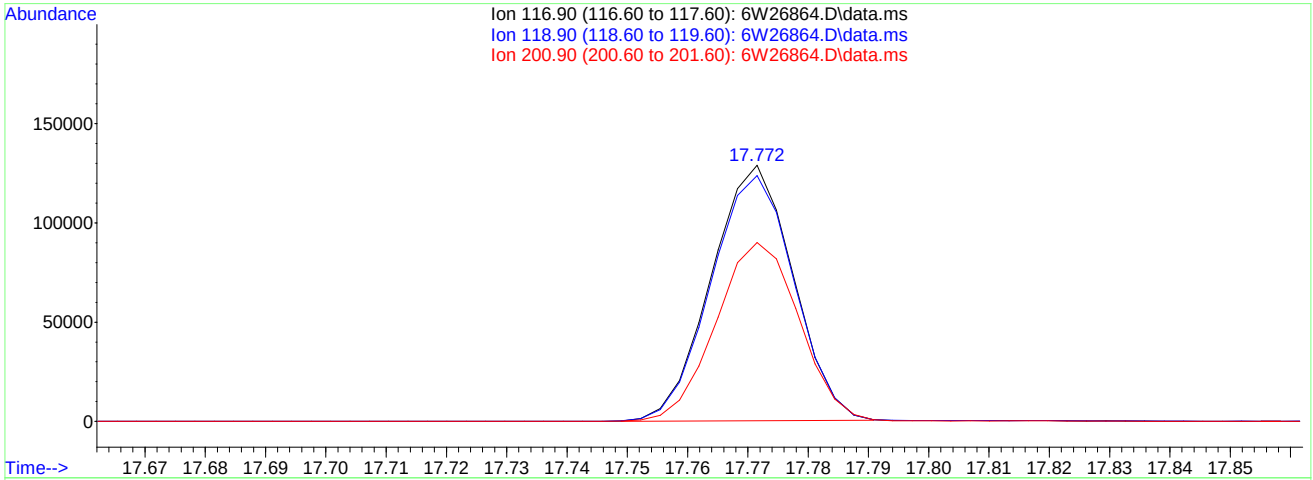
response 0

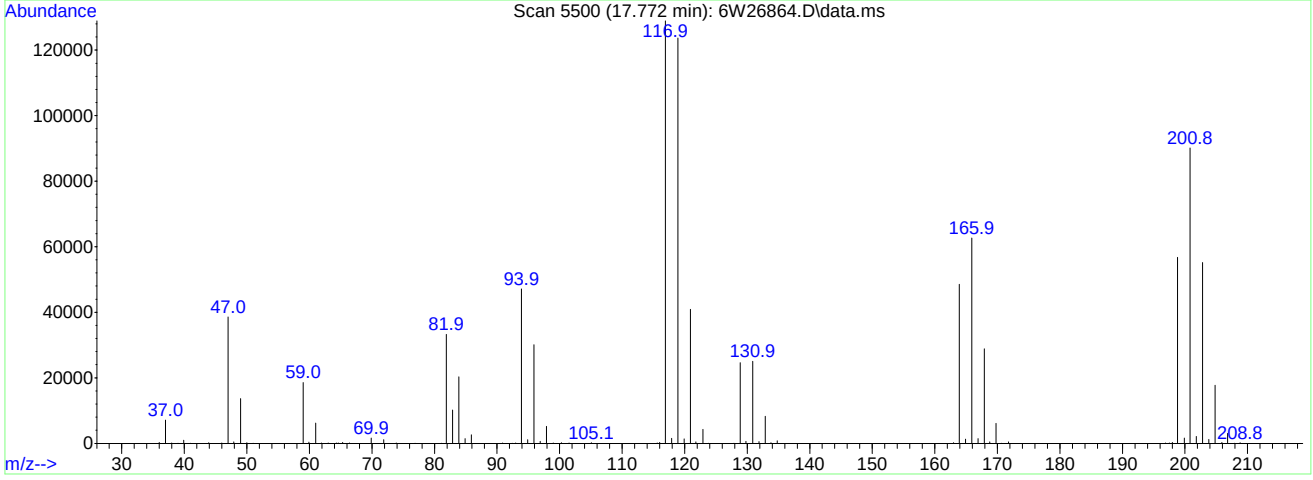
Ion	Exp%	Act%
116.90	100	0.00
118.90	95.50	0.00#
200.90	87.80	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26864.D
Acq On : 4 Nov 2022 10:15 am
Operator : thomash
Sample : bs
Misc : MS63483,V6W1138,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 04 09:41:14 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration





TIC: 6W26864.D\data.ms

(105) HEXACHLOROETHANE (T)

17.772min (+0.009) 9.94PPBV m

response 121545

Ion	Exp%	Act%
116.90	100	100
118.90	95.50	0.00#
200.90	87.80	0.00#
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 11/08/22 16:17

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26865.D
Acq On : 4 Nov 2022 10:47 am
Operator : thomash
Sample : bsd
Misc : MS63483,V6W1138,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 08 16:02:51 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.338	128	45663	10.00	PPBV	#	0.00
52) 1,4-DIFLUOROBENZENE	4.733	114	229639	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	10.585	117	189185	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	14.026	95	132495	10.03	PPBV		0.00
Target Compounds							Qvalue
3) FREON 152A	1.695	65	34599m	8.81	PPBV		
4) CHLORODIFLUOROMETHANE	1.708	67	15605	8.77	PPBV		96
5) CHLOROTRIFLUOROETHENE	1.718	116	79048	9.20	PPBV	#	100
6) DICHLORODIFLUOROMETHANE	1.730	85	183746	12.87	PPBV	#	94
7) PROPYLENE	1.714	41	49447	8.45	PPBV		96
8) 1-CHLORO-1,1-DIFLUOROE...	1.766	65	134143	10.26	PPBV	#	89
9) FREON 114	1.798	85	165058	10.99	PPBV		97
10) CHLOROMETHANE	1.772	52	21435	10.39	PPBV		93
11) VINYL CHLORIDE	1.830	62	69753	11.15	PPBV		97
12) 1,3-BUTADIENE	1.865	54	56947	11.13	PPBV	#	77
13) N-BUTANE	1.878	43	114659	9.94	PPBV	#	92
14) BROMOMETHANE	1.933	94	57779	11.94	PPBV		100
15) CHLOROETHANE	1.978	64	35918	11.99	PPBV		96
16) DICHLOROFLUOROMETHANE	2.004	67	144278	11.35	PPBV	#	96
17) ACETONITRILE	2.065	41	73634	10.97	PPBV		98
18) ACROLEIN	2.100	56	34390	12.38	PPBV		99
19) FREON 123	2.116	83	140872	11.68	PPBV		96
20) FREON 123A	2.132	117	83695	11.51	PPBV		87
21) TRICHLOROFLUOROMETHANE	2.190	101	160252	10.76	PPBV		99
22) ISOPROPYL ALCOHOL	2.206	45	148449	9.88	PPBV	#	95
23) ACETONE	2.139	58	37159	10.99	PPBV	#	47
24) PENTANE	2.296	42	83965	10.48	PPBV	#	93
25) IODOMETHANE	2.357	142	166558	11.60	PPBV		89
26) 1,1-DICHLOROETHYLENE	2.383	96	61633	10.89	PPBV	#	61
27) CARBON DISULFIDE	2.521	76	190365	10.62	PPBV	#	90
28) ETHANOL	2.007	45	35559	10.25	PPBV		96
29) BROMOETHENE	2.071	106	59626	11.76	PPBV	#	98
30) ACRYLONITRILE	2.271	52	56800	11.21	PPBV		97
31) METHYLENE CHLORIDE	2.422	84	56900	10.02	PPBV	#	51
32) 3-CHLOROPROPENE	2.463	76	29860	10.81	PPBV	#	1
33) FREON 113	2.518	151	103369	10.30	PPBV		87
34) TRANS-1,2-DICHLOROETHENE	2.769	96	66927	10.59	PPBV	#	80
35) TERTIARY BUTYL ALCOHOL	2.396	59	109220	8.89	PPBV	#	79
36) METHYL TERTIARY BUTYL ...	2.888	73	126960	8.07	PPBV	#	93
37) TETRAHYDROFURAN	3.656	72	32889	11.25	PPBV	#	45
38) HEXANE	3.393	57	125406	10.23	PPBV	#	76
39) VINYL ACETATE	2.930	86	16757	11.06	PPBV	#	1
40) 1,1-DICHLOROETHANE	2.853	63	125971	10.45	PPBV		98
41) METHYL ETHYL KETONE	3.039	72	33566	10.93	PPBV	#	1
42) CIS-1,2-DICHLOROETHENE	3.254	96	69188	10.43	PPBV	#	82
43) DIISOPROPYL ETHER	3.399	59	33396	9.48	PPBV	#	47
44) ETHYL ACETATE	3.409	61	26368	10.89	PPBV	#	45
45) METHYL ACRYLATE	3.389	55	164209	10.83	PPBV	#	97
46) CHLOROFORM	3.422	83	138128	10.15	PPBV	#	93
47) 2,4-DIMETHYLPENTANE	3.952	57	148321	10.71	PPBV	#	94
48) 1,1,1-TRICHLOROETHANE	4.045	97	123605	9.24	PPBV	#	90
49) CARBON TETRACHLORIDE	4.499	117	138654	9.67	PPBV		99
50) 1,2-DICHLOROETHANE	3.869	62	101425	9.79	PPBV	#	94
51) BENZENE	4.380	78	204786	10.06	PPBV		81
53) CYCLOHEXANE	4.605	84	87751	10.48	PPBV	#	72
54) 2,3-DIMETHYLPENTANE	4.875	71	47655	10.45	PPBV	#	58
55) TRICHLOROETHENE	5.348	95	88741	9.84	PPBV		99
56) 1,2-DICHLOROPROPANE	5.100	63	87235	10.54	PPBV		98
57) DIBROMOMETHANE	5.058	174	79849	9.39	PPBV		89

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26865.D
Acq On : 4 Nov 2022 10:47 am
Operator : thomash
Sample : bsd
Misc : MS63483,V6W1138,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 08 16:02:51 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration

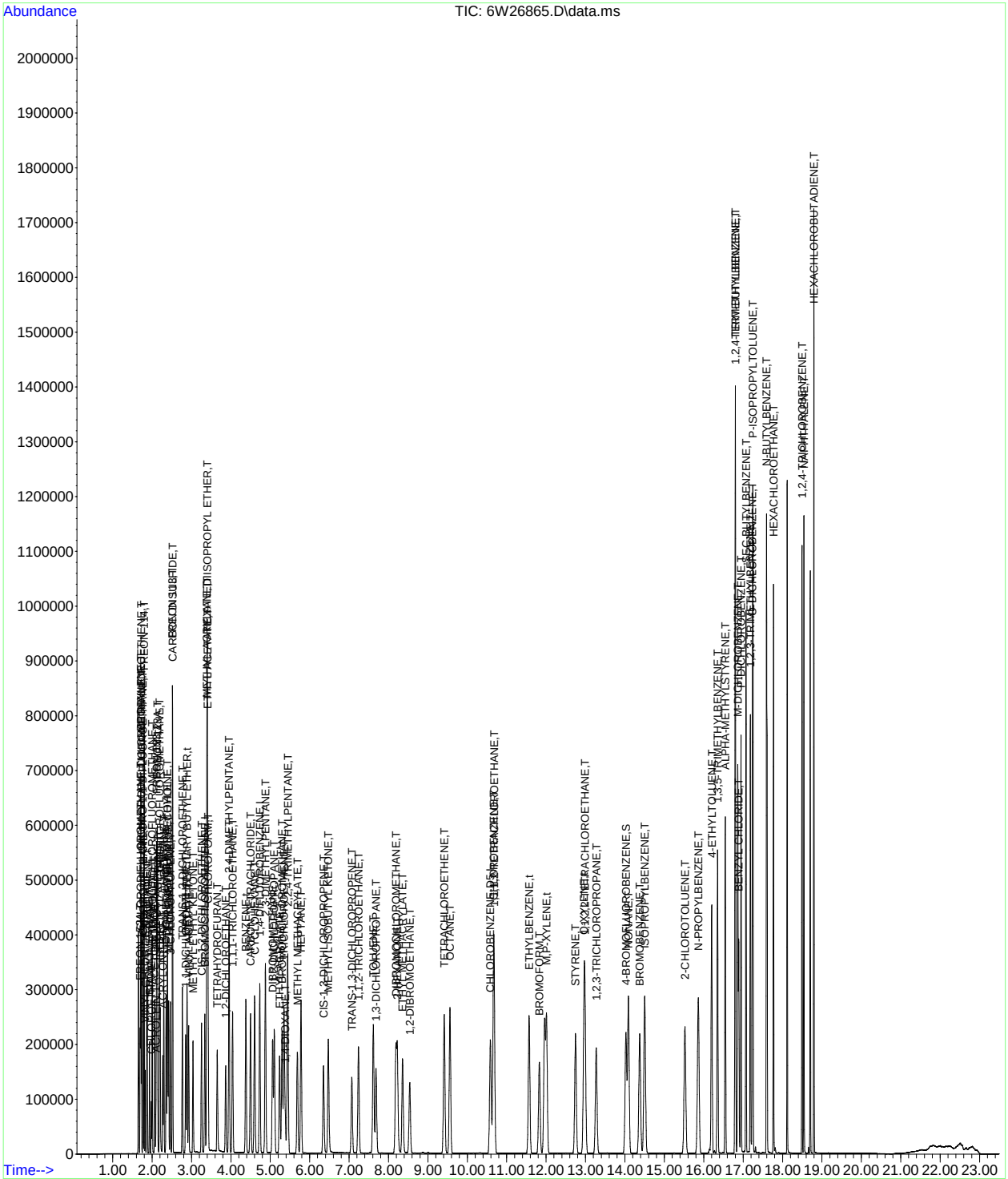
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
58) ETHYL ACRYLATE	5.235	55	201656	11.48	PPBV	#	97
59) BROMODICHLOROMETHANE	5.296	83	147127	9.69	PPBV		98
60) 2,2,4-TRIMETHYLPENTANE	5.444	57	349715	9.20	PPBV		98
61) 1,4-DIOXANE	5.380	88	46438	11.72	PPBV	#	79
62) HEPTANE	5.778	43	134005	8.76	PPBV	#	77
63) METHYL METHACRYLATE	5.688	69	73202	9.98	PPBV	#	59
64) METHYL ISOBUTYL KETONE	6.470	58	69028	11.12	PPBV	#	69
65) CIS-1,3-DICHLOROPROPENE	6.351	75	100342	9.15	PPBV	#	76
66) TOLUENE	7.614	91	224894	8.85	PPBV		99
67) 1,3-DICHLOROPROPANE	7.685	76	115796	9.45	PPBV	#	98
68) TRANS-1,3-DICHLOROPROPENE	7.071	75	88989	9.20	PPBV	#	78
69) 1,1,2-TRICHLOROETHANE	7.241	83	68878	9.49	PPBV		99
70) 2-HEXANONE	8.225	58	93381	12.92	PPBV	#	68
71) ETHYL METHACRYLATE	8.357	69	121199	11.21	PPBV	#	73
72) TETRACHLOROETHENE	9.415	164	86297	9.83	PPBV		93
73) DIBROMOCHLOROMETHANE	8.187	129	144591	9.23	PPBV		99
74) 1,2-DIBROMOETHANE	8.540	107	127459	9.59	PPBV		99
75) OCTANE	9.560	43	184278	9.10	PPBV	#	78
77) 1,1,1,2-TETRACHLOROETHANE	10.682	131	98765	9.73	PPBV		95
78) CHLOROBENZENE	10.666	112	188237	10.30	PPBV		99
79) ETHYLBENZENE	11.569	91	300147	9.21	PPBV		99
80) M,P-XYLENE	12.006	91	464954m	19.12	PPBV		
81) O-XYLENE	12.961	91	236572	9.72	PPBV		97
82) STYRENE	12.743	104	182308	11.20	PPBV		98
83) NONANE	14.087	43	196085	9.36	PPBV	#	77
84) BROMOFORM	11.826	173	130890	9.86	PPBV	#	98
85) 1,1,2,2-TETRACHLOROETHANE	12.987	83	183619	10.62	PPBV		98
86) 1,2,3-TRICHLOROPROPANE	13.273	75	138987	10.27	PPBV		98
88) ISOPROPYLBENZENE	14.502	105	344335	10.26	PPBV	#	94
89) BROMOBENZENE	14.376	77	170921	10.55	PPBV		95
90) 2-CHLOROTOLUENE	15.524	91	240444	10.97	PPBV		99
91) N-PROPYLBENZENE	15.862	91	417082	11.28	PPBV	#	96
92) 4-ETHYLTOLUENE	16.206	105	348392	11.65	PPBV		99
93) 1,3,5-TRIMETHYLBENZENE	16.350	105	291607	11.53	PPBV		99
94) ALPHA-METHYLSTYRENE	16.546	118	155906	12.30	PPBV		98
95) TERT-BUTYLBENZENE	16.801	119	324306	11.42	PPBV		98
96) 1,2,4-TRIMETHYLBENZENE	16.804	105	303702	11.62	PPBV		96
97) BENZYL CHLORIDE	16.887	91	182741	11.54	PPBV		98
98) M-DICHLOROBENZENE	16.865	146	204686	11.26	PPBV		99
99) P-DICHLOROBENZENE	16.945	146	206250	11.37	PPBV		99
100) O-DICHLOROBENZENE	17.235	146	201091	11.31	PPBV		99
101) SEC-BUTYLBENZENE	17.074	105	446410	11.53	PPBV		99
102) 1,2,3-TRIMETHYLBENZENE	17.183	105	298666	11.67	PPBV		99
103) P-ISOPROPYLTOLUENE	17.247	119	387690	11.68	PPBV		97
104) N-BUTYLBENZENE	17.591	91	367752	12.47	PPBV		98
105) HEXACHLOROETHANE	17.772	117	124523	10.33	PPBV		90
106) HEXACHLOROBUTADIENE	18.794	225	148276	11.26	PPBV		100
107) 1,2,4-TRICHLOROBENZENE	18.495	180	182375	12.35	PPBV		99
108) NAPHTHALENE	18.543	128	492042	13.51	PPBV		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26865.D
Acq On : 4 Nov 2022 10:47 am
Operator : thomash
Sample : bsd
Misc : MS63483,V6W1138,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 08 16:02:51 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration



Manual Integration Approval Summary

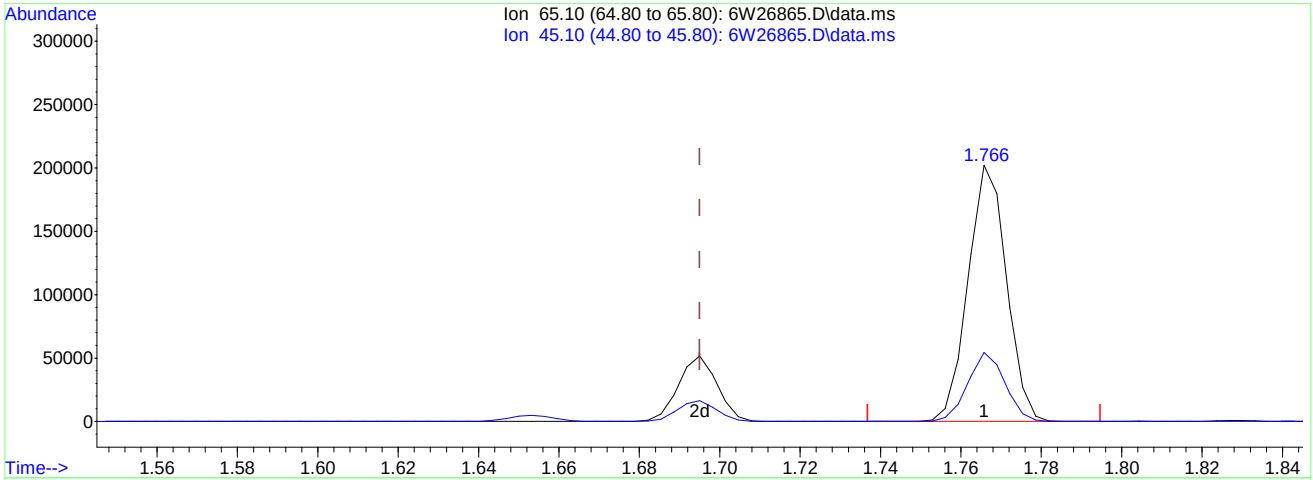
Sample Number:	V6W1138-BSD	**Method:**	TO-15
Lab FileID:	6W26865.D	**Analyst approved:**	11/08/22 16:03 William Cruser
Injection Time:	11/04/22 10:47	**Supervisor approved:**	11/08/22 16:17 Kanya Veerawat

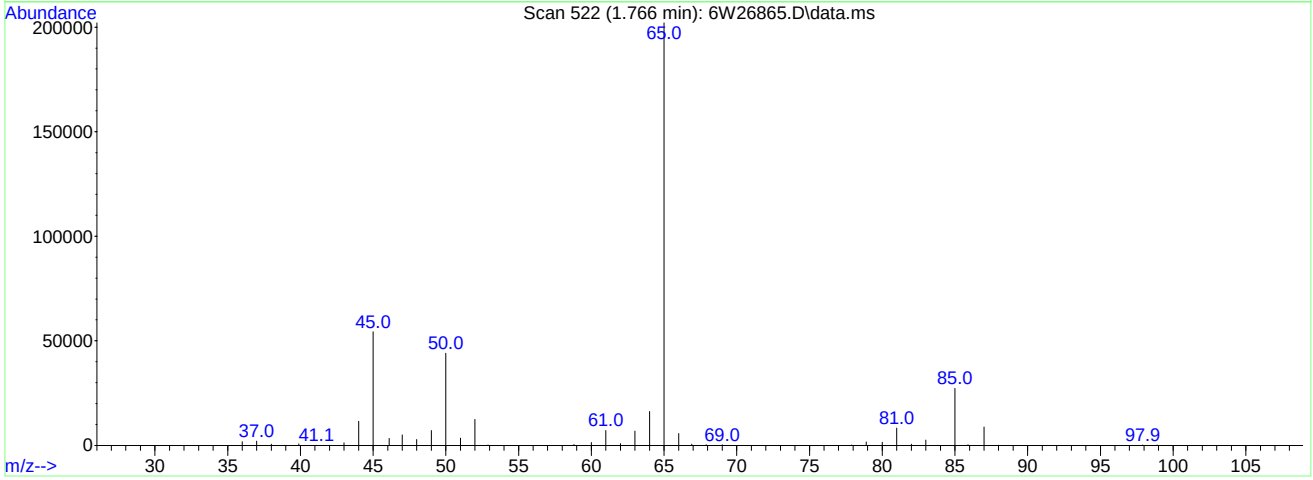
Parameter	CAS	Sig#	R.T. (min.)	Reason
Freon 152A	75-37-6		1.69	Missed peak
m,p-Xylene			12.01	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26865.D
Acq On : 4 Nov 2022 10:47 am
Operator : thomash
Sample : bsd
Misc : MS63483,V6W1138,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 06 15:43:50 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration





TIC: 6W26865.D\data.ms

(3) FREON 152A (T)

1.766min (+0.071) 34.17PPBV

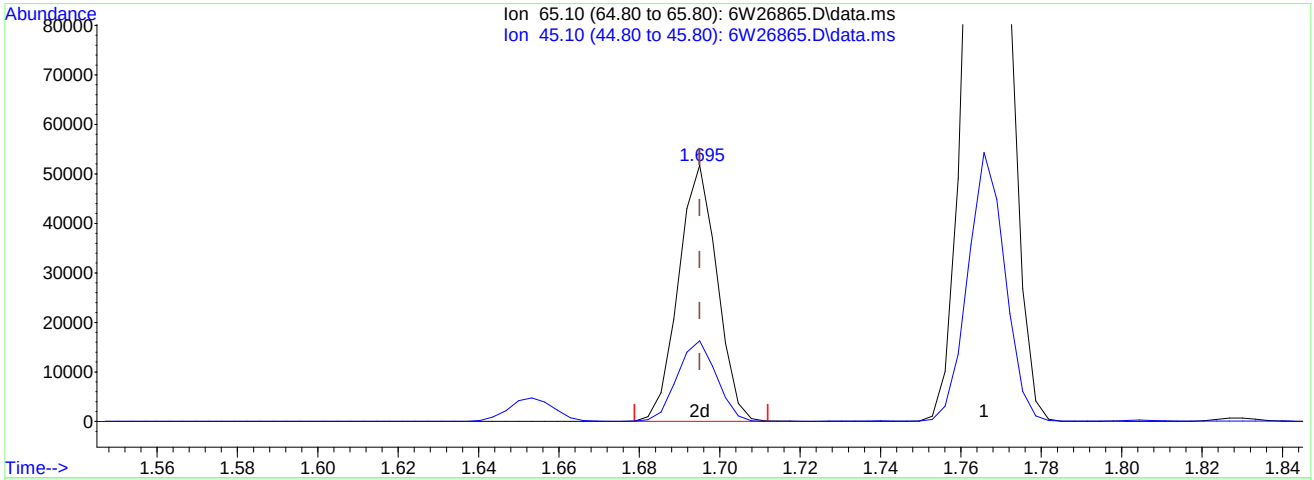
response 134143

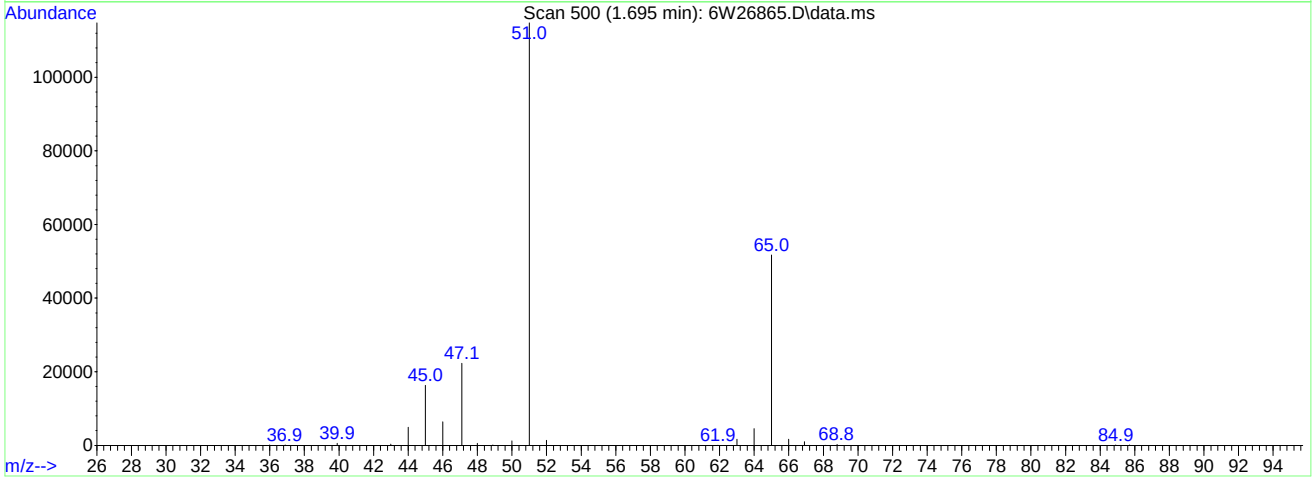
Ion	Exp%	Act%
65.10	100	100
45.10	22.90	26.16
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26865.D
Acq On : 4 Nov 2022 10:47 am
Operator : thomash
Sample : bsd
Misc : MS63483,V6W1138,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 06 15:43:50 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration





TIC: 6W26865.D\data.ms

(3) FREON 152A (T)

1.695min (-0.000) 8.81PPBV m

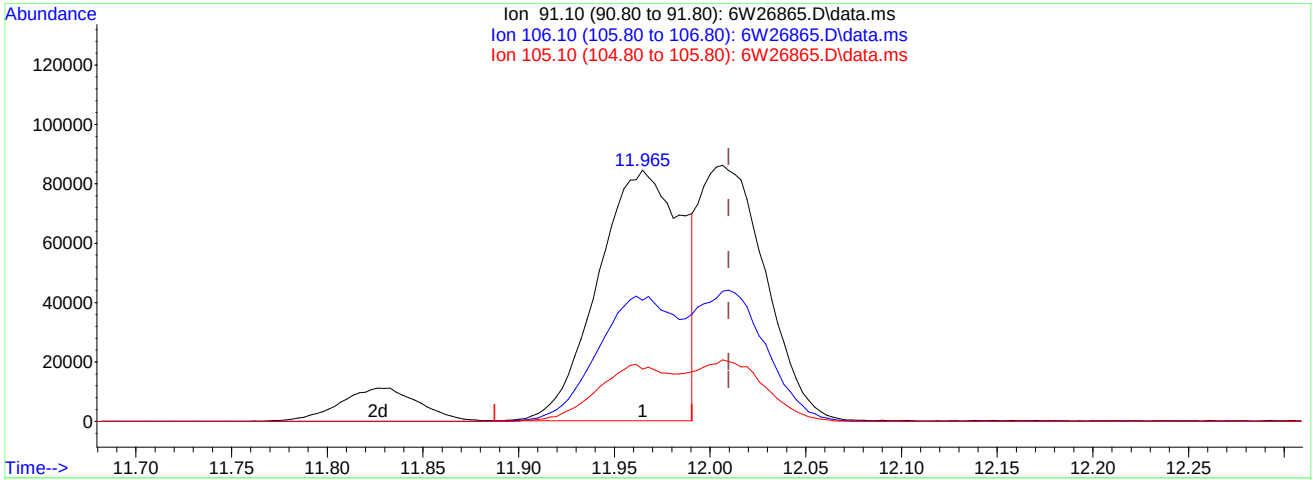
response 34599

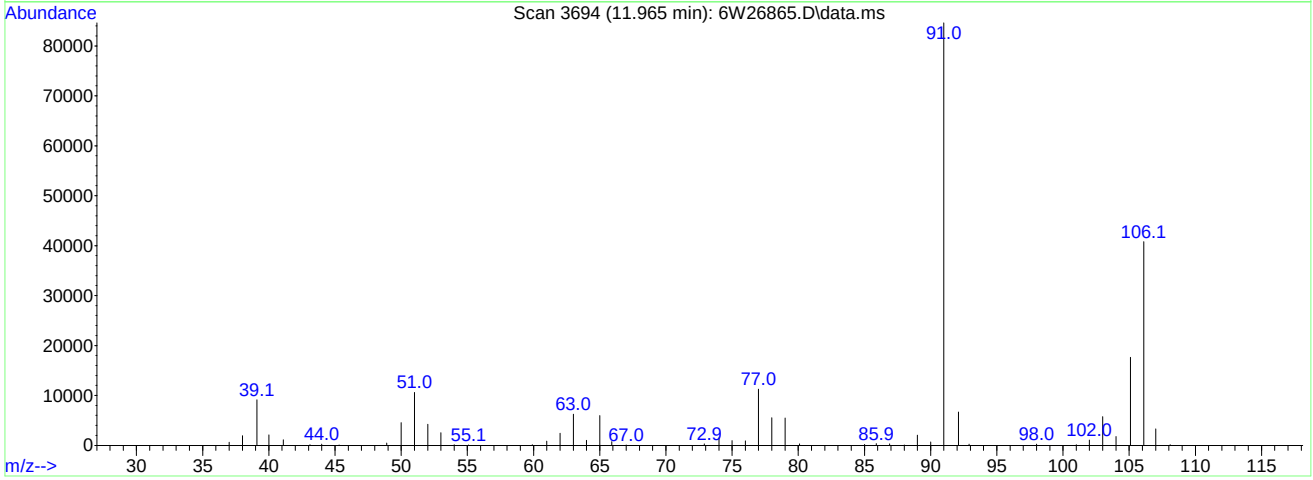
Ion	Exp%	Act%
65.10	100	100
45.10	22.90	101.44#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26865.D
Acq On : 4 Nov 2022 10:47 am
Operator : thomash
Sample : bsd
Misc : MS63483,V6W1138,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 06 15:43:50 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration





TIC: 6W26865.D\data.ms

(80) M,P-XYLENE (t)

11.965min (-0.045) 10.56PPBV

response 256873

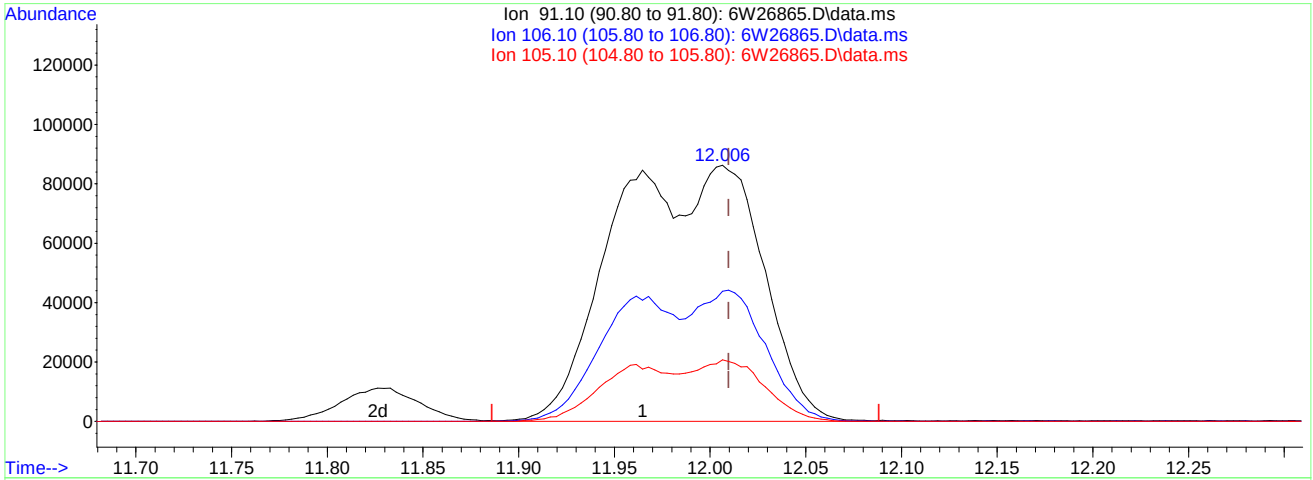
Ion	Exp%	Act%
91.10	100	100
106.10	51.50	45.11
105.10	23.60	20.20
0.00	0.00	0.00

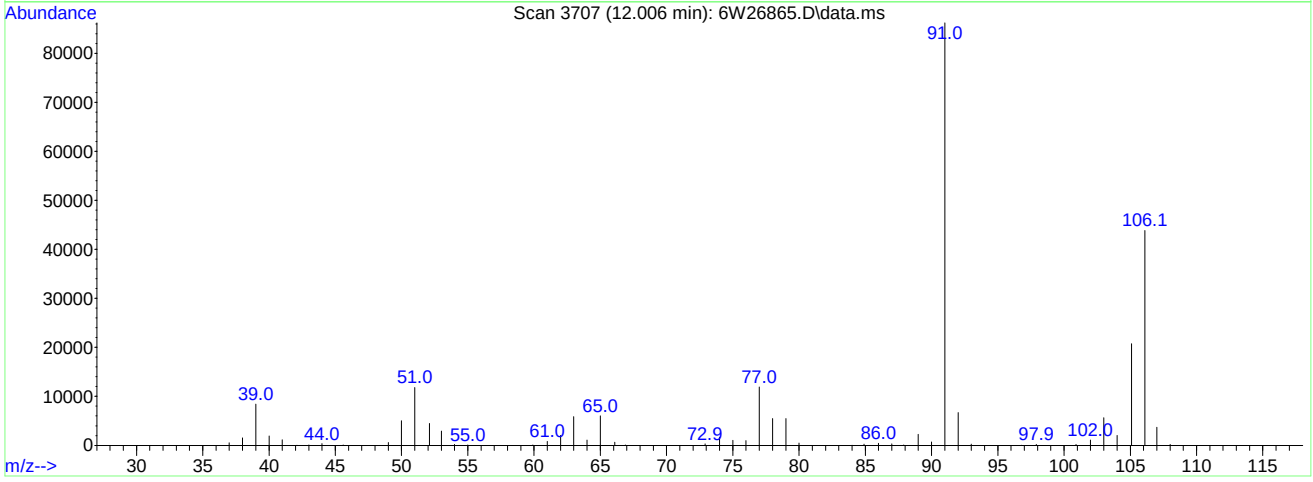
6W26865.D edits: M,P-XYLENE

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26865.D
Acq On : 4 Nov 2022 10:47 am
Operator : thomash
Sample : bsd
Misc : MS63483,V6W1138,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 06 15:43:50 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration





TIC: 6W26865.D\data.ms

(80) M,P-XYLENE (t)

12.006min (-0.003) 19.12PPBV m

response 464954

Ion	Exp%	Act%
91.10	100	100
106.10	51.50	24.92#
105.10	23.60	11.16
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W25440.D
Acq On : 11 Aug 2022 9:21 am
Operator : thomash
Sample : bs
Misc : MS61233,V6W1083,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 11 14:25:28 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 05 08:58:59 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.415	128	60504	10.00	PPBV	#	0.00
52) 1,4-DIFLUOROBENZENE	4.791	114	307857	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	10.608	117	263070	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	14.032	95	177911	9.64	PPBV		0.00
Target Compounds							Qvalue
3) FREON 152A	1.721	65	46907	8.65	PPBV	#	87
4) CHLORODIFLUOROMETHANE	1.734	67	20993	8.61	PPBV		97
5) CHLOROTRIFLUOROETHENE	1.743	116	115483	9.78	PPBV	#	99
6) DICHLORODIFLUOROMETHANE	1.759	85	336746	11.61	PPBV	#	94
7) PROPYLENE	1.740	41	57712	7.17	PPBV		98
8) 1-CHLORO-1,1-DIFLUOROE...	1.795	65	267716	8.65	PPBV	#	89
9) FREON 114	1.830	85	306562	9.71	PPBV		98
10) CHLOROMETHANE	1.801	52	34517	9.27	PPBV		94
11) VINYL CHLORIDE	1.862	62	116717	8.59	PPBV		99
12) 1,3-BUTADIENE	1.898	54	92779	9.22	PPBV	#	80
13) N-BUTANE	1.914	43	174975	7.85	PPBV	#	93
14) BROMOMETHANE	1.972	94	103585	9.50	PPBV		100
15) CHLOROETHANE	2.020	64	60098	8.24	PPBV		99
16) DICHLOROFLUOROMETHANE	2.045	67	253220	9.02	PPBV	#	97
17) ACETONITRILE	2.113	41	104623	8.02	PPBV		96
18) ACROLEIN	2.148	56	42258	9.91	PPBV		97
19) FREON 123	2.164	83	257514	9.53	PPBV		98
20) FREON 123A	2.180	117	145328	9.71	PPBV		86
21) TRICHLOROFLUOROMETHANE	2.245	101	295310	9.44	PPBV		100
22) ISOPROPYL ALCOHOL	2.261	45	237844	8.35	PPBV	#	96
23) ACETONE	2.190	58	68319	8.69	PPBV		73
24) PENTANE	2.357	42	118792	8.13	PPBV		94
25) IODOMETHANE	2.418	142	298891	10.48	PPBV		89
26) 1,1-DICHLOROETHYLENE	2.447	96	108210	9.51	PPBV	#	68
27) CARBON DISULFIDE	2.592	76	339973	9.58	PPBV	#	89
28) ETHANOL	2.049	45	54437	8.51	PPBV	#	97
29) BROMOETHENE	2.119	106	105060	9.91	PPBV	#	98
30) ACRYLONITRILE	2.328	52	85297	8.62	PPBV		96
31) METHYLENE CHLORIDE	2.486	84	101698	9.46	PPBV	#	69
32) 3-CHLOROPROPENE	2.531	76	56289	9.01	PPBV	#	35
33) FREON 113	2.592	151	198256	10.62	PPBV		96
34) TRANS-1,2-DICHLOROETHENE	2.846	96	121199	9.46	PPBV		88
35) TERTIARY BUTYL ALCOHOL	2.460	59	253119	7.97	PPBV	#	82
36) METHYL TERTIARY BUTYL ...	2.968	73	328618	8.80	PPBV	#	94
37) TETRAHYDROFURAN	3.724	72	40716	9.32	PPBV		84
38) HEXANE	3.467	57	136792	7.83	PPBV	#	85
39) VINYL ACETATE	3.007	86	32737	10.45	PPBV	#	22
40) 1,1-DICHLOROETHANE	2.933	63	223882	9.18	PPBV		99
41) METHYL ETHYL KETONE	3.116	72	64647	10.50	PPBV	#	43
42) CIS-1,2-DICHLOROETHENE	3.328	96	89549	8.79	PPBV		93
43) DIISOPROPYL ETHER	3.473	59	41838	8.35	PPBV		84
44) ETHYL ACETATE	3.479	61	28846	8.55	PPBV		66
45) METHYL ACRYLATE	3.463	55	173565	8.11	PPBV	#	98
46) CHLOROFORM	3.492	83	190589	8.92	PPBV	#	97
47) 2,4-DIMETHYLPENTANE	4.023	57	157126	7.89	PPBV		96
48) 1,1,1-TRICHLOROETHANE	4.110	97	179788	8.68	PPBV		97
49) CARBON TETRACHLORIDE	4.563	117	191234	9.17	PPBV		100
50) 1,2-DICHLOROETHANE	3.936	62	120076	7.81	PPBV	#	97
51) BENZENE	4.444	78	262417	8.47	PPBV		91
53) CYCLOHEXANE	4.663	84	113605	8.96	PPBV		95
54) 2,3-DIMETHYLPENTANE	4.936	71	57639	8.91	PPBV		80
55) TRICHLOROETHENE	5.405	95	120443	9.19	PPBV		95
56) 1,2-DICHLOROPROPANE	5.158	63	102499	9.08	PPBV		94
57) DIBROMOMETHANE	5.113	174	128078	10.14	PPBV		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W25440.D
Acq On : 11 Aug 2022 9:21 am
Operator : thomash
Sample : bs
Misc : MS61233,V6W1083,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 11 14:25:28 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 05 08:58:59 2022
Response via : Initial Calibration

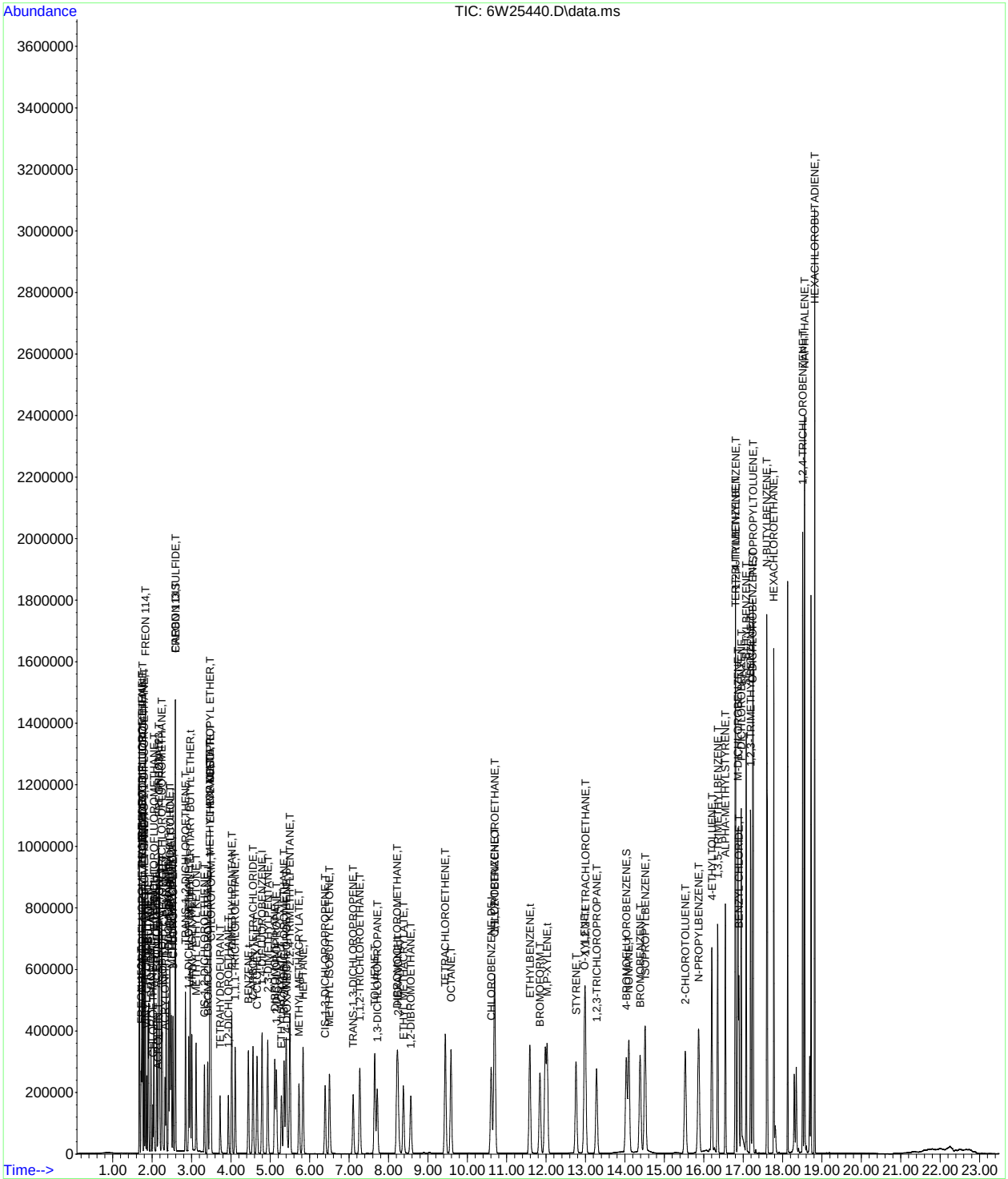
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
58) ETHYL ACRYLATE	5.280	55	209842	8.72	PPBV		99
59) BROMODICHLOROMETHANE	5.348	83	203544	9.38	PPBV		99
60) 2,2,4-TRIMETHYLPENTANE	5.495	57	431459	8.20	PPBV		99
61) 1,4-DIOXANE	5.422	88	65989	10.83	PPBV	#	97
62) HEPTANE	5.833	43	145107	7.28	PPBV		90
63) METHYL METHACRYLATE	5.727	69	98867	9.37	PPBV	#	81
64) METHYL ISOBUTYL KETONE	6.499	58	86562	9.34	PPBV		82
65) CIS-1,3-DICHLOROPROPENE	6.393	75	149306	8.83	PPBV	#	84
66) TOLUENE	7.650	91	320796	8.80	PPBV		99
67) 1,3-DICHLOROPROPANE	7.714	76	165952	8.95	PPBV	#	99
68) TRANS-1,3-DICHLOROPROPENE	7.100	75	133354	8.36	PPBV	#	85
69) 1,1,2-TRICHLOROETHANE	7.270	83	98790	9.09	PPBV		98
70) 2-HEXANONE	8.241	58	107579	10.61	PPBV	#	78
71) ETHYL METHACRYLATE	8.380	69	160892	10.04	PPBV	#	85
72) TETRACHLOROETHENE	9.441	164	136633	10.27	PPBV		99
73) DIBROMOCHLOROMETHANE	8.216	129	209802	10.18	PPBV		99
74) 1,2-DIBROMOETHANE	8.566	107	182566	9.32	PPBV		100
75) OCTANE	9.585	43	208831	7.56	PPBV	#	87
77) 1,1,1,2-TETRACHLOROETHANE	10.698	131	149750	10.41	PPBV		99
78) CHLOROBENZENE	10.685	112	271236	9.55	PPBV		100
79) ETHYLBENZENE	11.588	91	429503	9.15	PPBV		100
80) M,P-XYLENE	12.026	91	660019	18.59	PPBV	#	67
81) O-XYLENE	12.971	91	336321	9.17	PPBV		96
82) STYRENE	12.762	104	258927	10.03	PPBV		97
83) NONANE	14.100	43	226113	8.21	PPBV	#	85
84) BROMOFORM	11.839	173	209020	11.48	PPBV	#	98
85) 1,1,2,2-TETRACHLOROETHANE	12.997	83	269670	9.53	PPBV		99
86) 1,2,3-TRICHLOROPROPANE	13.283	75	197606	9.34	PPBV	#	100
88) ISOPROPYLBENZENE	14.514	120	136161	9.76	PPBV		92
89) BROMOBENZENE	14.386	77	242968	9.02	PPBV		96
90) 2-CHLOROTOLUENE	15.534	126	123899	10.13	PPBV		98
91) N-PROPYLBENZENE	15.868	120	141665	10.10	PPBV	#	89
92) 4-ETHYLTOLUENE	16.209	105	504385	9.91	PPBV	#	99
93) 1,3,5-TRIMETHYLBENZENE	16.357	105	414683	9.73	PPBV		99
94) ALPHA-METHYLSTYRENE	16.550	118	208790	10.52	PPBV		98
95) TERT-BUTYLBENZENE	16.801	134	109588	9.91	PPBV		90
96) 1,2,4-TRIMETHYLBENZENE	16.810	105	440492	9.79	PPBV		94
97) BENZYL CHLORIDE	16.894	91	289739	8.10	PPBV		98
98) M-DICHLOROBENZENE	16.868	146	314410	10.21	PPBV		99
99) P-DICHLOROBENZENE	16.952	146	323694	10.38	PPBV		99
100) O-DICHLOROBENZENE	17.241	146	308708	10.38	PPBV		99
101) SEC-BUTYLBENZENE	17.077	134	137894	10.32	PPBV		88
102) 1,2,3-TRIMETHYLBENZENE	17.190	105	427241	9.72	PPBV		99
103) P-ISOPROPYLTOLUENE	17.254	134	154810	10.23	PPBV		92
104) N-BUTYLBENZENE	17.601	134	147987	10.38	PPBV		96
105) HEXACHLOROETHANE	17.778	117	172946	9.86	PPBV		93
106) HEXACHLOROBUTADIENE	18.817	225	267390	10.24	PPBV		100
107) 1,2,4-TRICHLOROBENZENE	18.511	180	345167	11.30	PPBV		98
108) NAPHTHALENE	18.559	128	805735	10.61	PPBV		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W25440.D
Acq On : 11 Aug 2022 9:21 am
Operator : thomash
Sample : bs
Misc : MS61233,V6W1083,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 11 14:25:28 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 05 08:58:59 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W25441.D
Acq On : 11 Aug 2022 10:25 am
Operator : thomash
Sample : bsd
Misc : MS61233,V6W1083,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 11 14:25:52 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 05 08:58:59 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.412	128	60081	10.00	PPBV	#	0.00
52) 1,4-DIFLUOROBENZENE	4.791	114	304482	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	10.608	117	262246	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	14.032	95	175945	9.56	PPBV		0.00
Target Compounds							Qvalue
3) FREON 152A	1.721	65	46192	8.57	PPBV	#	90
4) CHLORODIFLUOROMETHANE	1.730	67	20517	8.47	PPBV		99
5) CHLOROTRIFLUOROETHENE	1.743	116	116973	9.97	PPBV	#	99
6) DICHLORODIFLUOROMETHANE	1.827	85	280822	9.75	PPBV		99
7) PROPYLENE	1.740	41	57527	7.20	PPBV		97
8) 1-CHLORO-1,1-DIFLUOROE...	1.795	65	268565	8.74	PPBV	#	89
9) FREON 114	1.830	85	307886	9.82	PPBV		98
10) CHLOROMETHANE	1.801	52	34285	9.27	PPBV		95
11) VINYL CHLORIDE	1.859	62	119082	8.82	PPBV		97
12) 1,3-BUTADIENE	1.898	54	93178	9.33	PPBV	#	80
13) N-BUTANE	1.914	43	173662	7.84	PPBV		95
14) BROMOMETHANE	1.972	94	103761	9.58	PPBV		100
15) CHLOROETHANE	2.020	64	59639	8.24	PPBV		98
16) DICHLOROFLUOROMETHANE	2.042	67	254188	9.12	PPBV	#	96
17) ACETONITRILE	2.113	41	103279	7.97	PPBV		95
18) ACROLEIN	2.148	56	42895	10.13	PPBV		99
19) FREON 123	2.164	83	255893	9.54	PPBV		98
20) FREON 123A	2.180	117	145444	9.78	PPBV		87
21) TRICHLOROFLUOROMETHANE	2.242	101	292894	9.42	PPBV		100
22) ISOPROPYL ALCOHOL	2.261	45	236623	8.37	PPBV		96
23) ACETONE	2.187	58	68682	8.80	PPBV		73
24) PENTANE	2.357	42	117971	8.13	PPBV		94
25) IODOMETHANE	2.418	142	299861	10.59	PPBV		90
26) 1,1-DICHLOROETHYLENE	2.447	96	106346	9.41	PPBV	#	66
27) CARBON DISULFIDE	2.592	76	337434	9.57	PPBV	#	88
28) ETHANOL	2.049	45	53758	8.46	PPBV	#	96
29) BROMOETHENE	2.119	106	104695	9.95	PPBV	#	97
30) ACRYLONITRILE	2.328	52	85243	8.68	PPBV		95
31) METHYLENE CHLORIDE	2.486	84	100933	9.46	PPBV	#	68
32) 3-CHLOROPROPENE	2.531	76	56532	9.11	PPBV	#	37
33) FREON 113	2.589	151	196025	10.58	PPBV		95
34) TRANS-1,2-DICHLOROETHENE	2.846	96	121262	9.54	PPBV		87
35) TERTIARY BUTYL ALCOHOL	2.460	59	252631	8.01	PPBV	#	82
36) METHYL TERTIARY BUTYL ...	2.965	73	329015	8.87	PPBV	#	95
37) TETRAHYDROFURAN	3.724	72	40458	9.32	PPBV		83
38) HEXANE	3.463	57	135055	7.78	PPBV	#	84
39) VINYL ACETATE	3.010	86	32834	10.55	PPBV	#	26
40) 1,1-DICHLOROETHANE	2.930	63	223894	9.24	PPBV		99
41) METHYL ETHYL KETONE	3.116	72	63717	10.43	PPBV	#	42
42) CIS-1,2-DICHLOROETHENE	3.328	96	100966	9.98	PPBV		90
43) DIISOPROPYL ETHER	3.470	59	40878	8.22	PPBV		80
44) ETHYL ACETATE	3.479	61	29097	8.69	PPBV		67
45) METHYL ACRYLATE	3.463	55	174209	8.19	PPBV	#	97
46) CHLOROFORM	3.492	83	191480	9.03	PPBV	#	96
47) 2,4-DIMETHYLPENTANE	4.023	57	157075	7.94	PPBV		98
48) 1,1,1-TRICHLOROETHANE	4.110	97	181150	8.81	PPBV		98
49) CARBON TETRACHLORIDE	4.560	117	191274	9.24	PPBV		99
50) 1,2-DICHLOROETHANE	3.936	62	120177	7.87	PPBV	#	97
51) BENZENE	4.444	78	263262	8.55	PPBV		92
53) CYCLOHEXANE	4.663	84	115355	9.20	PPBV		95
54) 2,3-DIMETHYLPENTANE	4.939	71	57688	9.02	PPBV		81
55) TRICHLOROETHENE	5.402	95	121713	9.39	PPBV		97
56) 1,2-DICHLOROPROPANE	5.155	63	101485	9.09	PPBV		95
57) DIBROMOMETHANE	5.113	174	127331	10.19	PPBV		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W25441.D
Acq On : 11 Aug 2022 10:25 am
Operator : thomash
Sample : bsd
Misc : MS61233,V6W1083,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 11 14:25:52 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 05 08:58:59 2022
Response via : Initial Calibration

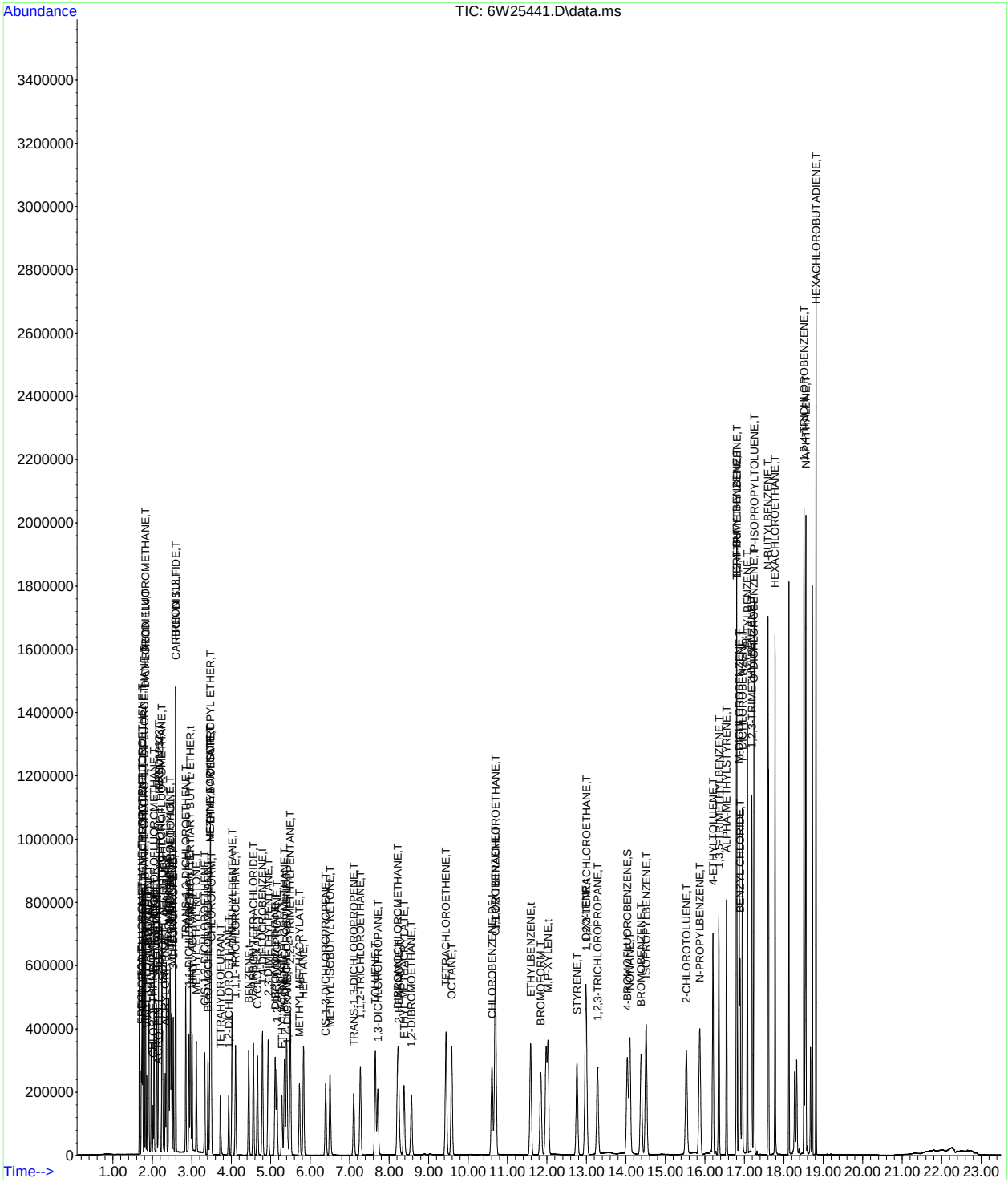
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
58)	ETHYL ACRYLATE	5.283	55	208826	8.77	PPBV		98
59)	BROMODICHLOROMETHANE	5.348	83	205045	9.55	PPBV		100
60)	2,2,4-TRIMETHYLPENTANE	5.495	57	432910	8.32	PPBV		99
61)	1,4-DIOXANE	5.422	88	66459	11.03	PPBV	#	96
62)	HEPTANE	5.830	43	145597	7.38	PPBV		90
63)	METHYL METHACRYLATE	5.730	69	99377	9.52	PPBV	#	82
64)	METHYL ISOBUTYL KETONE	6.505	58	87306	9.52	PPBV		82
65)	CIS-1,3-DICHLOROPROPENE	6.393	75	151461	9.06	PPBV	#	84
66)	TOLUENE	7.650	91	321226	8.91	PPBV		100
67)	1,3-DICHLOROPROPANE	7.714	76	167554	9.14	PPBV		98
68)	TRANS-1,3-DICHLOROPROPENE	7.103	75	134843	8.55	PPBV	#	85
69)	1,1,2-TRICHLOROETHANE	7.270	83	99467	9.26	PPBV		99
70)	2-HEXANONE	8.245	58	108742	10.84	PPBV	#	79
71)	ETHYL METHACRYLATE	8.376	69	161377	10.18	PPBV	#	85
72)	TETRACHLOROETHENE	9.441	164	137052	10.42	PPBV		98
73)	DIBROMOCHLOROMETHANE	8.216	129	208777	10.24	PPBV		99
74)	1,2-DIBROMOETHANE	8.566	107	181681	9.38	PPBV		99
75)	OCTANE	9.585	43	209145	7.66	PPBV	#	87
77)	1,1,1,2-TETRACHLOROETHANE	10.698	131	148010	10.33	PPBV		99
78)	CHLOROBENZENE	10.685	112	271769	9.60	PPBV		99
79)	ETHYLBENZENE	11.588	91	427512	9.14	PPBV		99
80)	M,P-XYLENE	12.026	91	659008	18.62	PPBV	#	66
81)	O-XYLENE	12.981	91	334338	9.14	PPBV		98
82)	STYRENE	12.759	104	255634	9.93	PPBV		98
83)	NONANE	14.096	43	227185	8.27	PPBV	#	85
84)	BROMOFORM	11.842	173	208120	11.47	PPBV		99
85)	1,1,2,2-TETRACHLOROETHANE	12.997	83	270709	9.60	PPBV		100
86)	1,2,3-TRICHLOROPROPANE	13.280	75	199050	9.44	PPBV	#	100
88)	ISOPROPYLBENZENE	14.514	120	135753	9.76	PPBV		91
89)	BROMOBENZENE	14.383	77	243687	9.08	PPBV		96
90)	2-CHLOROTOLUENE	15.534	126	123955	10.16	PPBV		100
91)	N-PROPYLBENZENE	15.868	120	136630	9.77	PPBV		100
92)	4-ETHYLTOLUENE	16.206	105	492235	9.70	PPBV		98
93)	1,3,5-TRIMETHYLBENZENE	16.354	105	407761	9.60	PPBV		98
94)	ALPHA-METHYLSTYRENE	16.546	118	208645	10.55	PPBV		99
95)	TERT-BUTYLBENZENE	16.800	134	110243	10.00	PPBV		90
96)	1,2,4-TRIMETHYLBENZENE	16.810	105	441260	9.84	PPBV		94
97)	BENZYL CHLORIDE	16.894	91	302408	8.48	PPBV		97
98)	M-DICHLOROBENZENE	16.871	146	316349	10.30	PPBV		99
99)	P-DICHLOROBENZENE	16.952	146	321516	10.34	PPBV		99
100)	O-DICHLOROBENZENE	17.241	146	303927	10.25	PPBV		99
101)	SEC-BUTYLBENZENE	17.077	134	139182	10.45	PPBV		87
102)	1,2,3-TRIMETHYLBENZENE	17.190	105	422369	9.64	PPBV		99
103)	P-ISOPROPYLTOLUENE	17.254	134	155297	10.30	PPBV		91
104)	N-BUTYLBENZENE	17.598	134	147872	10.41	PPBV		95
105)	HEXACHLOROETHANE	17.778	117	176075	10.07	PPBV	#	80
106)	HEXACHLOROBUTADIENE	18.816	225	266022	10.22	PPBV		99
107)	1,2,4-TRICHLOROBENZENE	18.511	180	348306	11.44	PPBV		99
108)	NAPHTHALENE	18.559	128	803506	10.62	PPBV		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W25441.D
Acq On : 11 Aug 2022 10:25 am
Operator : thomash
Sample : bsd
Misc : MS61233,V6W1083,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 11 14:25:52 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 05 08:58:59 2022
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 09/27/22 15:04

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61612.D
Acq On : 27 Sep 2022 8:57 am
Operator : thomash
Sample : bs
Misc : MS62367,V2w2734,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 27 10:41:10 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.612	128	79585	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.930	114	440838	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	10.586	117	389034	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.962	95	260732	10.07	PPBV		0.00
Target Compounds							Qvalue
3) FREON 152A	1.850	65	68688m	10.27	PPBV		
4) CHLORODIFLUOROMETHANE	1.869	67	29762	10.01	PPBV		99
5) CHLOROTRIFLUOROETHENE	1.882	116	160798	9.35	PPBV	#	1
6) DICHLORODIFLUOROMETHANE	1.904	85	393250	9.93	PPBV		99
7) PROPYLENE	1.879	41	60754	8.13	PPBV		99
8) 1-CHLORO-1,1-DIFLUOROE...	1.952	65	311971	10.47	PPBV		97
9) FREON 114	2.001	85	370257	10.38	PPBV		95
10) CHLOROMETHANE	1.962	52	35752	8.97	PPBV		98
11) VINYL CHLORIDE	2.042	62	152725	11.03	PPBV		99
12) 1,3-BUTADIENE	2.094	54	103050	9.63	PPBV		97
13) N-BUTANE	2.116	43	158491	8.51	PPBV		96
14) BROMOMETHANE	2.194	94	123917	9.90	PPBV		99
15) CHLOROETHANE	2.258	64	85080	11.48	PPBV		95
16) DICHLOROFLUOROMETHANE	2.290	67	316360	10.73	PPBV		98
17) ACETONITRILE	2.377	41	98668	8.91	PPBV		99
18) ACROLEIN	2.422	56	70977	14.52	PPBV		100
19) FREON 123	2.438	83	355401	10.85	PPBV		99
20) FREON 123A	2.457	117	194247	10.25	PPBV		88
21) TRICHLOROFLUOROMETHANE	2.522	101	448615	10.89	PPBV		100
22) ISOPROPYL ALCOHOL	2.538	45	311644	9.48	PPBV		98
23) ACETONE	2.464	58	88249	8.41	PPBV		92
24) PENTANE	2.634	42	181954	10.10	PPBV		99
25) IODOMETHANE	2.689	142	415751	10.32	PPBV		100
26) 1,1-DICHLOROETHYLENE	2.714	96	175910	11.12	PPBV		90
27) CARBON DISULFIDE	2.846	76	580811	12.20	PPBV		97
28) ETHANOL	2.293	45	48682	7.52	PPBV		98
29) BROMOETHENE	2.387	106	136855	10.71	PPBV		96
30) ACRYLONITRILE	2.605	52	134217	10.80	PPBV		99
31) METHYLENE CHLORIDE	2.750	84	171320	9.76	PPBV		92
32) 3-CHLOROPROPENE	2.792	76	90188	11.11	PPBV		86
33) FREON 113	2.846	151	278333	10.44	PPBV		90
34) TRANS-1,2-DICHLOROETHENE	3.081	96	134870	10.24	PPBV		94
35) TERTIARY BUTYL ALCOHOL	2.724	59	418203	10.09	PPBV	#	91
36) METHYL TERTIARY BUTYL ...	3.190	73	319743	9.37	PPBV		98
37) TETRAHYDROFURAN	3.904	72	63828	11.10	PPBV		86
38) HEXANE	3.666	57	233155	10.14	PPBV		95
39) VINYL ACETATE	3.229	86	35635	10.99	PPBV		69
40) 1,1-DICHLOROETHANE	3.158	63	260509	11.05	PPBV		99
41) METHYL ETHYL KETONE	3.329	72	65776	11.22	PPBV		74
42) CIS-1,2-DICHLOROETHENE	3.534	96	139213	9.85	PPBV		93
43) DIISOPROPYL ETHER	3.666	59	72210	10.72	PPBV		64

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61612.D
Acq On : 27 Sep 2022 8:57 am
Operator : thomash
Sample : bs
Misc : MS62367,V2w2734,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 27 10:41:10 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) ETHYL ACETATE	3.673	61	51825	11.00	PPBV		61
45) METHYL ACRYLATE	3.660	55	275746	10.20	PPBV	#	98
46) CHLOROFORM	3.689	83	293663	10.20	PPBV		99
47) 2,4-DIMETHYLPENTANE	4.197	57	265416	9.90	PPBV		99
48) 1,1,1-TRICHLOROETHANE	4.277	97	276366	9.62	PPBV		96
49) CARBON TETRACHLORIDE	4.711	117	282853	9.94	PPBV		97
50) 1,2-DICHLOROETHANE	4.110	62	208995	10.71	PPBV		99
51) BENZENE	4.599	78	419932	10.21	PPBV		95
53) CYCLOHEXANE	4.811	84	179357	9.64	PPBV		100
54) 2,3-DIMETHYLPENTANE	5.075	71	91017	9.96	PPBV		98
55) TRICHLOROETHENE	5.518	95	187118	10.01	PPBV		96
56) 1,2-DICHLOROPROPANE	5.277	63	175289	10.42	PPBV		97
57) DIBROMOMETHANE	5.239	174	170172	8.85	PPBV		95
58) ETHYL ACRYLATE	5.396	55	327084	10.34	PPBV		99
59) BROMODICHLOROMETHANE	5.464	83	314671	10.20	PPBV		99
60) 2,2,4-TRIMETHYLPENTANE	5.615	57	715284	9.60	PPBV		99
61) 1,4-DIOXANE	5.521	88	98933	10.96	PPBV		98
62) HEPTANE	5.936	43	196778	8.39	PPBV		89
63) METHYL METHACRYLATE	5.827	69	152720	10.63	PPBV		92
64) METHYL ISOBUTYL KETONE	6.566	58	140309	11.70	PPBV		88
65) CIS-1,3-DICHLOROPROPENE	6.473	75	222200	9.97	PPBV		96
66) TOLUENE	7.698	91	516983	9.73	PPBV		98
67) 1,3-DICHLOROPROPANE	7.756	76	255621	10.12	PPBV		99
68) TRANS-1,3-DICHLOROPROPENE	7.158	75	191900	9.60	PPBV		96
69) 1,1,2-TRICHLOROETHANE	7.319	83	151662	9.74	PPBV		98
70) 2-HEXANONE	8.261	58	182465	10.87	PPBV		88
71) ETHYL METHACRYLATE	8.399	69	248643	11.87	PPBV		94
72) TETRACHLOROETHENE	9.444	164	189575	8.91	PPBV		99
73) DIBROMOCHLOROMETHANE	8.235	129	299944	9.89	PPBV		99
74) 1,2-DIBROMOETHANE	8.582	107	274662	9.69	PPBV		99
75) OCTANE	9.589	43	272886	8.66	PPBV		92
77) 1,1,1,2-TETRACHLOROETHANE	10.672	131	205645	9.76	PPBV		97
78) CHLOROBENZENE	10.663	112	397708	9.51	PPBV		97
79) ETHYLBENZENE	11.547	91	688008	10.32	PPBV		97
80) M,P-XYLENE	11.978	91	1056278	20.84	PPBV		96
81) O-XYLENE	12.917	91	538312	10.39	PPBV		95
82) STYRENE	12.701	104	413388	11.15	PPBV		99
83) NONANE	14.029	43	286960	8.97	PPBV		89
84) BROMOFORM	11.791	173	293256	10.94	PPBV		99
85) 1,1,2,2-TETRACHLOROETHANE	12.923	83	403665	10.47	PPBV		100
86) 1,2,3-TRICHLOROPROPANE	13.212	75	295579	10.45	PPBV		100
88) ISOPROPYLBENZENE	14.431	120	188318	8.57	PPBV		91
89) BROMOBENZENE	14.302	77	368033	10.26	PPBV		94
90) 2-CHLOROTOLUENE	15.441	126	175611	9.52	PPBV		99
91) N-PROPYLBENZENE	15.778	120	196885	9.75	PPBV		98
92) 4-ETHYLTOLUENE	16.145	105	781563	10.51	PPBV		95
93) 1,3,5-TRIMETHYLBENZENE	16.302	105	643991	10.38	PPBV		96
94) ALPHA-METHYLSTYRENE	16.502	118	330432	12.66	PPBV		99
95) TERT-BUTYLBENZENE	16.762	134	153107	9.64	PPBV		99
96) 1,2,4-TRIMETHYLBENZENE	16.769	105	692287	10.44	PPBV		92

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61612.D
Acq On : 27 Sep 2022 8:57 am
Operator : thomash
Sample : bs
Misc : MS62367,V2w2734,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 27 10:41:10 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

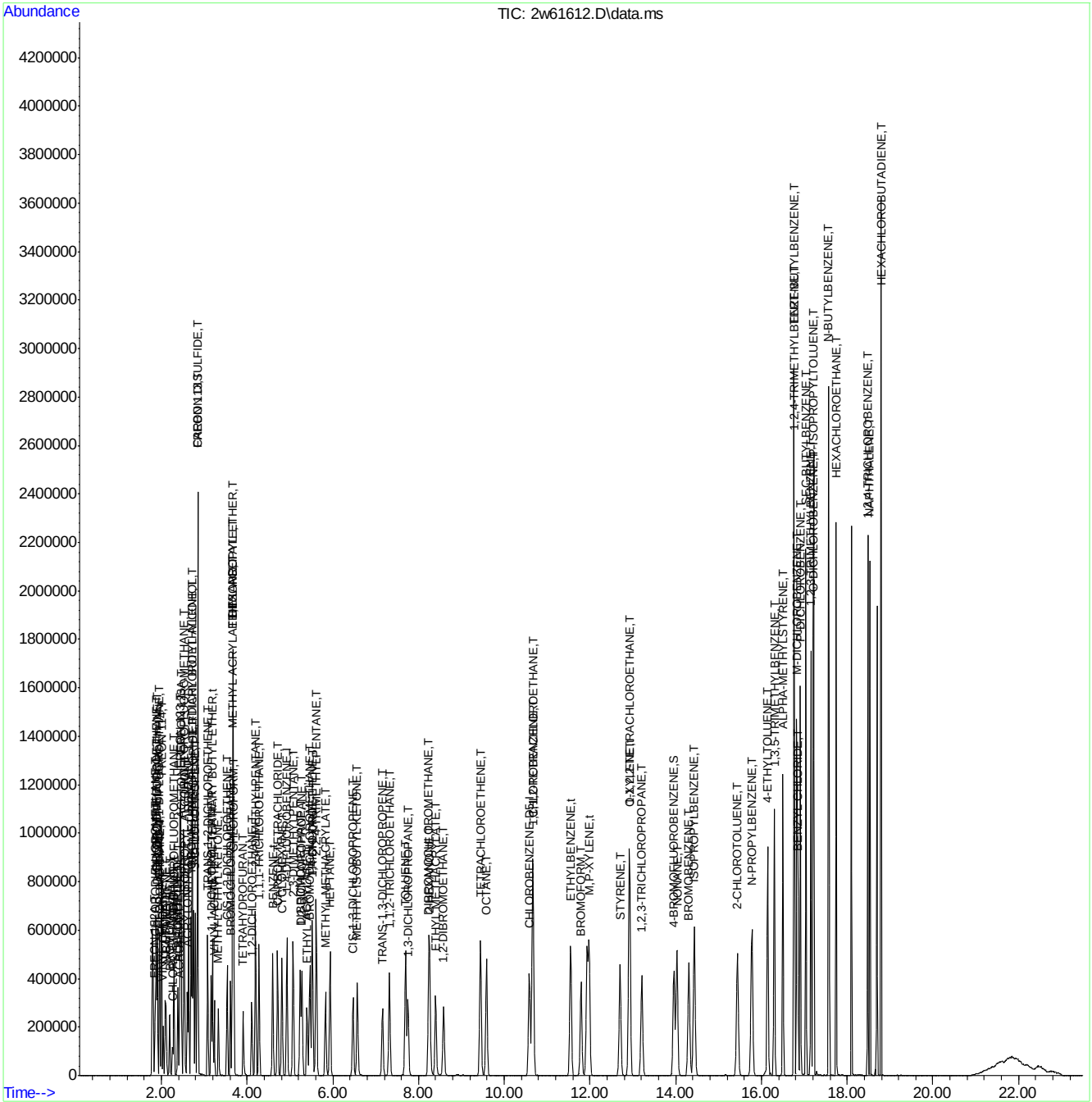
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	BENZYL CHLORIDE	16.849	91	349632	8.51	PPBV	96
98)	M-DICHLOROBENZENE	16.826	146	434375	9.96	PPBV	99
99)	P-DICHLOROBENZENE	16.910	146	440094	9.96	PPBV	100
100)	O-DICHLOROBENZENE	17.203	146	422950	9.85	PPBV	99
101)	SEC-BUTYLBENZENE	17.039	134	194376	9.85	PPBV	89
102)	1,2,3-TRIMETHYLBENZENE	17.151	105	666712	10.63	PPBV	96
103)	P-ISOPROPYLTOLUENE	17.219	134	212729	9.79	PPBV	99
104)	N-BUTYLBENZENE	17.566	134	197230	9.81	PPBV	81
105)	HEXACHLOROETHANE	17.746	117	256812	10.43	PPBV	96
106)	HEXACHLOROBUTADIENE	18.791	225	313360	9.31	PPBV	99
107)	1,2,4-TRICHLOROBENZENE	18.482	180	351058	9.88	PPBV	98
108)	NAPHTHALENE	18.531	128	867975	9.56	PPBV	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61612.D
Acq On : 27 Sep 2022 8:57 am
Operator : thomash
Sample : bs
Misc : MS62367,V2w2734,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 27 10:41:10 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration



Manual Integration Approval Summary

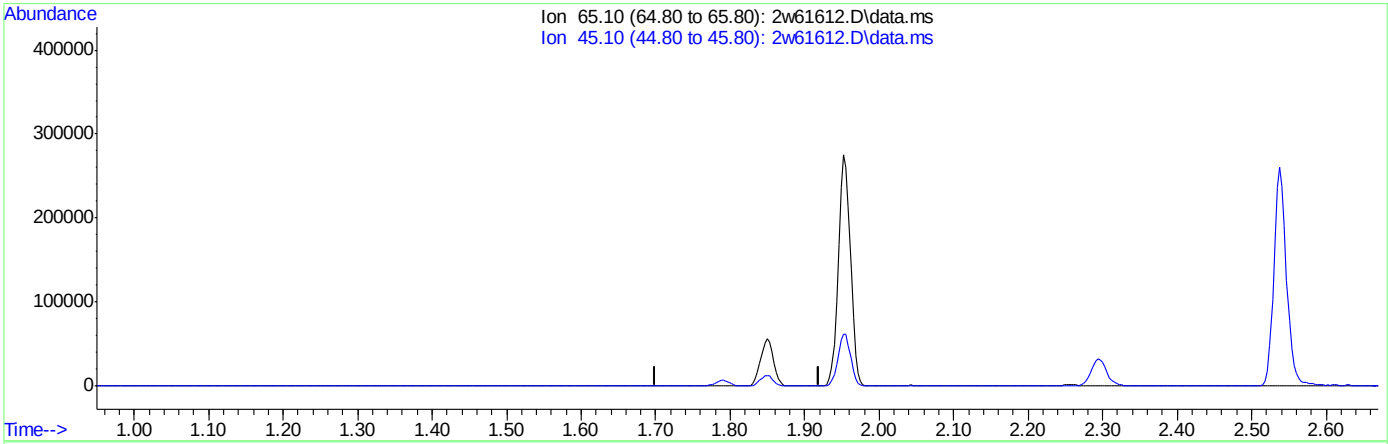
Sample Number:	V2W2734-BS	**Method:**	TO-15
Lab FileID:	2W61612.D	**Analyst approved:**	09/27/22 10:42 Thomas Hilbig
Injection Time:	09/27/22 08:57	**Supervisor approved:**	09/27/22 15:04 Kanya Veerawat

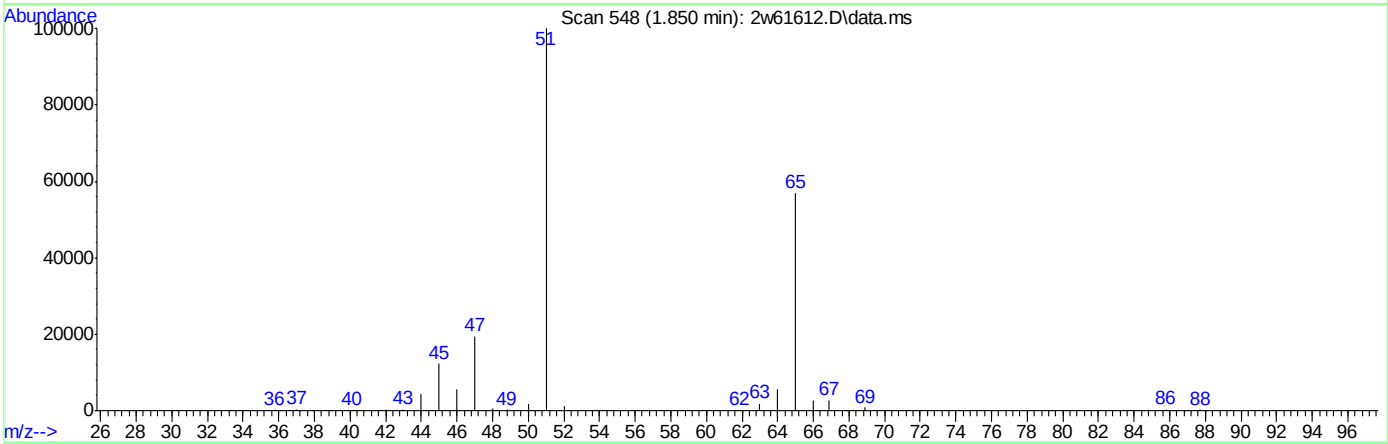
Parameter	CAS	Sig#	R.T. (min.)	Reason
Freon 152A	75-37-6		1.85	Missed peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61612.D
Acq On : 27 Sep 2022 8:57 am
Operator : thomash
Sample : bs
Misc : MS62367,V2w2734,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 27 09:47:58 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration





TIC: 2w61612.D\data.ms

(3) FREON 152A (T)

1.850min (-1.850) 0.00PPBV

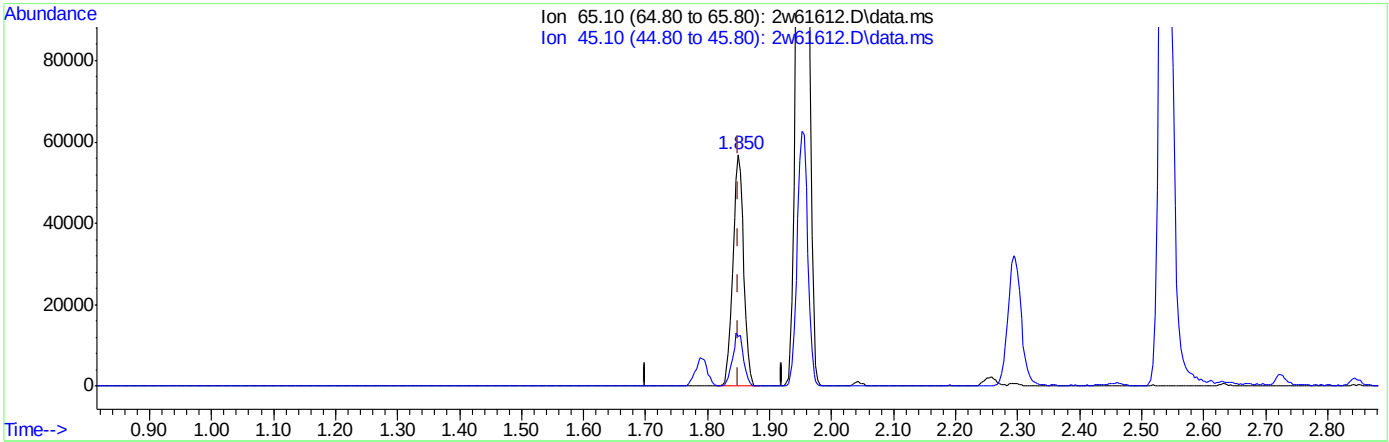
response 0

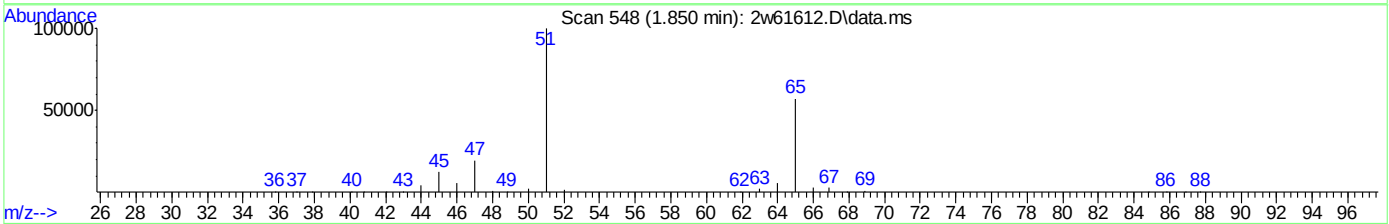
Ion	Exp%	Act%
65.10	100	0.00
45.10	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

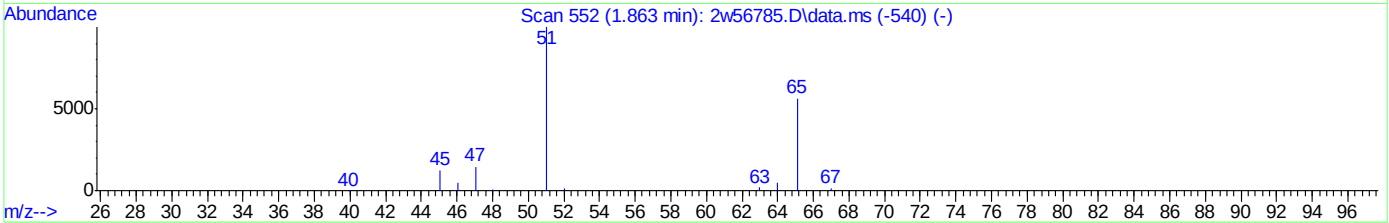
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61612.D
Acq On : 27 Sep 2022 8:57 am
Operator : thomash
Sample : bs
Misc : MS62367,V2w2734,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 27 09:47:58 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration







TIC: 2w61612.D\data.ms

(3) FREON 152A (T)

1.850min (-0.000) 10.27PPBV m

response 68688

Ion	Exp%	Act%
65.10	100	100
45.10	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61613.D
Acq On : 27 Sep 2022 9:29 am
Operator : thomash
Sample : bsd
Misc : MS62367,V2w2734,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 27 10:37:26 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.608	128	86056	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.926	114	462656	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	10.589	117	409400	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.961	95	271991	9.98	PPBV		0.00
Target Compounds							Qvalue
3) FREON 152A	1.843	65	69381	9.59	PPBV	#	100
4) CHLORODIFLUOROMETHANE	1.859	67	31230	9.72	PPBV		99
5) CHLOROTRIFLUOROETHENE	1.875	116	164502	8.85	PPBV	#	1
6) DICHLORODIFLUOROMETHANE	1.898	85	404350	9.44	PPBV		99
7) PROPYLENE	1.872	41	62546	7.74	PPBV		99
8) 1-CHLORO-1,1-DIFLUOROE...	1.946	65	322591	10.01	PPBV		96
9) FREON 114	1.994	85	374151	9.70	PPBV		95
10) CHLOROMETHANE	1.956	52	35706	8.28	PPBV		99
11) VINYL CHLORIDE	2.036	62	156903	10.48	PPBV		100
12) 1,3-BUTADIENE	2.087	54	104190	9.01	PPBV		97
13) N-BUTANE	2.107	43	163144	8.10	PPBV		96
14) BROMOMETHANE	2.187	94	126803	9.37	PPBV		99
15) CHLOROETHANE	2.248	64	85845	10.71	PPBV	#	93
16) DICHLOROFLUOROMETHANE	2.284	67	319823	10.03	PPBV		99
17) ACETONITRILE	2.370	41	100693	8.41	PPBV		99
18) ACROLEIN	2.415	56	71621	13.55	PPBV		99
19) FREON 123	2.431	83	356143	10.05	PPBV		99
20) FREON 123A	2.451	117	197232	9.62	PPBV		90
21) TRICHLOROFLUOROMETHANE	2.518	101	453700	10.18	PPBV		99
22) ISOPROPYL ALCOHOL	2.531	45	315266	8.87	PPBV		98
23) ACETONE	2.457	58	90008	7.94	PPBV		90
24) PENTANE	2.628	42	186375	9.57	PPBV		98
25) IODOMETHANE	2.685	142	420310	9.65	PPBV		99
26) 1,1-DICHLOROETHYLENE	2.711	96	180119	10.53	PPBV		88
27) CARBON DISULFIDE	2.840	76	578858	11.24	PPBV		97
28) ETHANOL	2.287	45	49217	7.03	PPBV		98
29) BROMOETHENE	2.380	106	136977	9.91	PPBV		97
30) ACRYLONITRILE	2.599	52	136258	10.14	PPBV		99
31) METHYLENE CHLORIDE	2.747	84	172616	9.10	PPBV		94
32) 3-CHLOROPROPENE	2.785	76	91301	10.41	PPBV		87
33) FREON 113	2.840	151	283806	9.85	PPBV		91
34) TRANS-1,2-DICHLOROETHENE	3.074	96	137685	9.67	PPBV		93
35) TERTIARY BUTYL ALCOHOL	2.718	59	429618	9.59	PPBV	#	91
36) METHYL TERTIARY BUTYL ...	3.187	73	333112	9.03	PPBV		98
37) TETRAHYDROFURAN	3.901	72	65067	10.46	PPBV		87
38) HEXANE	3.663	57	240327	9.66	PPBV		93
39) VINYL ACETATE	3.229	86	36417	10.39	PPBV		69
40) 1,1-DICHLOROETHANE	3.155	63	266834	10.47	PPBV		99
41) METHYL ETHYL KETONE	3.325	72	68129	10.75	PPBV		76
42) CIS-1,2-DICHLOROETHENE	3.531	96	143454	9.39	PPBV		93
43) DIISOPROPYL ETHER	3.666	59	73364	10.07	PPBV		66

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61613.D
Acq On : 27 Sep 2022 9:29 am
Operator : thomash
Sample : bsd
Misc : MS62367,V2w2734,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 27 10:37:26 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44)	ETHYL ACETATE	3.669	61	52965	10.39	PPBV		63
45)	METHYL ACRYLATE	3.656	55	283060	9.68	PPBV	#	98
46)	CHLOROFORM	3.685	83	301392	9.68	PPBV		98
47)	2,4-DIMETHYLPENTANE	4.193	57	276628	9.55	PPBV		98
48)	1,1,1-TRICHLOROETHANE	4.274	97	284208	9.15	PPBV		96
49)	CARBON TETRACHLORIDE	4.711	117	289904	9.42	PPBV		96
50)	1,2-DICHLOROETHANE	4.107	62	214760	10.18	PPBV		99
51)	BENZENE	4.595	78	433405	9.75	PPBV		95
53)	CYCLOHEXANE	4.811	84	182879	9.37	PPBV		100
54)	2,3-DIMETHYLPENTANE	5.071	71	93672	9.77	PPBV		96
55)	TRICHLOROETHENE	5.515	95	192022	9.79	PPBV		96
56)	1,2-DICHLOROPROPANE	5.280	63	178859	10.13	PPBV		97
57)	DIBROMOMETHANE	5.238	174	175601	8.70	PPBV		95
58)	ETHYL ACRYLATE	5.393	55	338175	10.19	PPBV		99
59)	BROMODICHLOROMETHANE	5.460	83	318836	9.85	PPBV		99
60)	2,2,4-TRIMETHYLPENTANE	5.611	57	736546	9.42	PPBV		99
61)	1,4-DIOXANE	5.525	88	101994	10.76	PPBV		98
62)	HEPTANE	5.933	43	201241	8.18	PPBV		88
63)	METHYL METHACRYLATE	5.827	69	157668	10.45	PPBV		91
64)	METHYL ISOBUTYL KETONE	6.573	58	140838	11.19	PPBV		90
65)	CIS-1,3-DICHLOROPROPENE	6.470	75	230737	9.86	PPBV		95
66)	TOLUENE	7.698	91	526360	9.44	PPBV		99
67)	1,3-DICHLOROPROPANE	7.756	76	257601	9.72	PPBV		98
68)	TRANS-1,3-DICHLOROPROPENE	7.158	75	198229	9.45	PPBV		96
69)	1,1,2-TRICHLOROETHANE	7.322	83	155852	9.54	PPBV		98
70)	2-HEXANONE	8.261	58	187238	10.64	PPBV		88
71)	ETHYL METHACRYLATE	8.396	69	255210	11.61	PPBV		94
72)	TETRACHLOROETHENE	9.447	164	196166	8.78	PPBV		99
73)	DIBROMOCHLOROMETHANE	8.238	129	308478	9.69	PPBV		99
74)	1,2-DIBROMOETHANE	8.589	107	278747	9.37	PPBV		100
75)	OCTANE	9.589	43	278341	8.42	PPBV		92
77)	1,1,1,2-TETRACHLOROETHANE	10.672	131	208313	9.39	PPBV		97
78)	CHLOROBENZENE	10.663	112	404792	9.20	PPBV		96
79)	ETHYLBENZENE	11.550	91	698627	9.96	PPBV		98
80)	M,P-XYLENE	11.984	91	1072444	20.10	PPBV		98
81)	O-XYLENE	12.923	91	544946	9.99	PPBV		93
82)	STYRENE	12.704	104	413312	10.59	PPBV		98
83)	NONANE	14.032	43	295750	8.78	PPBV		91
84)	BROMOFORM	11.791	173	297373	10.54	PPBV		98
85)	1,1,2,2-TETRACHLOROETHANE	12.926	83	411998	10.15	PPBV		100
86)	1,2,3-TRICHLOROPROPANE	13.212	75	302843	10.17	PPBV	#	100
88)	ISOPROPYLBENZENE	14.434	120	192804	8.34	PPBV		92
89)	BROMOBENZENE	14.306	77	377453	10.00	PPBV		93
90)	2-CHLOROTOLUENE	15.447	126	178395	9.19	PPBV		98
91)	N-PROPYLBENZENE	15.778	120	199581	9.40	PPBV		97
92)	4-ETHYLTOLUENE	16.145	105	796429	10.18	PPBV		96
93)	1,3,5-TRIMETHYLBENZENE	16.302	105	663399	10.16	PPBV		95
94)	ALPHA-METHYLSTYRENE	16.502	118	335586	12.22	PPBV		99
95)	TERT-BUTYLBENZENE	16.759	134	154037	9.22	PPBV		97
96)	1,2,4-TRIMETHYLBENZENE	16.768	105	716826	10.27	PPBV		91

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61613.D
Acq On : 27 Sep 2022 9:29 am
Operator : thomash
Sample : bsd
Misc : MS62367,V2w2734,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 27 10:37:26 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

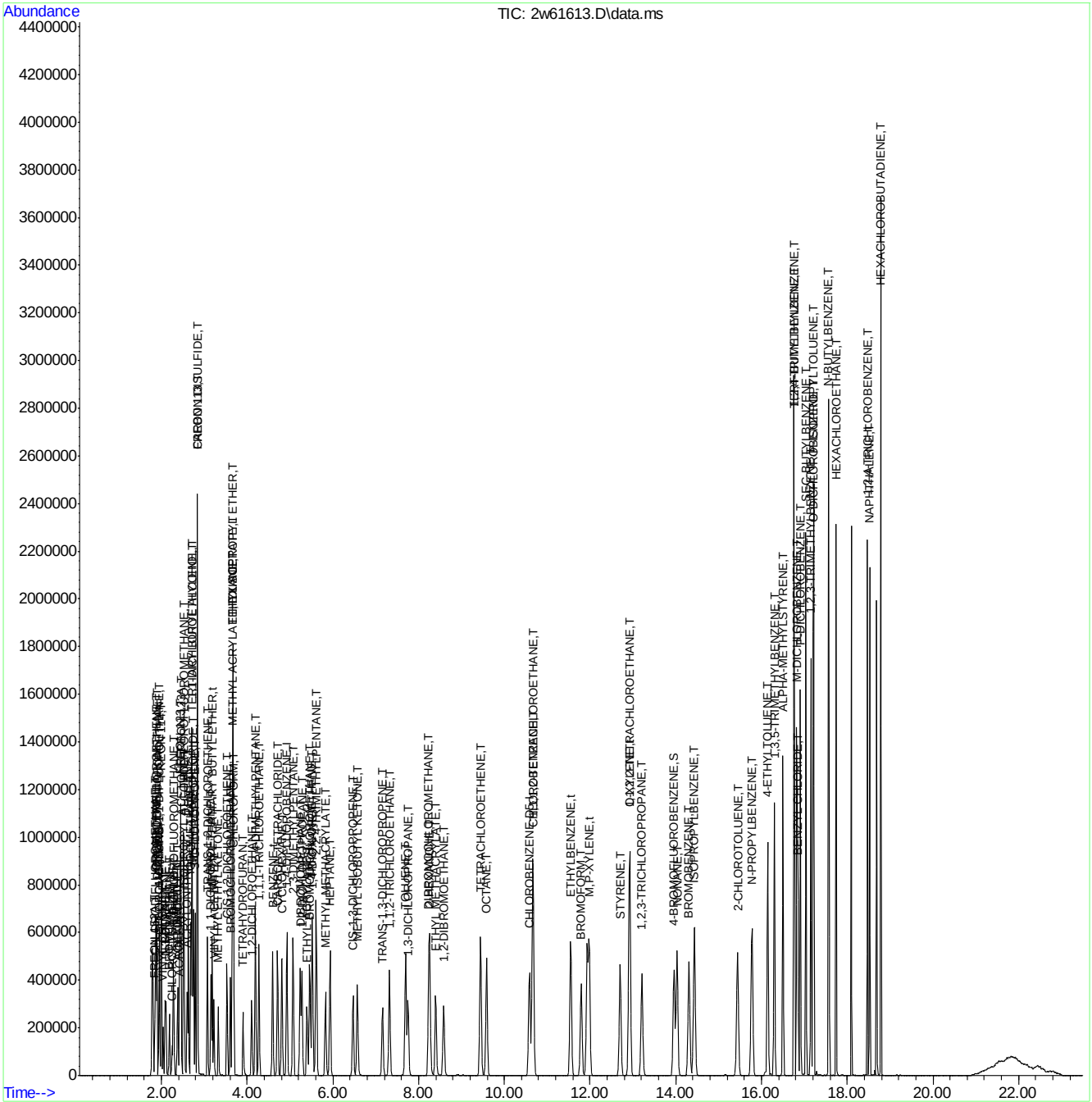
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97) BENZYL CHLORIDE	16.852	91	355102	8.22	PPBV	96
98) M-DICHLOROBENZENE	16.826	146	438643	9.56	PPBV	99
99) P-DICHLOROBENZENE	16.910	146	445739	9.58	PPBV	100
100) O-DICHLOROBENZENE	17.206	146	431486	9.55	PPBV	99
101) SEC-BUTYLBENZENE	17.042	134	194282	9.36	PPBV	83
102) 1,2,3-TRIMETHYLBENZENE	17.151	105	685393	10.38	PPBV	95
103) P-ISOPROPYLTOLUENE	17.219	134	214071	9.36	PPBV	98
104) N-BUTYLBENZENE	17.563	134	199795	9.45	PPBV	83
105) HEXACHLOROETHANE	17.743	117	262437	10.13	PPBV	95
106) HEXACHLOROBUTADIENE	18.784	225	314928	8.89	PPBV	100
107) 1,2,4-TRICHLOROBENZENE	18.476	180	348491	9.32	PPBV	99
108) NAPHTHALENE	18.524	128	860563	9.01	PPBV	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61613.D
Acq On : 27 Sep 2022 9:29 am
Operator : thomash
Sample : bsd
Misc : MS62367,V2w2734,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 27 10:37:26 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 11/07/22 17:15

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26834.D
Acq On : 3 Nov 2022 5:26 pm
Operator : thomash
Sample : jd53652-1dup
Misc : MS63088,V6W1137,100,,,,1
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Nov 07 16:29:07 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration

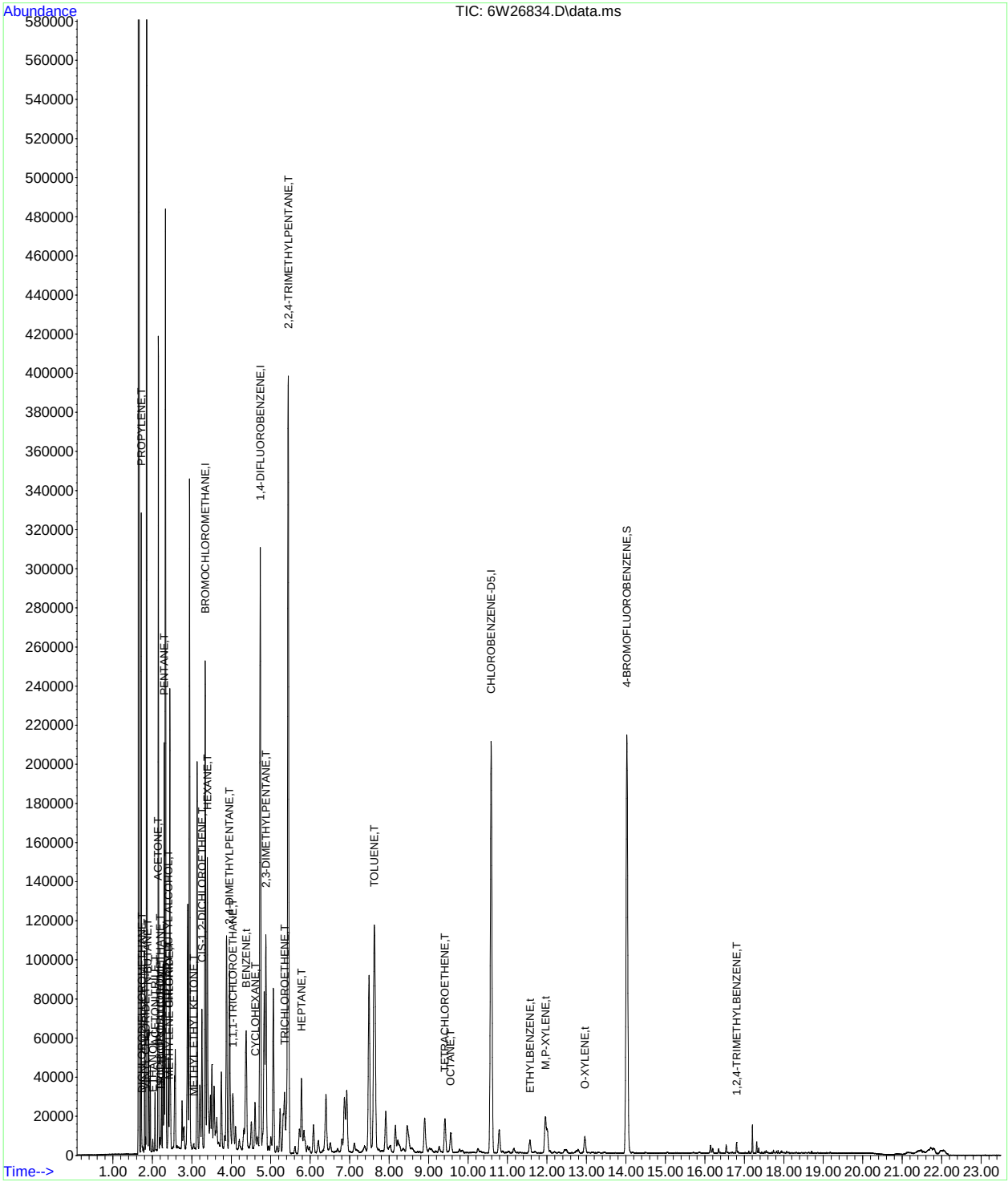
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.341	128	45425	10.00	PPBV	#	0.00
52) 1,4-DIFLUOROBENZENE	4.737	114	228554	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	10.585	117	185306	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	14.023	95	127549	9.86	PPBV		0.00
Target Compounds							Qvalue
6) DICHLORODIFLUOROMETHANE	1.734	85	1811	0.13	PPBV	#	92
7) PROPYLENE	1.718	41	63927	10.98	PPBV		91
11) VINYL CHLORIDE	1.830	62	3346	0.54	PPBV	#	95
13) N-BUTANE	1.882	43	22541	1.97	PPBV	#	91
17) ACETONITRILE	2.068	41	3061	0.46	PPBV	#	43
21) TRICHLOROFLUOROMETHANE	2.193	101	2340	0.16	PPBV	#	93
22) ISOPROPYL ALCOHOL	2.216	45	4002	0.27	PPBV	#	66
23) ACETONE	2.142	58	13678	4.07	PPBV	#	1
24) PENTANE	2.300	42	41074	5.15	PPBV	#	93
28) ETHANOL	2.010	45	3317	0.96	PPBV	#	92
31) METHYLENE CHLORIDE	2.425	84	1374	0.24	PPBV	#	27
35) TERTIARY BUTYL ALCOHOL	2.406	59	8780	0.72	PPBV	#	39
38) HEXANE	3.393	57	49308	4.04	PPBV		96
41) METHYL ETHYL KETONE	3.049	72	384m	0.13	PPBV		
42) CIS-1,2-DICHLOROETHENE	3.258	96	20969	3.18	PPBV	#	80
47) 2,4-DIMETHYLPENTANE	3.955	57	29831	2.16	PPBV	#	91
48) 1,1,1-TRICHLOROETHANE	4.042	97	8039	0.60	PPBV	#	88
51) BENZENE	4.380	78	35277	1.74	PPBV		69
53) CYCLOHEXANE	4.605	84	6667	0.80	PPBV	#	50
54) 2,3-DIMETHYLPENTANE	4.878	71	15777	3.48	PPBV	#	16
55) TRICHLOROETHENE	5.351	95	6152	0.69	PPBV		99
60) 2,2,4-TRIMETHYLPENTANE	5.444	57	378437	10.01	PPBV	#	95
62) HEPTANE	5.779	43	15832	1.04	PPBV	#	72
66) TOLUENE	7.618	91	77160	3.05	PPBV		100
72) TETRACHLOROETHENE	9.412	164	5679	0.65	PPBV		93
75) OCTANE	9.556	43	4704	0.23	PPBV	#	72
79) ETHYLBENZENE	11.566	91	8113	0.25	PPBV		97
80) M,P-XYLENE	11.958	91	28938	1.21	PPBV		97
81) O-XYLENE	12.958	91	8713	0.37	PPBV	#	87
96) 1,2,4-TRIMETHYLBENZENE	16.801	105	2452	0.10	PPBV	#	24

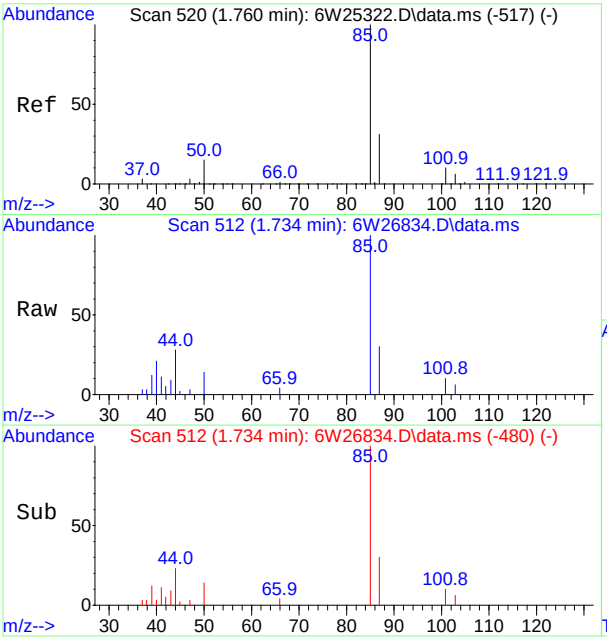
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26834.D
Acq On : 3 Nov 2022 5:26 pm
Operator : thomash
Sample : jd53652-1dup
Misc : MS63088,V6W1137,100,,,,1
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Nov 07 16:29:07 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration

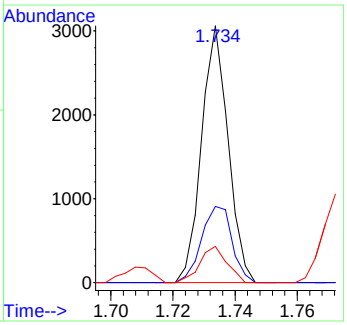


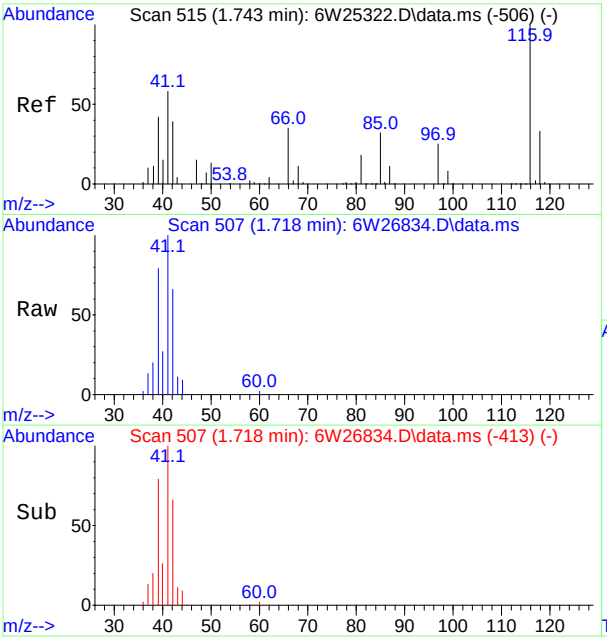


#6
DICHLORODIFLUOROMETHANE
Concen: 0.13 PPBV
RT: 1.734 min Scan# 512
Delta R.T. 0.003 min
Lab File: 6W26834.D
Acq: 3 Nov 2022 5:26 pm

Tgt Ion: 85 Resp: 1811

Ion	Ratio	Lower	Upper
85	100		
87	34.2	25.8	38.6
50	0.0	7.4	11.2#

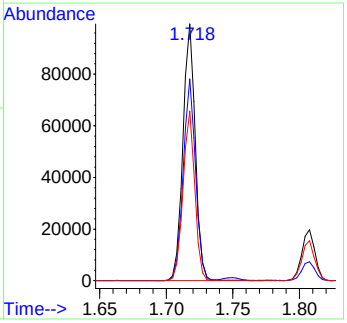


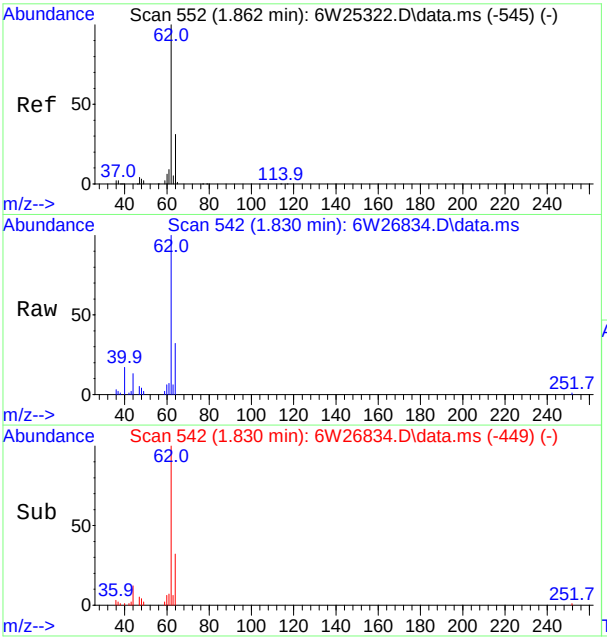


#7
PROPYLENE
Concen: 10.98 PPBV
RT: 1.718 min Scan# 507
Delta R.T. 0.003 min
Lab File: 6W26834.D
Acq: 3 Nov 2022 5:26 pm

Tgt Ion: 41 Resp: 63927

Ion	Ratio	Lower	Upper
41	100		
39	79.2	54.6	81.8
42	63.3	53.8	80.6

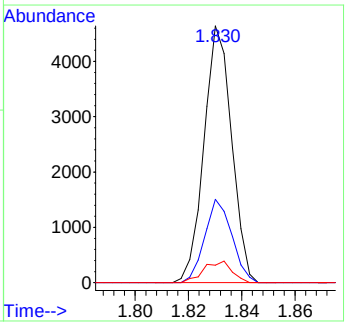


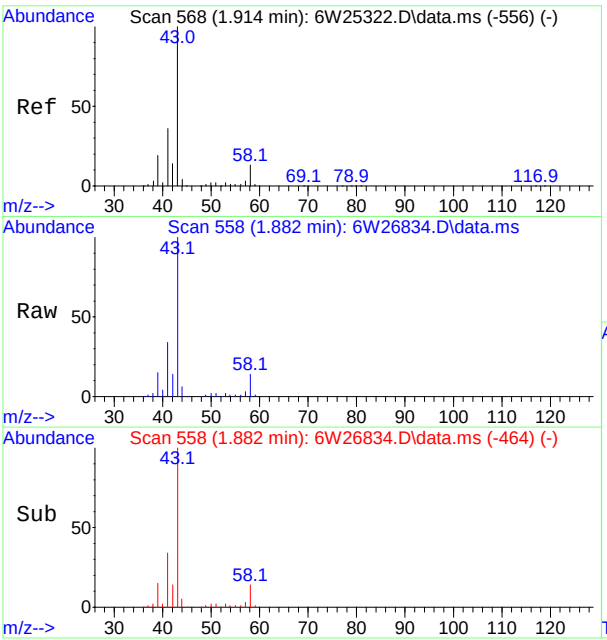


#11
VINYL CHLORIDE
Concen: 0.54 PPBV
RT: 1.830 min Scan# 542
Delta R.T. 0.000 min
Lab File: 6W26834.D
Acq: 3 Nov 2022 5:26 pm

Tgt Ion: 62 Resp: 3346

Ion	Ratio	Lower	Upper
62	100		
64	31.9	25.7	38.5
61	0.0	6.7	10.1#

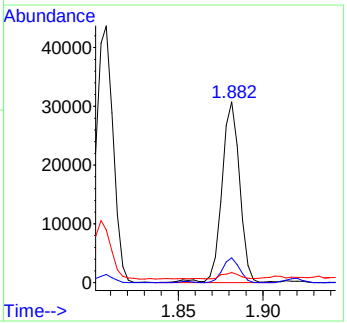


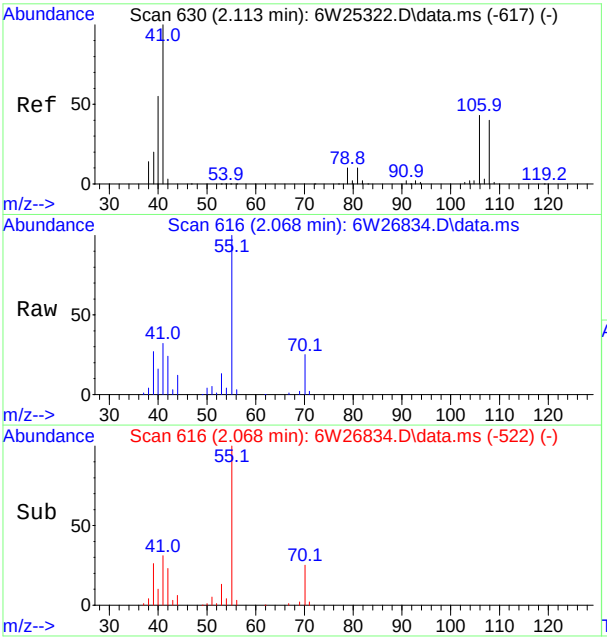


#13
N-BUTANE
Concen: 1.97 PPBV
RT: 1.882 min Scan# 558
Delta R.T. 0.003 min
Lab File: 6W26834.D
Acq: 3 Nov 2022 5:26 pm

Tgt Ion: 43 Resp: 22541

Ion	Ratio	Lower	Upper
43	100		
58	13.5	14.2	21.2#
44	3.2	4.2	6.4#

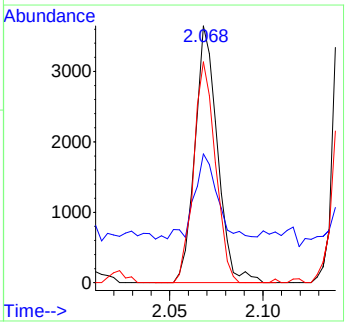


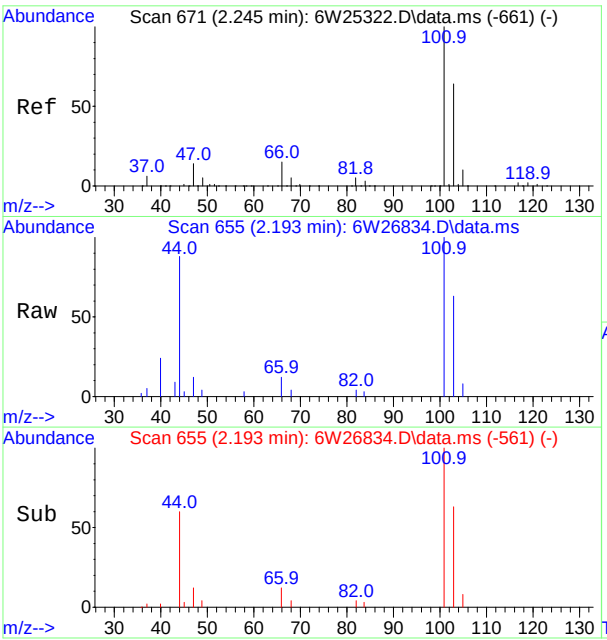


#17
ACETONITRILE
Concen: 0.46 PPBV
RT: 2.068 min Scan# 616
Delta R.T. 0.003 min
Lab File: 6W26834.D
Acq: 3 Nov 2022 5:26 pm

Tgt Ion: 41 Resp: 3061

Ion	Ratio	Lower	Upper
41	100		
40	34.0	41.6	62.4#
39	83.3	14.2	21.4#

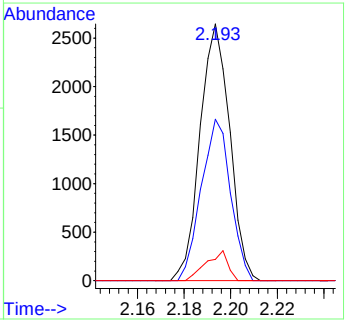


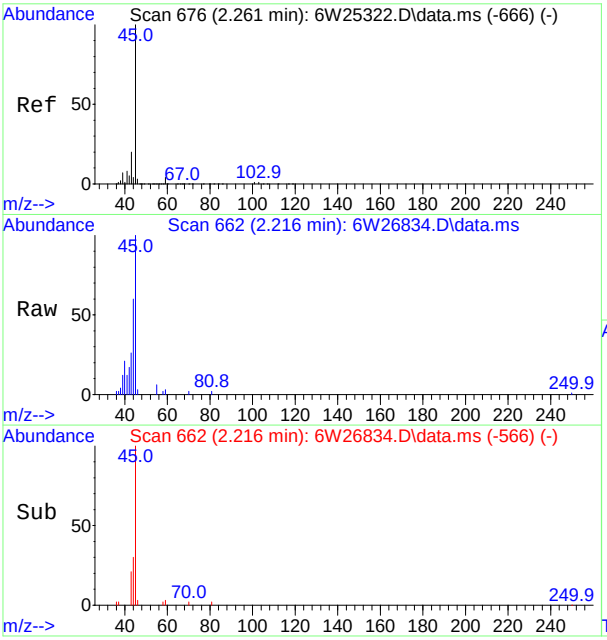


#21
TRICHLOROFLUOROMETHANE
Concen: 0.16 PPBV
RT: 2.193 min Scan# 655
Delta R.T. 0.003 min
Lab File: 6W26834.D
Acq: 3 Nov 2022 5:26 pm

Tgt Ion:101 Resp: 2340

Ion	Ratio	Lower	Upper
101	100		
103	62.0	51.8	77.6
105	0.0	8.4	12.6#

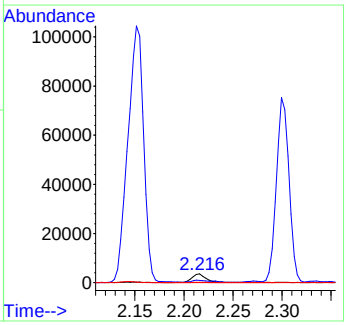


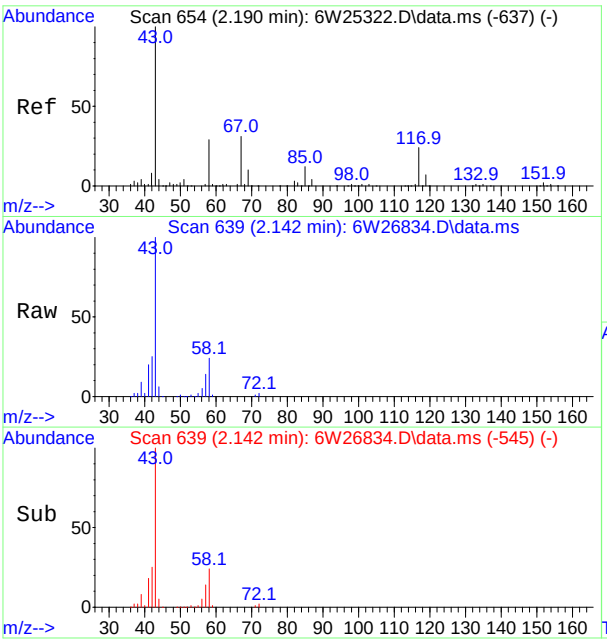


#22
ISOPROPYL ALCOHOL
Concen: 0.27 PPBV
RT: 2.216 min Scan# 662
Delta R.T. 0.010 min
Lab File: 6W26834.D
Acq: 3 Nov 2022 5:26 pm

Tgt Ion: 45 Resp: 4002

Ion	Ratio	Lower	Upper
45	100		
43	37.0	15.5	23.3#
59	0.0	4.1	6.1#

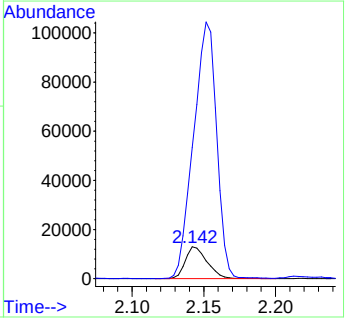


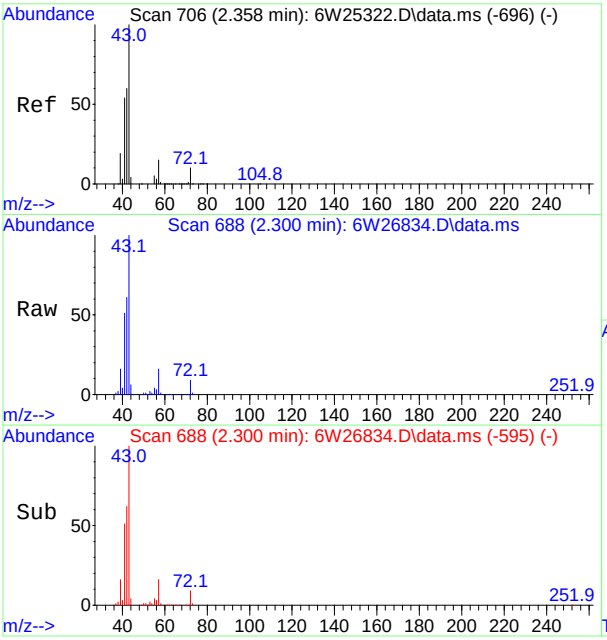


#23
ACETONE
Concen: 4.07 PPBV
RT: 2.142 min Scan# 639
Delta R.T. 0.003 min
Lab File: 6W26834.D
Acq: 3 Nov 2022 5:26 pm

Tgt Ion: 58 Resp: 13678

Ion	Ratio	Lower	Upper
58	100		
43	856.5	195.9	293.9#

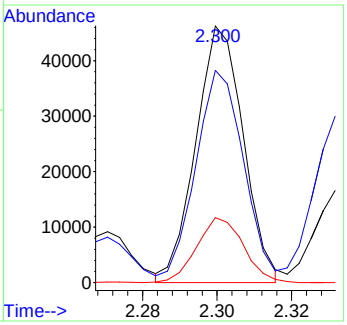


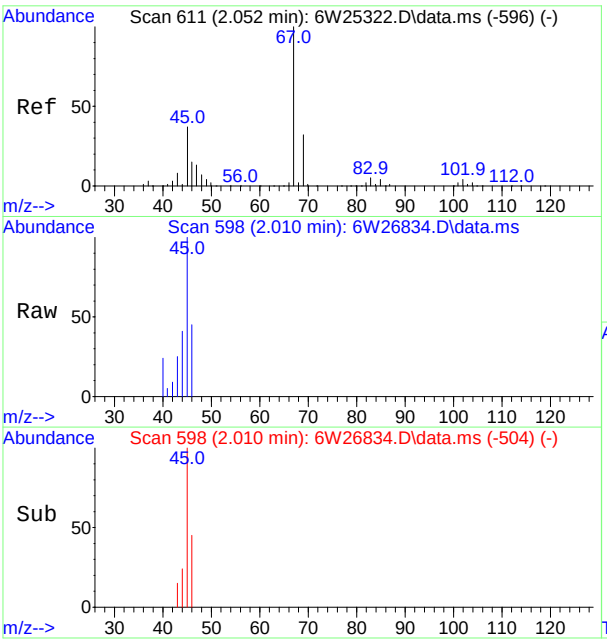


#24
PENTANE
Concen: 5.15 PPBV
RT: 2.300 min Scan# 688
Delta R.T. 0.000 min
Lab File: 6W26834.D
Acq: 3 Nov 2022 5:26 pm

Tgt Ion: 42 Resp: 41074

Ion	Ratio	Lower	Upper
42	100		
41	83.4	69.5	104.3
57	25.1	27.4	41.0#

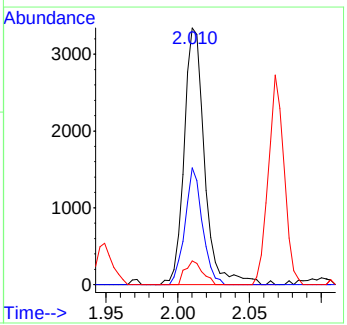


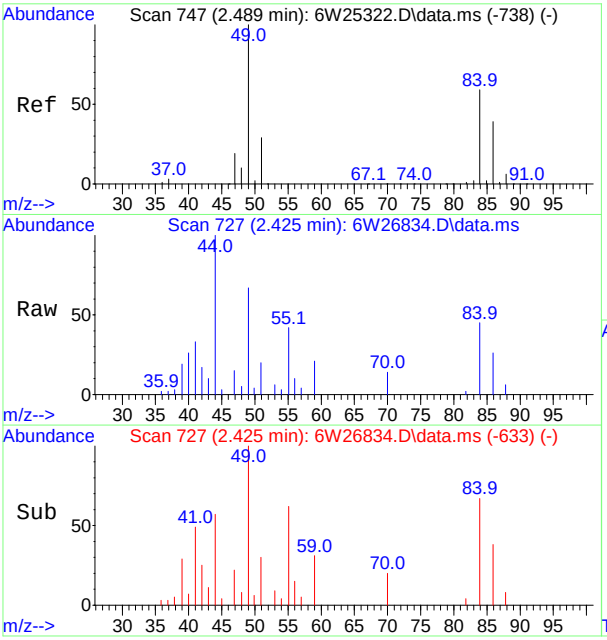


#28
ETHANOL
Concen: 0.96 PPBV
RT: 2.010 min Scan# 598
Delta R.T. 0.003 min
Lab File: 6W26834.D
Acq: 3 Nov 2022 5:26 pm

Tgt Ion: 45 Resp: 3317

Ion	Ratio	Lower	Upper
45	100		
46	38.7	34.1	51.1
42	0.0	6.1	9.1#

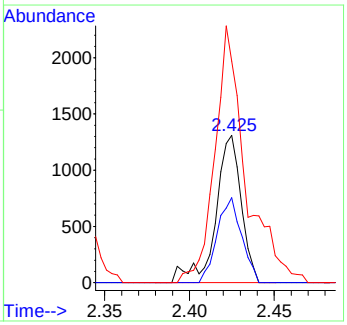


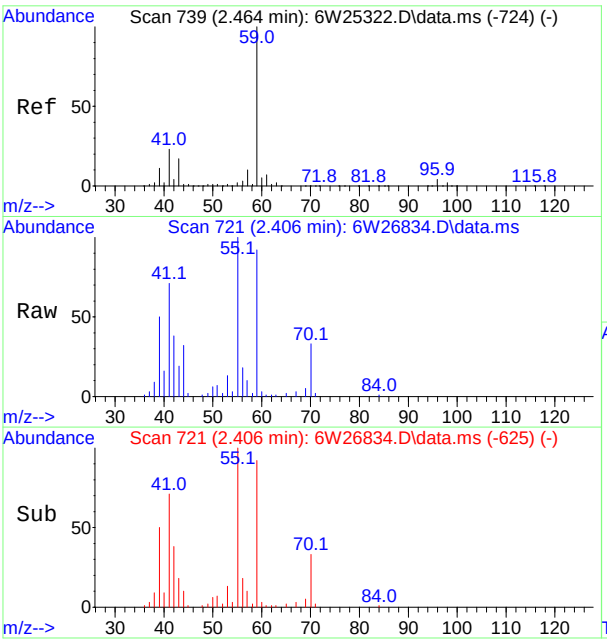


#31
METHYLENE CHLORIDE
Concen: 0.24 PPBV
RT: 2.425 min Scan# 727
Delta R.T. 0.003 min
Lab File: 6W26834.D
Acq: 3 Nov 2022 5:26 pm

Tgt Ion: 84 Resp: 1374

Ion	Ratio	Lower	Upper
84	100		
86	55.2	50.9	76.3
49	210.7	78.6	118.0#

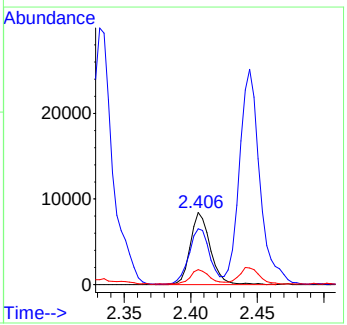


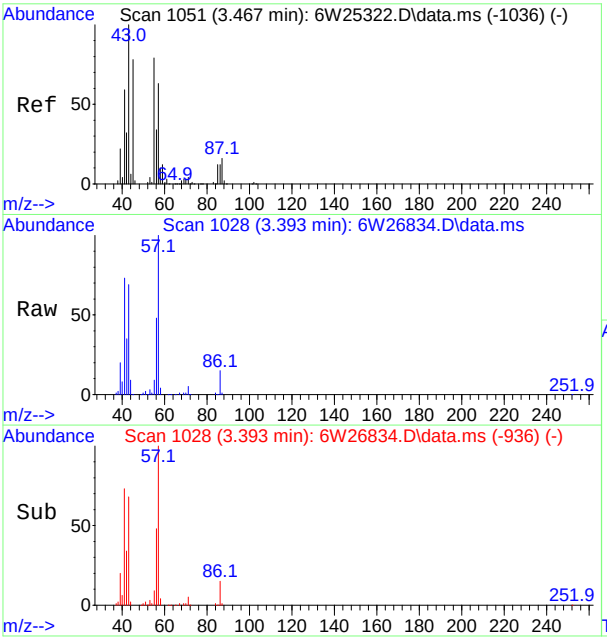


#35
TERTIARY BUTYL ALCOHOL
Concen: 0.72 PPBV
RT: 2.406 min Scan# 721
Delta R.T. 0.010 min
Lab File: 6W26834.D
Acq: 3 Nov 2022 5:26 pm

Tgt Ion: 59 Resp: 8780

Ion	Ratio	Lower	Upper
59	100		
41	80.9	29.9	44.9#
43	19.1	8.9	13.3#

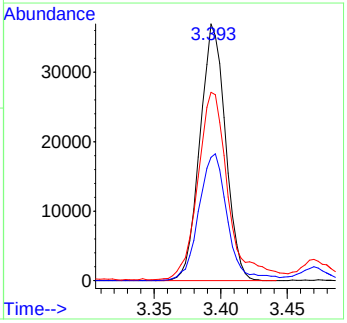


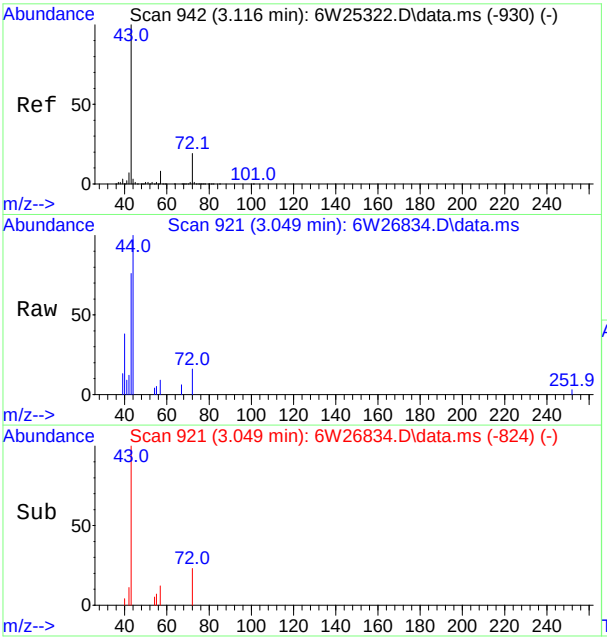


#38
HEXANE
Concen: 4.04 PPBV
RT: 3.393 min Scan# 1028
Delta R.T. -0.003 min
Lab File: 6W26834.D
Acq: 3 Nov 2022 5:26 pm

Tgt Ion: 57 Resp: 49308

Ion	Ratio	Lower	Upper
57	100		
56	55.7	42.0	63.0
41	86.4	66.2	99.2

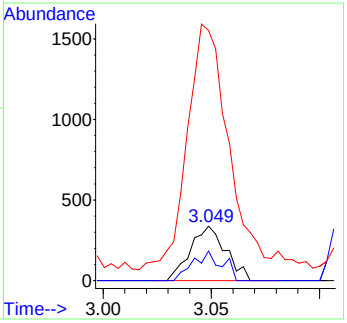


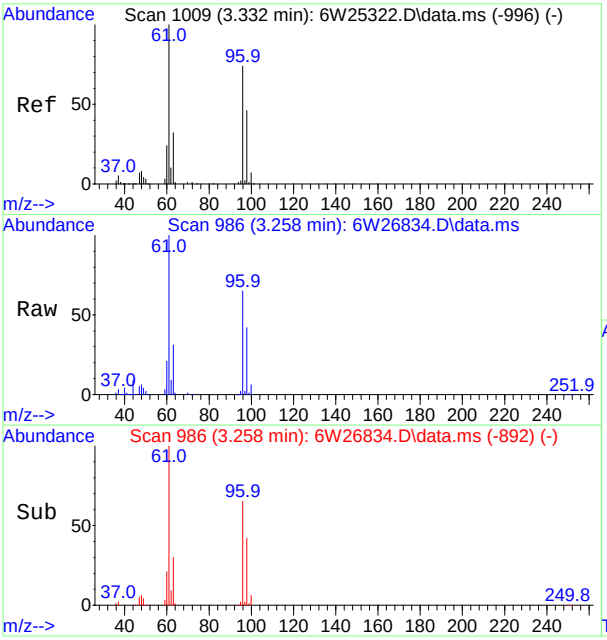


#41
METHYL ETHYL KETONE
Concen: 0.13 PPBV m
RT: 3.049 min Scan# 921
Delta R.T. 0.013 min
Lab File: 6W26834.D
Acq: 3 Nov 2022 5:26 pm

Tgt Ion: 72 Resp: 384

Ion	Ratio	Lower	Upper
72	100		
57	4716.9	22.2	33.4#
43	36748.2	252.6	378.8#

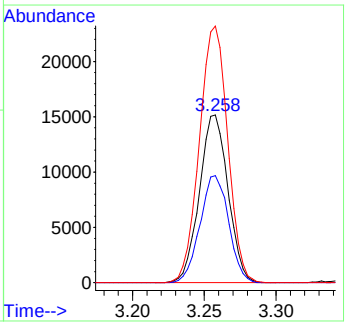


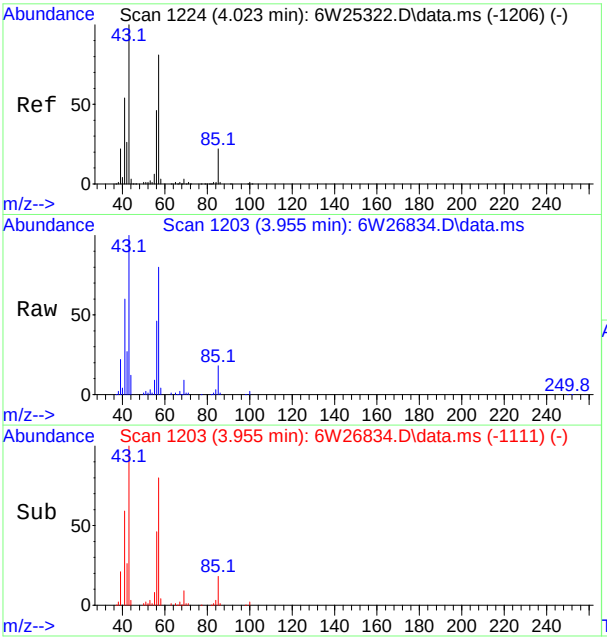


#42
CIS-1,2-DICHLOROETHENE
Concen: 3.18 PPBV
RT: 3.258 min Scan# 986
Delta R.T. 0.003 min
Lab File: 6W26834.D
Acq: 3 Nov 2022 5:26 pm

Tgt Ion: 96 Resp: 20969

Ion	Ratio	Lower	Upper
96	100		
98	63.8	51.1	76.7
61	151.5	93.9	140.9#

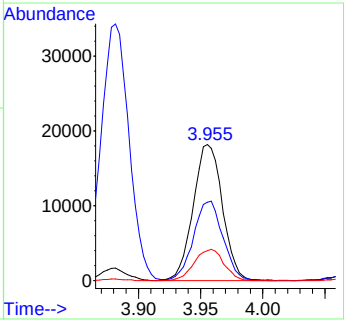


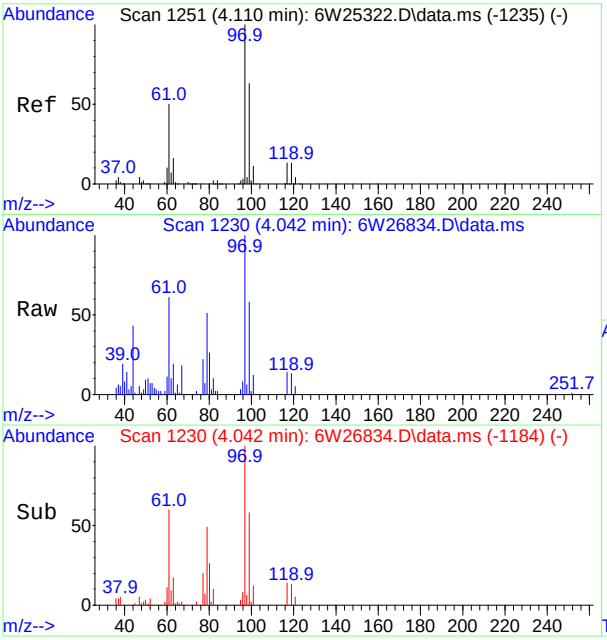


#47
2,4-DIMETHYLPENTANE
Concen: 2.16 PPBV
RT: 3.955 min Scan# 1203
Delta R.T. -0.003 min
Lab File: 6W26834.D
Acq: 3 Nov 2022 5:26 pm

Tgt Ion: 57 Resp: 29831

Ion	Ratio	Lower	Upper
57	100		
56	59.2	43.9	65.9
85	23.4	25.0	37.6#

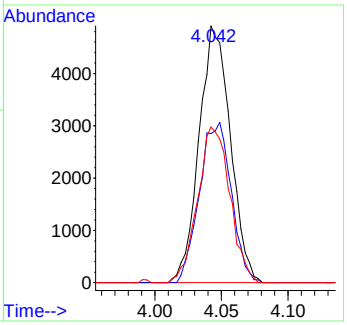


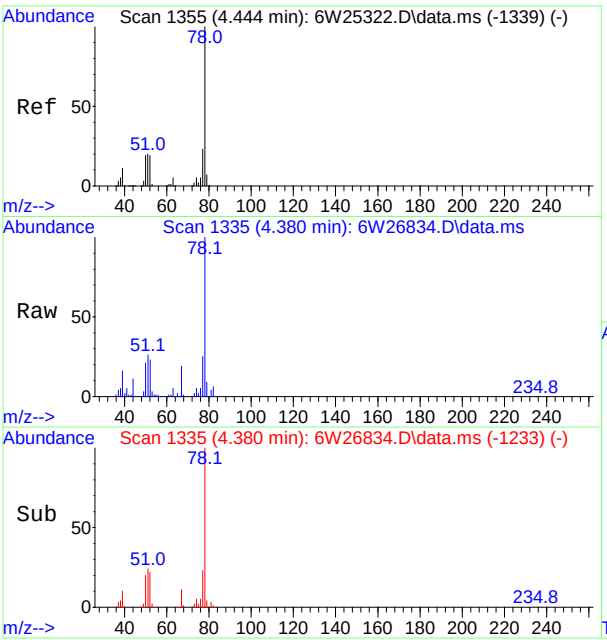


#48
1,1,1-TRICHLOROETHANE
Concen: 0.60 PPBV
RT: 4.042 min Scan# 1230
Delta R.T. -0.003 min
Lab File: 6W26834.D
Acq: 3 Nov 2022 5:26 pm

Tgt Ion: 97 Resp: 8039

Ion	Ratio	Lower	Upper
97	100		
99	63.5	50.8	76.2
61	62.1	34.8	52.2#

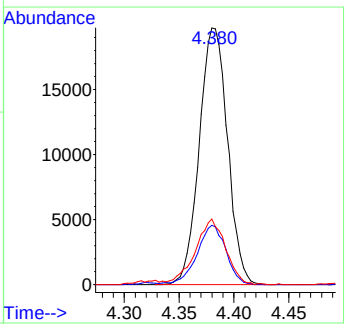


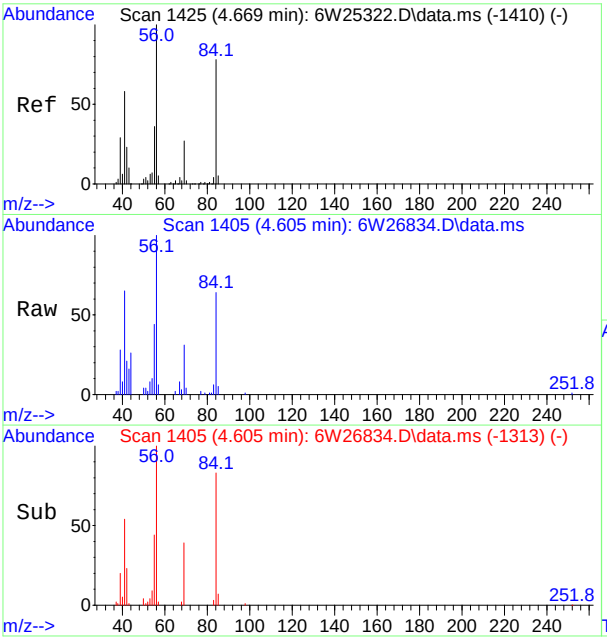


#51
BENZENE
Concen: 1.74 PPBV
RT: 4.380 min Scan# 1335
Delta R.T. -0.003 min
Lab File: 6W26834.D
Acq: 3 Nov 2022 5:26 pm

Tgt Ion: 78 Resp: 35277

Ion	Ratio	Lower	Upper
78	100		
52	23.8	0.0	34.0
51	29.0	0.0	33.5

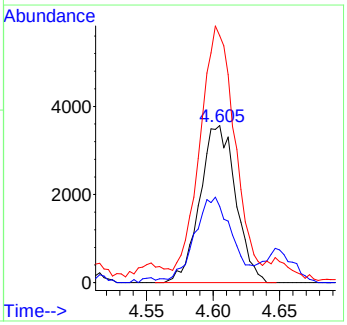


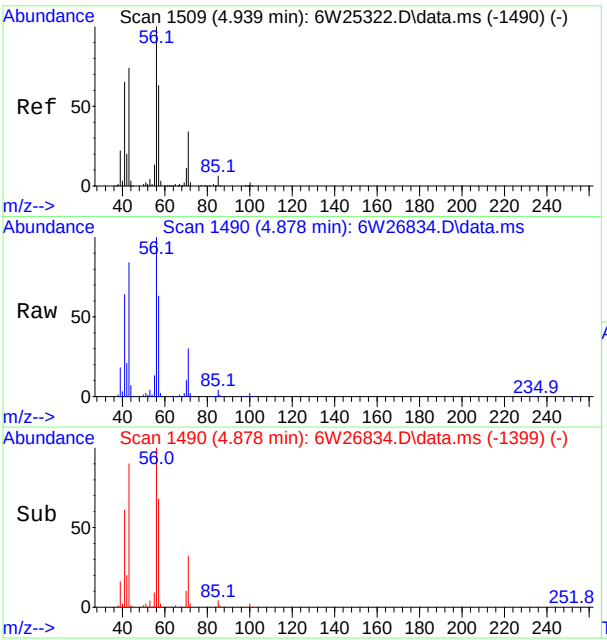


#53
CYCLOHEXANE
Concen: 0.80 PPBV
RT: 4.605 min Scan# 1405
Delta R.T. -0.003 min
Lab File: 6W26834.D
Acq: 3 Nov 2022 5:26 pm

Tgt Ion: 84 Resp: 6667

Ion	Ratio	Lower	Upper
84	100		
69	57.9	28.2	42.2#
56	167.0	88.1	132.1#

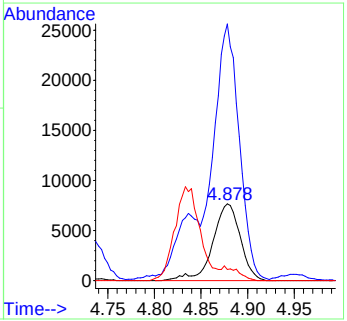


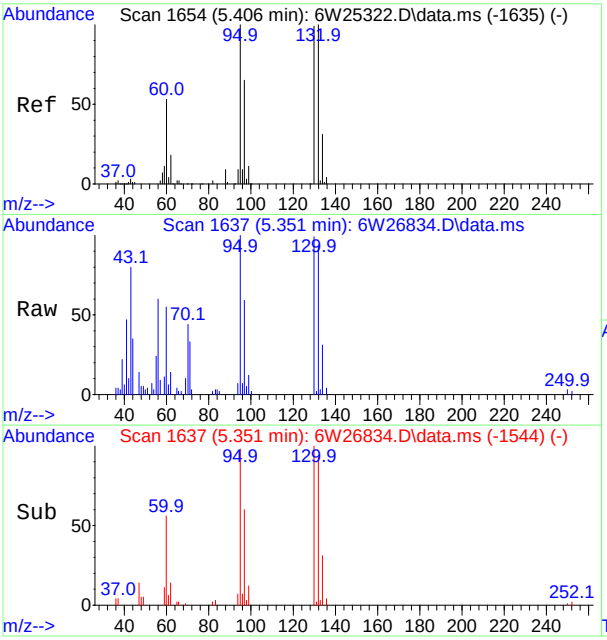


#54
2,3-DIMETHYLPENTANE
Concen: 3.48 PPBV
RT: 4.878 min Scan# 1490
Delta R.T. -0.006 min
Lab File: 6W26834.D
Acq: 3 Nov 2022 5:26 pm

Tgt Ion: 71 Resp: 15777

Ion	Ratio	Lower	Upper
71	100		
56	383.2	188.6	283.0#
85	0.0	13.4	20.0#

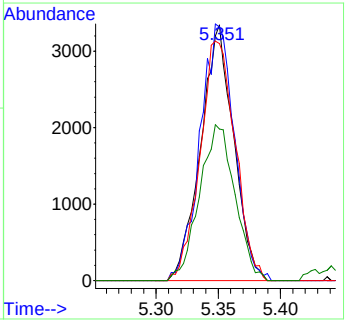


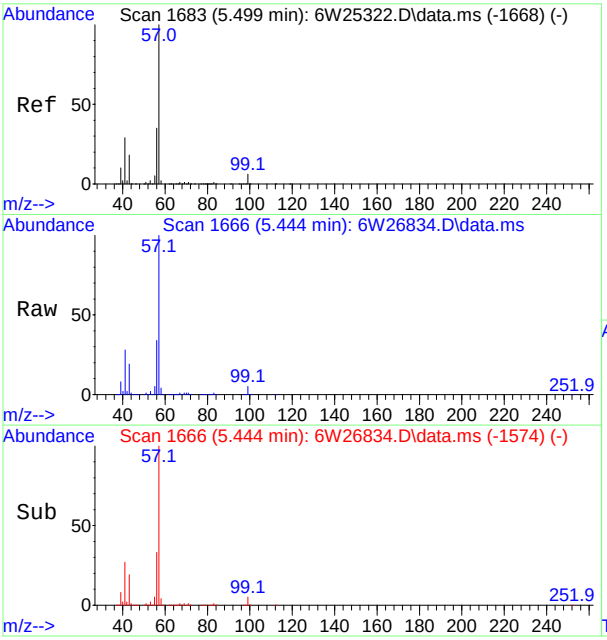


#55
TRICHLOROETHENE
Concen: 0.69 PPBV
RT: 5.351 min Scan# 1637
Delta R.T. 0.000 min
Lab File: 6W26834.D
Acq: 3 Nov 2022 5:26 pm

Tgt Ion: 95 Resp: 6152

Ion	Ratio	Lower	Upper
95	100		
130	105.0	83.2	124.8
132	99.8	79.8	119.6
97	65.7	51.3	76.9

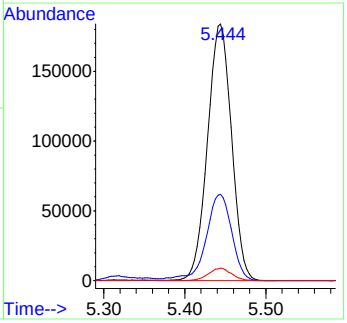


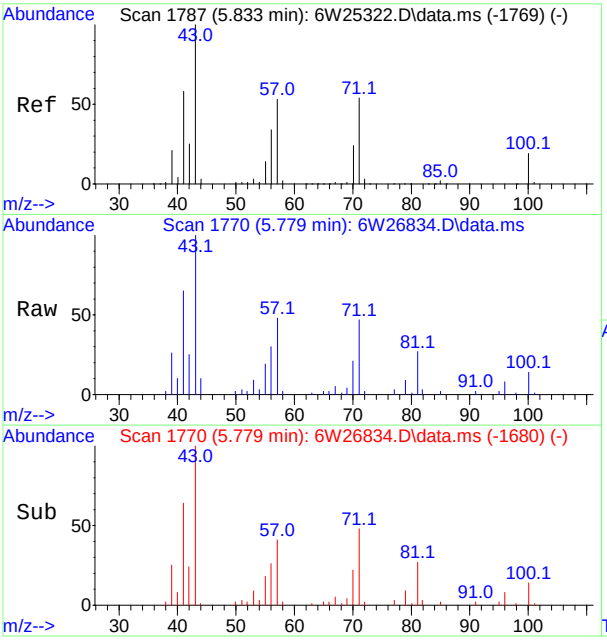


#60
2,2,4-TRIMETHYLPENTANE
Concen: 10.01 PPBV
RT: 5.444 min Scan# 1666
Delta R.T. -0.003 min
Lab File: 6W26834.D
Acq: 3 Nov 2022 5:26 pm

Tgt Ion: 57 Resp: 378437

Ion	Ratio	Lower	Upper
57	100		
56	36.1	26.3	39.5
99	4.7	5.0	7.6#

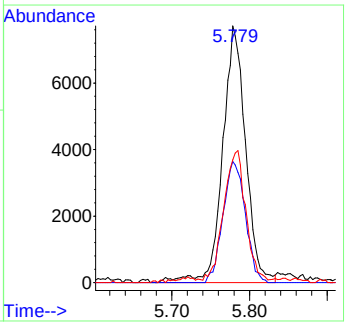


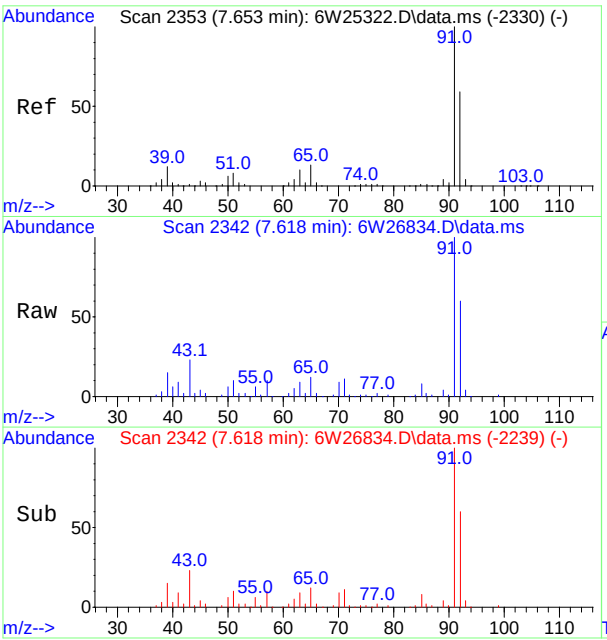


#62
HEPTANE
Concen: 1.04 PPBV
RT: 5.779 min Scan# 1770
Delta R.T. -0.009 min
Lab File: 6W26834.D
Acq: 3 Nov 2022 5:26 pm

Tgt Ion: 43 Resp: 15832

Ion	Ratio	Lower	Upper
43	100		
71	45.8	60.6	90.8#
57	48.4	50.2	75.4#

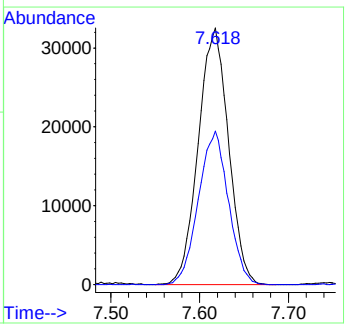


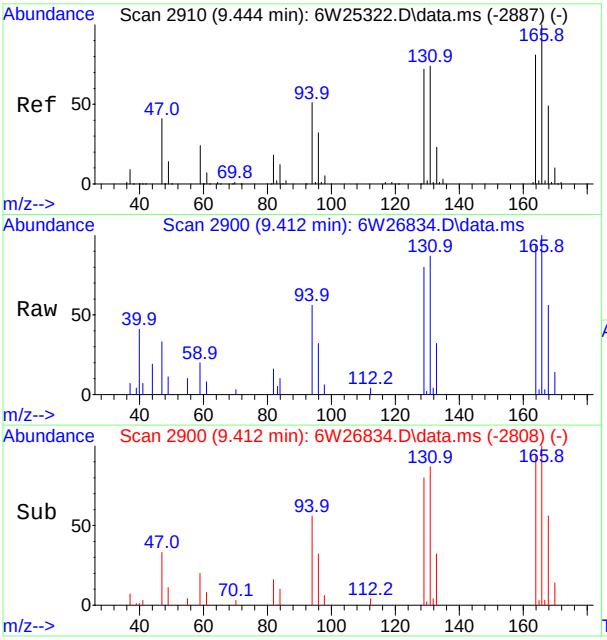


#66
TOLUENE
Concen: 3.05 PPBV
RT: 7.618 min Scan# 2342
Delta R.T. 0.000 min
Lab File: 6W26834.D
Acq: 3 Nov 2022 5:26 pm

Tgt Ion: 91 Resp: 77160

Ion	Ratio	Lower	Upper
91	100		
92	59.2	38.9	78.9

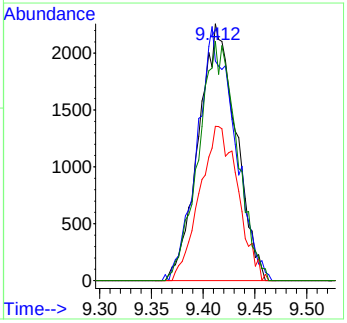


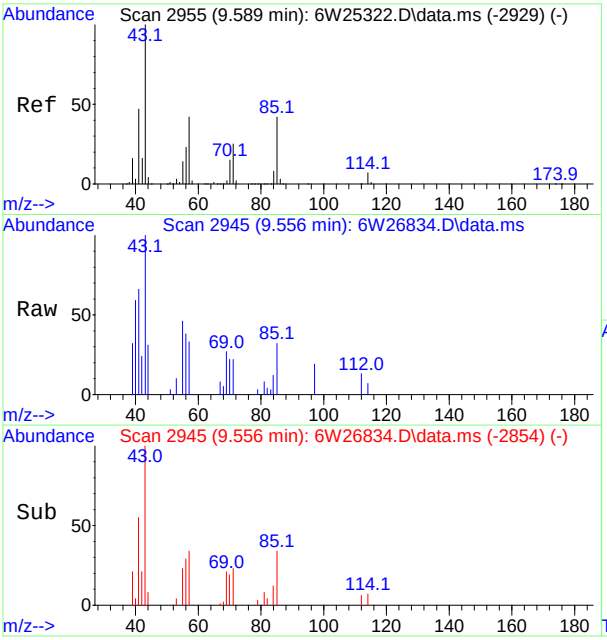


#72
TETRACHLOROETHENE
Concen: 0.65 PPBV
RT: 9.412 min Scan# 2900
Delta R.T. -0.003 min
Lab File: 6W26834.D
Acq: 3 Nov 2022 5:26 pm

Tgt Ion:164 Resp: 5679

Ion	Ratio	Lower	Upper
164	100		
129	98.0	72.0	108.0
168	61.1	48.6	72.8
131	95.2	69.0	103.6

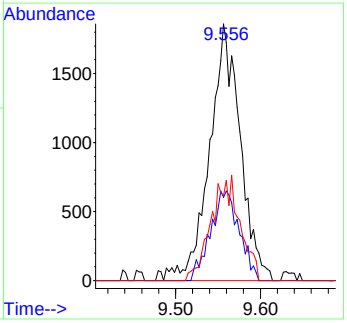


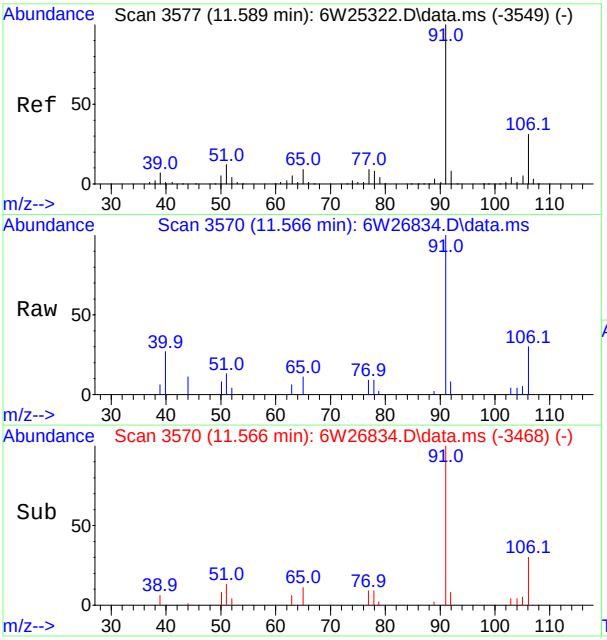


#75
OCTANE
Concen: 0.23 PPBV
RT: 9.556 min Scan# 2945
Delta R.T. -0.006 min
Lab File: 6W26834.D
Acq: 3 Nov 2022 5:26 pm

Tgt Ion: 43 Resp: 4704

Ion	Ratio	Lower	Upper
43	100		
85	32.6	49.8	74.8#
57	38.1	38.8	58.2#

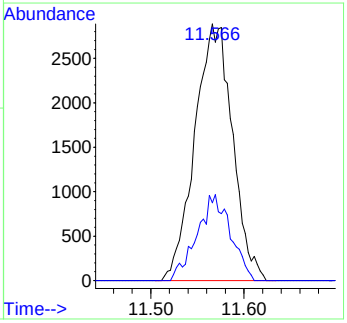


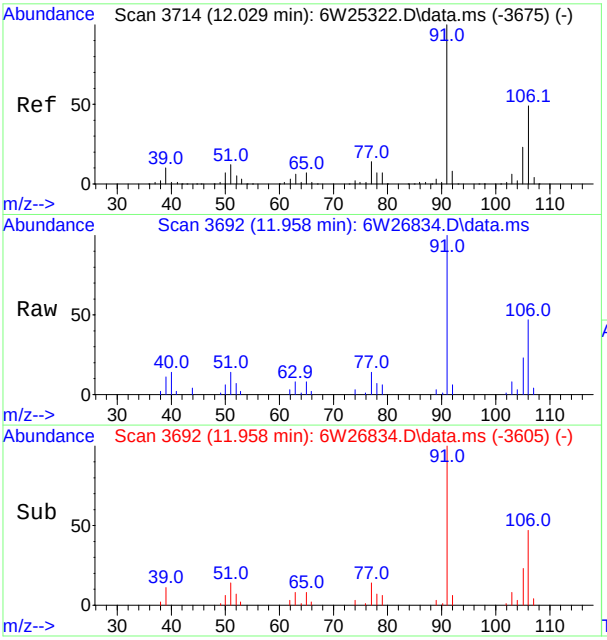


#79
ETHYLBENZENE
Concen: 0.25 PPBV
RT: 11.566 min Scan# 3570
Delta R.T. -0.003 min
Lab File: 6W26834.D
Acq: 3 Nov 2022 5:26 pm

Tgt Ion: 91 Resp: 8113

Ion	Ratio	Lower	Upper
91	100		
106	29.8	11.7	51.7

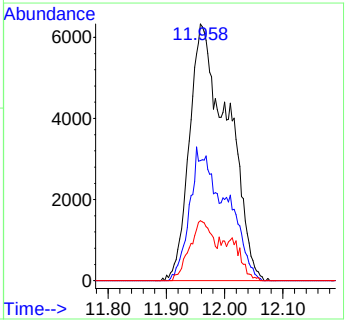


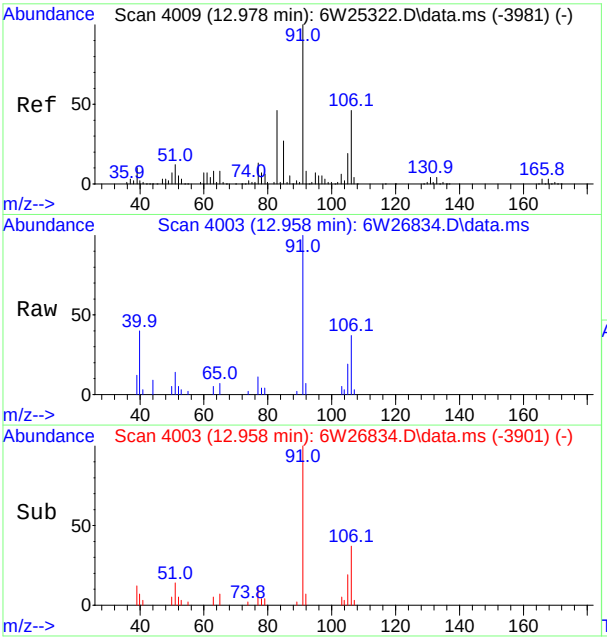


#80
M,P-XYLENE
Concen: 1.21 PPBV
RT: 11.958 min Scan# 3692
Delta R.T. -0.051 min
Lab File: 6W26834.D
Acq: 3 Nov 2022 5:26 pm

Tgt Ion: 91 Resp: 28938

Ion	Ratio	Lower	Upper
91	100		
106	48.9	31.5	71.5
105	22.9	3.6	43.6

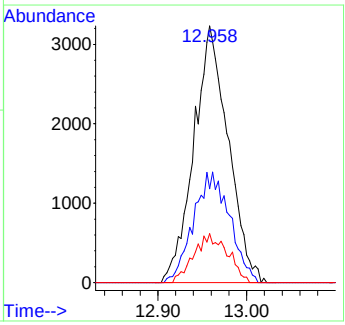


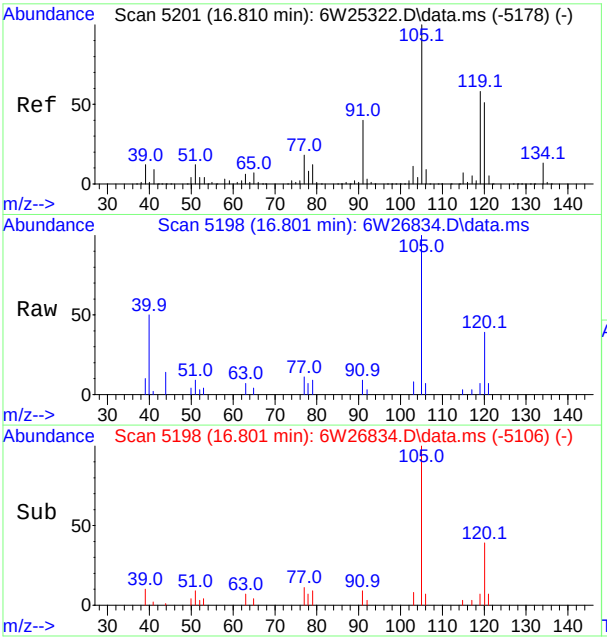


#81
O-XYLENE
Concen: 0.37 PPBV
RT: 12.958 min Scan# 4003
Delta R.T. -0.003 min
Lab File: 6W26834.D
Acq: 3 Nov 2022 5:26 pm

Tgt Ion: 91 Resp: 8713

Ion	Ratio	Lower	Upper
91	100		
106	36.6	39.1	58.7#
105	19.1	15.7	23.5

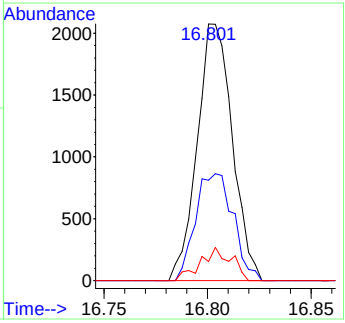




#96
1,2,4-TRIMETHYLBENZENE
Concen: 0.10 PPBV
RT: 16.801 min Scan# 5198
Delta R.T. -0.003 min
Lab File: 6W26834.D
Acq: 3 Nov 2022 5:26 pm

Tgt Ion:105 Resp: 2452

Ion	Ratio	Lower	Upper
105	100		
120	44.7	45.4	68.2#
119	0.0	90.6	135.8#



Manual Integration Approval Summary

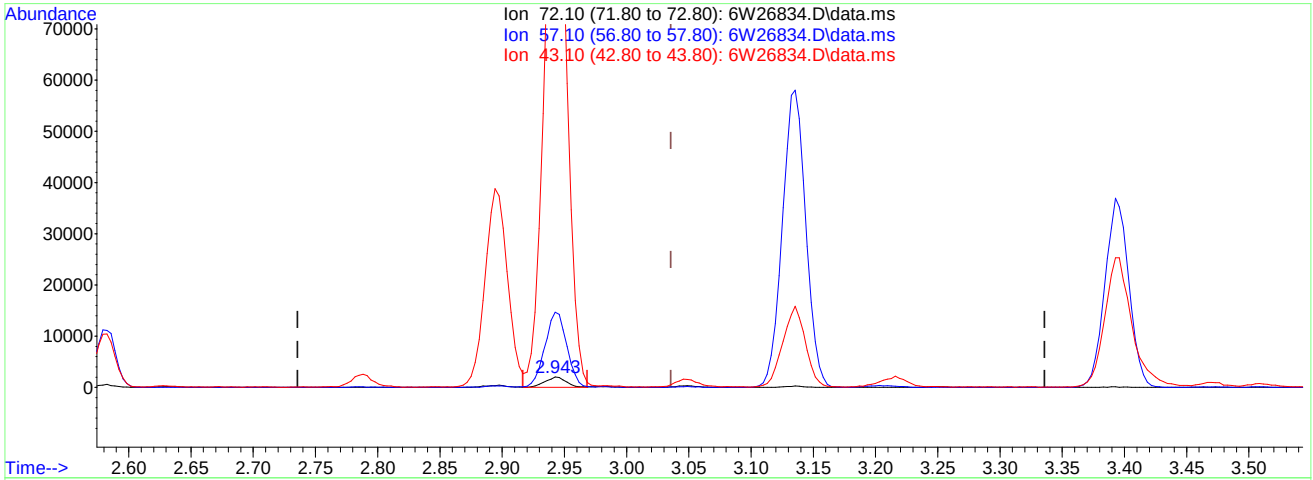
Sample Number: JD53652-1DUP
Lab FileID: 6W26834.D
Injection Time: 11/03/22 17:26
Method: TO-15
Analyst approved: 11/07/22 16:32 William Cruser
Supervisor approved: 11/07/22 17:15 Kanya Veerawat

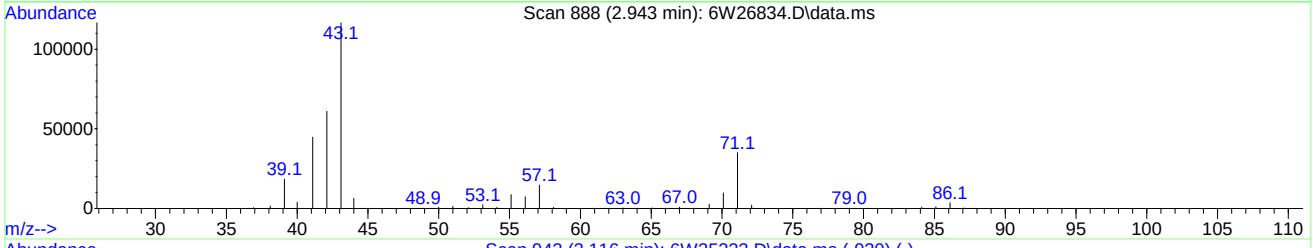
Parameter	CAS	Sig#	R.T. (min.)	Reason
Methyl ethyl ketone	78-93-3		3.05	Missed peak

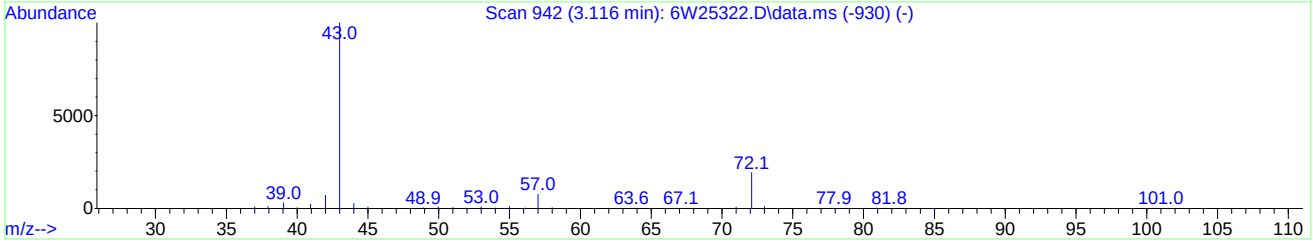
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26834.D
Acq On : 3 Nov 2022 5:26 pm
Operator : thomash
Sample : jd53652-1dup
Misc : MS63088,V6W1137,100,,,,1
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Nov 04 14:18:02 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration







TIC: 6W26834.D\data.ms

(41) METHYL ETHYL KETONE (T)

2.943min (-0.093) 0.78PPBV

response 2382

Ion	Exp%	Act%
72.10	100	100
57.10	27.80	760.41#
43.10	315.70	5924.14#
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 11/08/22 16:00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26872.D
Acq On : 4 Nov 2022 3:00 pm
Operator : thomash
Sample : jd54423-15dup
Misc : MS63483,V6W1138,100,,,,1
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Nov 08 12:06:37 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration

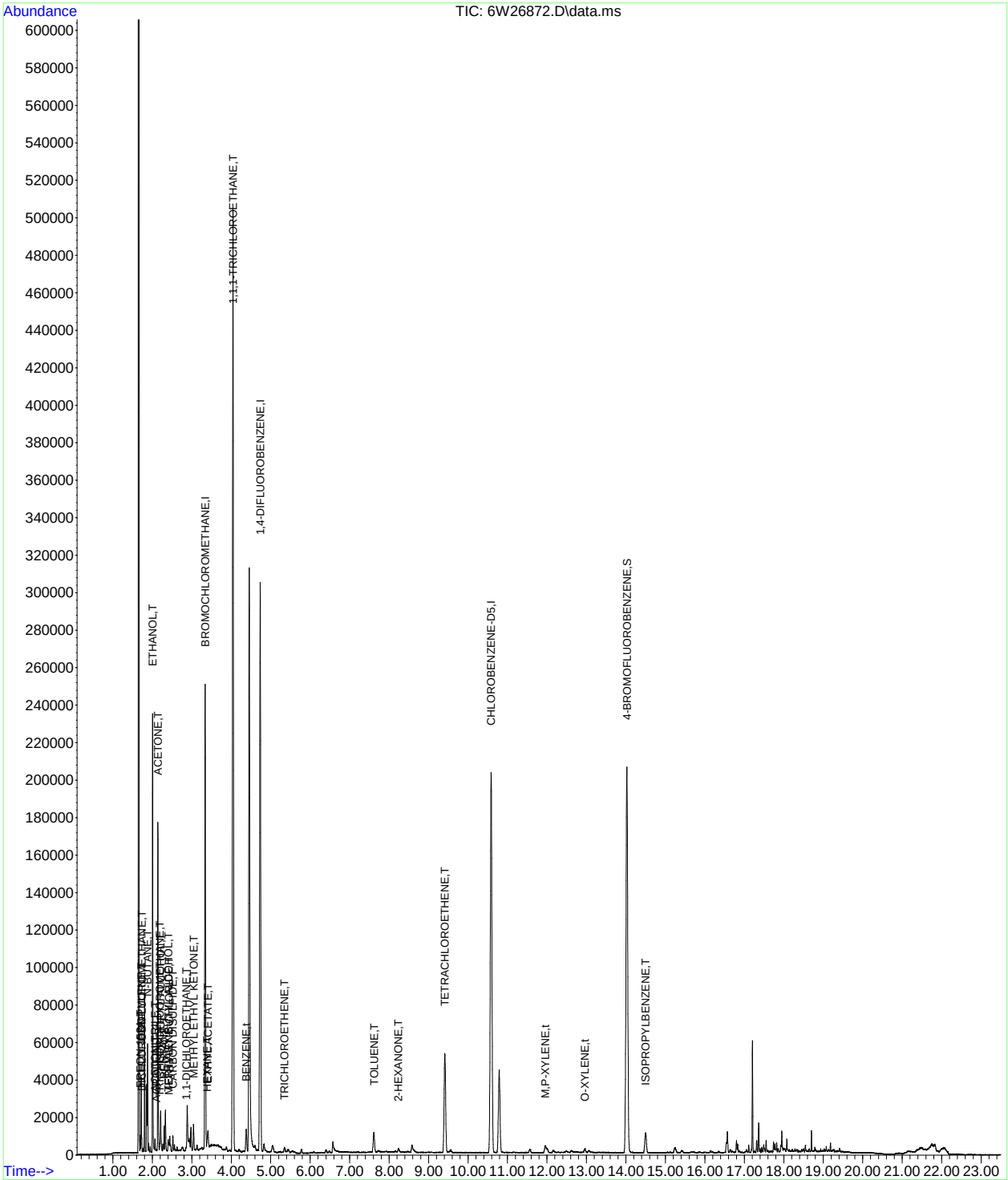
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	3.341	128	45230	10.00	PPBV	# 0.00
52) 1,4-DIFLUOROBENZENE	4.734	114	226403	10.00	PPBV	0.00
76) CHLOROBENZENE-D5	10.585	117	182016	10.00	PPBV	0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	14.026	95	125430	9.87	PPBV	0.00
Target Compounds						Qvalue
3) FREON 152A	1.695	65	1475	0.38	PPBV	# 53
6) DICHLORODIFLUOROMETHANE	1.734	85	2509	0.18	PPBV	# 90
7) PROPYLENE	1.718	41	5634	0.97	PPBV	# 75
13) N-BUTANE	1.878	43	21705	1.90	PPBV	94
17) ACETONITRILE	2.068	41	2738	0.41	PPBV	# 95
18) ACROLEIN	2.100	56	440m	0.16	PPBV	
21) TRICHLOROFLUOROMETHANE	2.190	101	1610	0.11	PPBV	# 92
22) ISOPROPYL ALCOHOL	2.210	45	12997	0.87	PPBV	# 90
23) ACETONE	2.139	58	31416	9.38	PPBV	# 52
24) PENTANE	2.300	42	2479	0.31	PPBV	# 95
27) CARBON DISULFIDE	2.521	76	3077	0.17	PPBV	# 58
28) ETHANOL	2.007	45	112346	32.70	PPBV	98
31) METHYLENE CHLORIDE	2.422	84	815	0.14	PPBV	# 22
35) TERTIARY BUTYL ALCOHOL	2.402	59	1843	0.15	PPBV	# 42
38) HEXANE	3.390	57	1549	0.13	PPBV	# 81
40) 1,1-DICHLOROETHANE	2.856	63	1243	0.10	PPBV	# 50
41) METHYL ETHYL KETONE	3.046	72	2324	0.76	PPBV	# 1
44) ETHYL ACETATE	3.412	61	954	0.40	PPBV	# 28
48) 1,1,1-TRICHLOROETHANE	4.045	97	246902	18.63	PPBV	# 91
51) BENZENE	4.380	78	8630	0.43	PPBV	78
55) TRICHLOROETHENE	5.344	95	932	0.10	PPBV	# 86
66) TOLUENE	7.618	91	10094	0.40	PPBV	98
70) 2-HEXANONE	8.232	58	772	0.11	PPBV	# 1
72) TETRACHLOROETHENE	9.412	164	18679	2.16	PPBV	94
80) M,P-XYLENE	11.955	91	6069	0.26	PPBV	91
81) O-XYLENE	12.958	91	2173	0.09	PPBV	# 78
88) ISOPROPYLBENZENE	14.498	105	12485	0.39	PPBV	96

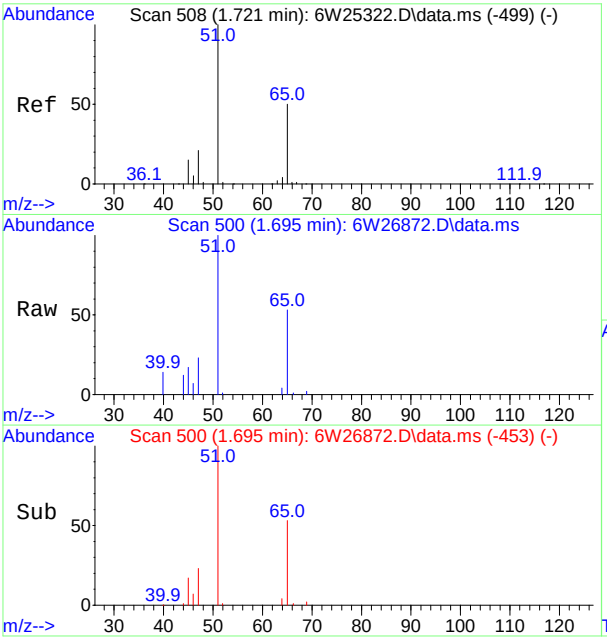
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26872.D
Acq On : 4 Nov 2022 3:00 pm
Operator : thomash
Sample : jd54423-15dup
Misc : MS63483,V6W1138,100,,,,1
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Nov 08 12:06:37 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration

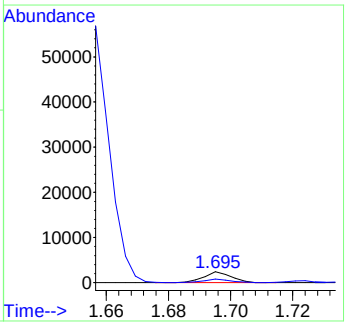


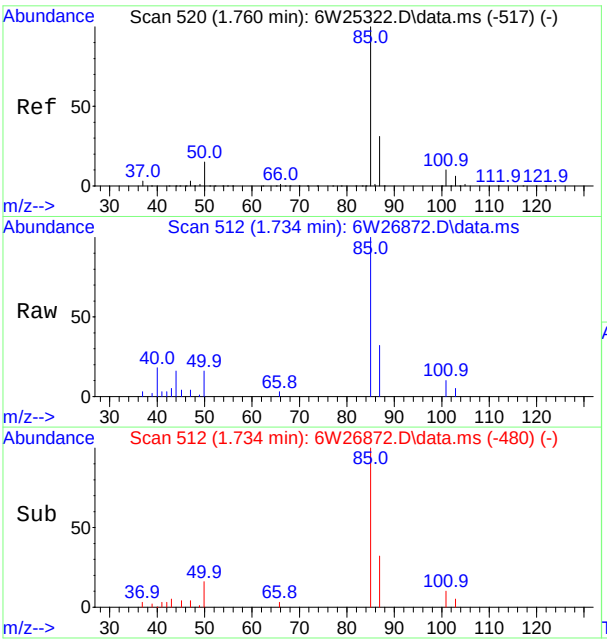


#3
FREON 152A
Concen: 0.38 PPBV
RT: 1.695 min Scan# 500
Delta R.T. 0.000 min
Lab File: 6W26872.D
Acq: 4 Nov 2022 3:00 pm

Tgt Ion: 65 Resp: 1475

Ion	Ratio	Lower	Upper
65	100		
45	0.0	18.3	27.5#

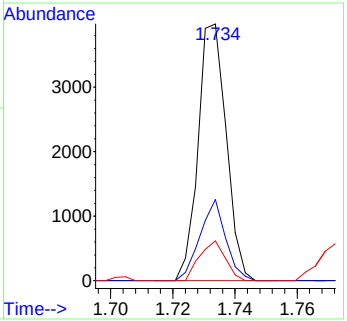


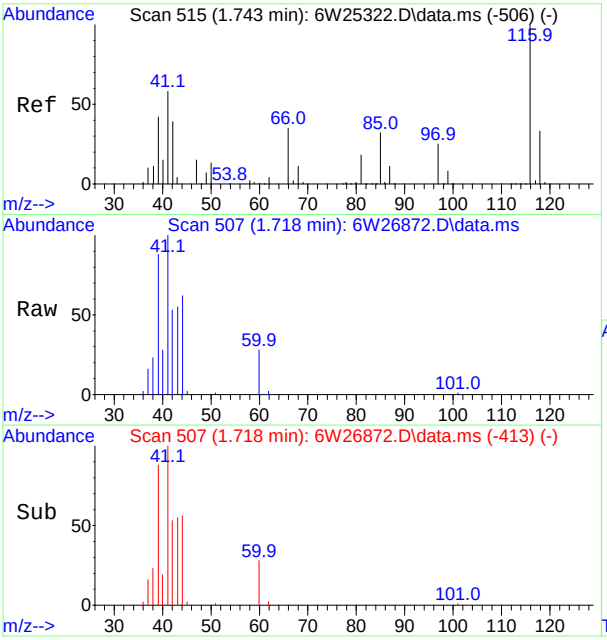


#6
DICHLORODIFLUOROMETHANE
Concen: 0.18 PPBV
RT: 1.734 min Scan# 512
Delta R.T. 0.003 min
Lab File: 6W26872.D
Acq: 4 Nov 2022 3:00 pm

Tgt Ion: 85 Resp: 2509

Ion	Ratio	Lower	Upper
85	100		
87	28.9	25.8	38.6
50	0.0	7.4	11.2#

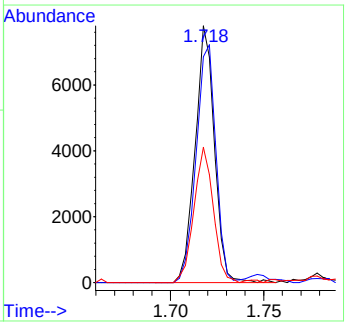


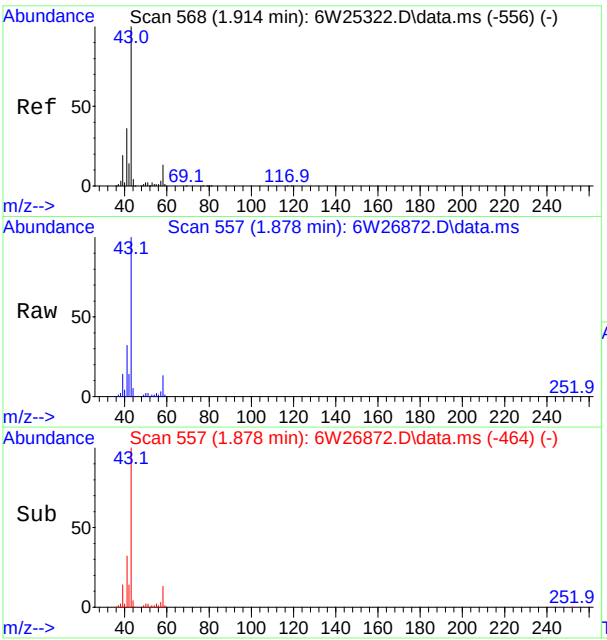


#7
PROPYLENE
Concen: 0.97 PPBV
RT: 1.718 min Scan# 507
Delta R.T. 0.003 min
Lab File: 6W26872.D
Acq: 4 Nov 2022 3:00 pm

Tgt Ion: 41 Resp: 5634

Ion	Ratio	Lower	Upper
41	100		
39	94.5	54.6	81.8#
42	53.4	53.8	80.6#

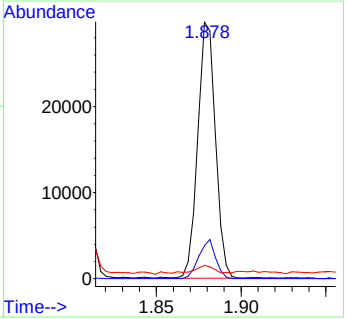


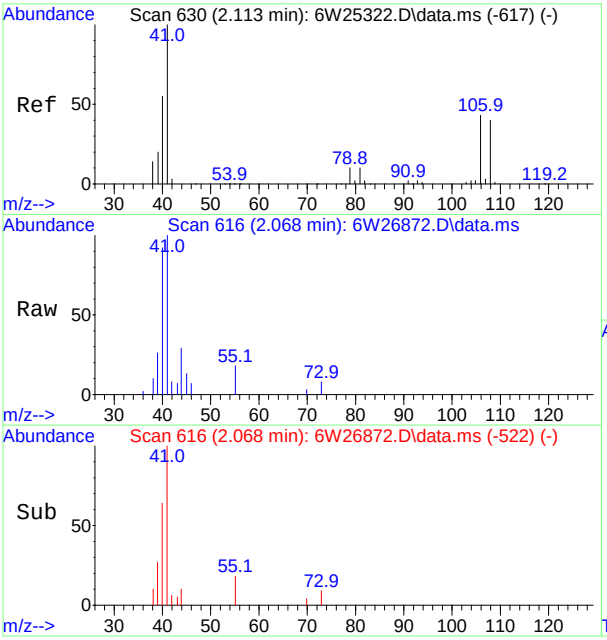


#13
N-BUTANE
Concen: 1.90 PPBV
RT: 1.878 min Scan# 557
Delta R.T. 0.000 min
Lab File: 6W26872.D
Acq: 4 Nov 2022 3:00 pm

Tgt Ion: 43 Resp: 21705

Ion	Ratio	Lower	Upper
43	100		
58	14.3	14.2	21.2
44	4.8	4.2	6.4

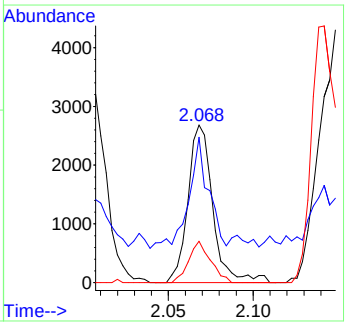


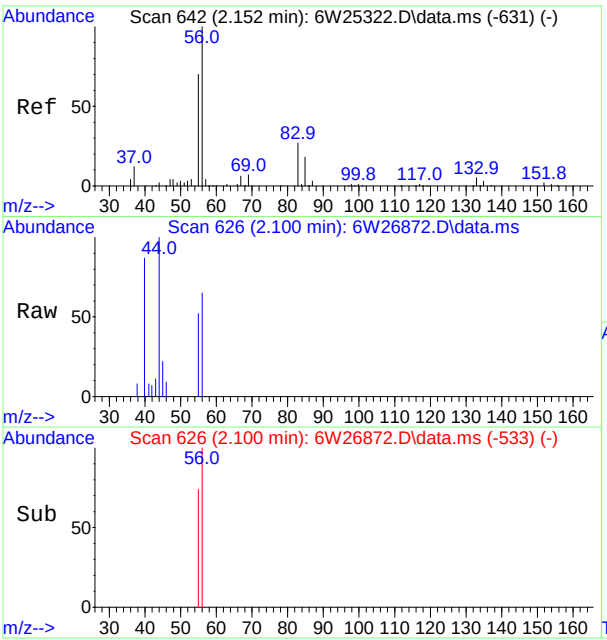


#17
ACETONITRILE
Concen: 0.41 PPBV
RT: 2.068 min Scan# 616
Delta R.T. 0.003 min
Lab File: 6W26872.D
Acq: 4 Nov 2022 3:00 pm

Tgt Ion: 41 Resp: 2738

Ion	Ratio	Lower	Upper
41	100		
40	50.4	41.6	62.4
39	23.2	14.2	21.4#

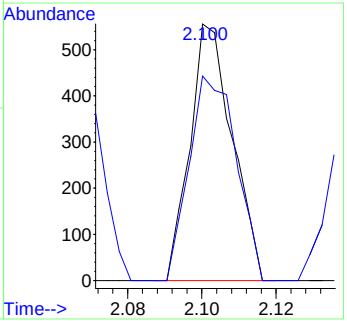


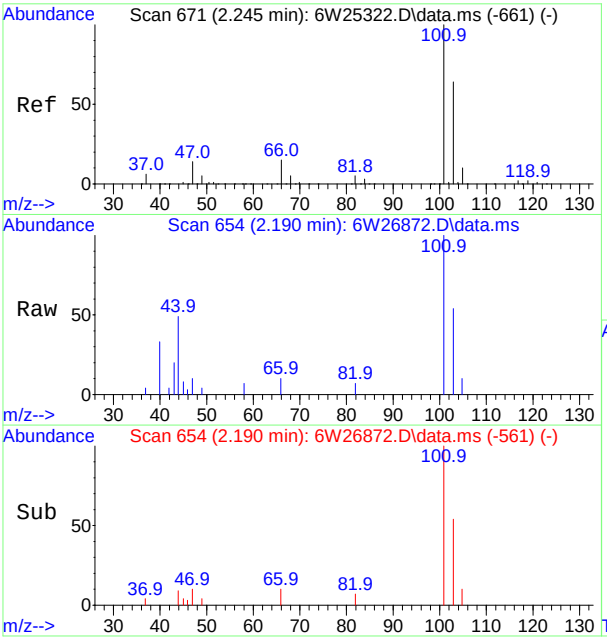


#18
ACROLEIN
Concen: 0.16 PPBV m
RT: 2.100 min Scan# 626
Delta R.T. 0.000 min
Lab File: 6W26872.D
Acq: 4 Nov 2022 3:00 pm

Tgt Ion: 56 Resp: 440

Ion	Ratio	Lower	Upper
56	100		
55	164.3	56.0	84.0#

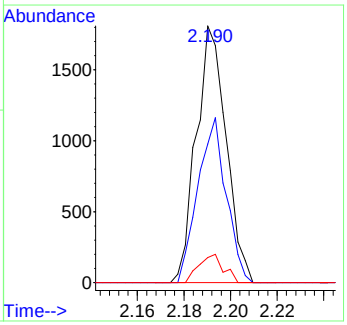


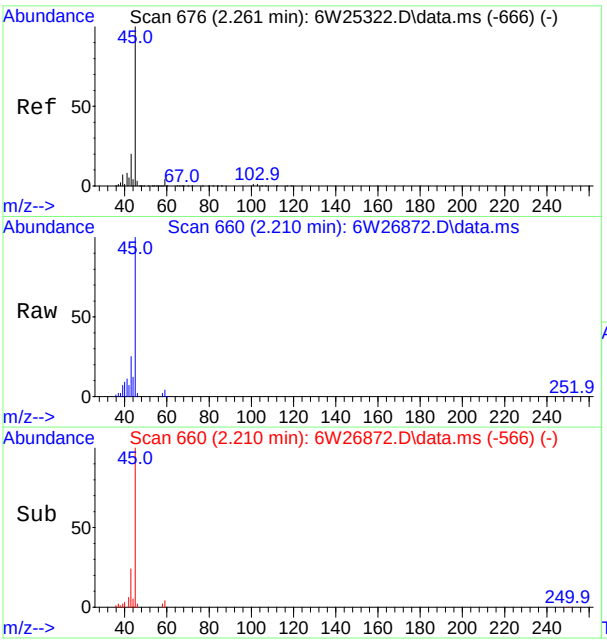


#21
TRICHLOROFLUOROMETHANE
Concen: 0.11 PPBV
RT: 2.190 min Scan# 654
Delta R.T. 0.000 min
Lab File: 6W26872.D
Acq: 4 Nov 2022 3:00 pm

Tgt Ion:101 Resp: 1610

Ion	Ratio	Lower	Upper
101	100		
103	60.7	51.8	77.6
105	0.0	8.4	12.6#

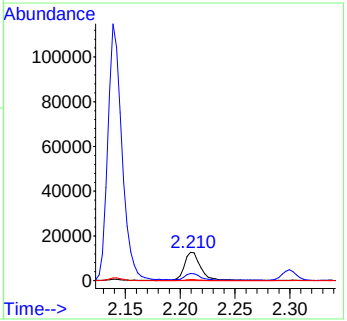


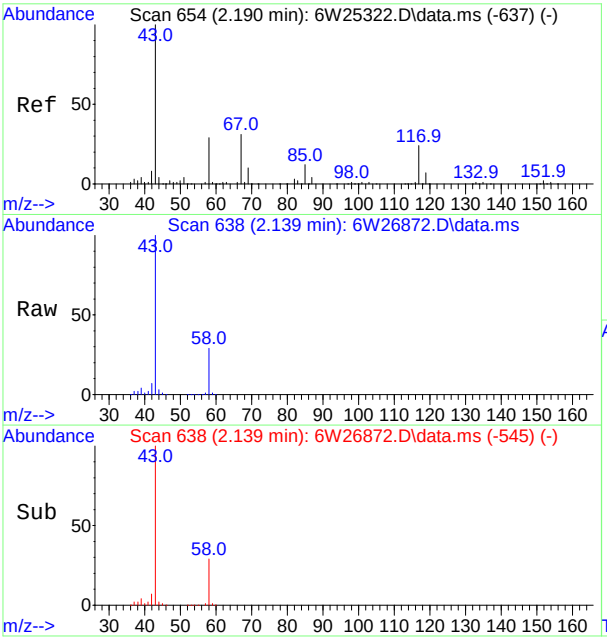


#22
ISOPROPYL ALCOHOL
Concen: 0.87 PPBV
RT: 2.210 min Scan# 660
Delta R.T. 0.003 min
Lab File: 6W26872.D
Acq: 4 Nov 2022 3:00 pm

Tgt Ion: 45 Resp: 12997

Ion	Ratio	Lower	Upper
45	100		
43	23.0	15.5	23.3
59	0.0	4.1	6.1#

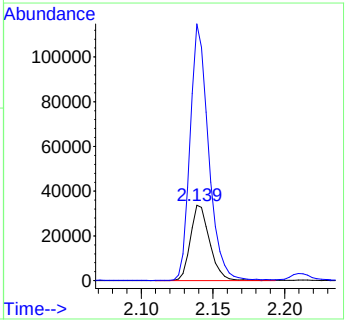


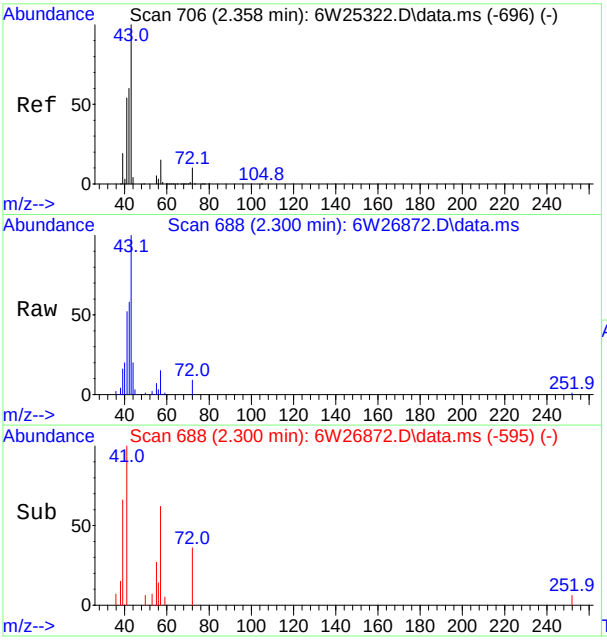


#23
ACETONE
Concen: 9.38 PPBV
RT: 2.139 min Scan# 638
Delta R.T. 0.000 min
Lab File: 6W26872.D
Acq: 4 Nov 2022 3:00 pm

Tgt Ion: 58 Resp: 31416

Ion	Ratio	Lower	Upper
58	100		
43	327.0	195.9	293.9#

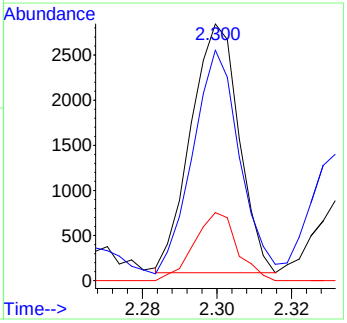


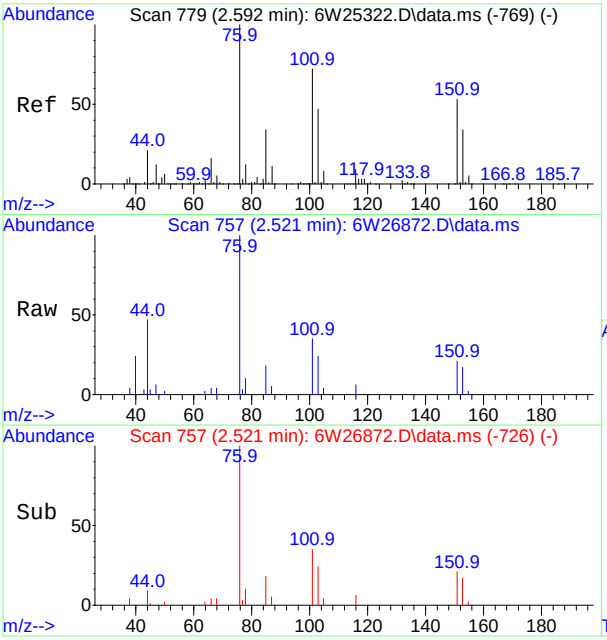


#24
PENTANE
Concen: 0.31 PPBV
RT: 2.300 min Scan# 688
Delta R.T. 0.000 min
Lab File: 6W26872.D
Acq: 4 Nov 2022 3:00 pm

Tgt Ion: 42 Resp: 2479

Ion	Ratio	Lower	Upper
42	100		
41	87.5	69.5	104.3
57	24.4	27.4	41.0#

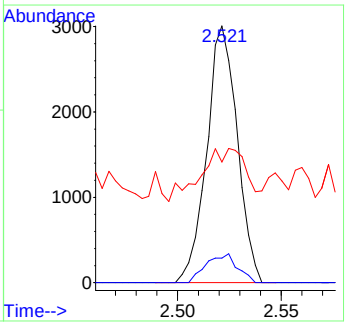


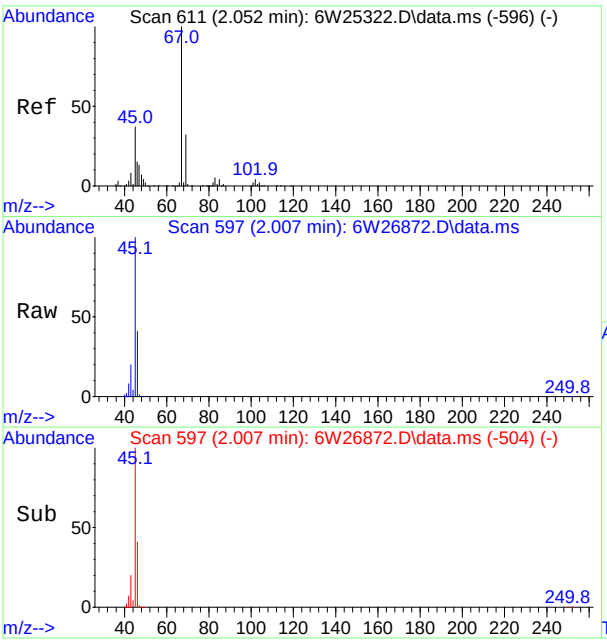


#27
CARBON DISULFIDE
Concen: 0.17 PPBV
RT: 2.521 min Scan# 757
Delta R.T. 0.000 min
Lab File: 6W26872.D
Acq: 4 Nov 2022 3:00 pm

Tgt Ion: 76 Resp: 3077

Ion	Ratio	Lower	Upper
76	100		
78	0.0	8.6	13.0#
44	30.2	7.2	10.8#

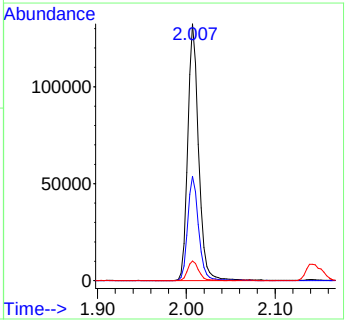


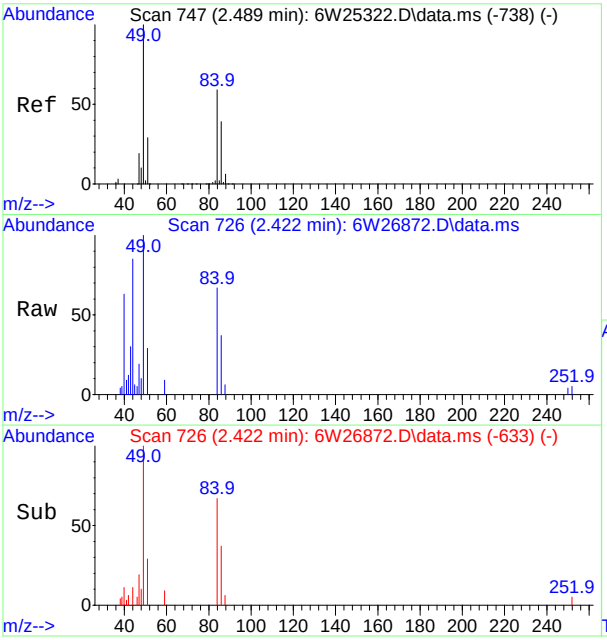


#28
ETHANOL
Concen: 32.70 PPBV
RT: 2.007 min Scan# 597
Delta R.T. 0.000 min
Lab File: 6W26872.D
Acq: 4 Nov 2022 3:00 pm

Tgt Ion: 45 Resp: 112346

Ion	Ratio	Lower	Upper
45	100		
46	41.0	34.1	51.1
42	8.0	6.1	9.1

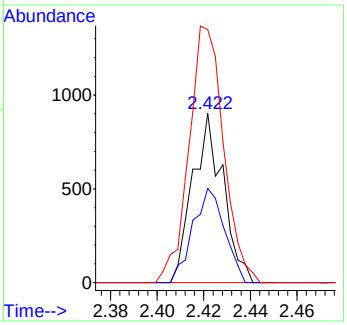


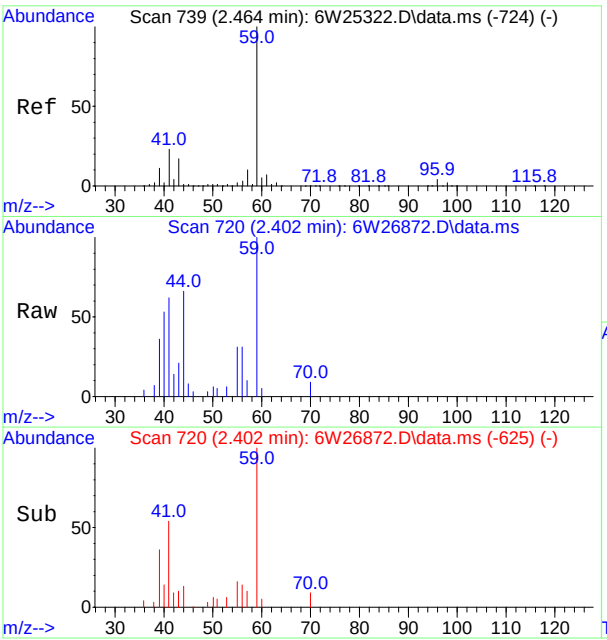


#31
METHYLENE CHLORIDE
Concen: 0.14 PPBV
RT: 2.422 min Scan# 726
Delta R.T. 0.000 min
Lab File: 6W26872.D
Acq: 4 Nov 2022 3:00 pm

Tgt Ion: 84 Resp: 815

Ion	Ratio	Lower	Upper
84	100		
86	0.0	50.9	76.3#
49	173.3	78.6	118.0#

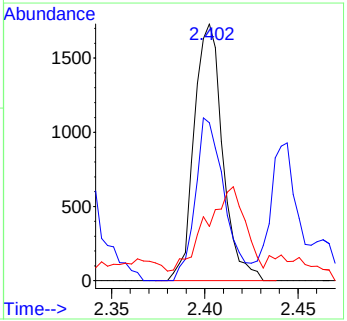


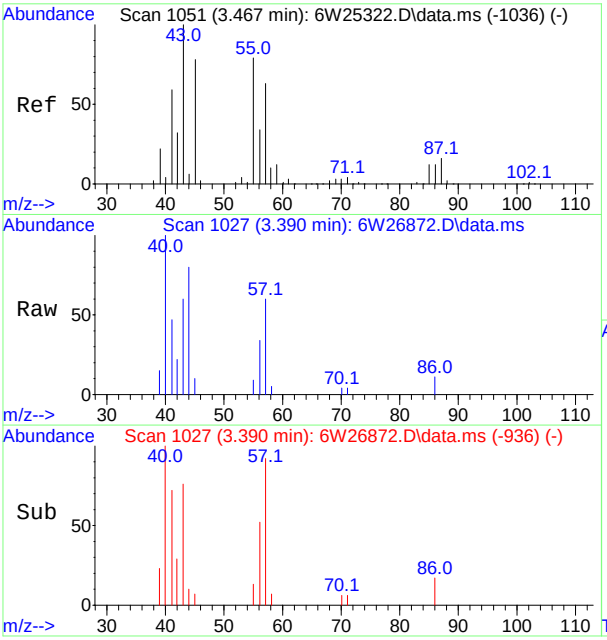


#35
TERTIARY BUTYL ALCOHOL
Concen: 0.15 PPBV
RT: 2.402 min Scan# 720
Delta R.T. 0.007 min
Lab File: 6W26872.D
Acq: 4 Nov 2022 3:00 pm

Tgt Ion: 59 Resp: 1843

Ion	Ratio	Lower	Upper
59	100		
41	65.0	29.9	44.9#
43	47.7	8.9	13.3#

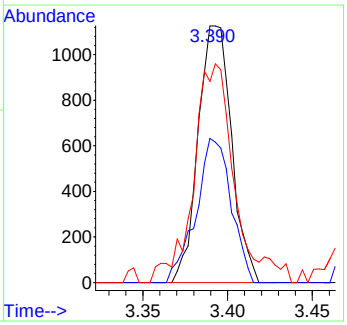


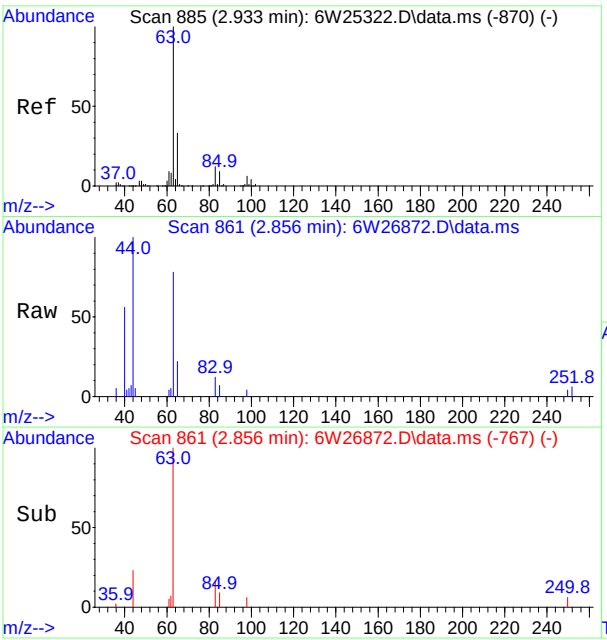


#38
HEXANE
Concen: 0.13 PPBV
RT: 3.390 min Scan# 1027
Delta R.T. -0.006 min
Lab File: 6W26872.D
Acq: 4 Nov 2022 3:00 pm

Tgt Ion: 57 Resp: 1549

Ion	Ratio	Lower	Upper
57	100		
56	58.9	42.0	63.0
41	105.0	66.2	99.2#

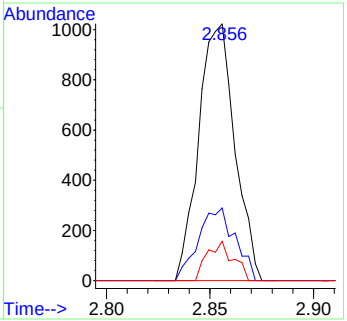


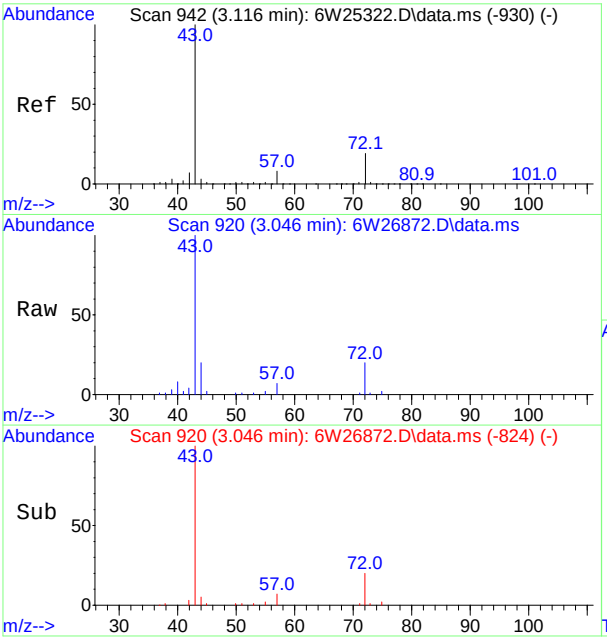


#40
1,1-DICHLOROETHANE
Concen: 0.10 PPBV
RT: 2.856 min Scan# 861
Delta R.T. 0.003 min
Lab File: 6W26872.D
Acq: 4 Nov 2022 3:00 pm

Tgt Ion: 63 Resp: 1243

Ion	Ratio	Lower	Upper
63	100		
65	0.0	25.3	37.9#
83	0.0	10.6	16.0#

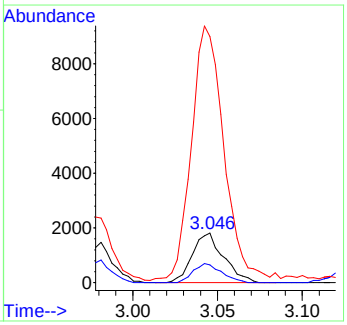


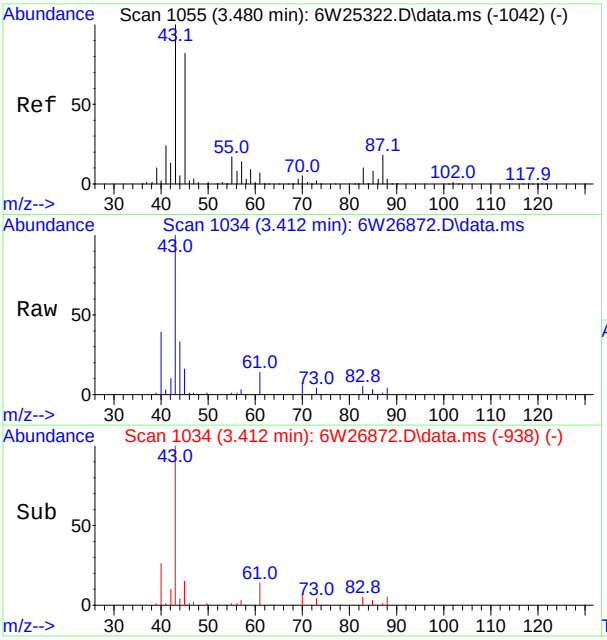


#41
METHYL ETHYL KETONE
Concen: 0.76 PPBV
RT: 3.046 min Scan# 920
Delta R.T. 0.010 min
Lab File: 6W26872.D
Acq: 4 Nov 2022 3:00 pm

Tgt Ion: 72 Resp: 2324

Ion	Ratio	Lower	Upper
72	100		
57	34.8	22.2	33.4#
43	539.2	252.6	378.8#

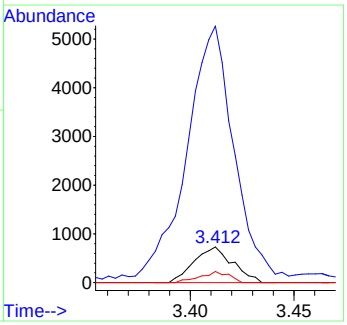


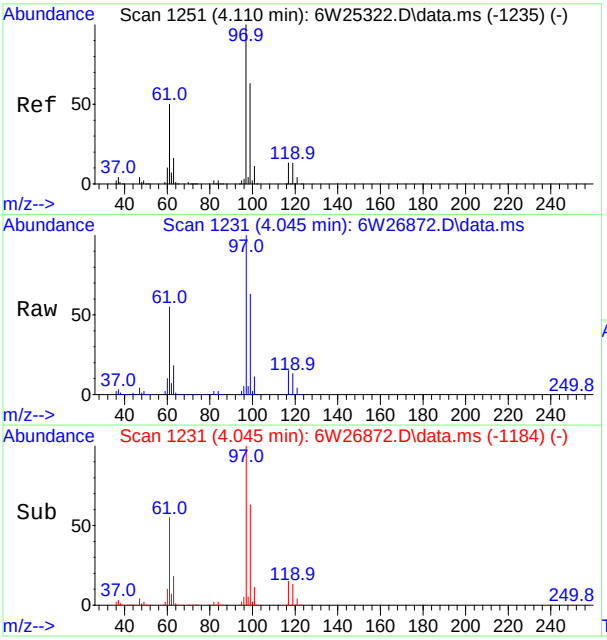


#44
ETHYL ACETATE
Concen: 0.40 PPBV
RT: 3.412 min Scan# 1034
Delta R.T. 0.010 min
Lab File: 6W26872.D
Acq: 4 Nov 2022 3:00 pm

Tgt Ion: 61 Resp: 954

Ion	Ratio	Lower	Upper
61	100		
43	861.8	986.2	1479.2#
88	0.0	38.8	58.2#

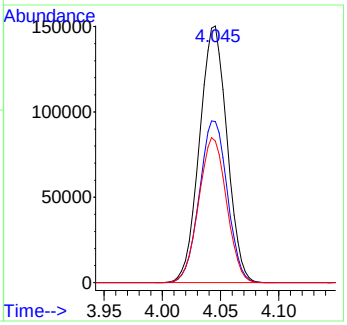


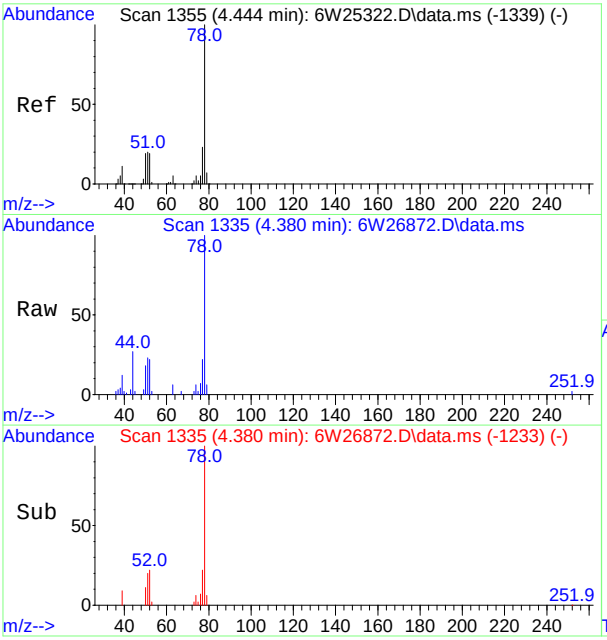


#48
1,1,1-TRICHLOROETHANE
Concen: 18.63 PPBV
RT: 4.045 min Scan# 1231
Delta R.T. 0.000 min
Lab File: 6W26872.D
Acq: 4 Nov 2022 3:00 pm

Tgt Ion: 97 Resp: 246902

Ion	Ratio	Lower	Upper
97	100		
99	64.0	50.8	76.2
61	57.1	34.8	52.2#

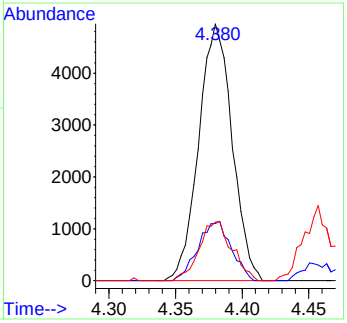


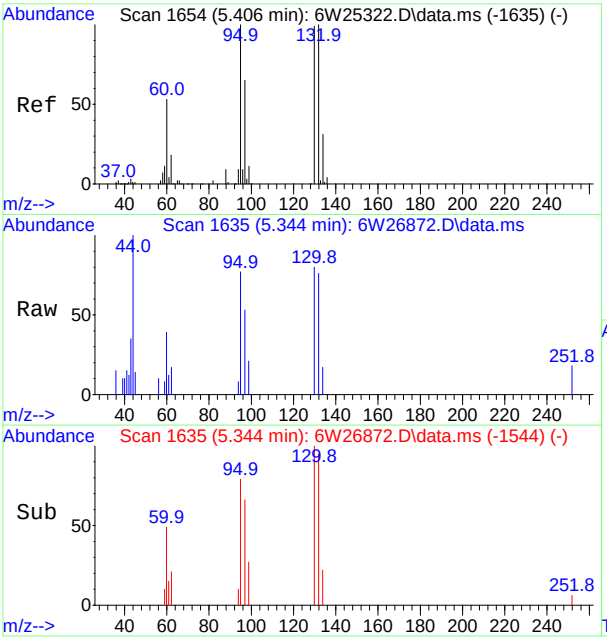


#51
BENZENE
Concen: 0.43 PPBV
RT: 4.380 min Scan# 1335
Delta R.T. -0.003 min
Lab File: 6W26872.D
Acq: 4 Nov 2022 3:00 pm

Tgt Ion: 78 Resp: 8630

Ion	Ratio	Lower	Upper
78	100		
52	22.9	0.0	34.0
51	22.6	0.0	33.5

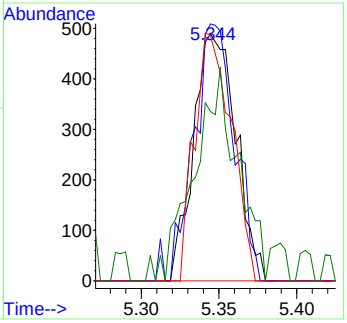


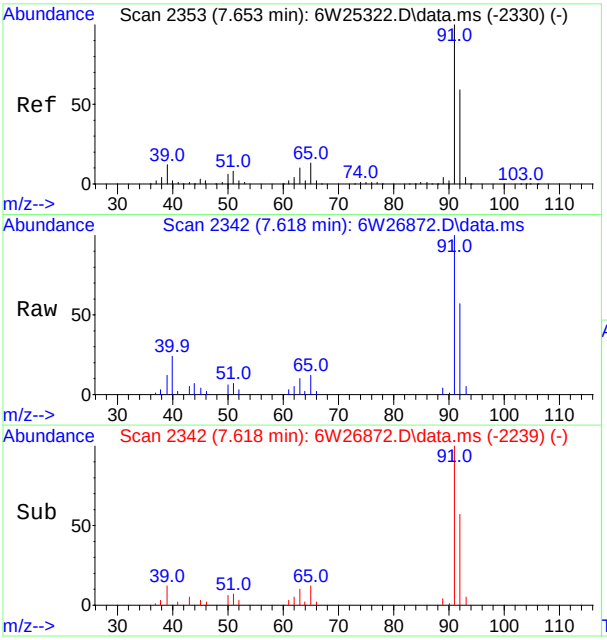


#55
TRICHLOROETHENE
Concen: 0.10 PPBV
RT: 5.344 min Scan# 1635
Delta R.T. -0.006 min
Lab File: 6W26872.D
Acq: 4 Nov 2022 3:00 pm

Tgt Ion: 95 Resp: 932

Ion	Ratio	Lower	Upper
95	100		
130	101.1	83.2	124.8
132	87.7	79.8	119.6
97	92.9	51.3	76.9#

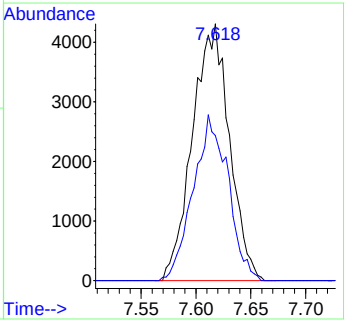


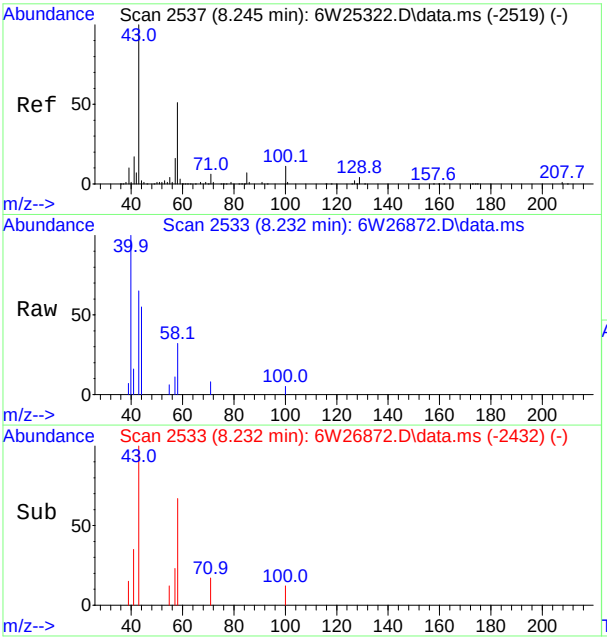


#66
TOLUENE
Concen: 0.40 PPBV
RT: 7.618 min Scan# 2342
Delta R.T. 0.000 min
Lab File: 6W26872.D
Acq: 4 Nov 2022 3:00 pm

Tgt Ion: 91 Resp: 10094

Ion	Ratio	Lower	Upper
91	100		
92	60.6	38.9	78.9

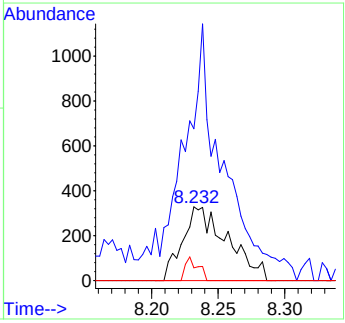


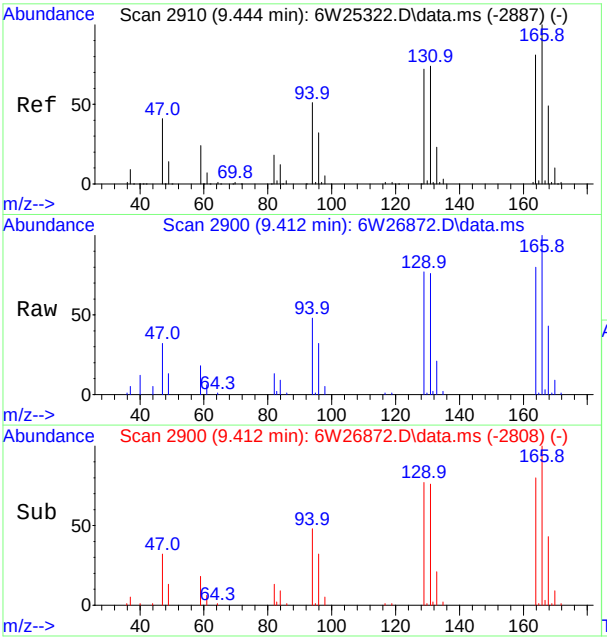


#70
2-HEXANONE
Concen: 0.11 PPBV
RT: 8.232 min Scan# 2533
Delta R.T. 0.026 min
Lab File: 6W26872.D
Acq: 4 Nov 2022 3:00 pm

Tgt Ion: 58 Resp: 772

Ion	Ratio	Lower	Upper
58	100		
43	320.6	120.6	181.0#
100	0.0	19.3	28.9#

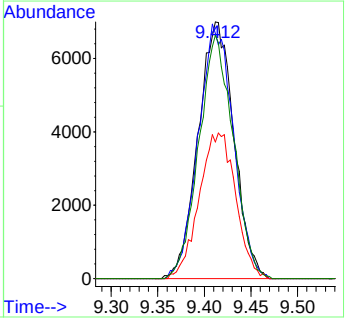


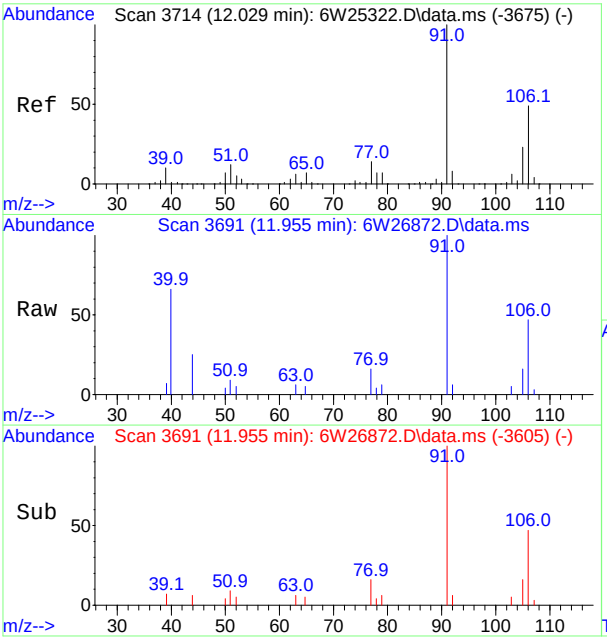


#72
TETRACHLOROETHENE
Concen: 2.16 PPBV
RT: 9.412 min Scan# 2900
Delta R.T. -0.003 min
Lab File: 6W26872.D
Acq: 4 Nov 2022 3:00 pm

Tgt Ion:164 Resp: 18679

Ion	Ratio	Lower	Upper
164	100		
129	97.1	72.0	108.0
168	57.9	48.6	72.8
131	91.6	69.0	103.6

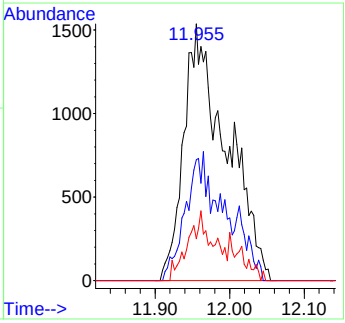


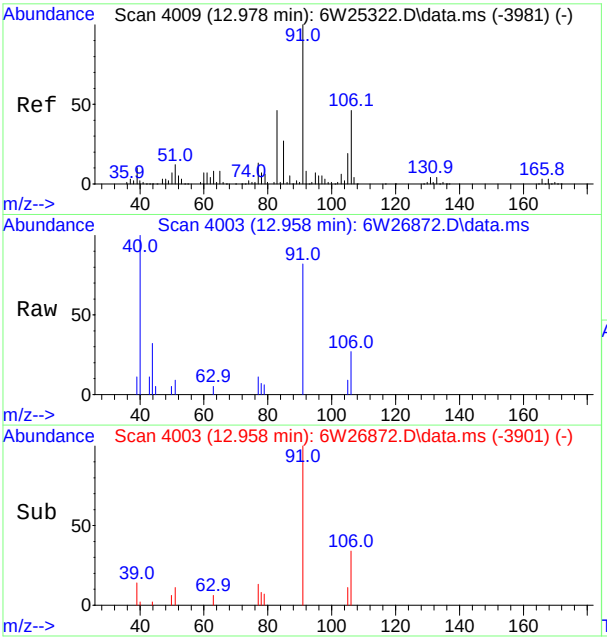


#80
M,P-XYLENE
Concen: 0.26 PPBV
RT: 11.955 min Scan# 3691
Delta R.T. -0.054 min
Lab File: 6W26872.D
Acq: 4 Nov 2022 3:00 pm

Tgt Ion: 91 Resp: 6069

Ion	Ratio	Lower	Upper
91	100		
106	47.0	31.5	71.5
105	16.3	3.6	43.6

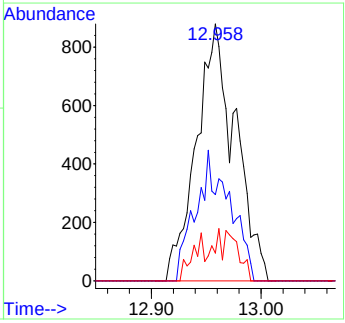


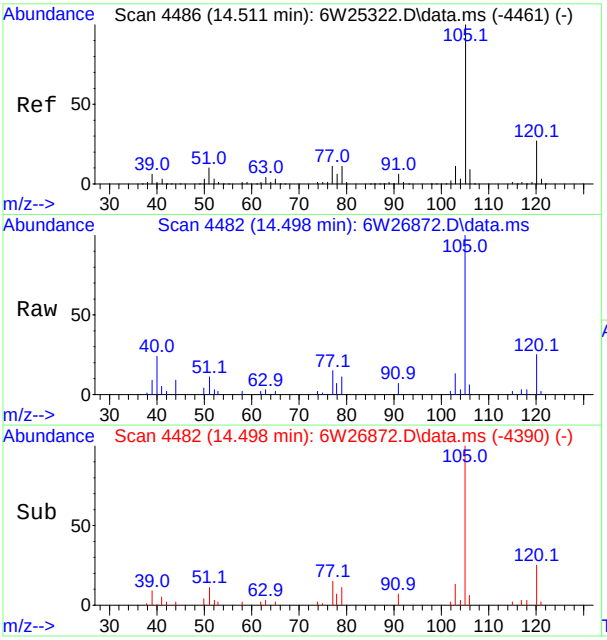


#81
O-XYLENE
Concen: 0.09 PPBV
RT: 12.958 min Scan# 4003
Delta R.T. -0.003 min
Lab File: 6W26872.D
Acq: 4 Nov 2022 3:00 pm

Tgt Ion: 91 Resp: 2173

Ion	Ratio	Lower	Upper
91	100		
106	33.5	39.1	58.7#
105	10.8	15.7	23.5#

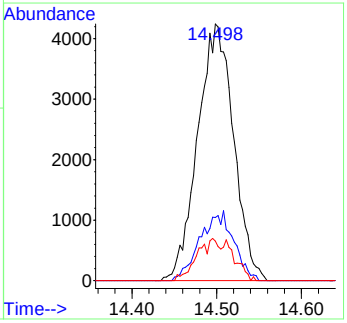




#88
ISOPROPYLBENZENE
Concen: 0.39 PPBV
RT: 14.498 min Scan# 4482
Delta R.T. -0.003 min
Lab File: 6W26872.D
Acq: 4 Nov 2022 3:00 pm

Tgt Ion:105 Resp: 12485

Ion	Ratio	Lower	Upper
105	100		
120	25.3	20.0	30.0
77	16.2	16.0	24.0



Manual Integration Approval Summary

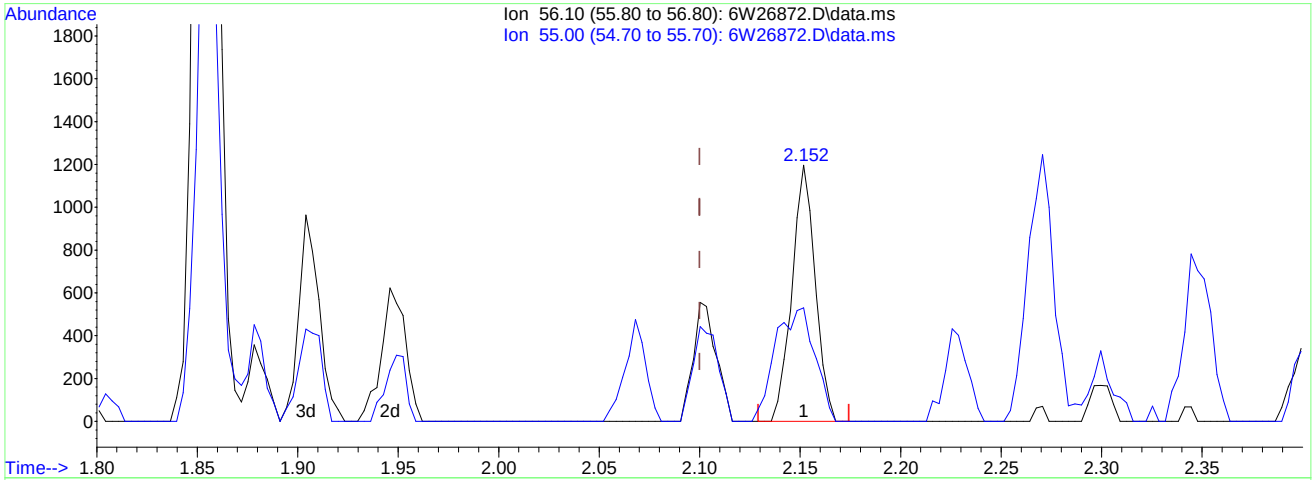
Sample Number:	JD54423-15DUP	**Method:**	TO-15
Lab FileID:	6W26872.D	**Analyst approved:**	11/08/22 12:07 William Cruser
Injection Time:	11/04/22 15:00	**Supervisor approved:**	11/08/22 16:00 Kanya Veerawat

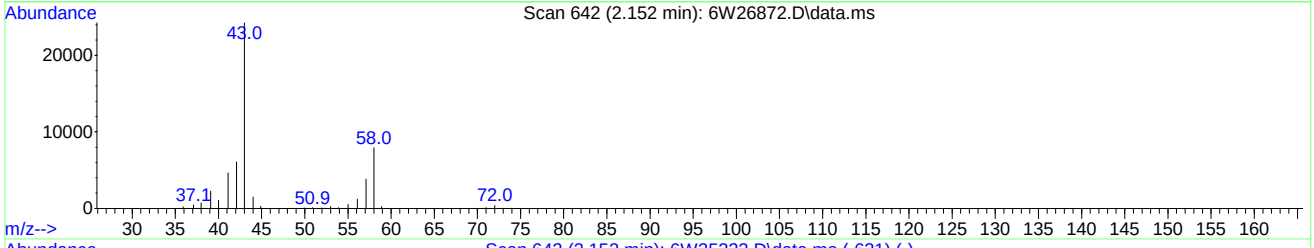
Parameter	CAS	Sig#	R.T. (min.)	Reason
Acrolein	107-02-8		2.10	Missed peak

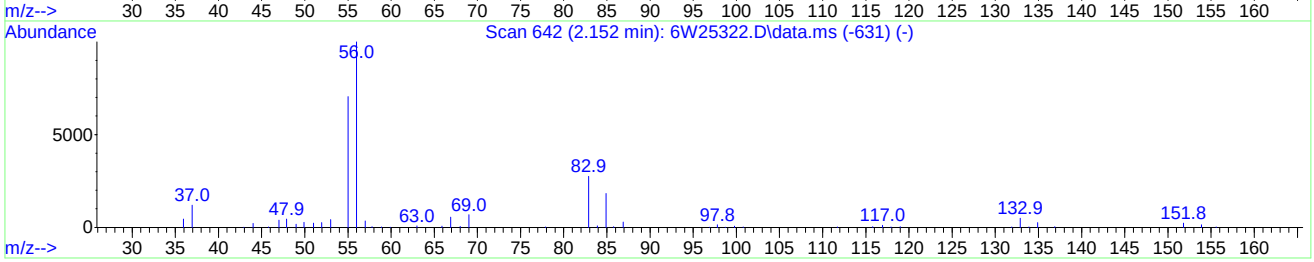
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26872.D
Acq On : 4 Nov 2022 3:00 pm
Operator : thomash
Sample : jd54423-15dup
Misc : MS63483,V6W1138,100,,,,1
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Nov 04 14:24:18 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration







TIC: 6W26872.D\data.ms

(18) ACROLEIN (T)

2.152min (+0.052) 0.35PPBV

response 961

Ion	Exp%	Act%
56.10	100	100
55.00	70.00	75.23
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W25452.D
Acq On : 11 Aug 2022 7:25 pm
Operator : thomash
Sample : scc(a406),cp11846
Misc : MS60869,V6W1083,100,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 12 09:10:35 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 05 08:58:59 2022
Response via : Initial Calibration

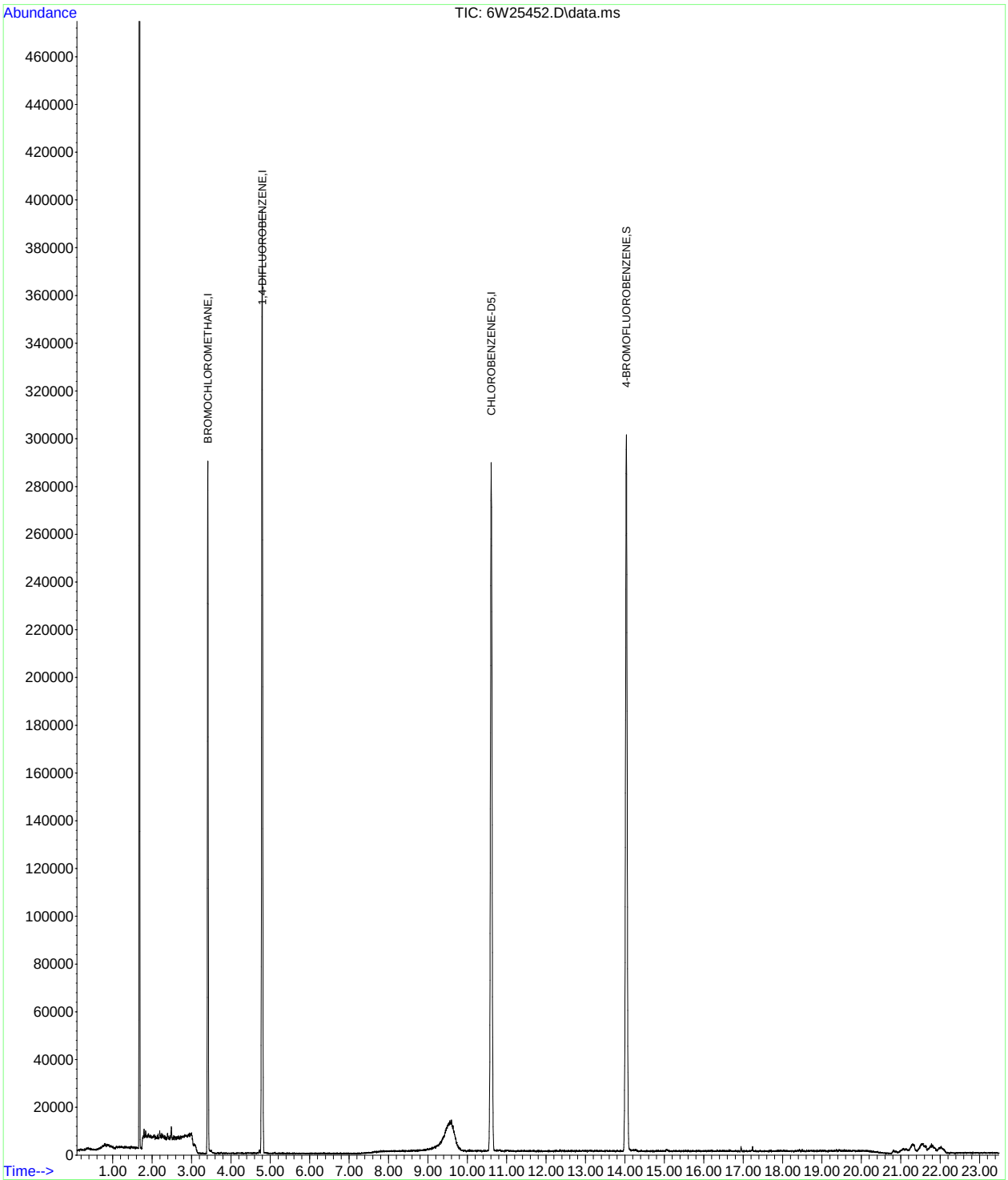
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	3.418	128	58536	10.00	PPBV	# 0.00
52) 1,4-DIFLUOROBENZENE	4.794	114	298947	10.00	PPBV	0.00
76) CHLOROBENZENE-D5	10.608	117	263446	10.00	PPBV	0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	14.035	95	171918	9.30	PPBV	0.00
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W25452.D
Acq On : 11 Aug 2022 7:25 pm
Operator : thomash
Sample : scc(a406),cp11846
Misc : MS60869,V6W1083,100,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 12 09:10:35 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 05 08:58:59 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61625.D
Acq On : 27 Sep 2022 5:24 pm
Operator : thomash
Sample : scc(m441),cp11872
Misc : MS62371,V2w2734,100,,,,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 28 09:54:23 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

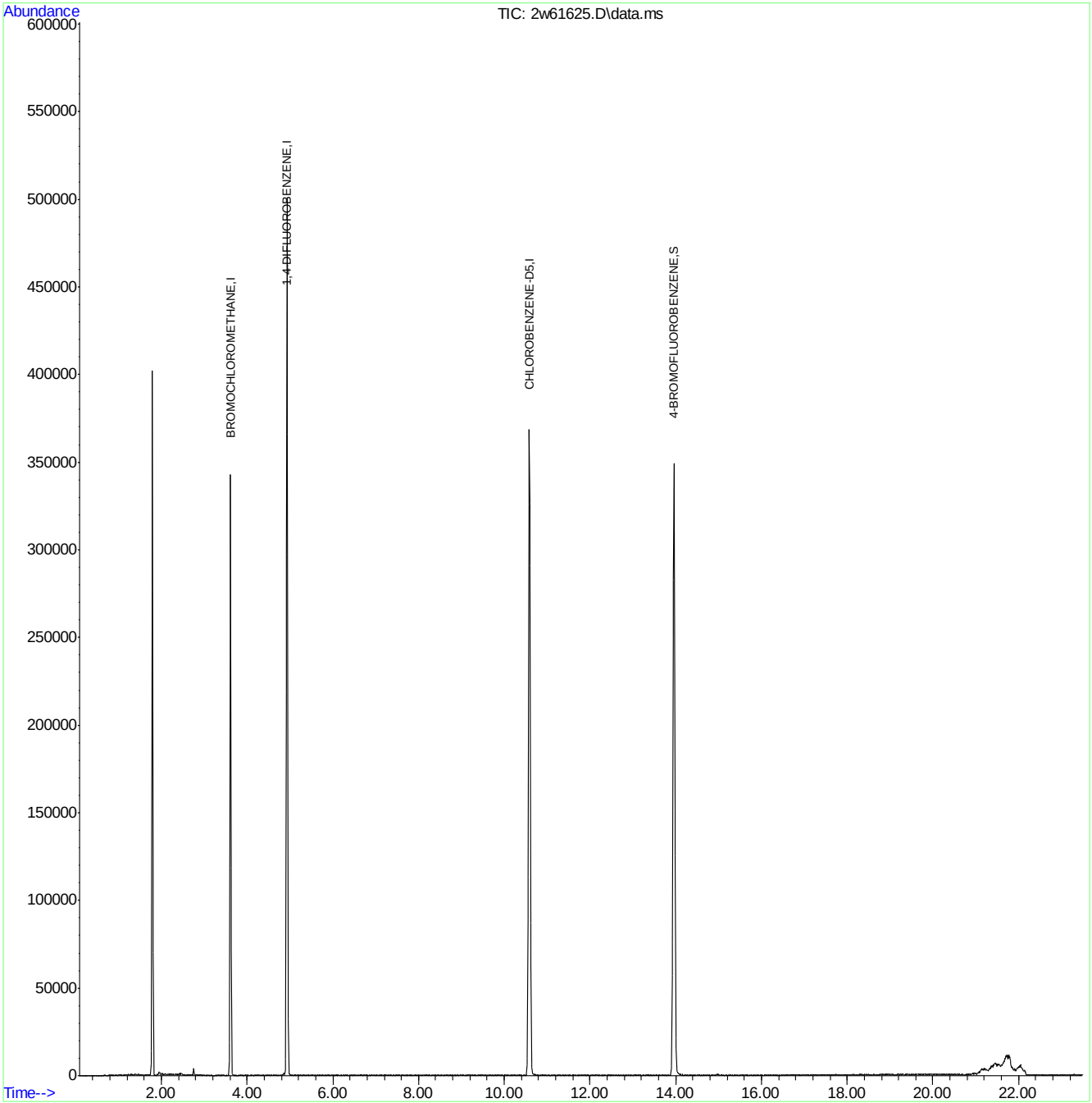
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	3.615	128	70657	10.00	PPBV	0.00
52) 1,4-DIFLUOROBENZENE	4.930	114	391460	10.00	PPBV	0.00
76) CHLOROBENZENE-D5	10.589	117	335472	10.00	PPBV	0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	13.962	95	208125	9.32	PPBV	0.00
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61625.D
Acq On : 27 Sep 2022 5:24 pm
Operator : thomash
Sample : scc(m441),cp11872
Misc : MS62371,V2w2734,100,,,,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 28 09:54:23 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

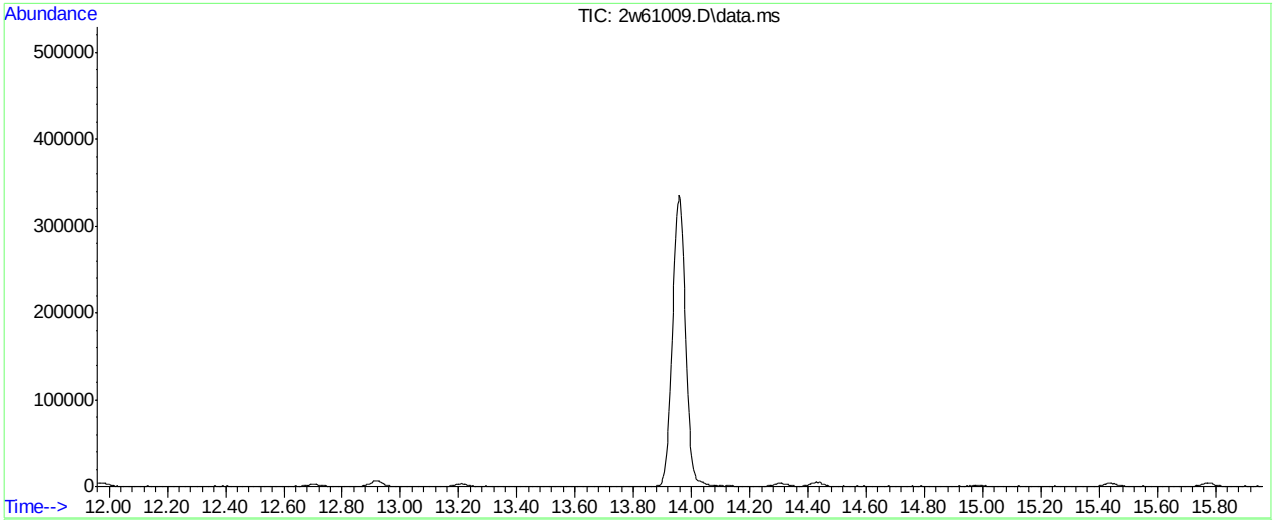


M2W2709.M Wed Sep 28 09:58:24 2022 GCMS2W Page: 2

BFB

Data File : C:\msdchem\1\DATA\2w61009.D Vial: 1
Acq On : 19 Aug 2022 10:50 am Operator: thomash
Sample : bfb Inst : MS2W
Misc : MS61038,V2w2709,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\METHODS\M2W2709.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um



AutoFind: Scans 4313, 4314, 4315; Background Corrected with Scan 4286

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	21.8	14581	PASS
75	95	30	66	49.2	32835	PASS
95	95	100	100	100.0	66739	PASS
96	95	5	9	6.6	4420	PASS
173	174	0.00	2	0.4	243	PASS
174	95	50	120	82.7	55160	PASS
175	174	4	9	7.2	3990	PASS
176	174	93	101	96.0	52933	PASS
177	176	5	9	6.2	3276	PASS

2w61009.D M2W2709.M Tue Aug 23 16:19:20 2022 GCMS2W

Average of 13.956 to 13.962 min.: 2w61009.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	578	48.05	213	61.00	3481	74.00	11483
37.00	3714	49.00	2974	62.00	3460	75.00	32835
38.00	3419	50.00	14581	63.00	2789	76.00	2792
38.95	1240	51.00	4347	64.00	310	76.90	416
39.95	125	51.95	182	66.90	83	77.90	258
42.90	19	54.85	178	67.05	109	78.90	2812
43.95	460	56.00	1314	68.00	6776	79.85	677
45.00	688	57.00	2197	69.00	6765	80.90	2829
46.05	87	57.90	30	69.95	567	81.85	556
46.95	704	59.90	391	71.95	382	82.75	38
47.80	138	60.10	175	73.00	2909	85.90	46

Average of 13.956 to 13.962 min.: 2w61009.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
86.95	2619	105.80	406	123.70	61	140.80	916
87.95	2548	106.95	55	125.85	48	141.85	76
90.90	291	111.00	55	127.70	69	142.85	878
91.95	2050	111.85	93	127.90	157	145.85	64
92.95	2901	112.85	61	128.85	85	147.85	119
94.00	7777	114.80	72	129.75	262	148.85	50
95.00	66739	115.80	241	130.80	85	149.80	61
96.00	4420	116.85	577	134.80	152	152.70	19
96.95	137	117.70	134	136.85	137	152.95	47
103.85	336	117.90	130	139.50	18	154.70	64
104.75	80	118.85	324	139.90	51	154.85	119

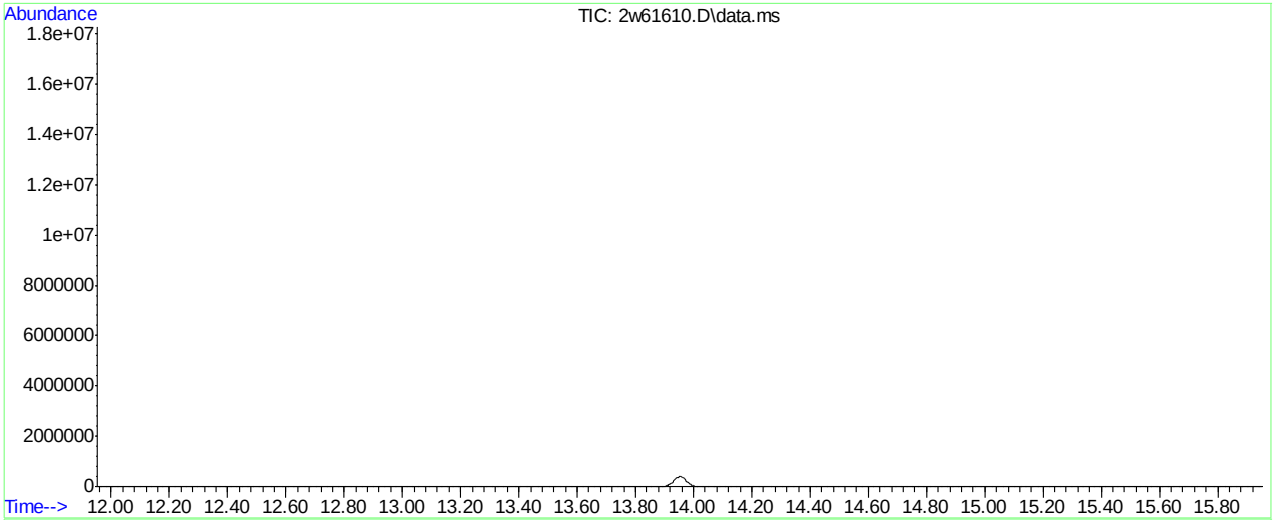
Average of 13.956 to 13.962 min.: 2w61009.D\data.ms
bfb
Modified:subtracted

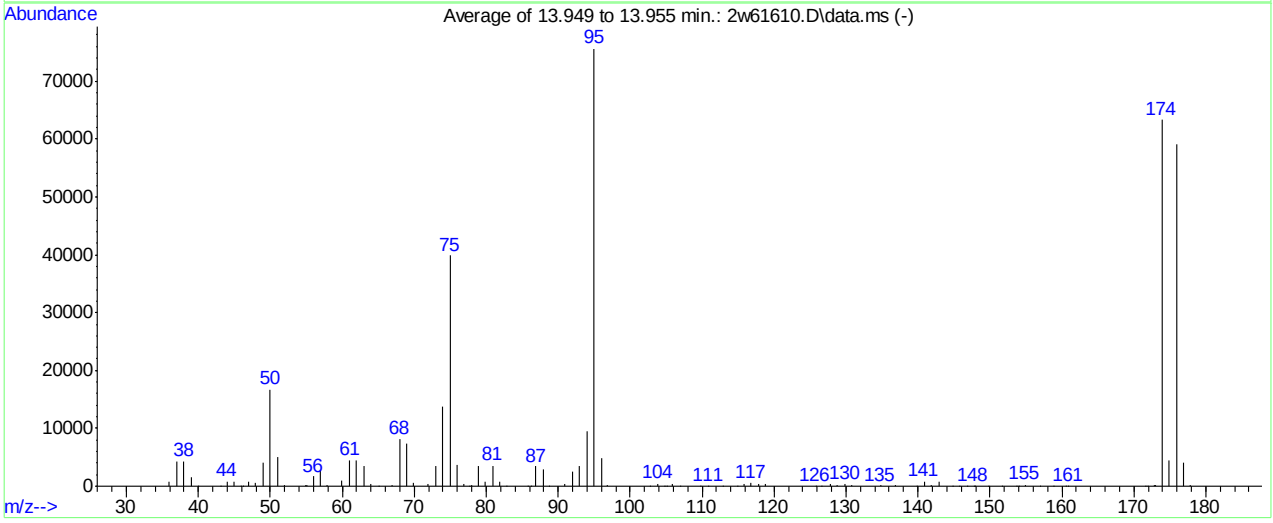
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
156.80	103						
158.75	79						
160.80	34						
172.90	243						
173.90	55160						
174.90	3990						
175.90	52933						
176.90	3276						
177.90	94						

BFB

Data File : C:\msdchem\1\DATA\2w61610.D Vial: 1
Acq On : 27 Sep 2022 7:25 am Operator: thomash
Sample : bfb Inst : MS2W
Misc : MS62367,V2w2734,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\METHODS\M2W2709.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um





AutoFind: Scans 4311, 4312, 4313; Background Corrected with Scan 4284

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	22.1	16757	PASS
75	95	30	66	52.7	39912	PASS
95	95	100	100	100.0	75664	PASS
96	95	5	9	6.5	4899	PASS
173	174	0.00	2	0.4	263	PASS
174	95	50	120	83.7	63341	PASS
175	174	4	9	7.1	4486	PASS
176	174	93	101	93.3	59096	PASS
177	176	5	9	7.0	4116	PASS

2w61610.D M2W2709.M Tue Sep 27 10:14:30 2022 GCMS2W

Average of 13.949 to 13.955 min.: 2w61610.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.95	697	47.95	612	61.00	4509	74.00	13812
37.05	4252	49.00	4000	62.00	4404	75.00	39912
38.00	4329	50.00	16757	63.00	3536	76.00	3632
39.05	1547	51.05	5117	63.95	301	76.90	456
39.90	82	51.95	161	65.00	47	77.60	58
43.10	34	54.90	208	66.90	202	78.00	210
43.95	834	55.10	104	68.00	8219	78.90	3581
44.95	770	56.00	1675	69.00	7467	79.85	872
45.90	35	57.00	2797	69.90	634	80.90	3520
46.20	25	57.95	202	71.95	378	81.85	732
46.95	800	59.95	933	73.00	3564	82.80	74

Average of 13.949 to 13.955 min.: 2w61610.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
85.70	56	96.90	169	115.75	347	136.85	128
86.20	41	102.75	73	116.80	540	139.80	46
86.90	3411	103.85	408	117.85	419	140.85	866
87.95	2934	104.75	82	118.85	422	141.80	118
88.70	26	105.10	19	125.80	18	142.90	822
90.85	431	105.85	390	126.50	28	144.85	72
91.95	2557	106.95	44	127.85	315	145.70	82
93.00	3415	109.75	55	128.80	220	146.85	51
94.00	9508	110.85	102	129.90	346	147.70	95
95.00	75664	112.85	90	130.75	151	147.90	90
96.00	4899	114.85	52	134.80	166	149.80	51

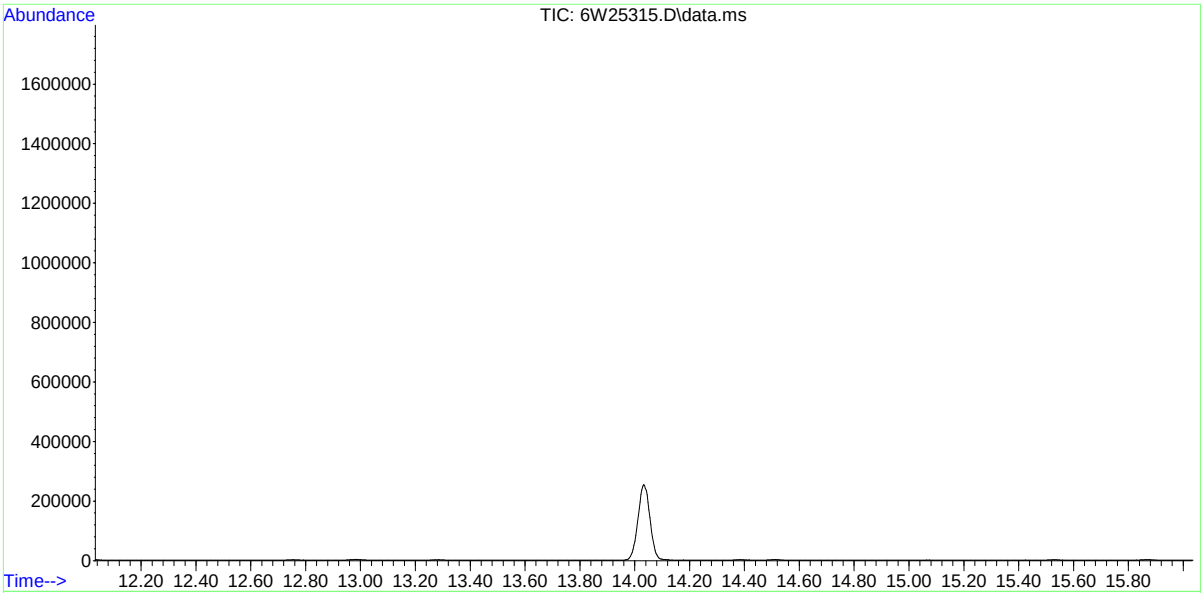
Average of 13.949 to 13.955 min.: 2w61610.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
151.60	38	172.95	263				
153.70	23	173.90	63341				
154.00	26	174.90	4486				
154.90	229	175.90	59096				
156.95	83	176.90	4116				
158.85	42	177.80	162				
160.60	18						
160.90	59						
171.65	38						
171.90	25						
172.80	133						

BFB

Data File : C:\msdchem\1\data\6W25315.D Vial: 1
Acq On : 4 Aug 2022 5:09 pm Operator: thomash
Sample : bfb Inst : GCMS6W
Misc : MS57063,V6W1077,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\M6W1077.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um



AutoFind: Scans 4336, 4337, 4338; Background Corrected with Scan 4310

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	23.1	11429	PASS
75	95	30	66	51.8	25645	PASS
95	95	100	100	100.0	49485	PASS
96	95	5	9	6.7	3335	PASS
173	174	0.00	2	0.6	242	PASS
174	95	50	120	79.7	39416	PASS
175	174	4	9	7.2	2844	PASS
176	174	93	101	97.8	38541	PASS
177	176	5	9	6.6	2529	PASS

6W25315.D M6W1077.M Fri Aug 05 09:16:09 2022

Average of 14.029 to 14.036 min.: 6W25315.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	559	50.00	11429	63.00	2131	76.90	216
37.00	3264	51.00	3345	63.85	191	77.20	103
38.05	2751	52.00	150	66.95	171	77.95	188
39.05	1179	54.95	147	68.00	5264	78.85	2237
44.00	330	55.20	30	69.00	5597	79.90	556
45.00	634	56.00	959	69.95	506	80.90	2236
46.00	66	57.00	1790	71.95	306	81.85	429
46.95	726	58.10	62	73.00	2374	82.90	64
47.70	103	59.95	550	74.00	8837	86.00	31
47.95	263	61.00	2731	75.00	25645	86.95	2256
49.00	2666	62.00	2679	76.00	2320	87.85	1872

Average of 14.029 to 14.036 min.: 6W25315.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
90.85	255	109.80	18	134.80	85	154.90	48
91.95	1521	113.00	17	135.00	30	156.75	107
92.95	2164	115.85	222	136.85	111	158.70	18
94.00	5998	116.80	361	140.90	514	159.00	27
95.00	49485	117.85	264	141.85	93	160.90	29
96.00	3335	118.85	344	142.90	613	171.20	36
96.85	129	126.00	23	145.75	99	172.10	73
103.85	320	127.80	128	146.70	46	172.85	242
104.80	100	128.80	83	147.95	93	173.10	118
105.90	284	129.85	194	149.85	71	173.90	39416
106.90	21	130.80	70	154.70	53	174.90	2844

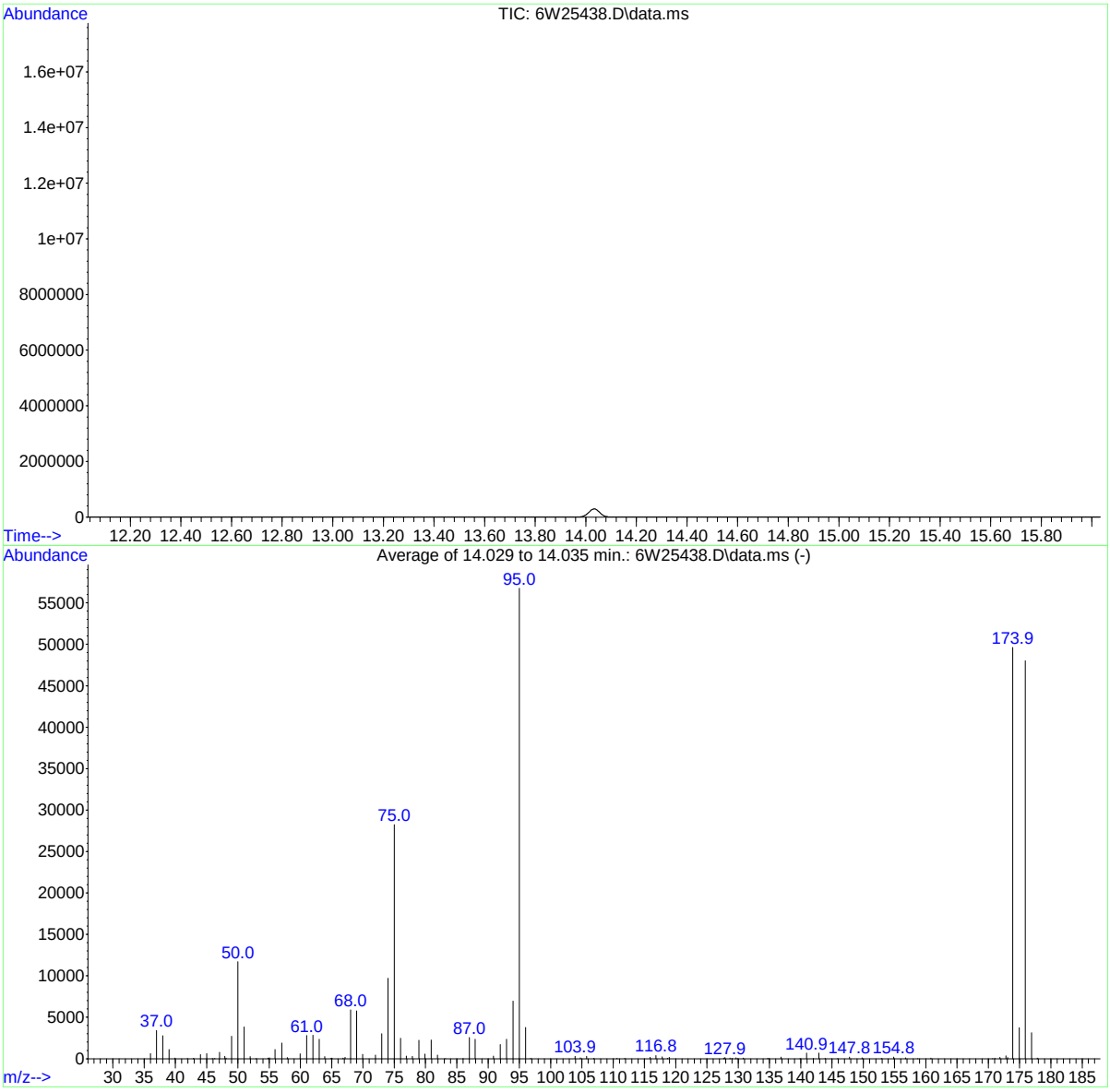
Average of 14.029 to 14.036 min.: 6W25315.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
175.90	38541						
176.90	2529						
177.85	43						

BFB

Data File : C:\msdchem\1\data\6W25438.D Vial: 1
Acq On : 11 Aug 2022 7:24 am Operator: thomash
Sample : bfb Inst : GCMS6W
Misc : MS61233,V6W1083,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\M6W1077.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um



AutoFind: Scans 4336, 4337, 4338; Background Corrected with Scan 4310

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	20.6	11717	PASS
75	95	30	66	49.8	28251	PASS
95	95	100	100	100.0	56760	PASS
96	95	5	9	6.6	3771	PASS
173	174	0.00	2	0.7	353	PASS
174	95	50	120	87.4	49619	PASS
175	174	4	9	7.5	3741	PASS
176	174	93	101	96.8	48008	PASS
177	176	5	9	6.5	3126	PASS

6W25438.D M6W1077.M Thu Aug 11 14:24:28 2022

Average of 14.029 to 14.035 min.: 6W25438.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	612	47.05	761	57.00	1900	68.00	5904
37.00	3405	47.90	275	57.90	125	69.00	5783
38.00	2771	48.10	83	59.95	592	69.95	517
39.00	1103	49.00	2712	61.00	2807	72.00	454
39.90	88	50.00	11717	62.00	2836	73.00	3009
41.90	17	51.00	3821	63.00	2361	74.00	9698
42.90	48	51.95	247	63.90	267	75.00	28251
44.00	495	52.90	19	64.90	36	76.00	2469
45.00	635	54.80	75	65.05	75	76.95	331
45.90	25	55.05	120	66.80	80	77.90	296
46.30	42	55.95	1094	67.15	165	78.95	2220

Average of 14.029 to 14.035 min.: 6W25438.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
79.90	570	95.00	56760	117.85	238	134.90	24
80.90	2263	96.00	3771	118.70	56	136.85	185
81.90	439	96.80	52	118.95	172	139.90	21
83.20	18	103.90	288	127.70	79	140.95	696
86.00	31	104.75	114	127.90	142	142.00	28
87.00	2546	105.75	279	128.70	90	142.90	683
87.95	2341	106.90	39	129.00	43	143.90	42
90.85	306	110.60	43	129.65	113	145.90	28
91.95	1711	111.85	48	129.90	29	147.80	191
92.95	2346	115.90	178	130.80	87	149.80	103
94.00	6948	116.85	385	134.70	51	152.90	50

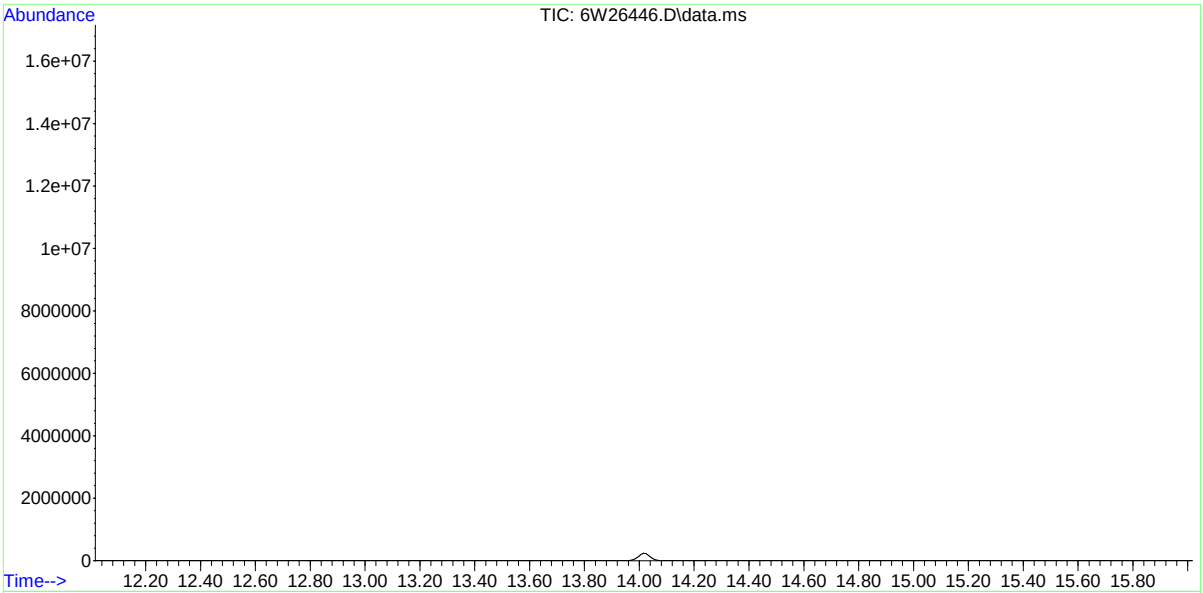
Average of 14.029 to 14.035 min.: 6W25438.D\data.ms
bfb
Modified:subtracted

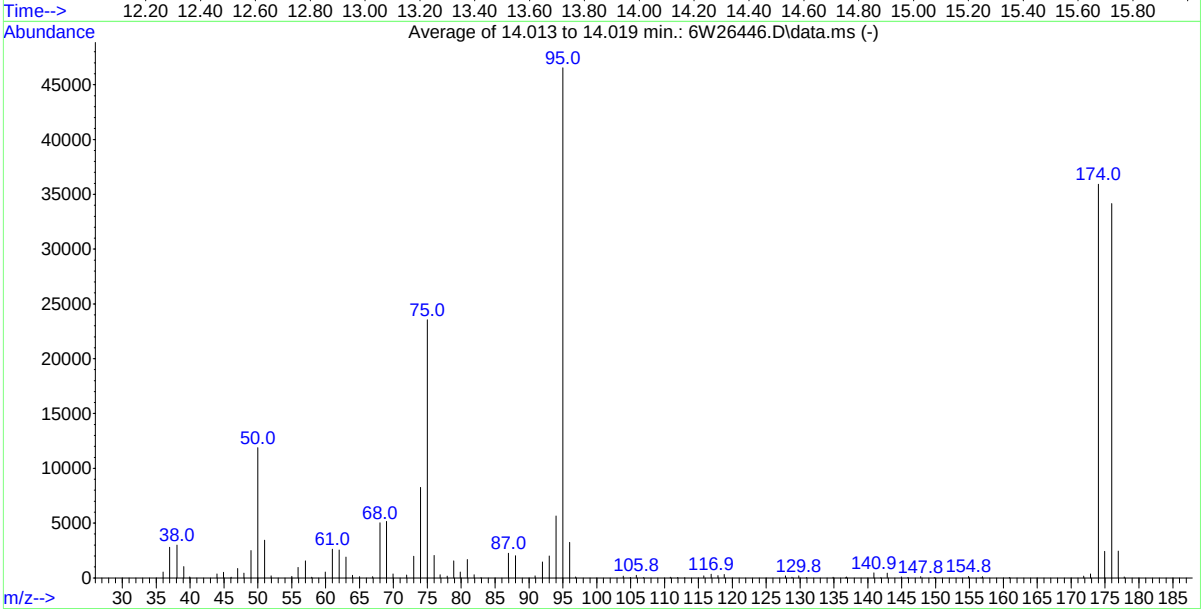
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
154.85	186	175.90	48008				
156.75	99	176.90	3126				
158.70	25	177.85	90				
160.80	70						
170.70	19						
171.05	41						
171.85	173						
172.80	353						
173.10	137						
173.90	49619						
174.95	3741						

BFB

Data File : C:\msdchem\1\data\6W26446.D Vial: 5
Acq On : 19 Oct 2022 5:44 pm Operator: thomash
Sample : bfb Inst : GCMS6W
Misc : MS63121,V6W1125,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\M6W1125.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um





AutoFind: Scans 4331, 4332, 4333; Background Corrected with Scan 4304

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	25.6	11894	PASS
75	95	30	66	50.6	23544	PASS
95	95	100	100	100.0	46541	PASS
96	95	5	9	7.0	3244	PASS
173	174	0.00	2	1.0	352	PASS
174	95	50	120	77.2	35928	PASS
175	174	4	9	6.8	2432	PASS
176	174	93	101	95.1	34165	PASS
177	176	5	9	7.1	2442	PASS

6W26446.D M6W1125.M Thu Oct 20 09:35:17 2022

Average of 14.013 to 14.019 min.: 6W26446.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	546	50.00	11894	63.95	247	76.90	286
37.00	2807	51.00	3433	65.00	125	77.95	172
38.05	3001	51.95	185	66.95	113	78.90	1543
39.05	1041	55.00	126	68.00	5020	79.85	527
39.95	91	55.95	965	69.00	5150	80.90	1687
43.95	372	57.00	1557	69.95	355	81.90	284
44.95	508	57.95	74	71.95	267	82.90	17
46.05	53	59.95	539	73.00	1986	86.95	2250
47.00	861	61.00	2622	74.00	8253	88.00	2020
47.95	437	62.00	2554	75.00	23544	90.90	189
49.00	2485	63.00	1902	76.00	2043	92.00	1449

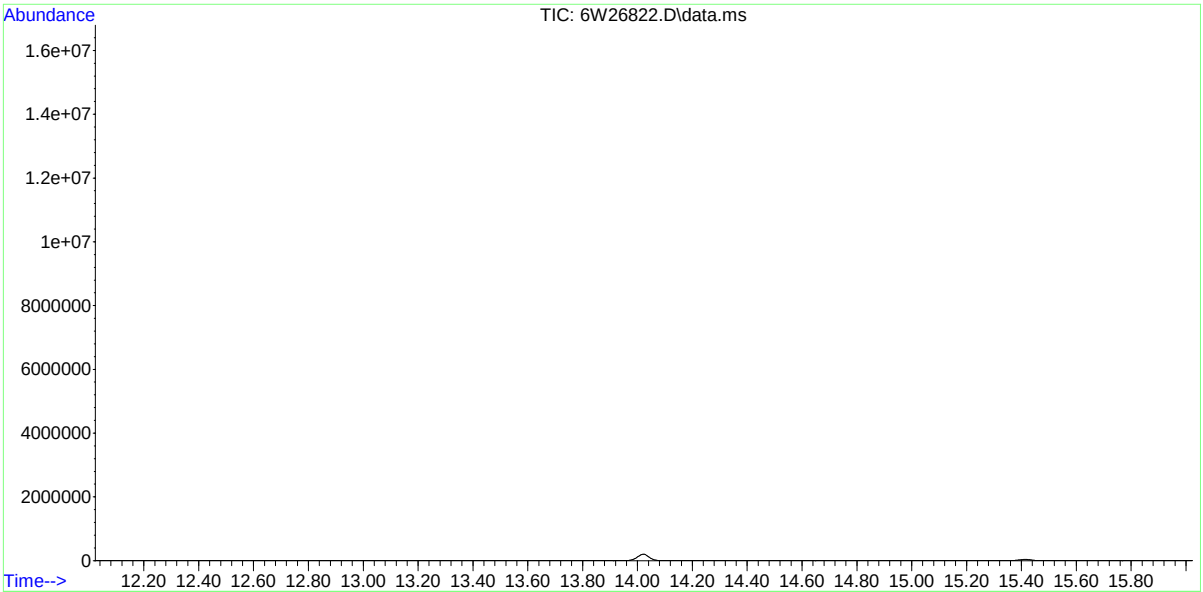
Average of 14.013 to 14.019 min.: 6W26446.D\data.ms
bfb
Modified:subtracted

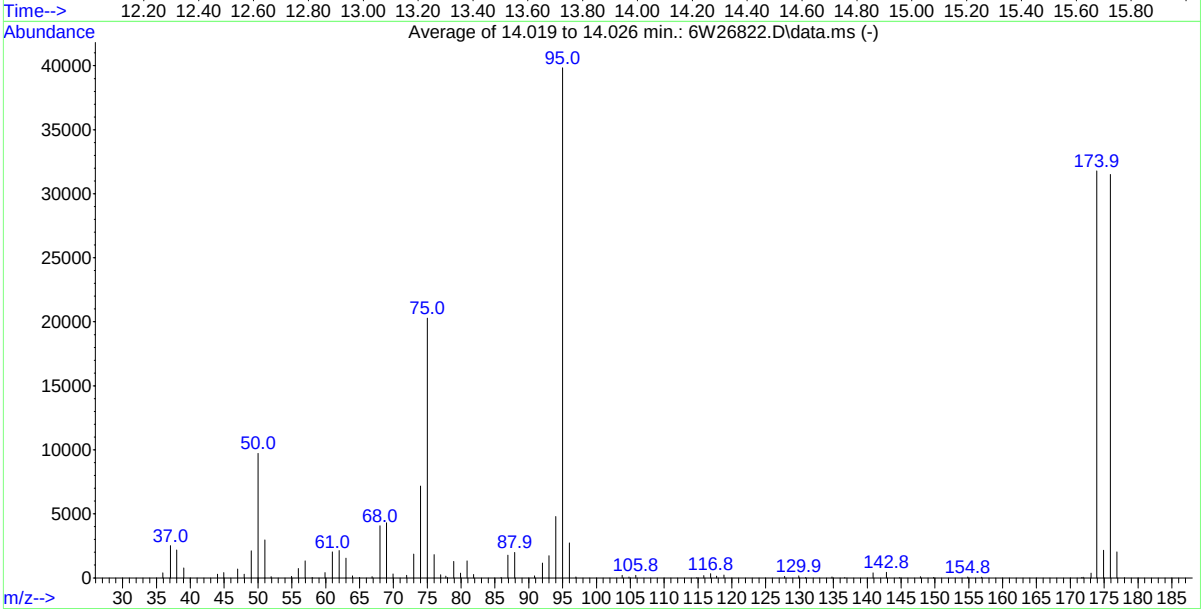
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
93.00	2011	113.00	23	136.85	76	160.90	35
94.00	5659	115.80	178	140.90	450	171.85	167
95.00	46541	116.90	333	141.90	18	172.85	352
96.00	3244	117.90	205	142.85	442	174.00	35928
96.90	83	118.80	305	144.95	79	174.95	2432
103.90	155	127.85	190	145.90	28	176.00	34165
104.95	39	128.80	72	147.80	114	176.95	2442
105.85	229	129.80	191	149.80	50	177.85	82
106.90	48	130.95	40	154.85	129		
110.85	70	134.85	74	156.70	18		
111.95	40	136.70	24	156.90	103		

BFB

Data File : C:\msdchem\1\data\6W26822.D Vial: 1
Acq On : 3 Nov 2022 9:04 am Operator: thomash
Sample : bfb Inst : GCMS6W
Misc : MS63437,V6W1137,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\M6W1125.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um





AutoFind: Scans 4333, 4334, 4335; Background Corrected with Scan 4306

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	24.4	9728	PASS
75	95	30	66	50.9	20293	PASS
95	95	100	100	100.0	39835	PASS
96	95	5	9	6.9	2732	PASS
173	174	0.00	2	1.2	369	PASS
174	95	50	120	79.8	31795	PASS
175	174	4	9	6.8	2169	PASS
176	174	93	101	99.1	31512	PASS
177	176	5	9	6.4	2021	PASS

6W26822.D M6W1125.M Fri Nov 04 15:11:13 2022

Average of 14.019 to 14.026 min.: 6W26822.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.95	402	51.95	102	66.85	100	78.00	21
37.05	2516	54.95	117	68.00	4069	78.90	1283
38.00	2189	55.95	728	69.00	4312	79.90	372
39.05	776	56.95	1330	69.95	304	80.90	1329
44.00	284	58.00	31	71.95	198	81.85	260
44.95	415	59.90	409	73.00	1855	85.90	25
47.00	699	61.00	2035	74.00	7176	86.90	1785
47.95	289	62.00	2130	75.00	20293	87.90	1985
49.00	2107	63.00	1545	76.00	1820	90.85	159
50.00	9728	63.95	151	77.00	246	92.00	1156
51.00	2975	65.00	22	77.75	130	93.00	1742

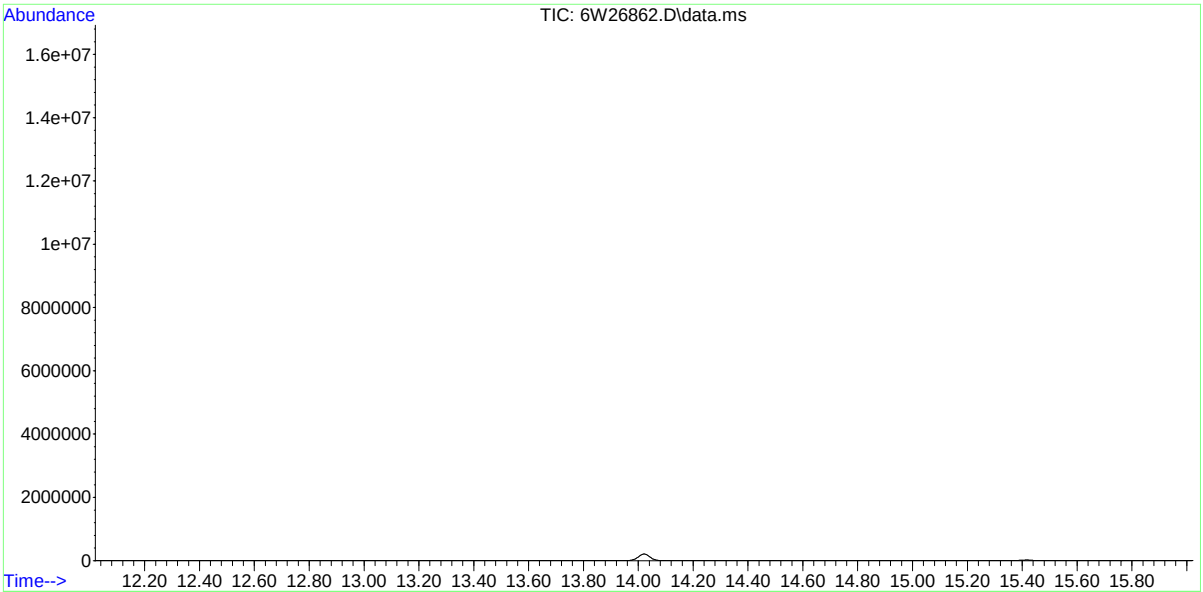
Average of 14.019 to 14.026 min.: 6W26822.D\data.ms
bfb
Modified:subtracted

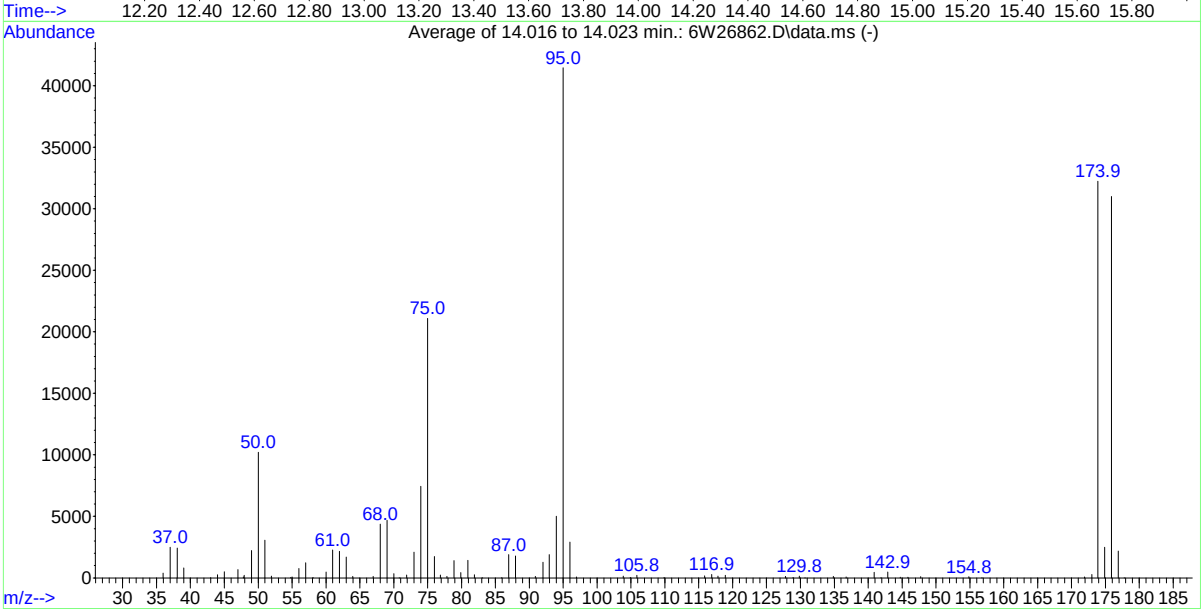
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
94.00	4789	118.85	229	154.85	71		
95.00	39835	127.80	124	156.90	51		
96.00	2732	129.90	169	171.70	33		
96.95	82	130.90	35	171.90	60		
103.80	192	134.80	76	173.05	369		
104.80	69	136.70	37	173.90	31795		
105.80	204	140.85	403	174.90	2169		
114.80	18	142.85	443	175.90	31512		
115.85	182	144.80	26	176.90	2021		
116.85	327	147.85	99	178.00	17		
117.75	147	149.80	23				

BFB

Data File : C:\msdchem\1\data\6W26862.D Vial: 1
Acq On : 4 Nov 2022 9:04 am Operator: thomash
Sample : bfb Inst : GCMS6W
Misc : MS63483,V6W1138,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\M6W1125.M (RTE Integrator)
Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um





AutoFind: Scans 4332, 4333, 4334; Background Corrected with Scan 4306

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	24.6	10199	PASS
75	95	30	66	50.8	21080	PASS
95	95	100	100	100.0	41456	PASS
96	95	5	9	7.0	2916	PASS
173	174	0.00	2	0.9	288	PASS
174	95	50	120	77.7	32229	PASS
175	174	4	9	7.8	2498	PASS
176	174	93	101	96.2	31000	PASS
177	176	5	9	7.1	2186	PASS

6W26862.D M6W1125.M Sun Nov 06 15:43:21 2022

Average of 14.016 to 14.023 min.: 6W26862.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.95	396	50.00	10199	63.00	1685	76.00	1727
37.00	2480	51.00	3071	63.95	128	76.90	237
38.05	2424	51.95	144	66.95	117	77.85	119
39.00	804	54.80	27	68.00	4363	78.90	1410
43.00	18	55.00	81	69.00	4679	79.90	427
44.00	261	56.00	762	70.00	354	80.95	1426
45.00	502	57.00	1223	70.80	17	81.90	252
47.00	683	58.10	26	71.90	236	83.10	17
47.80	79	60.00	475	73.00	2094	85.90	17
47.95	204	61.00	2262	74.00	7434	86.95	1891
49.00	2234	62.00	2149	75.00	21080	87.95	1783

Average of 14.016 to 14.023 min.: 6W26862.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
90.90	133	115.85	158	141.90	19	175.90	31000
92.00	1265	116.90	286	142.90	483	176.90	2186
92.95	1886	117.85	153	144.75	64	177.80	23
94.00	5016	118.90	217	145.85	48		
95.00	41456	127.80	121	147.75	111		
96.00	2916	128.90	40	154.85	109		
96.95	84	129.85	138	156.80	22		
103.85	150	130.70	18	171.90	75		
104.90	39	134.85	113	173.00	288		
105.85	211	136.75	71	173.90	32229		
109.90	24	140.90	455	174.90	2498		

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/24/22 14:42

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61010.D
Acq On : 19 Aug 2022 11:22 am
Operator : thomash
Sample : ic2709-0.04
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 23 20:46:55 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 22:21:21 2022
Response via : Initial Calibration

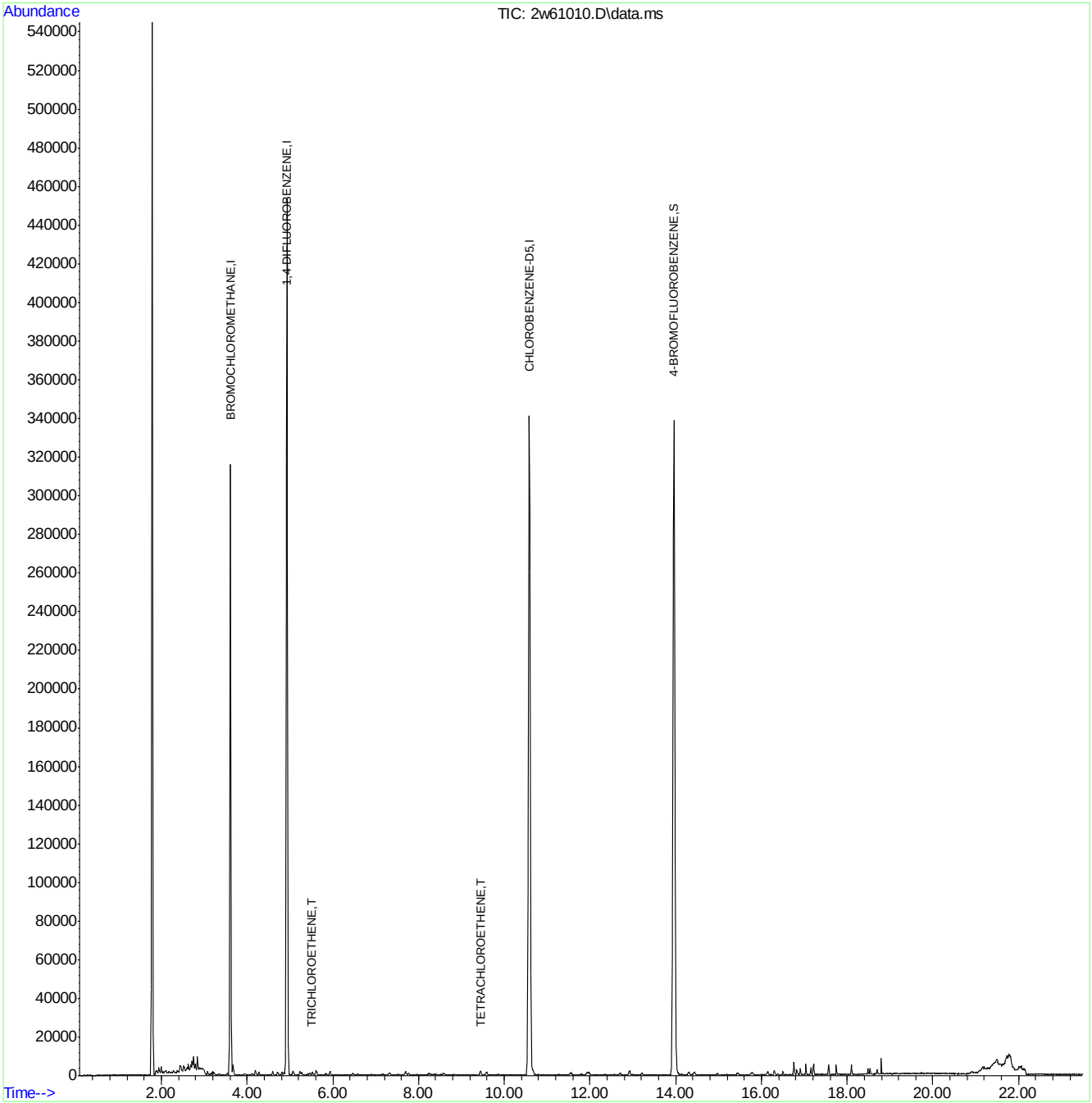
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	3.608	128	65497	10.00	PPBV	0.00
52) 1,4-DIFLUOROBENZENE	4.927	114	359956	10.00	PPBV	0.00
76) CHLOROBENZENE-D5	10.586	117	318930	10.00	PPBV	0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	13.959	95	206801	9.74	PPBV	0.00
Target Compounds						Qvalue
55) TRICHLOROETHENE	5.515	95	461m	0.03	PPBV	
72) TETRACHLOROETHENE	9.451	164	666	0.04	PPBV	# 40

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61010.D
Acq On : 19 Aug 2022 11:22 am
Operator : thomash
Sample : ic2709-0.04
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 23 20:46:55 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 22:21:21 2022
Response via : Initial Calibration



Manual Integration Approval Summary

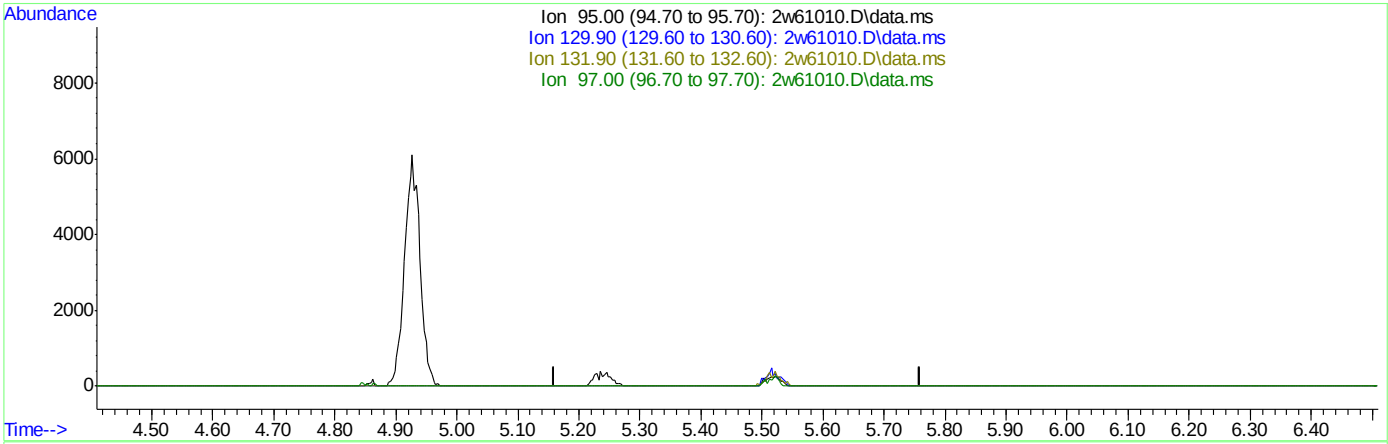
Sample Number:	V2W2709-IC2709	**Method:**	TO-15
Lab FileID:	2W61010.D	**Analyst approved:**	08/23/22 20:59 Benjamin Kim
Injection Time:	08/19/22 11:22	**Supervisor approved:**	08/24/22 14:42 Kanya Veerawat

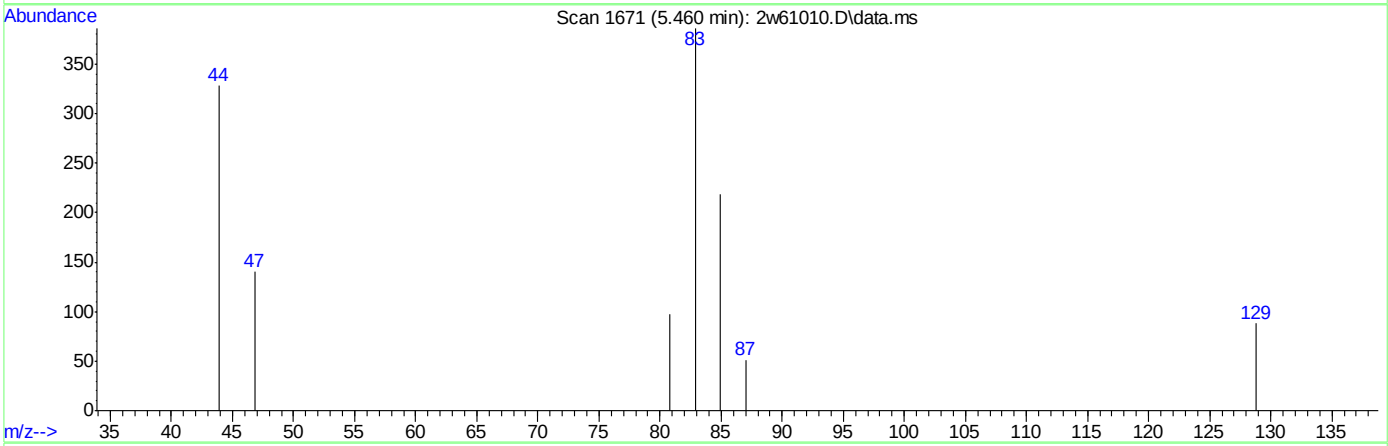
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichloroethylene	79-01-6		5.52	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61010.D
Acq On : 19 Aug 2022 11:22 am
Operator : thomash
Sample : ic2709-0.04
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 19 12:31:07 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed May 18 07:44:07 2022
Response via : Initial Calibration





TIC: 2w61010.D\data.ms

(55) TRICHLOROETHENE (T)

5.460min (-5.460) 0.00PPBV

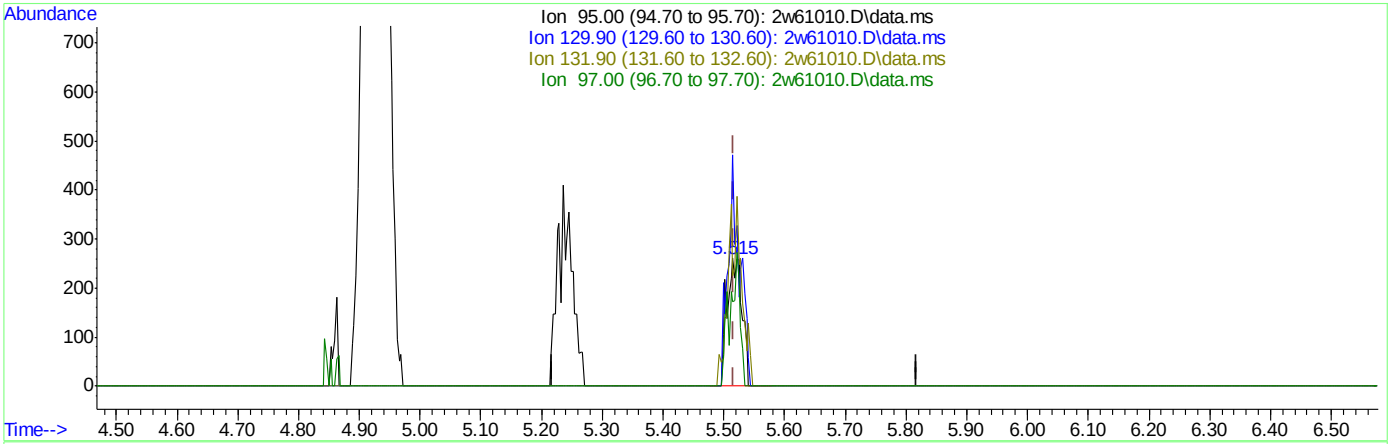
response 0

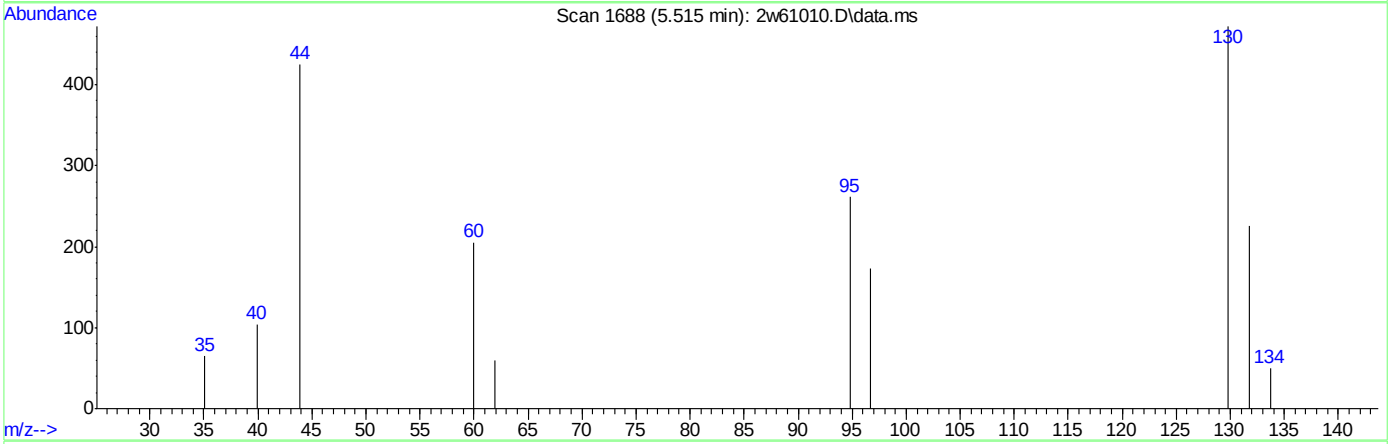
Ion	Exp%	Act%
95.00	100	0.00
129.90	104.00	0.00#
131.90	99.70	0.00#
97.00	64.10	0.00#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61010.D
Acq On : 19 Aug 2022 11:22 am
Operator : thomash
Sample : ic2709-0.04
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 23 20:45:16 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 22:21:21 2022
Response via : Initial Calibration





TIC: 2w61010.D\data.ms

(55) TRICHLOROETHENE (T)

5.515min (-0.003) 0.03PPBV m

response 461

Ion	Exp%	Act%
95.00	100	100
129.90	103.50	0.00#
131.90	99.10	0.00#
97.00	65.00	0.00#

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/24/22 14:42

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61011.D
Acq On : 19 Aug 2022 11:55 am
Operator : thomash
Sample : ic2709-0.1
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 24 12:14:03 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Aug 23 20:47:14 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.612	128	64903	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.927	114	355487	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	10.586	117	317521	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.956	95	206670	9.78	PPBV		0.00
Target Compounds							Qvalue
3) FREON 152A	1.837	65	560	0.10	PPBV	#	48
4) CHLORODIFLUOROMETHANE	1.860	67	226m	0.09	PPBV		
5) CHLOROTRIFLUOROETHENE	1.872	116	1390	0.10	PPBV	#	1
6) DICHLORODIFLUOROMETHANE	1.895	85	3356	0.10	PPBV	#	71
7) PROPYLENE	1.872	41	754	0.12	PPBV	#	15
8) 1-CHLORO-1,1-DIFLUOROE...	1.943	65	2440	0.10	PPBV	#	27
9) FREON 114	1.991	85	2873	0.10	PPBV		98
10) CHLOROMETHANE	1.950	52	371m	0.11	PPBV		
11) VINYL CHLORIDE	2.033	62	1229	0.11	PPBV	#	50
12) 1,3-BUTADIENE	2.085	54	843	0.10	PPBV	#	82
13) N-BUTANE	2.104	43	1865	0.12	PPBV	#	64
14) BROMOMETHANE	2.184	94	1132	0.11	PPBV	#	95
15) CHLOROETHANE	2.245	64	628	0.10	PPBV	#	46
16) DICHLOROFLUOROMETHANE	2.278	67	2428	0.10	PPBV	#	85
17) ACETONITRILE	2.371	41	1075	0.12	PPBV	#	79
18) ACROLEIN	2.419	56	214m	0.05	PPBV		
19) FREON 123	2.435	83	2621	0.10	PPBV		96
20) FREON 123A	2.451	117	1635	0.11	PPBV		97
21) TRICHLOROFLUOROMETHANE	2.522	101	3215	0.10	PPBV	#	1
22) ISOPROPYL ALCOHOL	2.538	45	3327	0.12	PPBV	#	88
23) ACETONE	2.467	58	1182	0.15	PPBV		93
24) PENTANE	2.628	42	1748	0.12	PPBV		85
25) IODOMETHANE	2.689	142	3305	0.10	PPBV		100
26) 1,1-DICHLOROETHYLENE	2.712	96	1311	0.10	PPBV		96
27) CARBON DISULFIDE	2.844	76	3679	0.09	PPBV	#	84
28) ETHANOL	2.284	45	799	0.16	PPBV	#	41
29) BROMOETHENE	2.381	106	948	0.09	PPBV	#	100
30) ACRYLONITRILE	2.602	52	979	0.10	PPBV	#	85
31) METHYLENE CHLORIDE	2.750	84	2310	0.18	PPBV		92
32) 3-CHLOROPROPENE	2.789	76	670	0.10	PPBV	#	56
33) FREON 113	2.847	151	2093	0.10	PPBV		97
34) TRANS-1,2-DICHLOROETHENE	3.075	96	1055	0.10	PPBV		97
35) TERTIARY BUTYL ALCOHOL	2.725	59	3546	0.10	PPBV	#	80
36) METHYL TERTIARY BUTYL ...	3.194	73	2855	0.10	PPBV	#	84
37) TETRAHYDROFURAN	3.930	72	339m	0.07	PPBV		
38) HEXANE	3.667	57	1774	0.09	PPBV		90
39) VINYL ACETATE	3.233	86	201m	0.08	PPBV		
40) 1,1-DICHLOROETHANE	3.155	63	1808	0.09	PPBV	#	88
41) METHYL ETHYL KETONE	3.335	72	351m	0.07	PPBV		
42) CIS-1,2-DICHLOROETHENE	3.538	96	1146	0.10	PPBV		99
43) DIISOPROPYL ETHER	3.673	59	517	0.09	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61011.D
Acq On : 19 Aug 2022 11:55 am
Operator : thomash
Sample : ic2709-0.1
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 24 12:14:03 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Aug 23 20:47:14 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45) METHYL ACRYLATE	3.663	55	1929	0.09	PPBV	#	66
46) CHLOROFORM	3.686	83	2328	0.10	PPBV		92
47) 2,4-DIMETHYLPENTANE	4.194	57	2171	0.10	PPBV		98
48) 1,1,1-TRICHLOROETHANE	4.274	97	2237	0.10	PPBV		97
49) CARBON TETRACHLORIDE	4.705	117	2055	0.09	PPBV		99
50) 1,2-DICHLOROETHANE	4.107	62	1503	0.09	PPBV	#	100
51) BENZENE	4.596	78	3427	0.10	PPBV		98
53) CYCLOHEXANE	4.814	84	1478	0.10	PPBV		91
54) 2,3-DIMETHYLPENTANE	5.078	71	694	0.09	PPBV	#	96
55) TRICHLOROETHENE	5.522	95	1399	0.09	PPBV		89
56) 1,2-DICHLOROPROPANE	5.277	63	1360	0.10	PPBV	#	74
57) DIBROMOMETHANE	5.236	174	1596	0.10	PPBV		92
58) ETHYL ACRYLATE	5.406	55	2085	0.08	PPBV	#	74
59) BROMODICHLOROMETHANE	5.461	83	2192	0.09	PPBV		100
60) 2,2,4-TRIMETHYLPENTANE	5.615	57	5984	0.10	PPBV	#	96
62) HEPTANE	5.933	43	1916	0.10	PPBV		92
63) METHYL METHACRYLATE	5.837	69	1025	0.09	PPBV	#	77
64) METHYL ISOBUTYL KETONE	6.593	58	750	0.08	PPBV	#	79
65) CIS-1,3-DICHLOROPROPENE	6.461	75	1386	0.08	PPBV	#	68
66) TOLUENE	7.695	91	4413	0.10	PPBV		93
67) 1,3-DICHLOROPROPANE	7.756	76	1971	0.10	PPBV	#	91
68) TRANS-1,3-DICHLOROPROPENE	7.155	75	1319	0.08	PPBV	#	78
69) 1,1,2-TRICHLOROETHANE	7.322	83	1181	0.09	PPBV		95
70) 2-HEXANONE	8.293	58	221m	0.39	PPBV		
71) ETHYL METHACRYLATE	8.412	69	1160	0.07	PPBV	#	84
72) TETRACHLOROETHENE	9.454	164	1751	0.10	PPBV	#	87
73) DIBROMOCHLOROMETHANE	8.239	129	1909	0.08	PPBV	#	86
74) 1,2-DIBROMOETHANE	8.586	107	2023	0.09	PPBV	#	93
75) OCTANE	9.589	43	2397	0.09	PPBV		93
77) 1,1,1,2-TETRACHLOROETHANE	10.673	131	1554	0.09	PPBV	#	37
78) CHLOROBENZENE	10.663	112	3250	0.10	PPBV		93
79) ETHYLBENZENE	11.544	91	4979	0.09	PPBV		98
80) M,P-XYLENE	11.978	91	7627m	0.21	PPBV		
81) O-XYLENE	12.914	91	3812	0.09	PPBV		97
82) STYRENE	12.702	104	2323	0.08	PPBV		95
83) NONANE	14.026	43	2527	0.10	PPBV		95
84) BROMOFORM	11.782	173	1271	0.06	PPBV	#	96
85) 1,1,2,2-TETRACHLOROETHANE	12.917	83	2922	0.09	PPBV	#	94
86) 1,2,3-TRICHLOROPROPANE	13.206	75	2200	0.10	PPBV	#	99
88) ISOPROPYLBENZENE	14.428	120	1654	0.09	PPBV		90
89) BROMOBENZENE	14.313	77	2650	0.09	PPBV		98
90) 2-CHLOROTOLUENE	15.451	126	1358m	0.09	PPBV		
91) N-PROPYLBENZENE	15.779	120	1342	0.08	PPBV	#	62
92) 4-ETHYLTOLUENE	16.145	105	4938	0.08	PPBV	#	98
93) 1,3,5-TRIMETHYLBENZENE	16.296	105	4146	0.08	PPBV	#	91
94) ALPHA-METHYLSTYRENE	16.502	118	1628	0.08	PPBV		96
95) TERT-BUTYLBENZENE	16.753	134	990	0.08	PPBV		89
96) 1,2,4-TRIMETHYLBENZENE	16.759	105	4251	0.08	PPBV		97
97) BENZYL CHLORIDE	16.849	91	1346	0.04	PPBV	#	60
98) M-DICHLOROBENZENE	16.824	146	3030	0.09	PPBV		95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61011.D
Acq On : 19 Aug 2022 11:55 am
Operator : thomash
Sample : ic2709-0.1
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 24 12:14:03 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Aug 23 20:47:14 2022
Response via : Initial Calibration

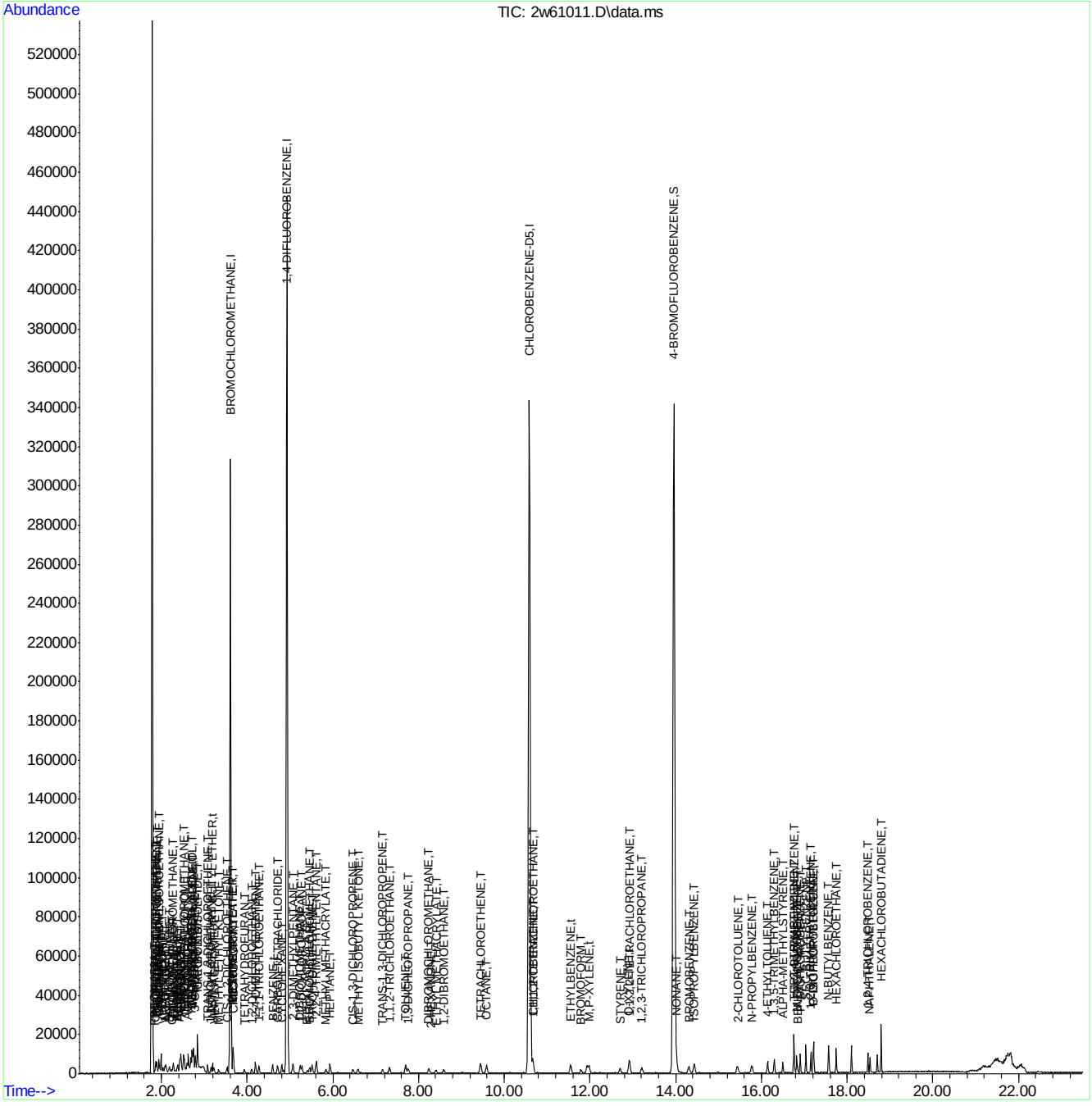
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
99)	P-DICHLOROBENZENE	16.907	146	3245	0.09	PPBV		93
100)	O-DICHLOROBENZENE	17.203	146	3018	0.09	PPBV		97
101)	SEC-BUTYLBENZENE	17.039	134	1276	0.08	PPBV		93
102)	1,2,3-TRIMETHYLBENZENE	17.148	105	4165	0.08	PPBV	#	91
103)	P-ISOPROPYLTOLUENE	17.222	134	1420	0.08	PPBV		99
104)	N-BUTYLBENZENE	17.566	134	1266	0.08	PPBV		89
105)	HEXACHLOROETHANE	17.746	117	1120	0.06	PPBV		91
106)	HEXACHLOROBUTADIENE	18.798	225	2054	0.07	PPBV	#	1
107)	1,2,4-TRICHLOROBENZENE	18.486	180	1844	0.06	PPBV		95
108)	NAPHTHALENE	18.531	128	3704	0.05	PPBV	#	70

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61011.D
Acq On : 19 Aug 2022 11:55 am
Operator : thomash
Sample : ic2709-0.1
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 24 12:14:03 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Aug 23 20:47:14 2022
Response via : Initial Calibration



Manual Integration Approval Summary

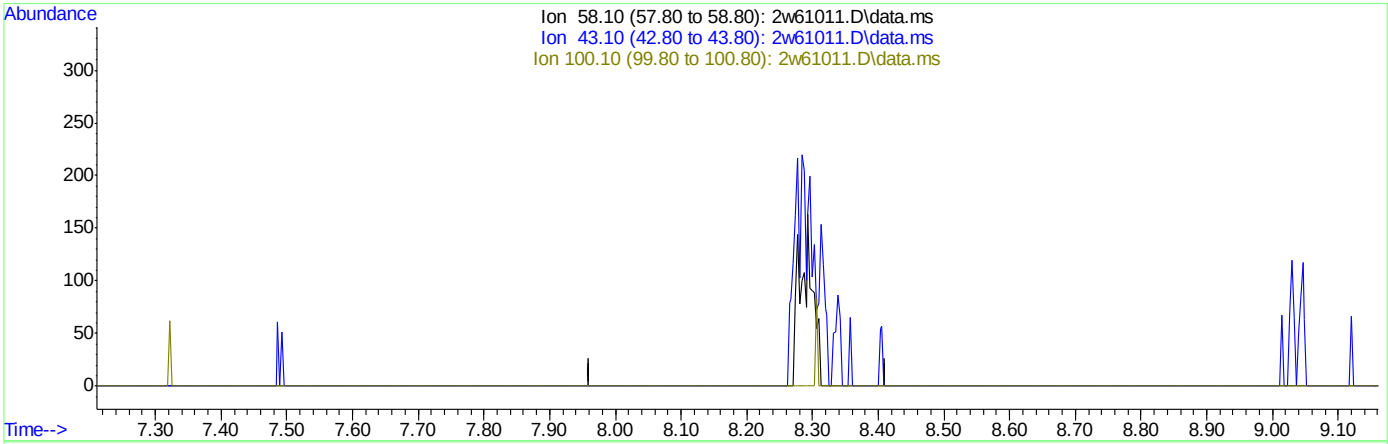
Sample Number: V2W2709-IC2709 **Method:** TO-15
Lab FileID: 2W61011.D **Analyst approved:** 08/24/22 12:25 Benjamin Kim
Injection Time: 08/19/22 11:55 **Supervisor approved:** 08/24/22 14:42 Kanya Veerawat

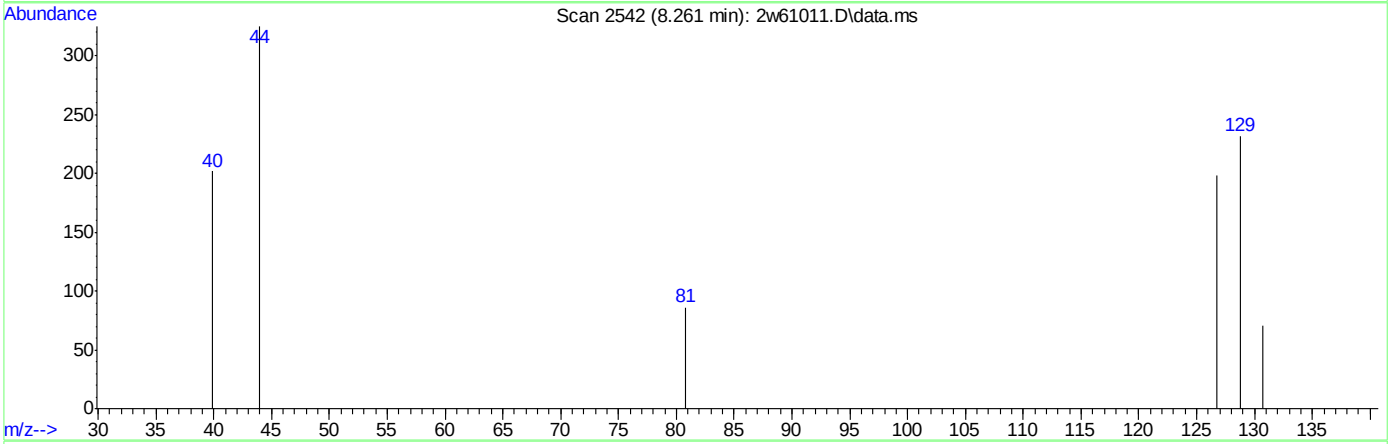
Parameter	CAS	Sig#	R.T. (min.)	Reason
Chlorodifluoromethane	75-45-6		1.86	Poor instrument integration
Chloromethane	74-87-3		1.95	Poor instrument integration
Acrolein	107-02-8		2.42	Poor instrument integration
Vinyl Acetate	108-05-4		3.23	Poor instrument integration
Methyl ethyl ketone	78-93-3		3.34	Poor instrument integration
Tetrahydrofuran	109-99-9		3.93	Poor instrument integration
2-Hexanone	591-78-6		8.29	Poor instrument integration
m,p-Xylene			11.98	Poor instrument integration
2-Chlorotoluene	95-49-8		15.45	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61011.D
Acq On : 19 Aug 2022 11:55 am
Operator : thomash
Sample : ic2709-0.1
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 23 20:47:40 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Aug 23 20:47:14 2022
Response via : Initial Calibration





TIC: 2w61011.D\data.ms

(70) 2-HEXANONE (T)

8.261min (-8.261) 0.00PPBV

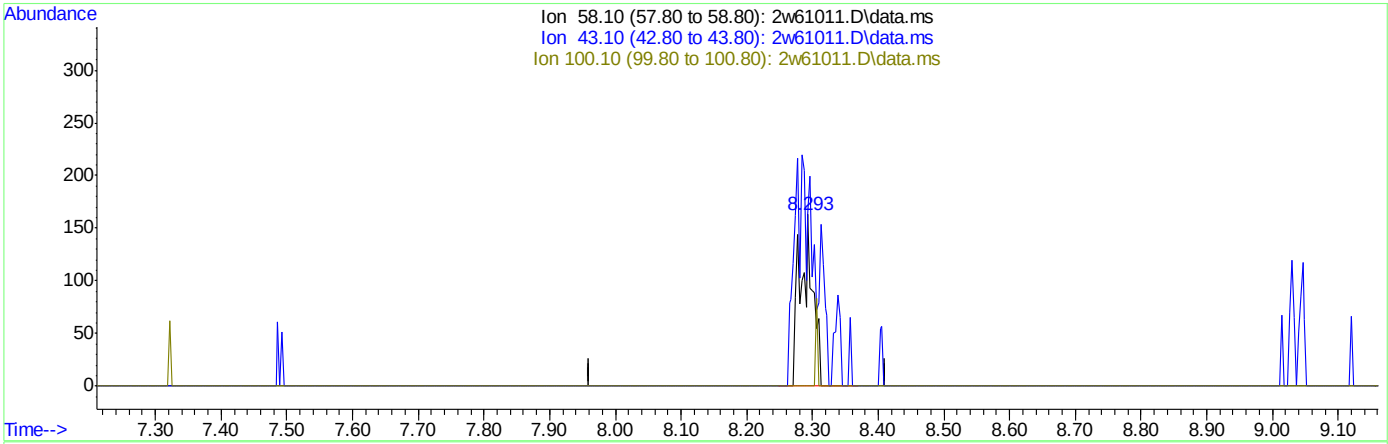
response 0

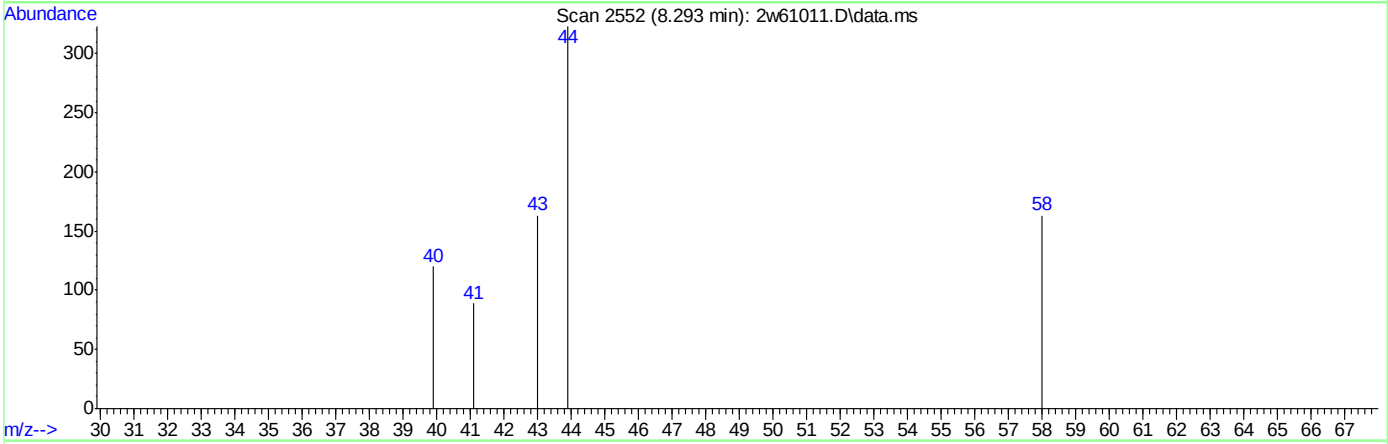
Ion	Exp%	Act%
58.10	100	0.00
43.10	8.30	0.00#
100.10	1.80	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61011.D
Acq On : 19 Aug 2022 11:55 am
Operator : thomash
Sample : ic2709-0.1
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 23 20:47:40 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Aug 23 20:47:14 2022
Response via : Initial Calibration





TIC: 2w61011.D\data.ms

(70) 2-HEXANONE (T)

8.293min (+0.032) 0.39PPBV m

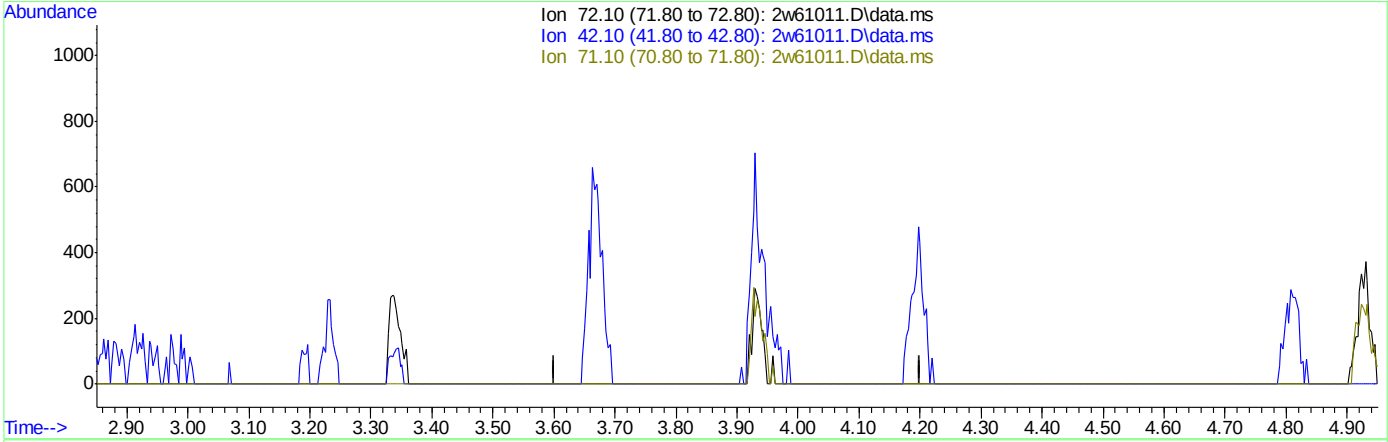
response 221

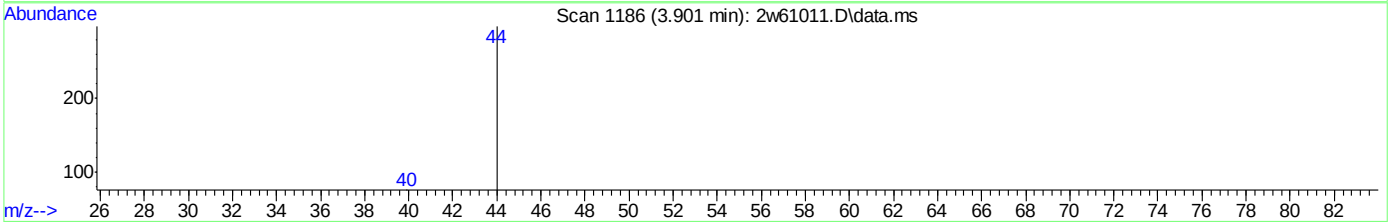
Ion	Exp%	Act%
58.10	100	100
43.10	8.30	0.00#
100.10	1.80	0.00#
0.00	0.00	0.00

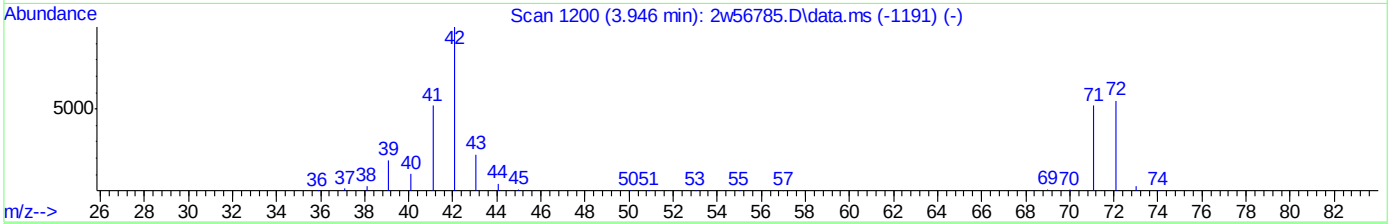
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61011.D
Acq On : 19 Aug 2022 11:55 am
Operator : thomash
Sample : ic2709-0.1
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 23 20:47:40 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Aug 23 20:47:14 2022
Response via : Initial Calibration







TIC: 2w61011.D\data.ms

(37) TETRAHYDROFURAN (T)

3.901min (-3.901) 0.00PPBV

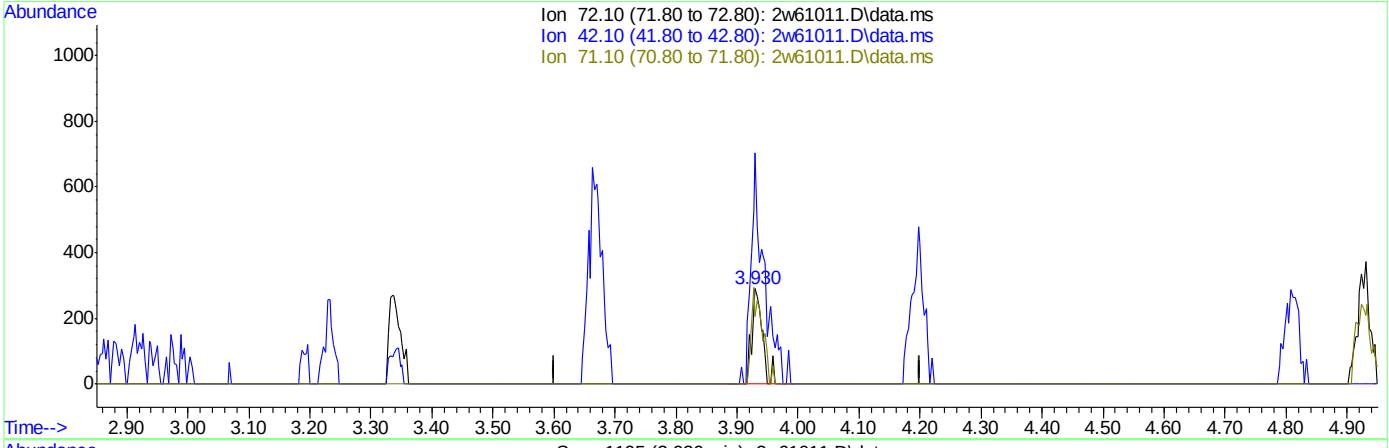
response 0

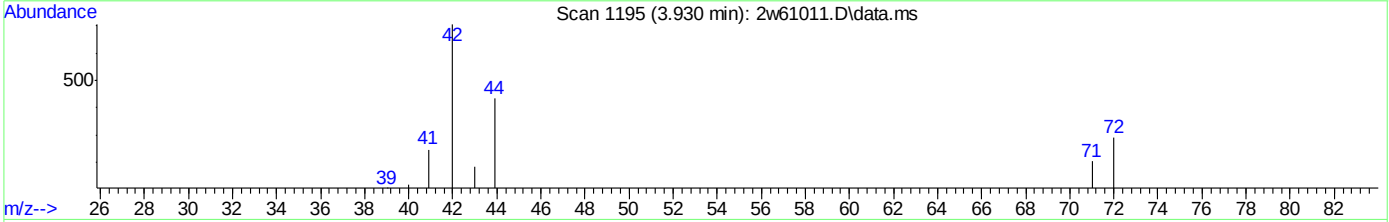
Ion	Exp%	Act%
72.10	100	0.00
42.10	219.70	0.00#
71.10	92.50	0.00#
0.00	0.00	0.00

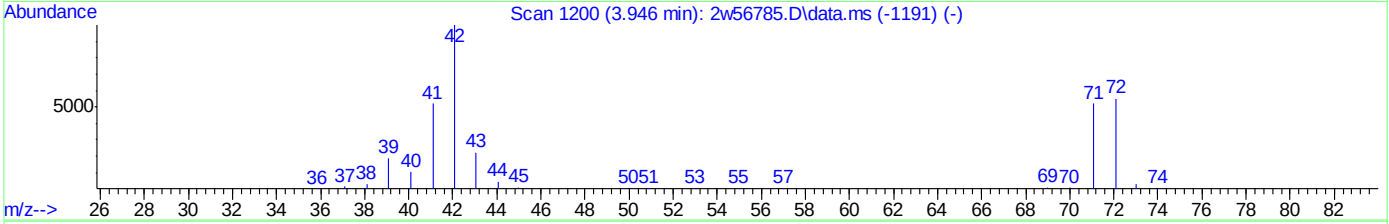
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61011.D
Acq On : 19 Aug 2022 11:55 am
Operator : thomash
Sample : ic2709-0.1
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 23 20:47:40 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Aug 23 20:47:14 2022
Response via : Initial Calibration







TIC: 2w61011.D\data.ms

(37) TETRAHYDROFURAN (T)

3.930min (+0.029) 0.07PPBV m

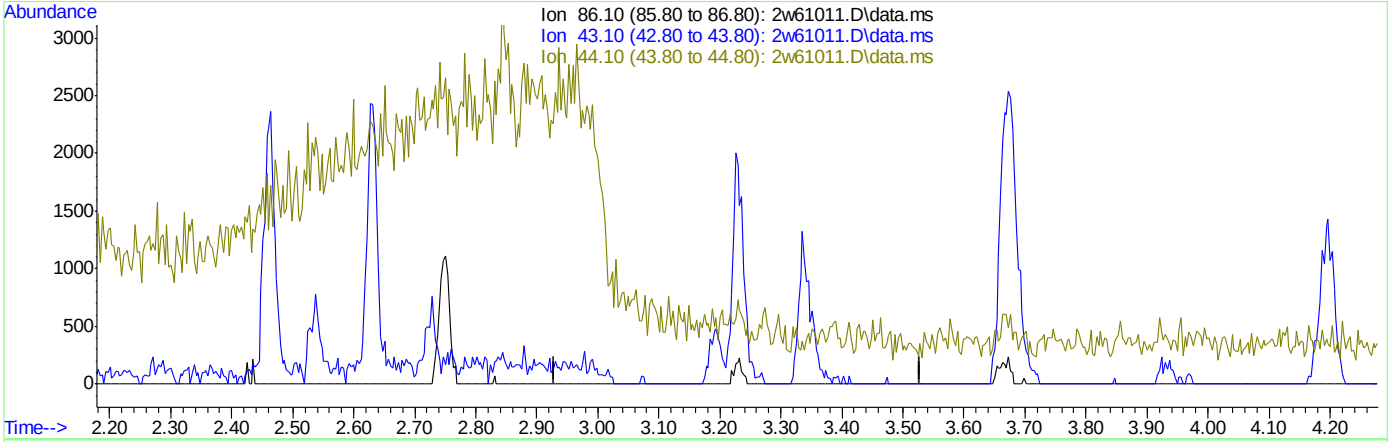
response 339

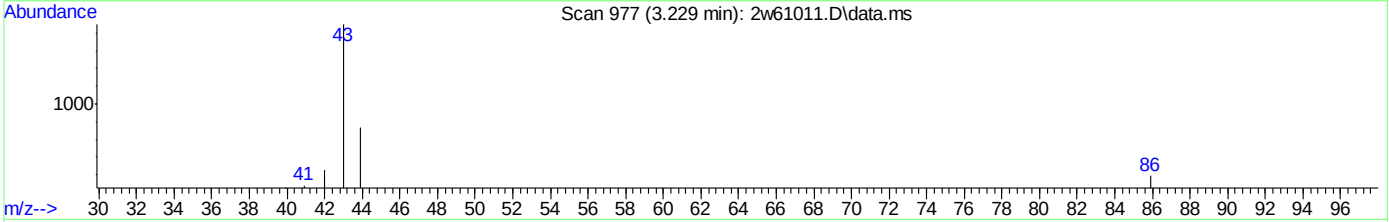
Ion	Exp%	Act%
72.10	100	100
42.10	219.70	0.00#
71.10	92.50	0.00#
0.00	0.00	0.00

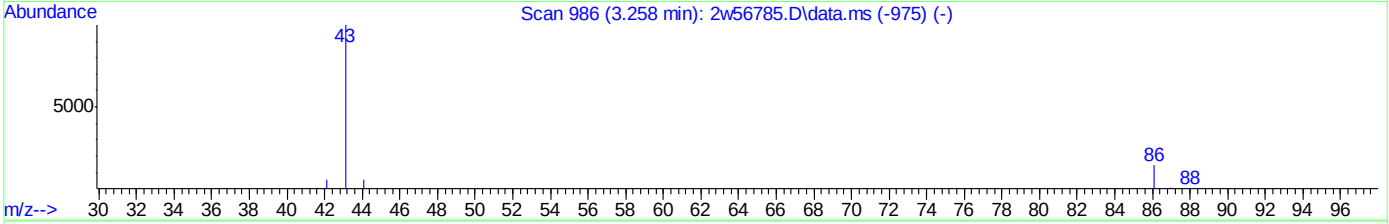
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61011.D
Acq On : 19 Aug 2022 11:55 am
Operator : thomash
Sample : ic2709-0.1
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 23 20:47:40 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Aug 23 20:47:14 2022
Response via : Initial Calibration







TIC: 2w61011.D\data.ms

(39) VINYL ACETATE (T)

3.229min (-3.229) 0.00PPBV

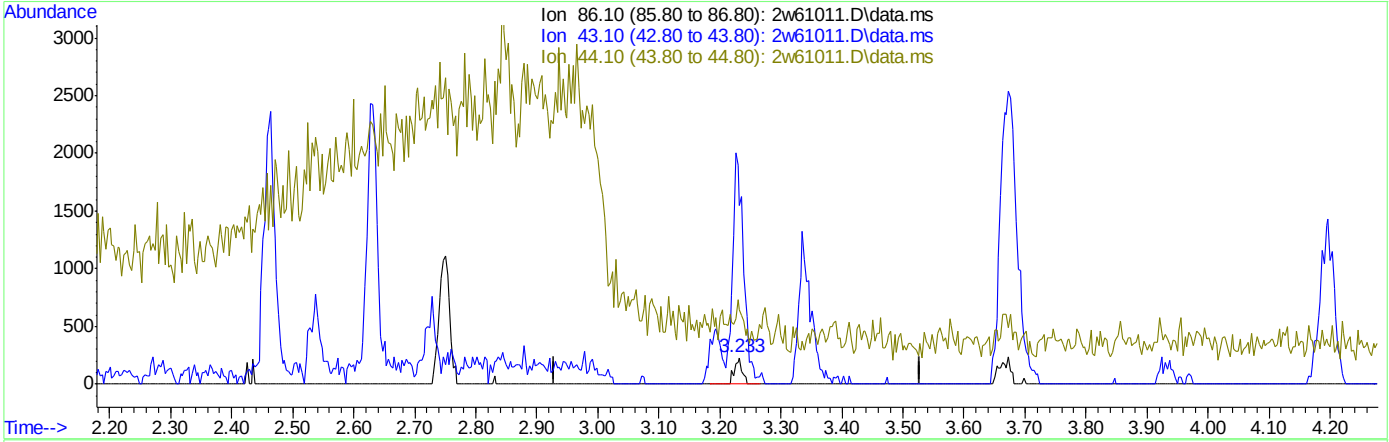
response 0

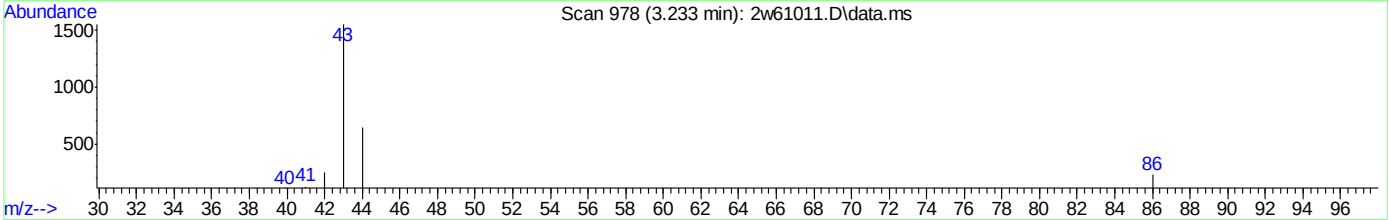
Ion	Exp%	Act%
86.10	100	0.00
43.10	958.60	0.00#
44.10	52.20	0.00#
0.00	0.00	0.00

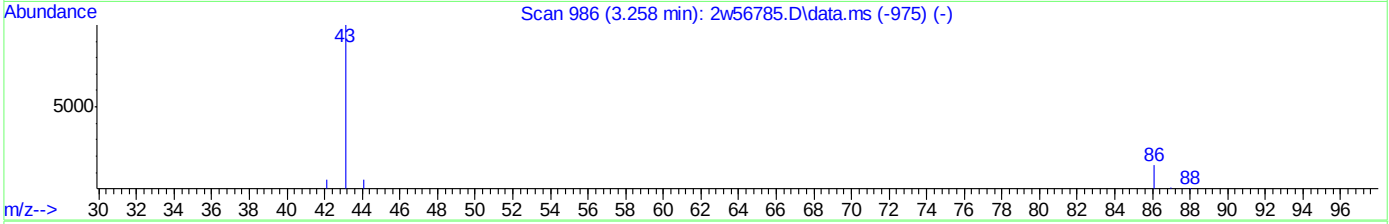
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61011.D
Acq On : 19 Aug 2022 11:55 am
Operator : thomash
Sample : ic2709-0.1
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 23 20:47:40 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Aug 23 20:47:14 2022
Response via : Initial Calibration







TIC: 2w61011.D\data.ms

(39) VINYL ACETATE (T)

3.233min (+0.004) 0.08PPBV m

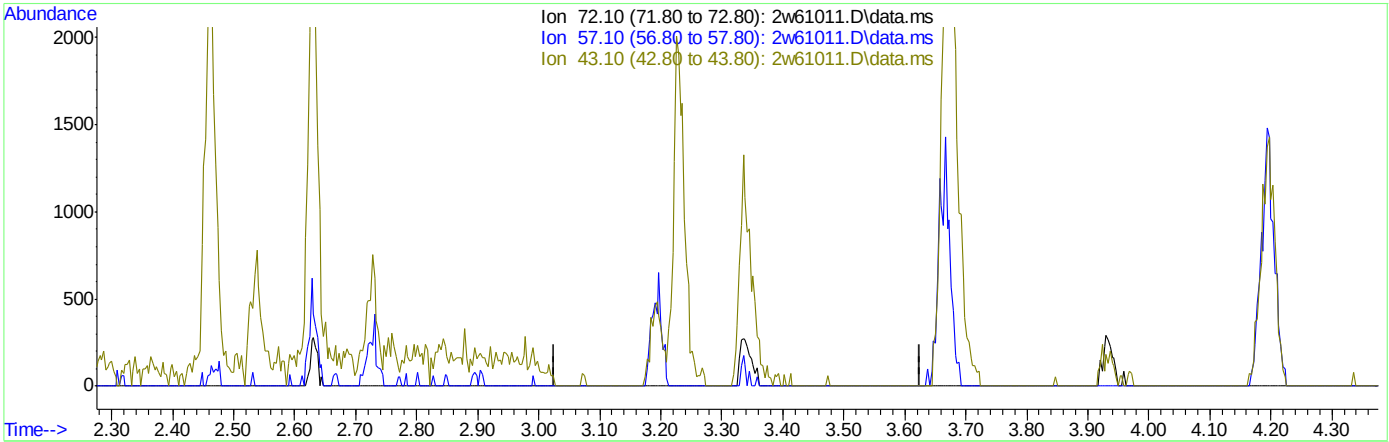
response 201

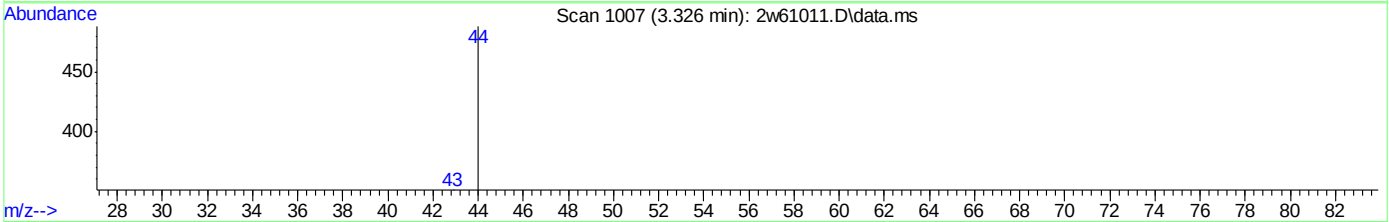
Ion	Exp%	Act%
86.10	100	100
43.10	958.60	0.00#
44.10	52.20	0.00#
0.00	0.00	0.00

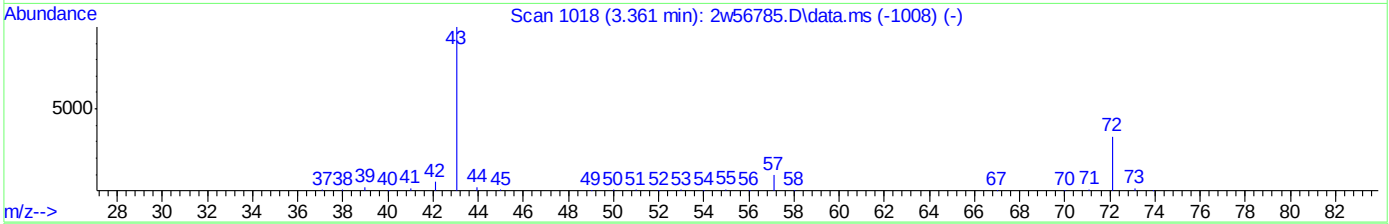
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61011.D
Acq On : 19 Aug 2022 11:55 am
Operator : thomash
Sample : ic2709-0.1
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 23 20:47:40 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Aug 23 20:47:14 2022
Response via : Initial Calibration







TIC: 2w61011.D\data.ms

(41) METHYL ETHYL KETONE (T)

3.326min (-3.326) 0.00PPBV

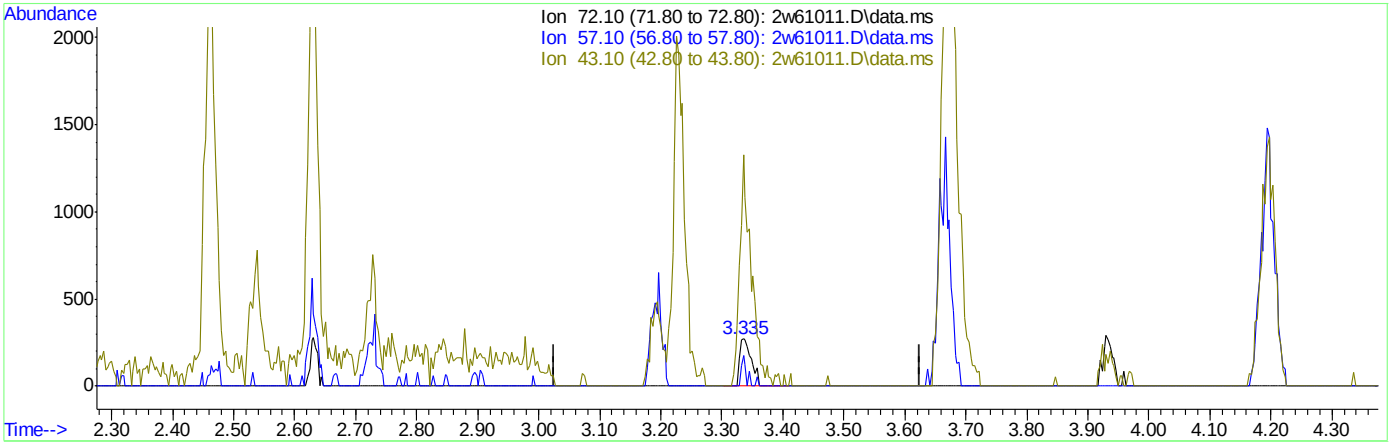
response 0

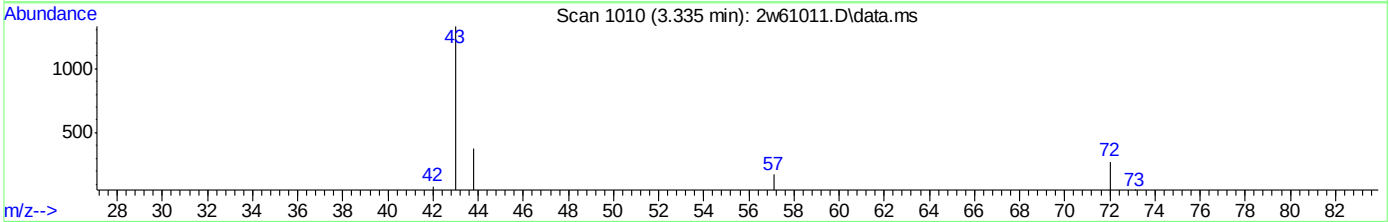
Ion	Exp%	Act%
72.10	100	0.00
57.10	36.40	0.00#
43.10	401.20	0.00#
0.00	0.00	0.00

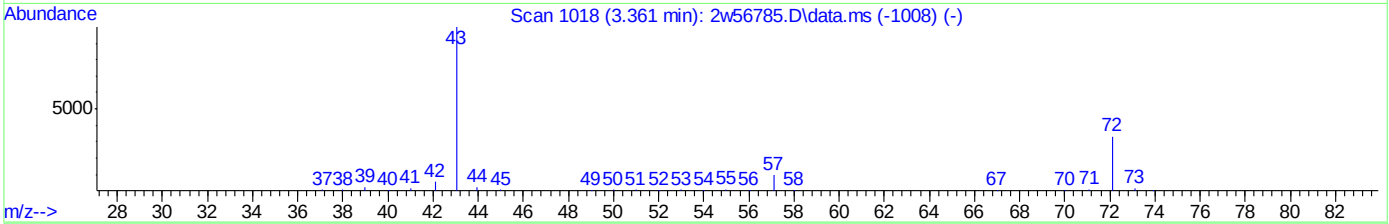
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61011.D
Acq On : 19 Aug 2022 11:55 am
Operator : thomash
Sample : ic2709-0.1
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 23 20:47:40 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Aug 23 20:47:14 2022
Response via : Initial Calibration







TIC: 2w61011.D\data.ms

(41) METHYL ETHYL KETONE (T)

3.335min (+0.009) 0.07PPBV m

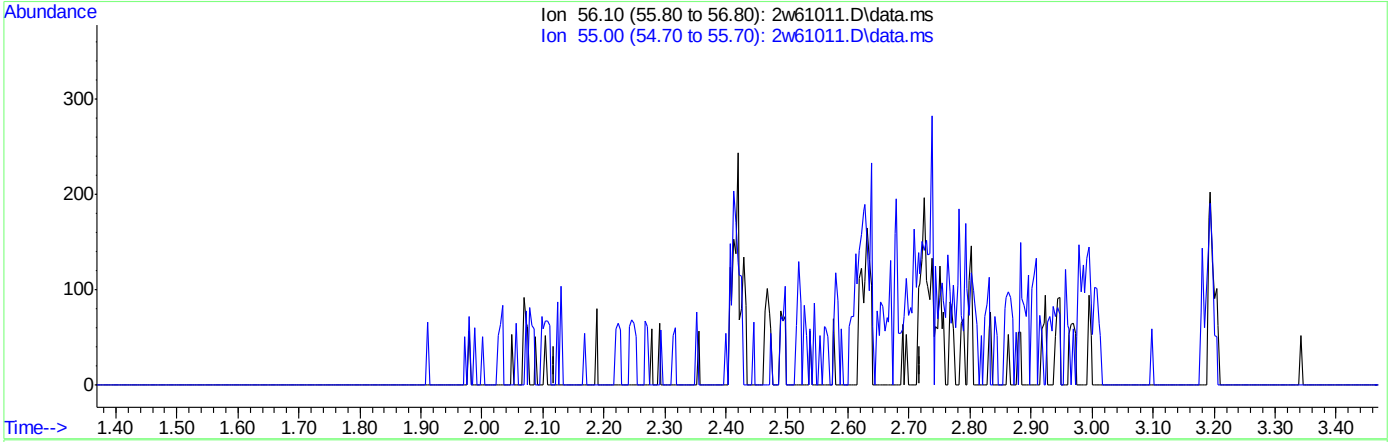
response 351

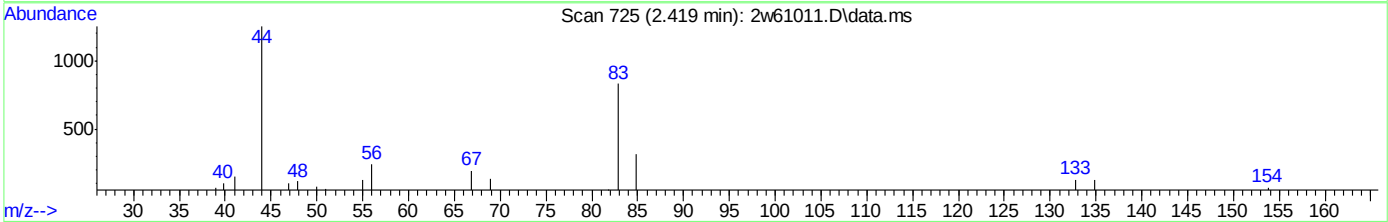
Ion	Exp%	Act%
72.10	100	100
57.10	36.40	0.00#
43.10	401.20	0.00#
0.00	0.00	0.00

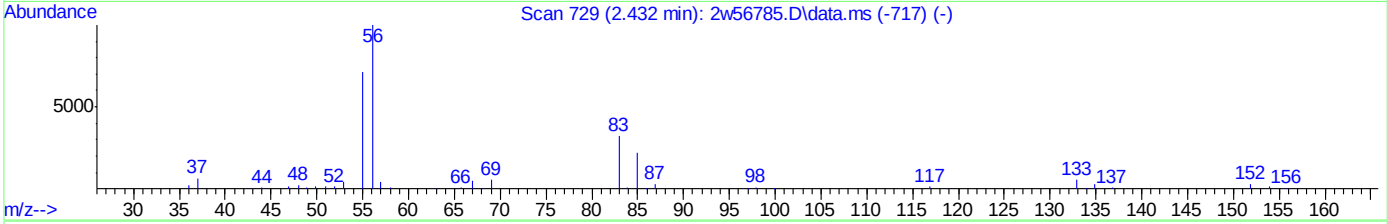
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61011.D
Acq On : 19 Aug 2022 11:55 am
Operator : thomash
Sample : ic2709-0.1
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 23 20:47:40 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Aug 23 20:47:14 2022
Response via : Initial Calibration







TIC: 2w61011.D\data.ms

(18) ACROLEIN (T)

2.419min (-2.419) 0.00PPBV

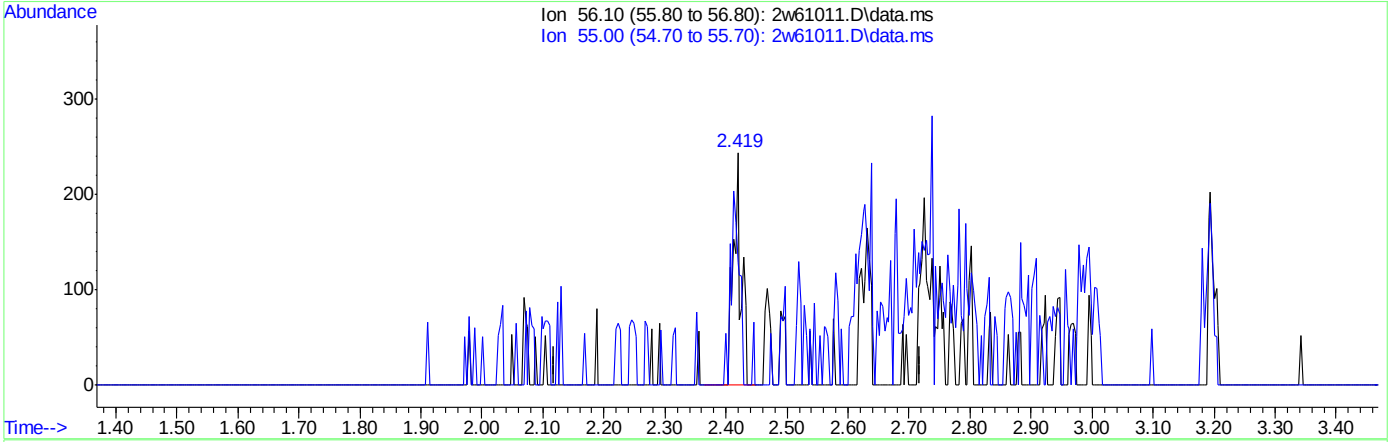
response 0

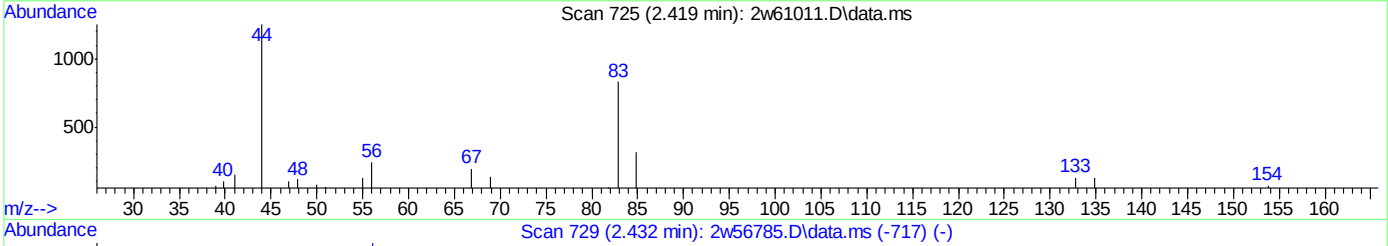
Ion	Exp%	Act%
56.10	100	0.00
55.00	71.10	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

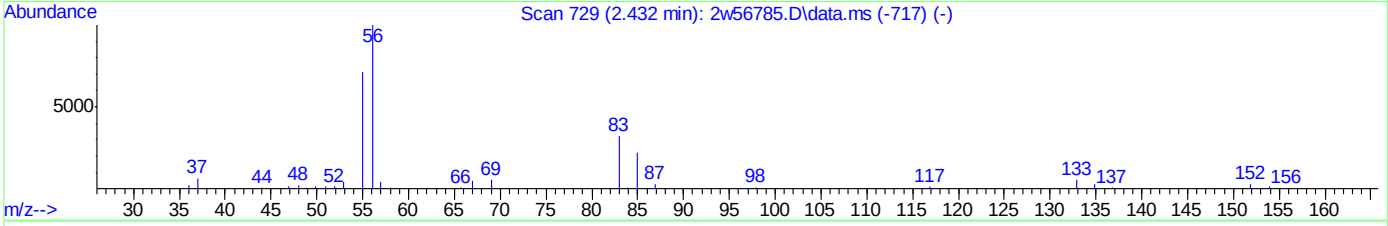
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61011.D
Acq On : 19 Aug 2022 11:55 am
Operator : thomash
Sample : ic2709-0.1
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 23 20:47:40 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Aug 23 20:47:14 2022
Response via : Initial Calibration







TIC: 2w61011.D\data.ms

(18) ACROLEIN (T)

2.419min (+0.000) 0.05PPBV m

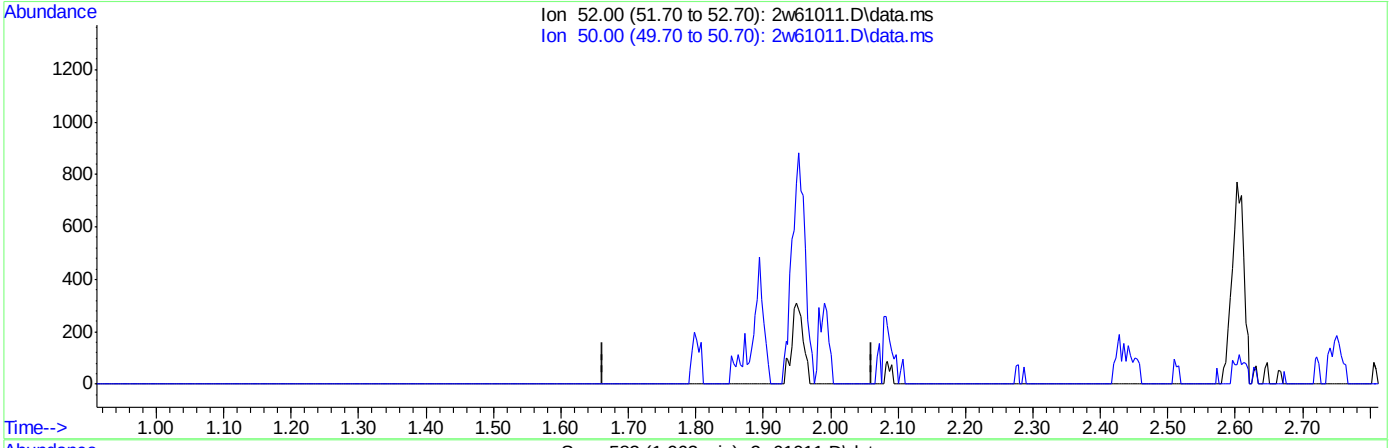
response 214

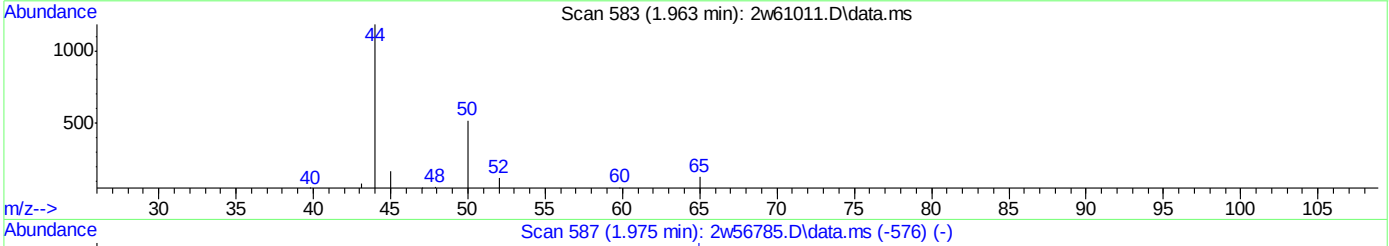
Ion	Exp%	Act%
56.10	100	100
55.00	71.10	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

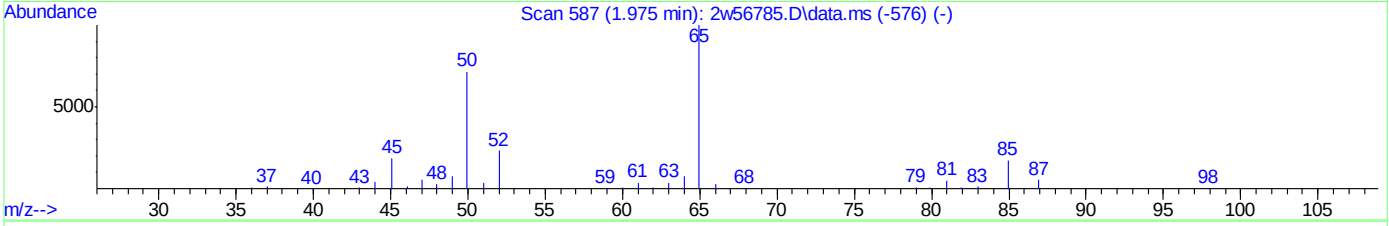
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61011.D
Acq On : 19 Aug 2022 11:55 am
Operator : thomash
Sample : ic2709-0.1
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 23 20:47:40 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Aug 23 20:47:14 2022
Response via : Initial Calibration







TIC: 2w61011.D\data.ms

(10) CHLOROMETHANE (T)

1.962min (-1.962) 0.00PPBV

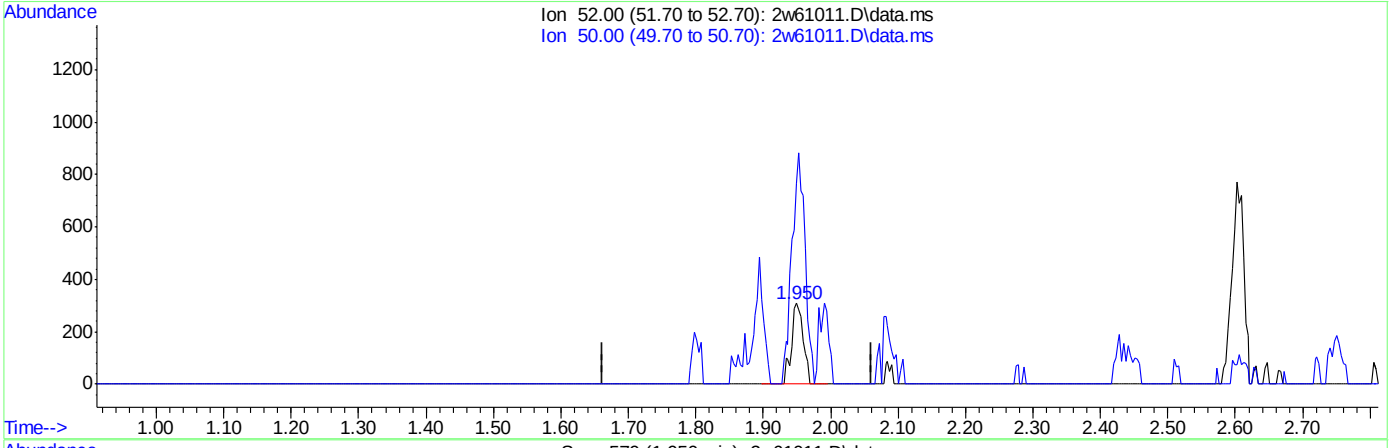
response 0

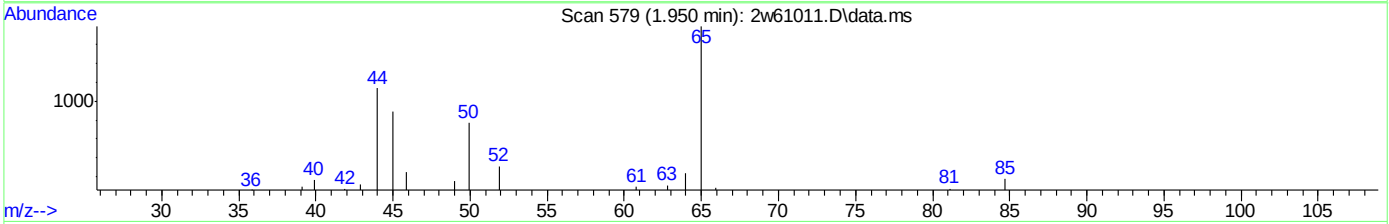
Ion	Exp%	Act%
52.00	100	0.00
50.00	309.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

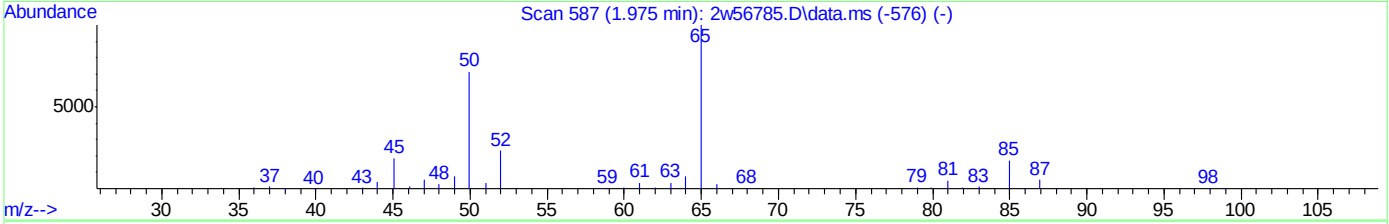
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61011.D
Acq On : 19 Aug 2022 11:55 am
Operator : thomash
Sample : ic2709-0.1
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 23 20:47:40 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Aug 23 20:47:14 2022
Response via : Initial Calibration







TIC: 2w61011.D\data.ms

(10) CHLOROMETHANE (T)

1.950min (-0.012) 0.11PPBV m

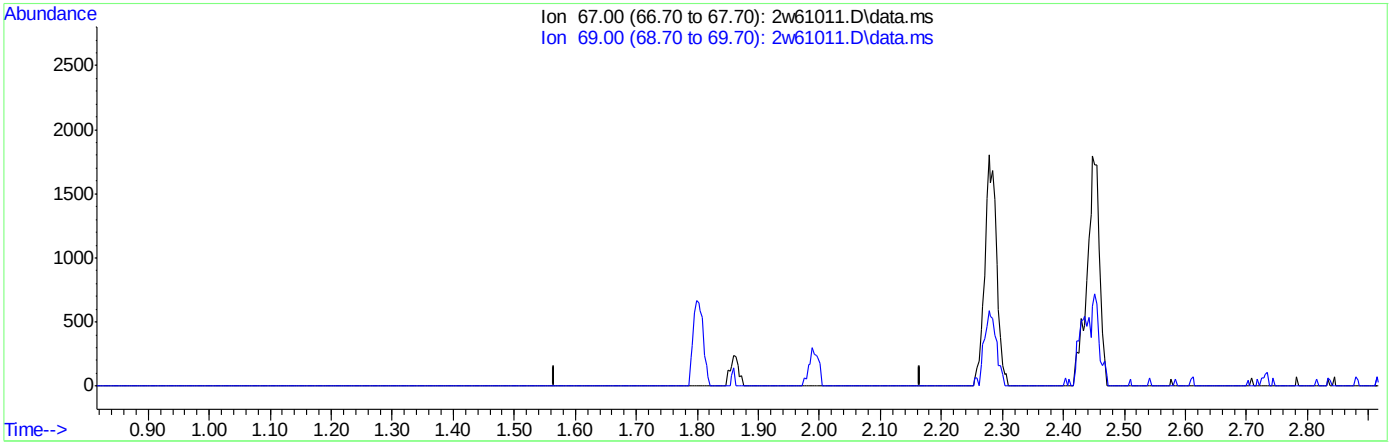
response 371

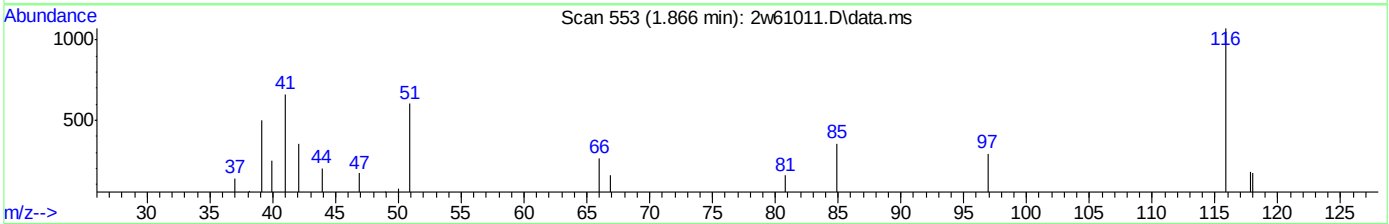
Ion	Exp%	Act%
52.00	100	100
50.00	309.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

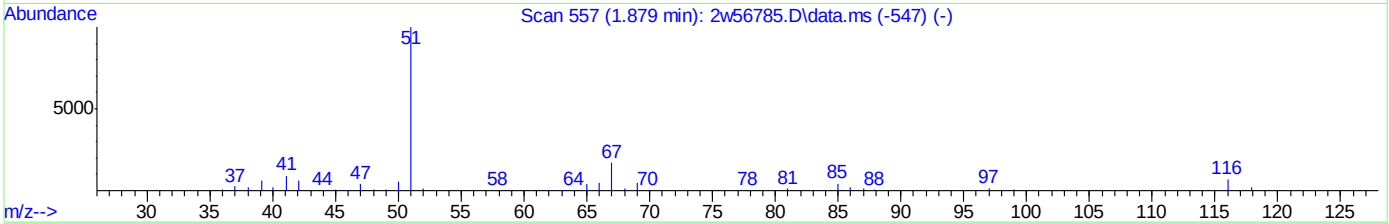
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61011.D
Acq On : 19 Aug 2022 11:55 am
Operator : thomash
Sample : ic2709-0.1
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 23 20:47:40 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Aug 23 20:47:14 2022
Response via : Initial Calibration







TIC: 2w61011.D\data.ms

(4) CHLORODIFLUOROMETHANE (T)

1.866min (-1.866) 0.00PPBV

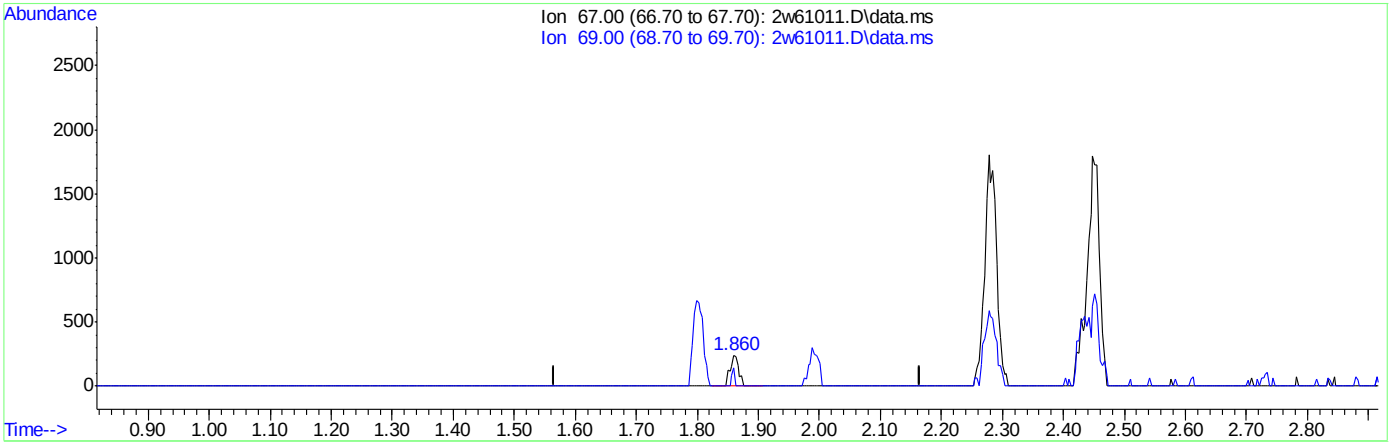
response 0

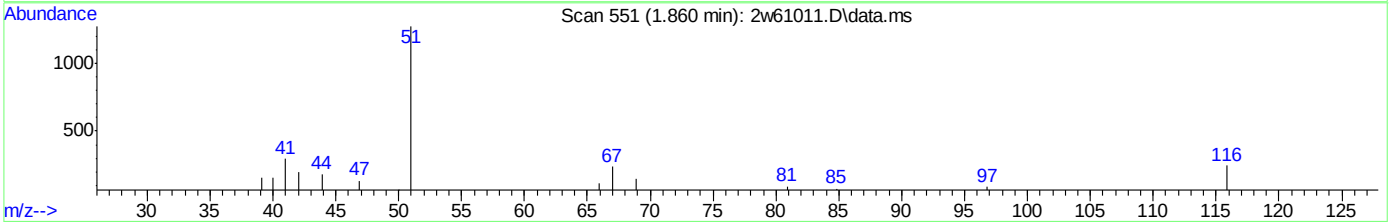
Ion	Exp%	Act%
67.00	100	0.00
69.00	34.20	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

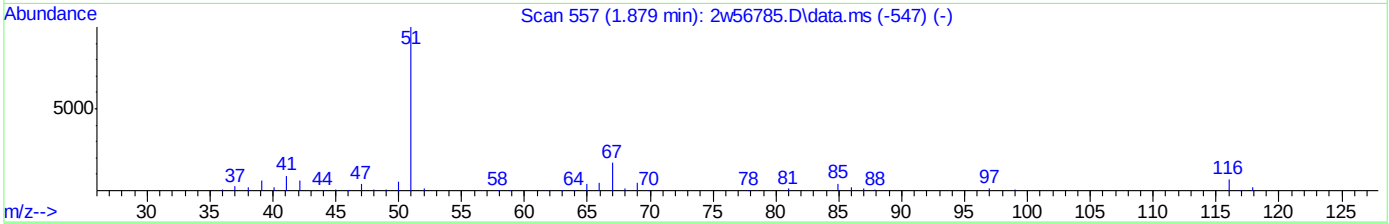
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61011.D
Acq On : 19 Aug 2022 11:55 am
Operator : thomash
Sample : ic2709-0.1
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 23 20:47:40 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Aug 23 20:47:14 2022
Response via : Initial Calibration







TIC: 2w61011.D\data.ms

(4) CHLORODIFLUOROMETHANE (T)

1.860min (-0.006) 0.09PPBV m

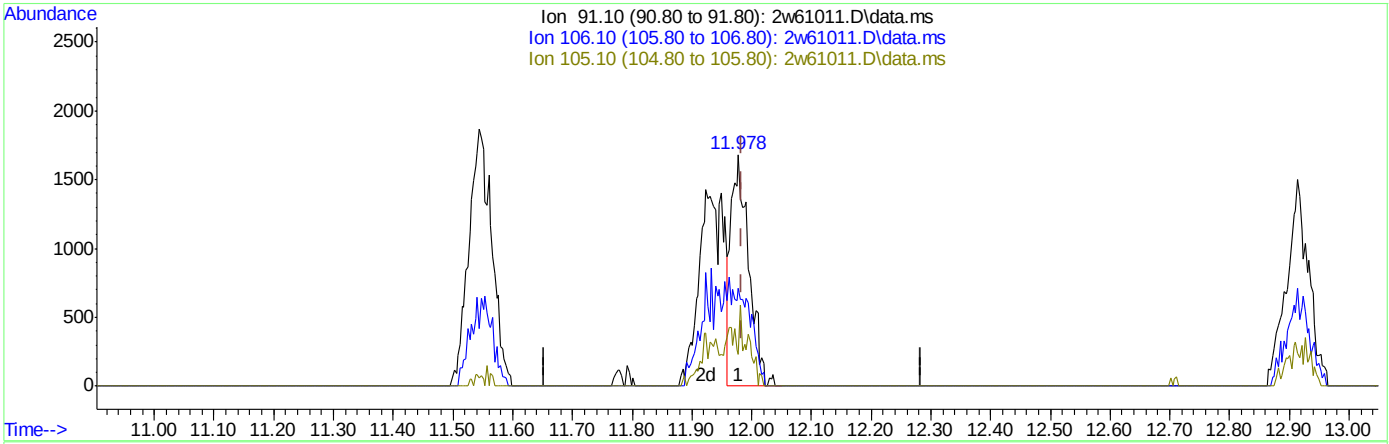
response 226

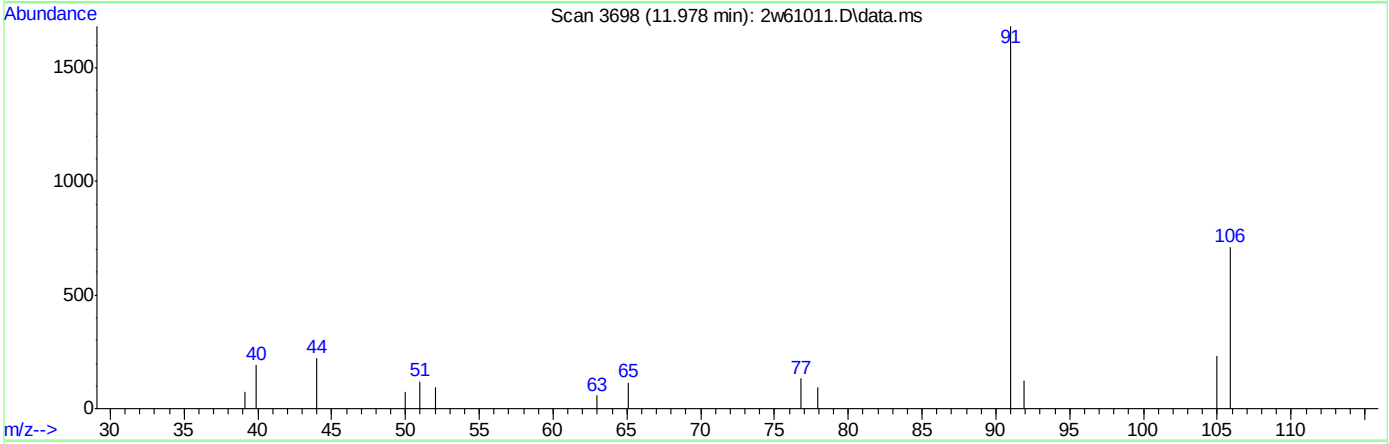
Ion	Exp%	Act%
67.00	100	100
69.00	34.20	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61011.D
Acq On : 19 Aug 2022 11:55 am
Operator : thomash
Sample : ic2709-0.1
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 23 20:49:12 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Aug 23 20:47:14 2022
Response via : Initial Calibration





TIC: 2w61011.D\data.ms

(80) M,P-XYLENE (t)

11.978min (-0.006) 0.10PPBV

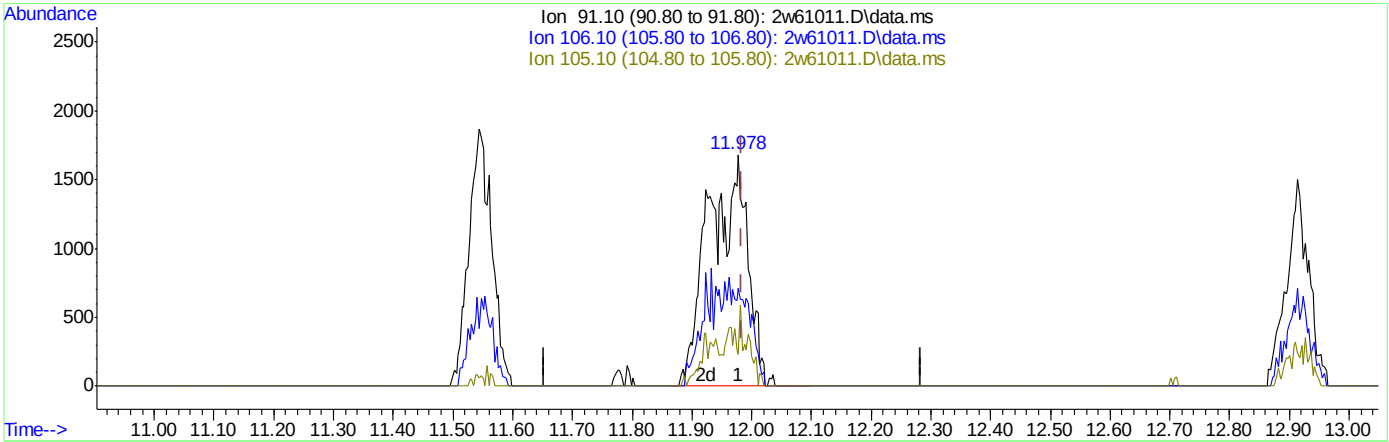
response 3518

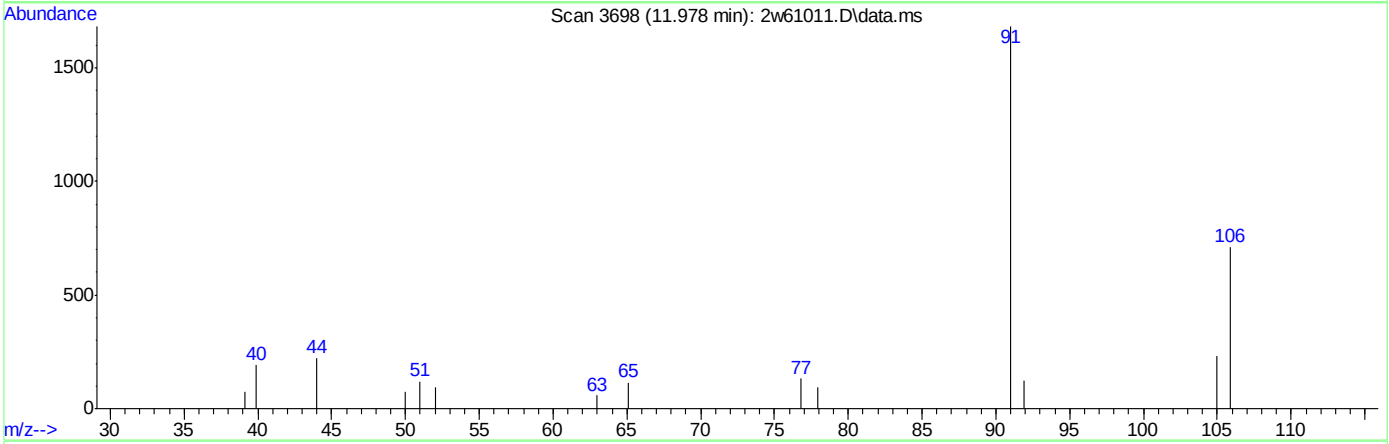
Ion	Exp%	Act%
91.10	100	100
106.10	23.00	44.03#
105.10	10.90	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61011.D
Acq On : 19 Aug 2022 11:55 am
Operator : thomash
Sample : ic2709-0.1
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 23 20:49:12 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Aug 23 20:47:14 2022
Response via : Initial Calibration





TIC: 2w61011.D\data.ms

(80) M,P-XYLENE (t)

11.978min (-0.006) 0.21PPBV m

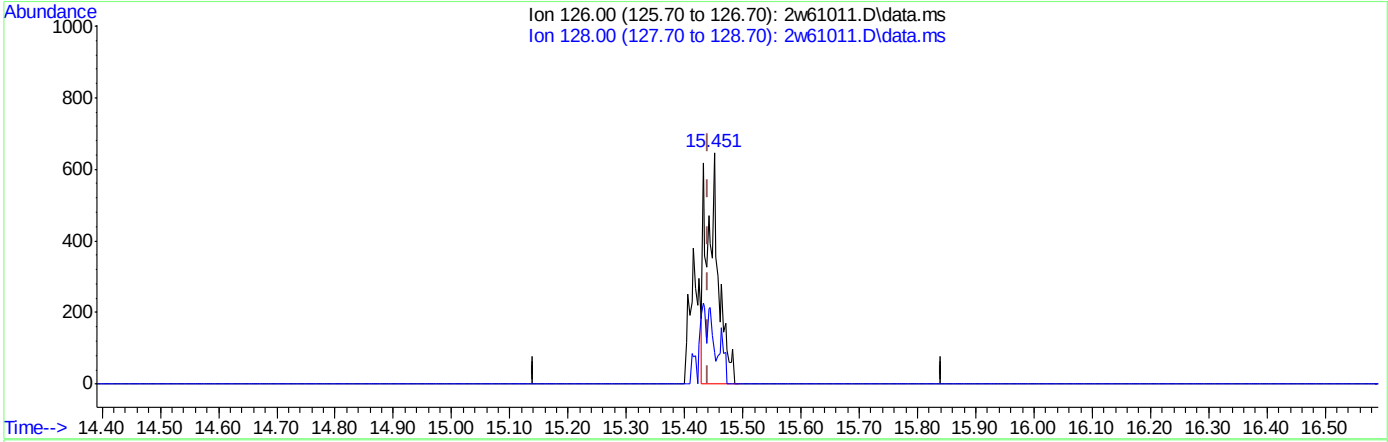
response 7627

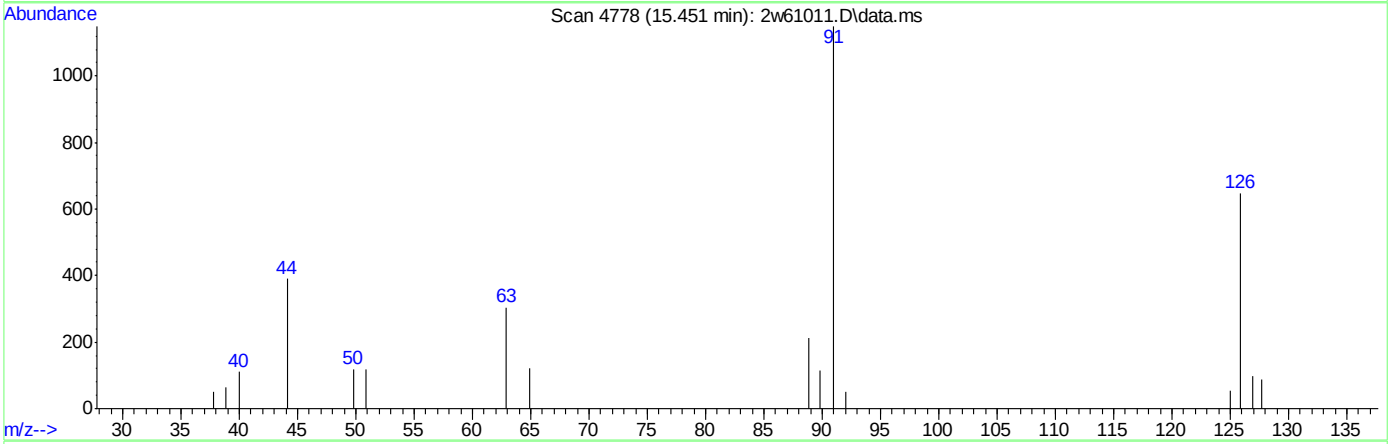
Ion	Exp%	Act%
91.10	100	100
106.10	23.00	20.31
105.10	10.90	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61011.D
Acq On : 19 Aug 2022 11:55 am
Operator : thomash
Sample : ic2709-0.1
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 23 20:49:12 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Aug 23 20:47:14 2022
Response via : Initial Calibration





TIC: 2w61011.D\data.ms

(90) 2-CHLOROTOLUENE (T)

15.451min (+0.010) 0.06PPBV

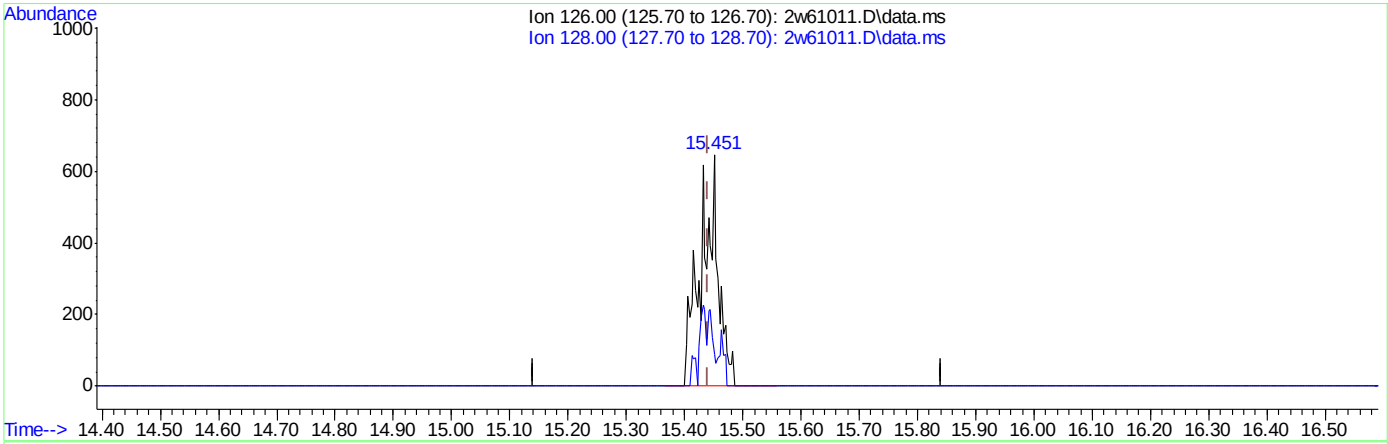
response 945

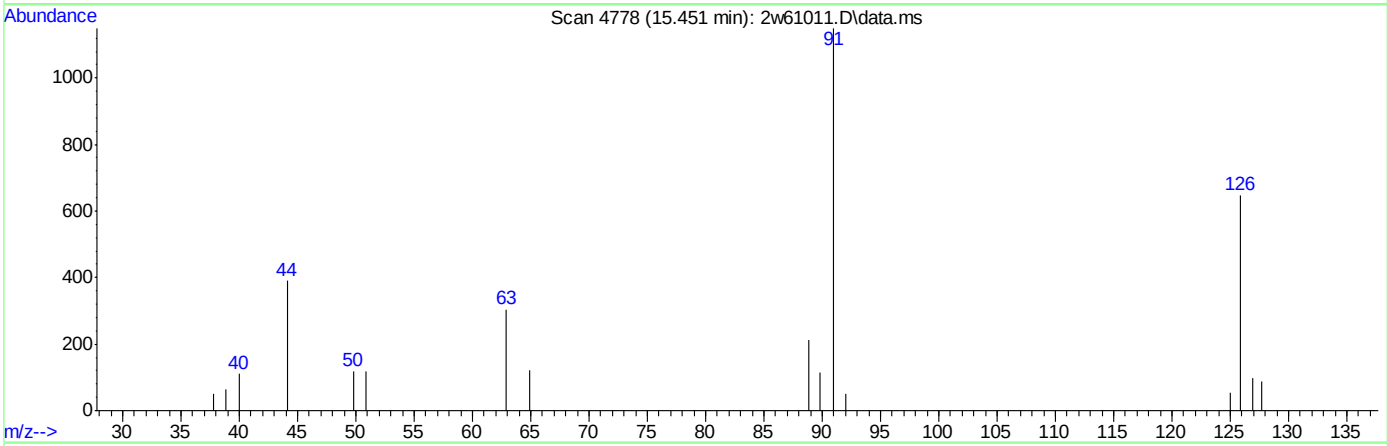
Ion	Exp%	Act%
126.00	100	100
128.00	32.40	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61011.D
Acq On : 19 Aug 2022 11:55 am
Operator : thomash
Sample : ic2709-0.1
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 23 20:49:12 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Tue Aug 23 20:47:14 2022
Response via : Initial Calibration





TIC: 2w61011.D\data.ms

(90) 2-CHLOROTOLUENE (T)

15.451min (+0.010) 0.09PPBV m

response 1358

Ion	Exp%	Act%
126.00	100	100
128.00	32.40	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/24/22 14:44

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61012.D
Acq On : 19 Aug 2022 12:27 pm
Operator : thomash
Sample : ic2709-0.2
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 26 18:41:58 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 21:54:11 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.611	128	64509	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.927	114	353558	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	10.585	117	315511	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.958	95	204068	9.70	PPBV		0.00
Target Compounds							Qvalue
3) FREON 152A	1.843	65	1064	0.19	PPBV	#	48
4) CHLORODIFLUOROMETHANE	1.862	67	468m	0.19	PPBV		
5) CHLOROTRIFLUOROETHENE	1.878	116	2747	0.19	PPBV	#	1
6) DICHLORODIFLUOROMETHANE	1.898	85	6218	0.20	PPBV	#	63
7) PROPYLENE	1.875	41	1247	0.21	PPBV		97
8) 1-CHLORO-1,1-DIFLUOROE...	1.949	65	4676	0.19	PPBV	#	61
9) FREON 114	1.994	85	5721	0.20	PPBV		98
10) CHLOROMETHANE	1.952	52	709	0.22	PPBV		94
11) VINYL CHLORIDE	2.039	62	2175	0.19	PPBV	#	92
12) 1,3-BUTADIENE	2.084	54	1768	0.20	PPBV		91
13) N-BUTANE	2.107	43	3294	0.23	PPBV	#	97
14) BROMOMETHANE	2.193	94	2081	0.21	PPBV	#	95
15) CHLOROETHANE	2.255	64	1105	0.18	PPBV	#	58
16) DICHLOROFLUOROMETHANE	2.284	67	4766	0.20	PPBV		98
17) ACETONITRILE	2.374	41	1928	0.22	PPBV	#	80
18) ACROLEIN	2.412	56	435m	0.12	PPBV		
19) FREON 123	2.435	83	5136	0.19	PPBV		98
20) FREON 123A	2.451	117	2873	0.19	PPBV		91
21) TRICHLOROFLUOROMETHANE	2.521	101	6324	0.19	PPBV	#	1
22) ISOPROPYL ALCOHOL	2.534	45	5508	0.21	PPBV	#	97
23) ACETONE	2.467	58	2320	0.27	PPBV		77
24) PENTANE	2.631	42	3176	0.22	PPBV		93
25) IODOMETHANE	2.685	142	6326	0.20	PPBV		97
26) 1,1-DICHLOROETHYLENE	2.711	96	2524	0.20	PPBV		99
27) CARBON DISULFIDE	2.846	76	7009	0.19	PPBV	#	81
28) ETHANOL	2.287	45	1342	0.26	PPBV	#	41
29) BROMOETHENE	2.380	106	2030	0.19	PPBV	#	100
30) ACRYLONITRILE	2.599	52	2087	0.20	PPBV		99
31) METHYLENE CHLORIDE	2.747	84	3521	0.27	PPBV		95
32) 3-CHLOROPROPENE	2.785	76	1417	0.21	PPBV	#	79
33) FREON 113	2.843	151	4105	0.19	PPBV		95
34) TRANS-1,2-DICHLOROETHENE	3.078	96	2132	0.20	PPBV		98
35) TERTIARY BUTYL ALCOHOL	2.721	59	6767	0.21	PPBV		95
36) METHYL TERTIARY BUTYL ...	3.190	73	5366	0.20	PPBV	#	84
37) TETRAHYDROFURAN	3.933	72	916	0.19	PPBV		93
38) HEXANE	3.663	57	3493	0.19	PPBV		96
39) VINYL ACETATE	3.235	86	426m	0.16	PPBV		
40) 1,1-DICHLOROETHANE	3.155	63	3963	0.21	PPBV	#	88
41) METHYL ETHYL KETONE	3.338	72	914	0.19	PPBV	#	92
42) CIS-1,2-DICHLOROETHENE	3.531	96	2323	0.20	PPBV		94
43) DIISOPROPYL ETHER	3.666	59	1027	0.20	PPBV		91

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61012.D
Acq On : 19 Aug 2022 12:27 pm
Operator : thomash
Sample : ic2709-0.2
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 26 18:41:58 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 21:54:11 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) ETHYL ACETATE	3.673	61	647	0.18	PPBV	#	68
45) METHYL ACRYLATE	3.666	55	3643	0.17	PPBV	#	91
46) CHLOROFORM	3.682	83	4521	0.20	PPBV		94
47) 2,4-DIMETHYLPENTANE	4.197	57	4425	0.20	PPBV		98
48) 1,1,1-TRICHLOROETHANE	4.280	97	4515	0.20	PPBV		100
49) CARBON TETRACHLORIDE	4.711	117	4093	0.18	PPBV		100
50) 1,2-DICHLOROETHANE	4.107	62	3092	0.19	PPBV	#	100
51) BENZENE	4.599	78	6872	0.21	PPBV		97
53) CYCLOHEXANE	4.808	84	2995	0.20	PPBV		97
54) 2,3-DIMETHYLPENTANE	5.068	71	1389	0.19	PPBV	#	97
55) TRICHLOROETHENE	5.521	95	2855	0.18	PPBV		95
56) 1,2-DICHLOROPROPANE	5.283	63	2647	0.20	PPBV		98
57) DIBROMOMETHANE	5.238	174	3143	0.20	PPBV		98
58) ETHYL ACRYLATE	5.399	55	4024	0.17	PPBV	#	74
59) BROMODICHLOROMETHANE	5.460	83	4359	0.18	PPBV		98
60) 2,2,4-TRIMETHYLPENTANE	5.611	57	11990	0.20	PPBV		99
61) 1,4-DIOXANE	5.582	88	1216	0.17	PPBV	#	74
62) HEPTANE	5.926	43	3821	0.21	PPBV		96
63) METHYL METHACRYLATE	5.833	69	1829	0.17	PPBV		92
64) METHYL ISOBUTYL KETONE	6.579	58	1468	0.16	PPBV	#	91
65) CIS-1,3-DICHLOROPROPENE	6.470	75	3039	0.17	PPBV		92
66) TOLUENE	7.698	91	7872	0.19	PPBV		98
67) 1,3-DICHLOROPROPANE	7.750	76	3769	0.19	PPBV	#	91
68) TRANS-1,3-DICHLOROPROPENE	7.164	75	2315	0.15	PPBV		92
69) 1,1,2-TRICHLOROETHANE	7.325	83	2304	0.18	PPBV		96
70) 2-HEXANONE	8.290	58	532	0.06	PPBV	#	1
71) ETHYL METHACRYLATE	8.399	69	2146	0.14	PPBV	#	77
72) TETRACHLOROETHENE	9.447	164	3504	0.20	PPBV		98
73) DIBROMOCHLOROMETHANE	8.229	129	3734	0.16	PPBV		98
74) 1,2-DIBROMOETHANE	8.582	107	4009	0.18	PPBV	#	97
75) OCTANE	9.595	43	4808	0.19	PPBV		98
77) 1,1,1,2-TETRACHLOROETHANE	10.669	131	2959	0.18	PPBV		99
78) CHLOROBENZENE	10.656	112	6633	0.20	PPBV		95
79) ETHYLBENZENE	11.550	91	9979	0.18	PPBV		98
80) M,P-XYLENE	11.984	91	14963m	0.36	PPBV		
81) O-XYLENE	12.913	91	7941	0.19	PPBV		93
82) STYRENE	12.704	104	4915	0.16	PPBV		99
83) NONANE	14.029	43	4867	0.19	PPBV		94
84) BROMOFORM	11.788	173	2475	0.13	PPBV	#	88
85) 1,1,2,2-TETRACHLOROETHANE	12.923	83	5839	0.19	PPBV	#	95
86) 1,2,3-TRICHLOROPROPANE	13.216	75	4250	0.18	PPBV	#	99
88) ISOPROPYLBENZENE	14.434	120	3299	0.19	PPBV		99
89) BROMOBENZENE	14.296	77	5420	0.18	PPBV	#	39
90) 2-CHLOROTOLUENE	15.431	126	2677	0.18	PPBV		99
91) N-PROPYLBENZENE	15.772	120	2818	0.17	PPBV	#	62
92) 4-ETHYLTOLUENE	16.142	105	9947	0.17	PPBV	#	99
93) 1,3,5-TRIMETHYLBENZENE	16.296	105	8565	0.17	PPBV		99
94) ALPHA-METHYLSTYRENE	16.498	118	3096	0.15	PPBV		98
95) TERT-BUTYLBENZENE	16.756	134	2261	0.18	PPBV		95
96) 1,2,4-TRIMETHYLBENZENE	16.765	105	8595	0.17	PPBV		94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61012.D
Acq On : 19 Aug 2022 12:27 pm
Operator : thomash
Sample : ic2709-0.2
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 26 18:41:58 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 21:54:11 2022
Response via : Initial Calibration

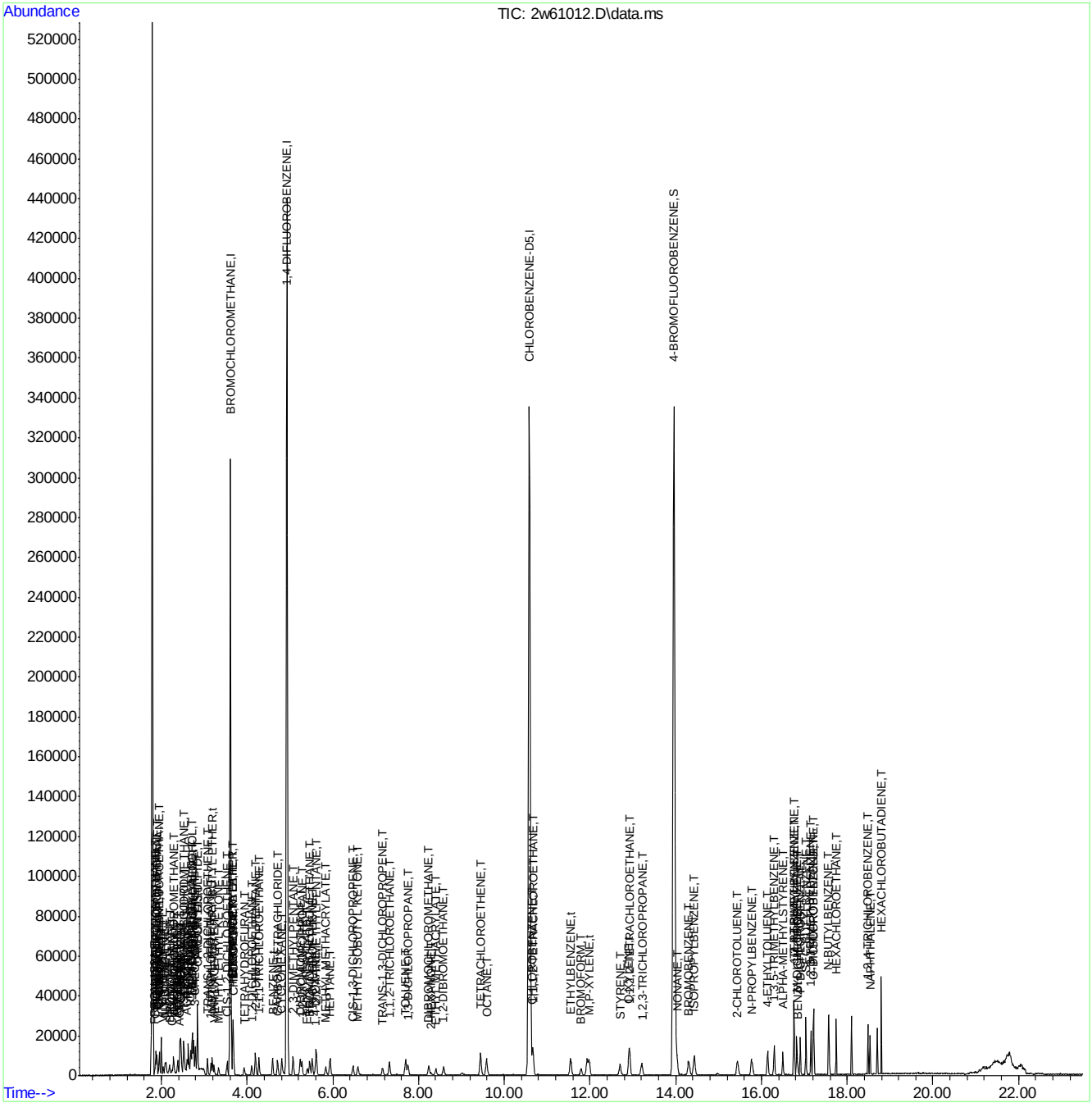
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97) BENZYL CHLORIDE	16.852	91	3085	0.12	PPBV #	89
98) M-DICHLOROBENZENE	16.826	146	5983	0.17	PPBV	98
99) P-DICHLOROBENZENE	16.910	146	5846	0.17	PPBV	94
100) O-DICHLOROBENZENE	17.206	146	6092	0.19	PPBV	99
101) SEC-BUTYLBENZENE	17.039	134	3031	0.20	PPBV	84
102) 1,2,3-TRIMETHYLBENZENE	17.151	105	8528	0.17	PPBV	98
103) P-ISOPROPYLTOLUENE	17.219	134	2975	0.18	PPBV	99
104) N-BUTYLBENZENE	17.566	134	2492	0.16	PPBV	97
105) HEXACHLOROETHANE	17.746	117	2279	0.14	PPBV	98
106) HEXACHLOROBUTADIENE	18.797	225	4203	0.17	PPBV #	1
107) 1,2,4-TRICHLOROBENZENE	18.485	180	4180	0.16	PPBV	94
108) NAPHTHALENE	18.534	128	9026	0.14	PPBV	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61012.D
Acq On : 19 Aug 2022 12:27 pm
Operator : thomash
Sample : ic2709-0.2
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 26 18:41:58 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 21:54:11 2022
Response via : Initial Calibration



Manual Integration Approval Summary

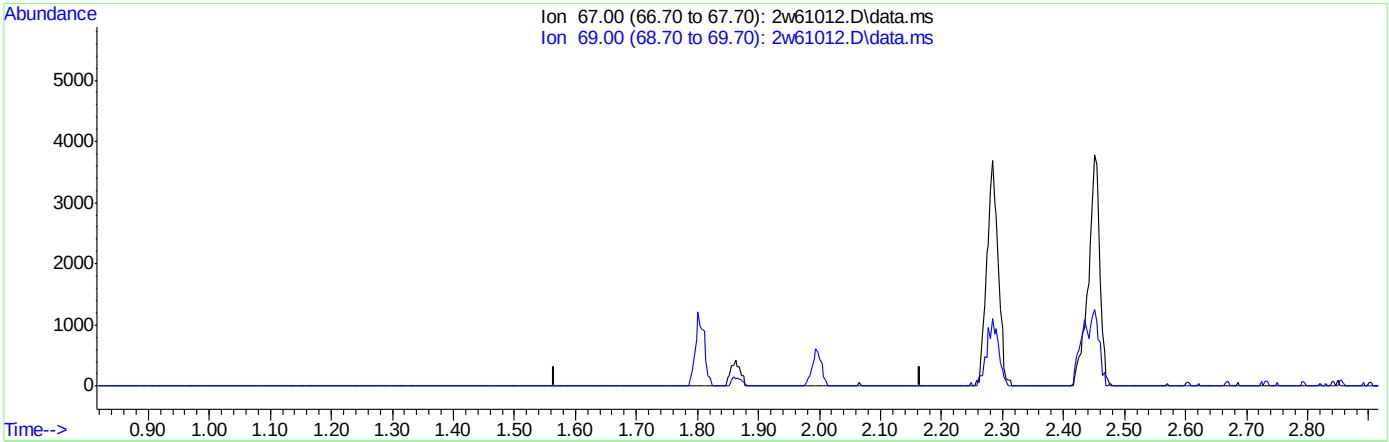
Sample Number:	V2W2709-IC2709	**Method:**	TO-15
Lab FileID:	2W61012.D	**Analyst approved:**	08/23/22 20:59 Benjamin Kim
Injection Time:	08/19/22 12:27	**Supervisor approved:**	08/24/22 14:44 Kanya Veerawat

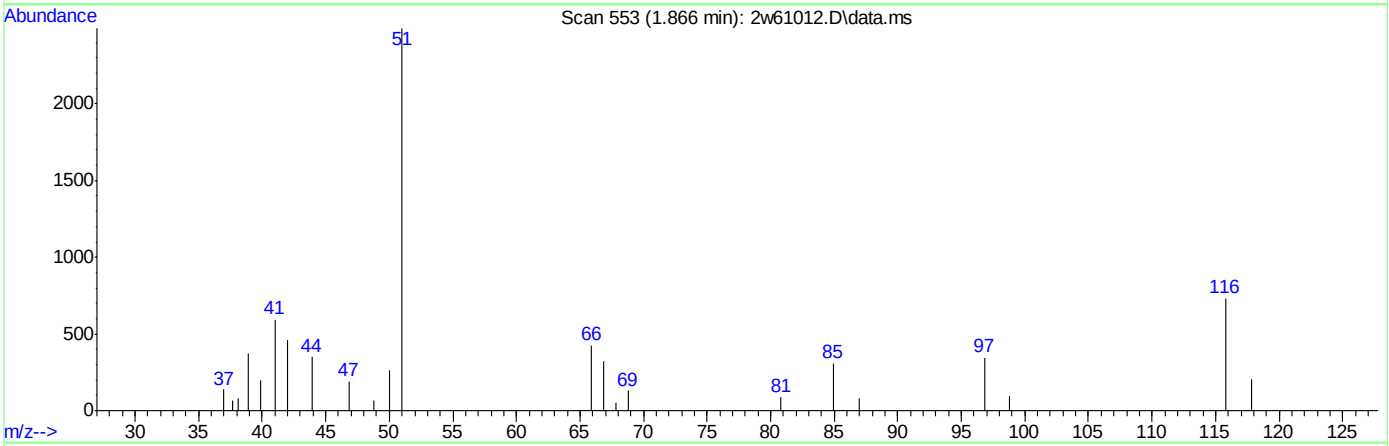
Parameter	CAS	Sig#	R.T. (min.)	Reason
Chlorodifluoromethane	75-45-6		1.86	Poor instrument integration
Acrolein	107-02-8		2.41	Poor instrument integration
Vinyl Acetate	108-05-4		3.24	Poor instrument integration
m,p-Xylene			11.98	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61012.D
Acq On : 19 Aug 2022 12:27 pm
Operator : thomash
Sample : ic2709-0.2
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 22 21:54:52 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 21:54:11 2022
Response via : Initial Calibration





TIC: 2w61012.D\data.ms

(4) CHLORODIFLUOROMETHANE (T)

1.866min (-1.866) 0.00PPBV

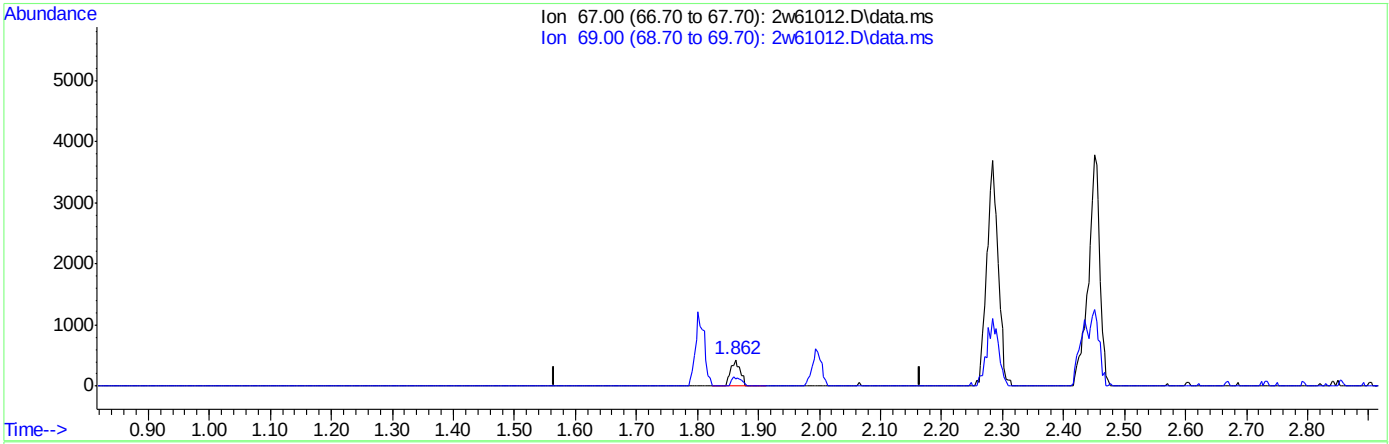
response 0

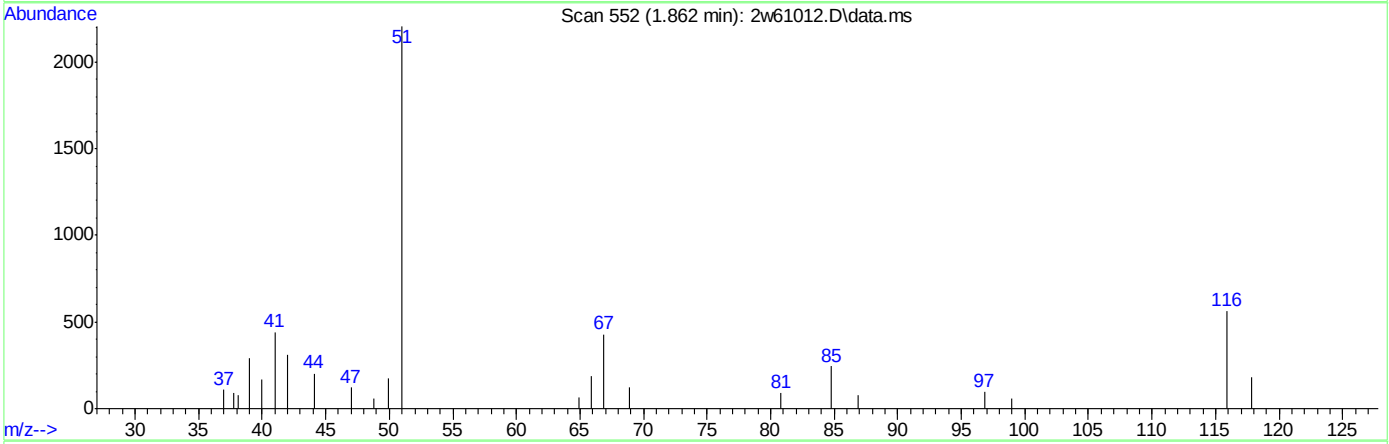
Ion	Exp%	Act%
67.00	100	0.00
69.00	34.20	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61012.D
Acq On : 19 Aug 2022 12:27 pm
Operator : thomash
Sample : ic2709-0.2
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 22 21:54:52 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 21:54:11 2022
Response via : Initial Calibration





TIC: 2w61012.D\data.ms

(4) CHLORODIFLUOROMETHANE (T)

1.862min (-0.004) 0.19PPBV m

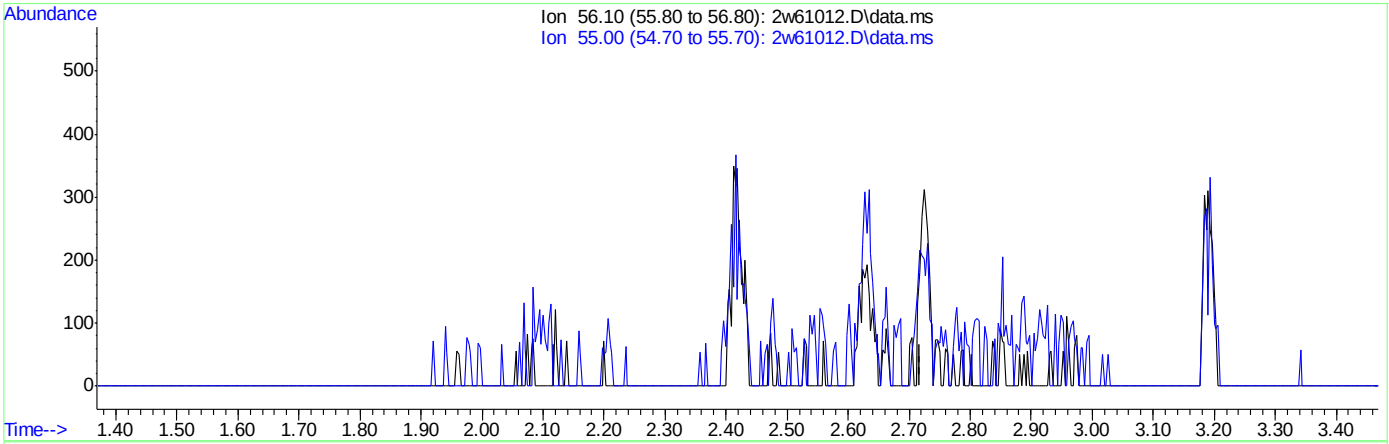
response 468

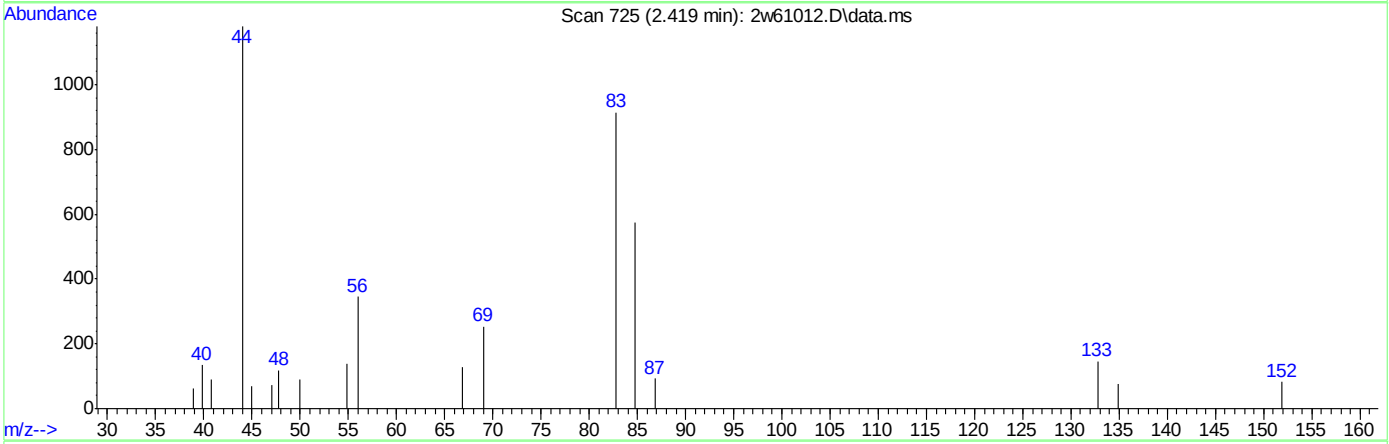
Ion	Exp%	Act%
67.00	100	100
69.00	34.20	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61012.D
Acq On : 19 Aug 2022 12:27 pm
Operator : thomash
Sample : ic2709-0.2
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 22 21:54:52 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 21:54:11 2022
Response via : Initial Calibration





TIC: 2w61012.D\data.ms

(18) ACROLEIN (T)

2.419min (-2.419) 0.00PPBV

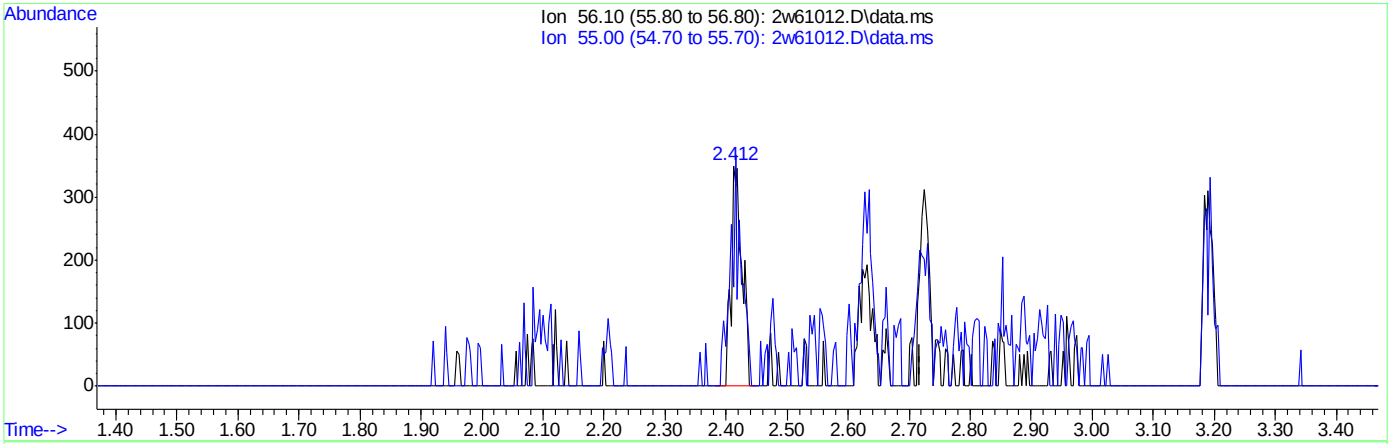
response 0

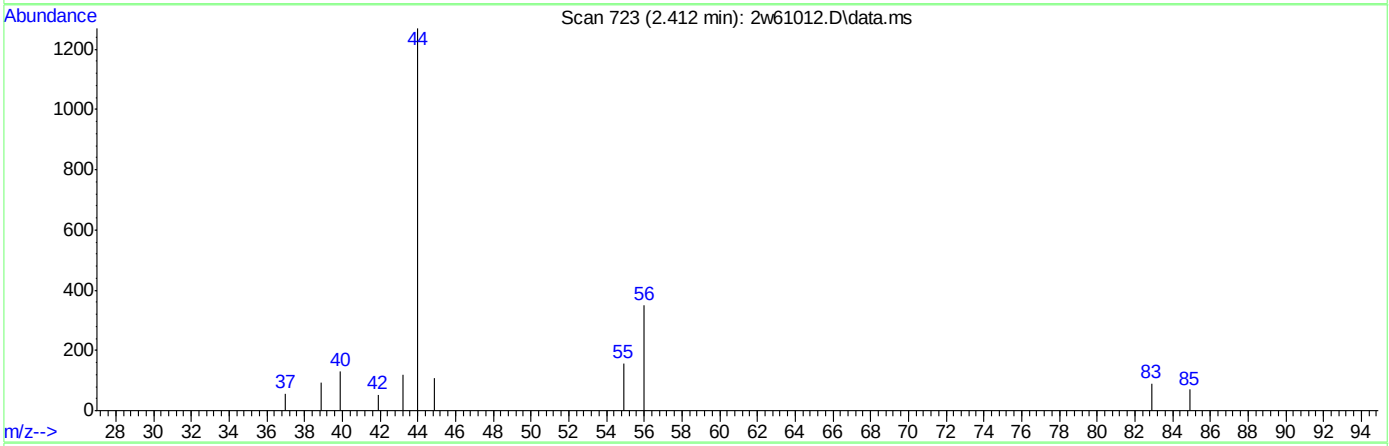
Ion	Exp%	Act%
56.10	100	0.00
55.00	71.10	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61012.D
Acq On : 19 Aug 2022 12:27 pm
Operator : thomash
Sample : ic2709-0.2
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 22 21:54:52 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 21:54:11 2022
Response via : Initial Calibration





TIC: 2w61012.D\data.ms

(18) ACROLEIN (T)

2.412min (-0.007) 0.12PPBV m

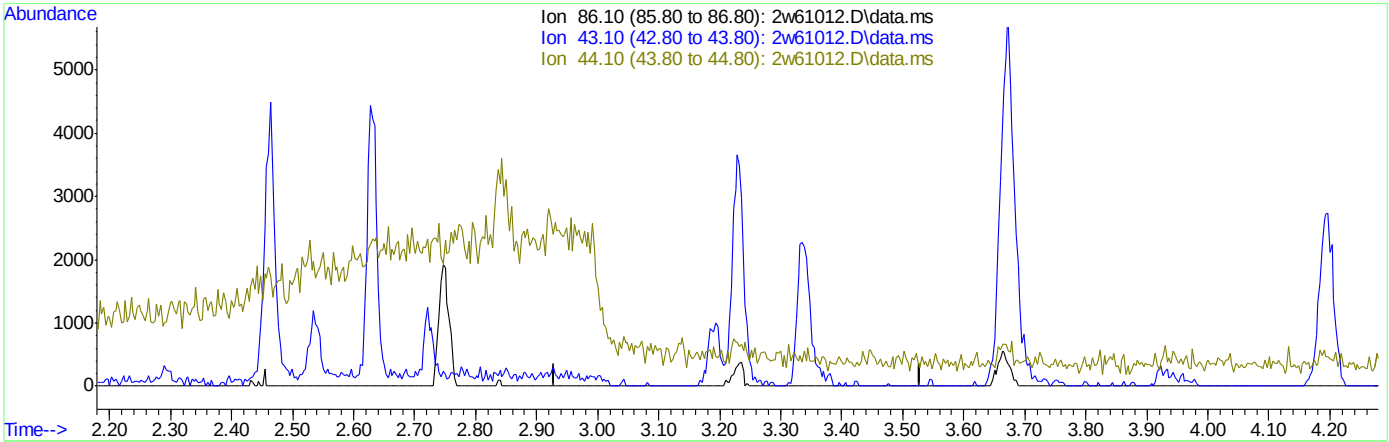
response 435

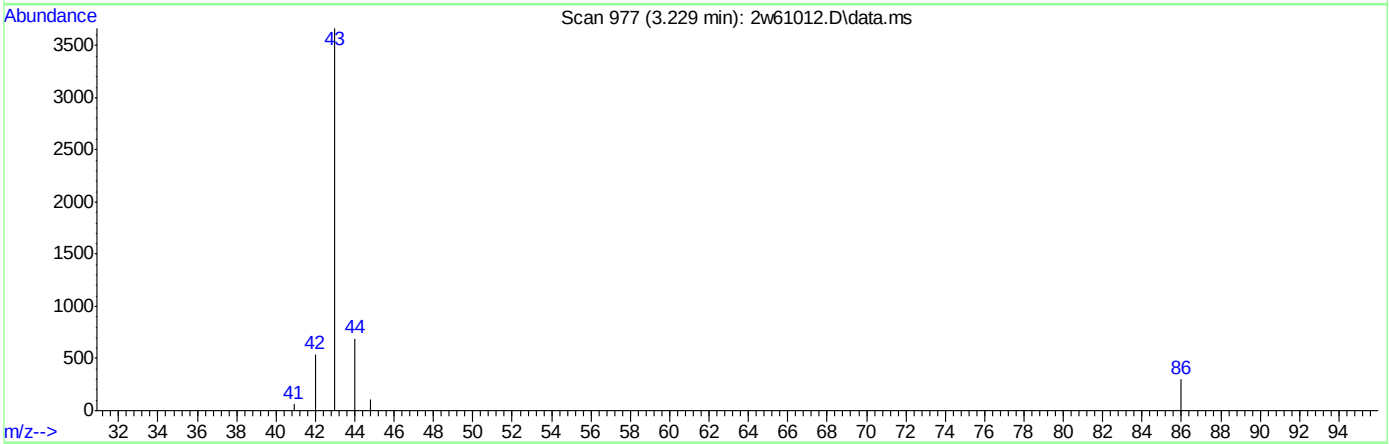
Ion	Exp%	Act%
56.10	100	100
55.00	71.10	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61012.D
Acq On : 19 Aug 2022 12:27 pm
Operator : thomash
Sample : ic2709-0.2
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 22 21:54:52 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 21:54:11 2022
Response via : Initial Calibration





TIC: 2w61012.D\data.ms

(39) VINYL ACETATE (T)

3.229min (-3.229) 0.00PPBV

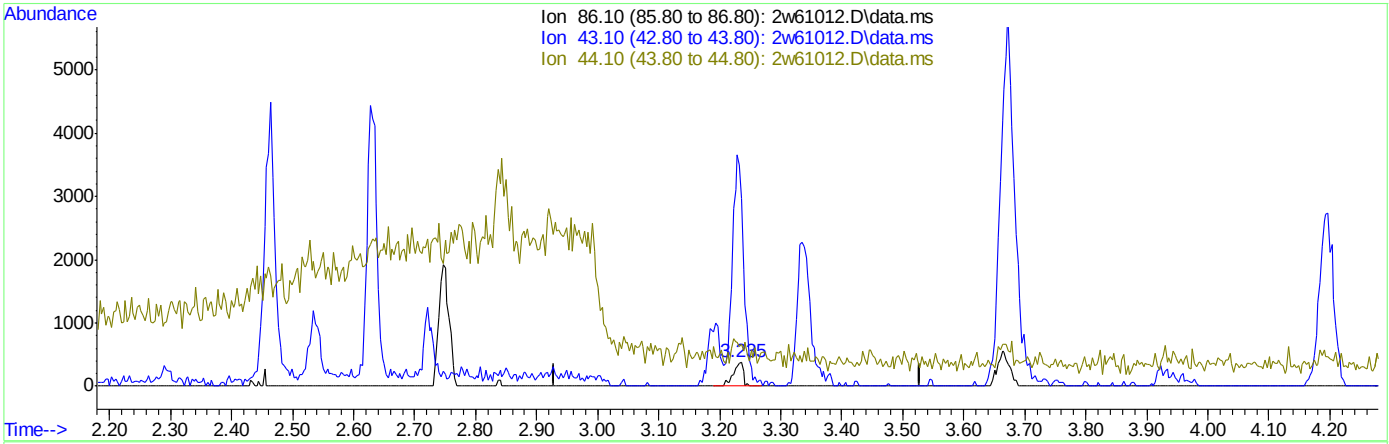
response 0

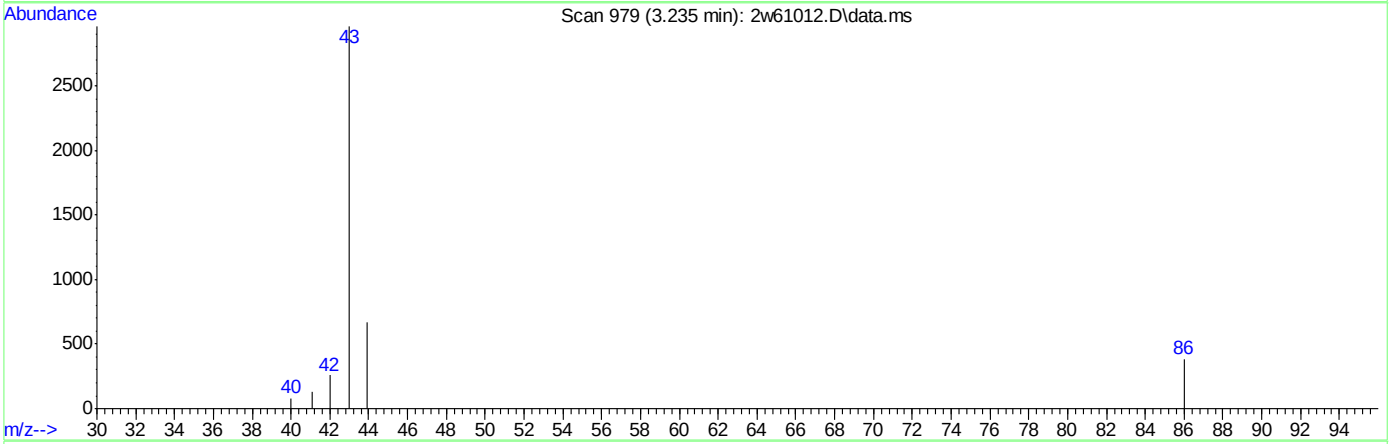
Ion	Exp%	Act%
86.10	100	0.00
43.10	958.60	0.00#
44.10	52.20	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61012.D
Acq On : 19 Aug 2022 12:27 pm
Operator : thomash
Sample : ic2709-0.2
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 22 21:54:52 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 21:54:11 2022
Response via : Initial Calibration





TIC: 2w61012.D\data.ms

(39) VINYL ACETATE (T)

3.235min (+0.006) 0.16PPBV m

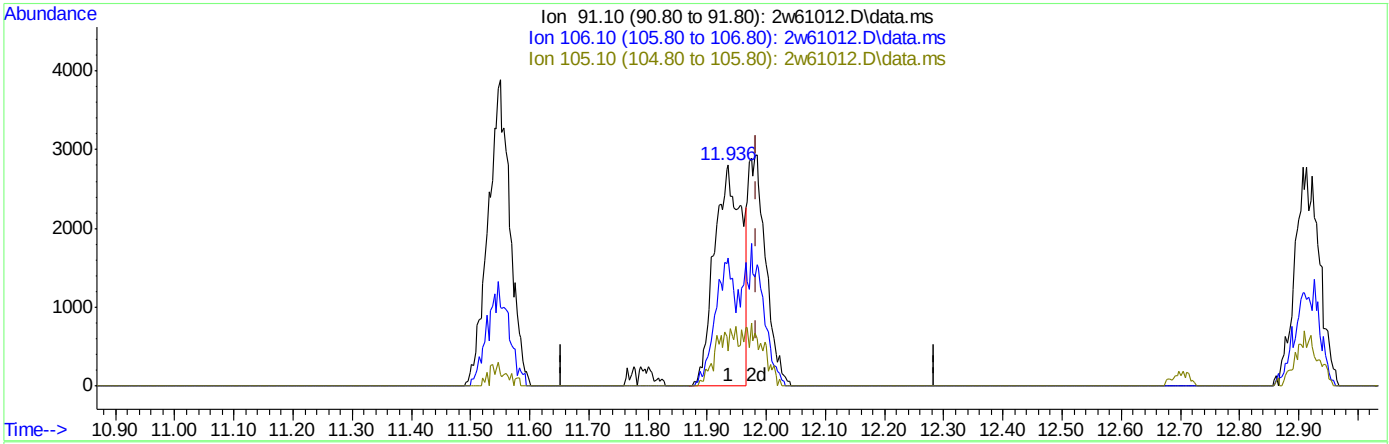
response 426

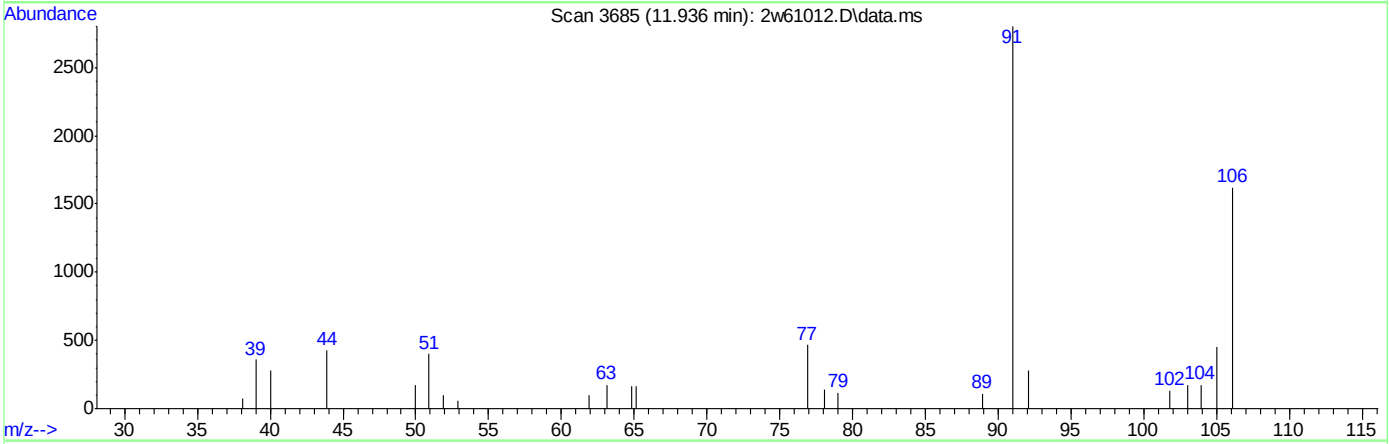
Ion	Exp%	Act%
86.10	100	100
43.10	958.60	0.00#
44.10	52.20	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61012.D
Acq On : 19 Aug 2022 12:27 pm
Operator : thomash
Sample : ic2709-0.2
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 22 21:55:25 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 21:54:11 2022
Response via : Initial Calibration





TIC: 2w61012.D\data.ms

(80) M,P-XYLENE (t)

11.936min (-0.049) 0.22PPBV

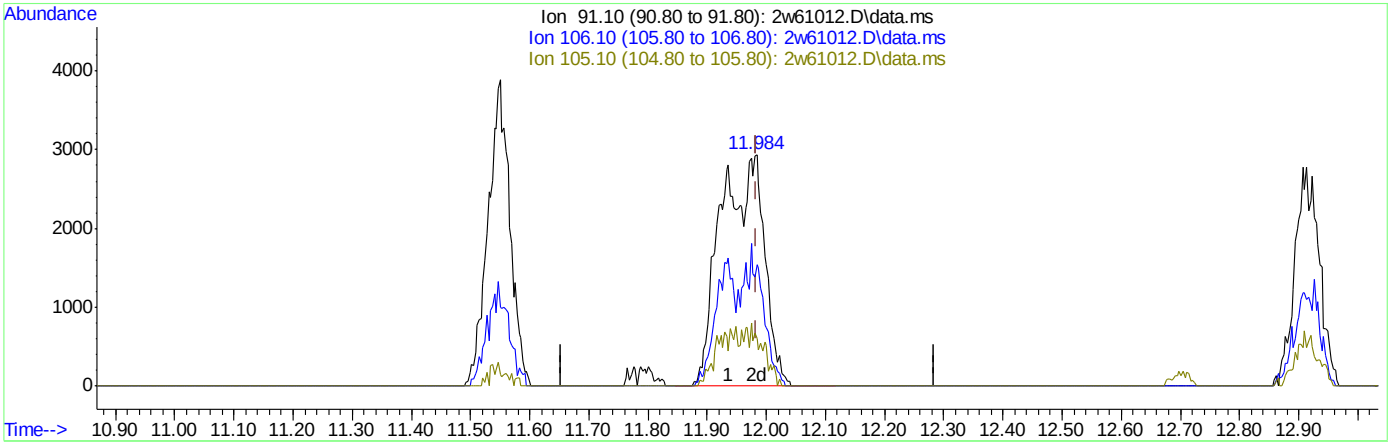
response 8831

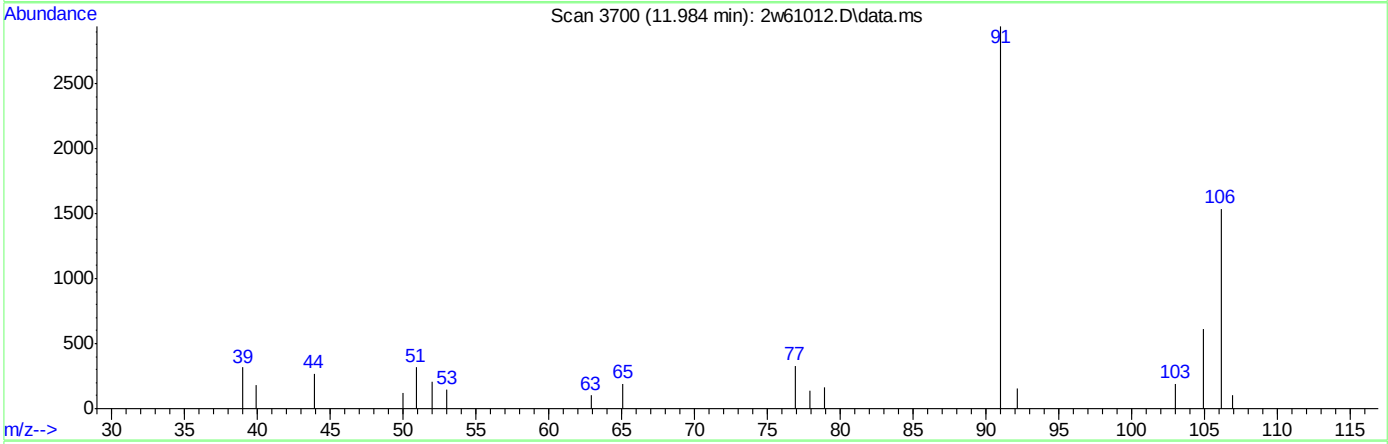
Ion	Exp%	Act%
91.10	100	100
106.10	23.00	42.95
105.10	10.90	19.79
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61012.D
Acq On : 19 Aug 2022 12:27 pm
Operator : thomash
Sample : ic2709-0.2
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 22 21:55:25 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 21:54:11 2022
Response via : Initial Calibration





TIC: 2w61012.D\data.ms

(80) M,P-XYLENE (t)

11.984min (-0.000) 0.36PPBV m

response 14963

Ion	Exp%	Act%
91.10	100	100
106.10	23.00	25.35
105.10	10.90	11.68
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61013.D
Acq On : 19 Aug 2022 12:59 pm
Operator : thomash
Sample : ic2709-0.5
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 26 18:42:13 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 21:53:09 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.608	128	64185	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.927	114	349033	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	10.582	117	311657	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.955	95	205868	9.86	PPBV		0.00
Target Compounds							Qvalue
3) FREON 152A	1.846	65	2690	0.33	PPBV		95
4) CHLORODIFLUOROMETHANE	1.869	67	1194	0.31	PPBV	#	40
5) CHLOROTRIFLUOROETHENE	1.882	116	6910	0.32	PPBV	#	1
6) DICHLORODIFLUOROMETHANE	1.901	85	15281	0.32	PPBV	#	73
7) PROPYLENE	1.875	41	2932	0.32	PPBV		95
8) 1-CHLORO-1,1-DIFLUOROE...	1.949	65	11460	0.31	PPBV	#	88
9) FREON 114	1.998	85	13905	0.32	PPBV		97
10) CHLOROMETHANE	1.962	52	1624	0.33	PPBV		95
11) VINYL CHLORIDE	2.043	62	5337	0.30	PPBV	#	93
12) 1,3-BUTADIENE	2.091	54	4383	0.32	PPBV		97
13) N-BUTANE	2.110	43	7281	0.33	PPBV	#	94
14) BROMOMETHANE	2.191	94	4823	0.31	PPBV		96
15) CHLOROETHANE	2.252	64	2897	0.31	PPBV		95
16) DICHLOROFLUOROMETHANE	2.287	67	11546	0.32	PPBV		99
17) ACETONITRILE	2.374	41	4380	0.34	PPBV		96
18) ACROLEIN	2.425	56	1025	0.13	PPBV		88
19) FREON 123	2.432	83	12589	0.31	PPBV		97
20) FREON 123A	2.454	117	7200	0.31	PPBV		99
21) TRICHLOROFLUOROMETHANE	2.522	101	15817	0.31	PPBV	#	1
22) ISOPROPYL ALCOHOL	2.538	45	13799	0.36	PPBV		95
23) ACETONE	2.464	58	5025	0.47	PPBV		71
24) PENTANE	2.631	42	7059	0.32	PPBV		98
25) IODOMETHANE	2.686	142	15489	0.31	PPBV		99
26) 1,1-DICHLOROETHYLENE	2.715	96	5905	0.30	PPBV		93
27) CARBON DISULFIDE	2.843	76	17652	0.31	PPBV	#	82
28) ETHANOL	2.290	45	3011	0.44	PPBV	#	94
29) BROMOETHENE	2.383	106	5030	0.31	PPBV	#	100
30) ACRYLONITRILE	2.599	52	4918	0.32	PPBV		95
31) METHYLENE CHLORIDE	2.747	84	6999	0.36	PPBV		99
32) 3-CHLOROPROPENE	2.789	76	3495	0.36	PPBV		96
33) FREON 113	2.843	151	9982	0.30	PPBV		97
34) TRANS-1,2-DICHLOROETHENE	3.078	96	5129	0.31	PPBV		97
35) TERTIARY BUTYL ALCOHOL	2.724	59	15937	0.32	PPBV		95
36) METHYL TERTIARY BUTYL ...	3.190	73	13182	0.31	PPBV		98
37) TETRAHYDROFURAN	3.920	72	2249	0.30	PPBV		87
38) HEXANE	3.666	57	8621	0.30	PPBV		97
39) VINYL ACETATE	3.232	86	1264	0.31	PPBV	#	94
40) 1,1-DICHLOROETHANE	3.155	63	9161	0.31	PPBV		99
41) METHYL ETHYL KETONE	3.338	72	2261	0.30	PPBV		99
42) CIS-1,2-DICHLOROETHENE	3.528	96	5662	0.32	PPBV		99
43) DIISOPROPYL ETHER	3.670	59	2410	0.29	PPBV		90

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61013.D
Acq On : 19 Aug 2022 12:59 pm
Operator : thomash
Sample : ic2709-0.5
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 26 18:42:13 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 21:53:09 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) ETHYL ACETATE	3.682	61	1655	0.30	PPBV		79
45) METHYL ACRYLATE	3.660	55	9722	0.29	PPBV	#	100
46) CHLOROFORM	3.682	83	11151	0.32	PPBV		98
47) 2,4-DIMETHYLPENTANE	4.190	57	10708	0.32	PPBV		98
48) 1,1,1-TRICHLOROETHANE	4.271	97	10795	0.31	PPBV		99
49) CARBON TETRACHLORIDE	4.708	117	10167	0.29	PPBV		98
50) 1,2-DICHLOROETHANE	4.107	62	7981	0.33	PPBV	#	100
51) BENZENE	4.596	78	16270	0.32	PPBV		99
53) CYCLOHEXANE	4.814	84	7209	0.32	PPBV		98
54) 2,3-DIMETHYLPENTANE	5.075	71	3561	0.32	PPBV		97
55) TRICHLOROETHENE	5.518	95	7415	0.32	PPBV		98
56) 1,2-DICHLOROPROPANE	5.277	63	6506	0.32	PPBV		100
57) DIBROMOMETHANE	5.235	174	7757	0.34	PPBV		98
58) ETHYL ACRYLATE	5.403	55	10083	0.26	PPBV		99
59) BROMODICHLOROMETHANE	5.460	83	10997	0.30	PPBV		98
60) 2,2,4-TRIMETHYLPENTANE	5.608	57	29002	0.32	PPBV		100
61) 1,4-DIOXANE	5.554	88	3502	0.33	PPBV	#	80
62) HEPTANE	5.930	43	8670	0.30	PPBV		98
63) METHYL METHACRYLATE	5.830	69	4528	0.25	PPBV		87
64) METHYL ISOBUTYL KETONE	6.579	58	3537	0.22	PPBV		93
65) CIS-1,3-DICHLOROPROPENE	6.470	75	7930	0.30	PPBV		99
66) TOLUENE	7.698	91	20242	0.32	PPBV		97
67) 1,3-DICHLOROPROPANE	7.753	76	9325	0.30	PPBV		98
68) TRANS-1,3-DICHLOROPROPENE	7.155	75	6535	0.28	PPBV		96
69) 1,1,2-TRICHLOROETHANE	7.316	83	6323	0.34	PPBV		96
70) 2-HEXANONE	8.287	58	1479	0.08	PPBV	#	1
71) ETHYL METHACRYLATE	8.402	69	5756	0.21	PPBV		99
72) TETRACHLOROETHENE	9.438	164	8476	0.34	PPBV		98
73) DIBROMOCHLOROMETHANE	8.232	129	9599	0.27	PPBV		99
74) 1,2-DIBROMOETHANE	8.589	107	10379	0.30	PPBV	#	99
75) OCTANE	9.589	43	11835	0.31	PPBV		99
77) 1,1,1,2-TETRACHLOROETHANE	10.676	131	7074	0.29	PPBV		99
78) CHLOROBENZENE	10.656	112	16157	0.32	PPBV		99
79) ETHYLBENZENE	11.544	91	25862	0.31	PPBV		99
80) M,P-XYLENE	11.975	91	38656	0.62	PPBV	#	90
81) O-XYLENE	12.907	91	19059	0.30	PPBV		100
82) STYRENE	12.695	104	13062	0.28	PPBV		97
83) NONANE	14.020	43	12386	0.32	PPBV		96
84) BROMOFORM	11.791	173	7034	0.23	PPBV	#	97
85) 1,1,2,2-TETRACHLOROETHANE	12.917	83	14680	0.32	PPBV		98
86) 1,2,3-TRICHLOROPROPANE	13.203	75	11346	0.33	PPBV	#	99
88) ISOPROPYLBENZENE	14.431	120	8275	0.30	PPBV		99
89) BROMOBENZENE	14.306	77	14251	0.33	PPBV		98
90) 2-CHLOROTOLUENE	15.441	126	7309	0.32	PPBV		98
91) N-PROPYLBENZENE	15.775	120	7716	0.30	PPBV		94
92) 4-ETHYLTOLUENE	16.145	105	27288	0.30	PPBV	#	99
93) 1,3,5-TRIMETHYLBENZENE	16.302	105	22638	0.30	PPBV		99
94) ALPHA-METHYLSTYRENE	16.502	118	8368	0.26	PPBV		99
95) TERT-BUTYLBENZENE	16.756	134	5550	0.29	PPBV		88
96) 1,2,4-TRIMETHYLBENZENE	16.765	105	22848	0.29	PPBV		95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61013.D
Acq On : 19 Aug 2022 12:59 pm
Operator : thomash
Sample : ic2709-0.5
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 26 18:42:13 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 21:53:09 2022
Response via : Initial Calibration

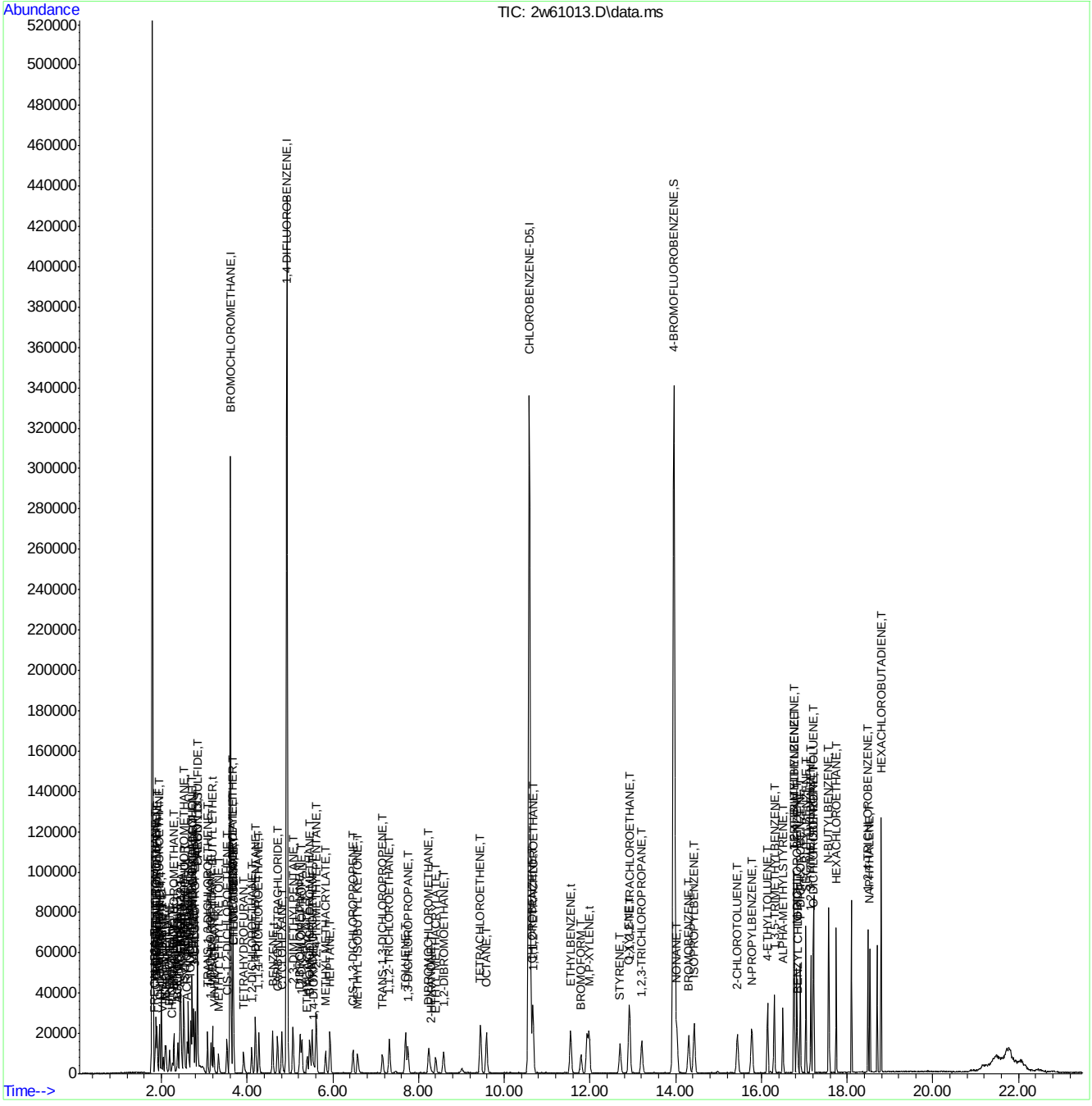
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
97)	BENZYL CHLORIDE	16.846	91	8620	0.24	PPBV		97
98)	M-DICHLOROBENZENE	16.827	146	15883	0.31	PPBV		98
99)	P-DICHLOROBENZENE	16.907	146	16134	0.32	PPBV		97
100)	O-DICHLOROBENZENE	17.203	146	15107	0.31	PPBV		99
101)	SEC-BUTYLBENZENE	17.042	134	6801	0.29	PPBV		95
102)	1,2,3-TRIMETHYLBENZENE	17.151	105	22182	0.30	PPBV		98
103)	P-ISOPROPYLTOLUENE	17.219	134	7457	0.30	PPBV		98
104)	N-BUTYLBENZENE	17.566	134	6672	0.29	PPBV		99
105)	HEXACHLOROETHANE	17.746	117	5759	0.23	PPBV		100
106)	HEXACHLOROBUTADIENE	18.794	225	11615	0.34	PPBV	#	2
107)	1,2,4-TRICHLOROBENZENE	18.486	180	11810	0.31	PPBV		98
108)	NAPHTHALENE	18.531	128	27201	0.30	PPBV		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61013.D
Acq On : 19 Aug 2022 12:59 pm
Operator : thomash
Sample : ic2709-0.5
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 26 18:42:13 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 21:53:09 2022
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/24/22 15:08

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61015.D
Acq On : 19 Aug 2022 2:02 pm
Operator : thomash
Sample : ic2709-5
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 26 18:42:29 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 22:02:48 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.611	128	68904	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.927	114	372933	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	10.582	117	337350	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.958	95	226996	10.08	PPBV		0.00
Target Compounds							Qvalue
3) FREON 152A	1.849	65	30277m	5.26	PPBV		
4) CHLORODIFLUOROMETHANE	1.862	67	13735	5.39	PPBV		97
5) CHLOROTRIFLUOROETHENE	1.878	116	79298	5.38	PPBV	#	1
6) DICHLORODIFLUOROMETHANE	1.901	85	179220	5.26	PPBV	#	72
7) PROPYLENE	1.875	41	33501	5.20	PPBV		100
8) 1-CHLORO-1,1-DIFLUOROE...	1.952	65	134364	5.24	PPBV		98
9) FREON 114	1.997	85	162073	5.29	PPBV		99
10) CHLOROMETHANE	1.959	52	17709	5.15	PPBV		98
11) VINYL CHLORIDE	2.039	62	64081	5.40	PPBV		100
12) 1,3-BUTADIENE	2.091	54	49591	5.41	PPBV		99
13) N-BUTANE	2.110	43	81858	5.07	PPBV		99
14) BROMOMETHANE	2.190	94	56507	5.25	PPBV		99
15) CHLOROETHANE	2.255	64	34916	5.51	PPBV		98
16) DICHLOROFLUOROMETHANE	2.287	67	135128	5.34	PPBV		99
17) ACETONITRILE	2.374	41	49247	5.16	PPBV		99
18) ACROLEIN	2.419	56	29000	7.24	PPBV		99
19) FREON 123	2.435	83	150547	5.35	PPBV		99
20) FREON 123A	2.454	117	86401	5.31	PPBV		97
21) TRICHLOROFLUOROMETHANE	2.518	101	193650	5.50	PPBV	#	1
22) ISOPROPYL ALCOHOL	2.534	45	141864	4.98	PPBV		99
23) ACETONE	2.460	58	39931	4.32	PPBV		99
24) PENTANE	2.628	42	80075	5.15	PPBV		99
25) IODOMETHANE	2.685	142	186750	5.41	PPBV		100
26) 1,1-DICHLOROETHYLENE	2.711	96	74742	5.53	PPBV		98
27) CARBON DISULFIDE	2.843	76	217801	5.32	PPBV	#	82
28) ETHANOL	2.290	45	24212	4.24	PPBV		99
29) BROMOETHENE	2.383	106	59898	5.48	PPBV	#	100
30) ACRYLONITRILE	2.602	52	58763	5.54	PPBV		98
31) METHYLENE CHLORIDE	2.747	84	69059	4.49	PPBV		98
32) 3-CHLOROPROPENE	2.785	76	36301	5.19	PPBV		97
33) FREON 113	2.840	151	122707	5.37	PPBV		99
34) TRANS-1,2-DICHLOROETHENE	3.078	96	61656	5.47	PPBV		100
35) TERTIARY BUTYL ALCOHOL	2.721	59	187952	5.28	PPBV		99
36) METHYL TERTIARY BUTYL ...	3.187	73	156154	5.33	PPBV		100
37) TETRAHYDROFURAN	3.904	72	28297	5.79	PPBV		96
38) HEXANE	3.663	57	105560	5.35	PPBV		100
39) VINYL ACETATE	3.229	86	15080	5.43	PPBV		91
40) 1,1-DICHLOROETHANE	3.155	63	109341	5.41	PPBV		100
41) METHYL ETHYL KETONE	3.325	72	28931	5.82	PPBV		100
42) CIS-1,2-DICHLOROETHENE	3.531	96	65373	5.39	PPBV		99
43) DIISOPROPYL ETHER	3.666	59	30863	5.34	PPBV		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61015.D
Acq On : 19 Aug 2022 2:02 pm
Operator : thomash
Sample : ic2709-5
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 26 18:42:29 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 22:02:48 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) ETHYL ACETATE	3.673	61	22073	3.78	PPBV		99
45) METHYL ACRYLATE	3.656	55	127464	5.52	PPBV	#	99
46) CHLOROFORM	3.685	83	133214	5.39	PPBV		99
47) 2,4-DIMETHYLPENTANE	4.193	57	124025	5.40	PPBV		99
48) 1,1,1-TRICHLOROETHANE	4.274	97	132317	5.37	PPBV		99
49) CARBON TETRACHLORIDE	4.711	117	131707	5.40	PPBV		99
50) 1,2-DICHLOROETHANE	4.107	62	90456	5.41	PPBV	#	100
51) BENZENE	4.595	78	189412	5.37	PPBV		100
53) CYCLOHEXANE	4.808	84	83640	5.36	PPBV		99
54) 2,3-DIMETHYLPENTANE	5.071	71	41391	5.41	PPBV		97
55) TRICHLOROETHENE	5.515	95	87638	5.44	PPBV		98
56) 1,2-DICHLOROPROPANE	5.280	63	75050	5.31	PPBV		99
57) DIBROMOMETHANE	5.238	174	83527	5.16	PPBV		99
58) ETHYL ACRYLATE	5.393	55	151519	5.77	PPBV		100
59) BROMODICHLOROMETHANE	5.460	83	139406	5.39	PPBV		99
60) 2,2,4-TRIMETHYLPENTANE	5.615	57	330571	5.28	PPBV		100
61) 1,4-DIOXANE	5.528	88	40800	5.43	PPBV		99
62) HEPTANE	5.933	43	103774	5.27	PPBV		99
63) METHYL METHACRYLATE	5.824	69	69360	5.82	PPBV		100
64) METHYL ISOBUTYL KETONE	6.573	58	59949	6.07	PPBV		99
65) CIS-1,3-DICHLOROPROPENE	6.470	75	103405	5.56	PPBV		100
66) TOLUENE	7.695	91	235719	5.28	PPBV		100
67) 1,3-DICHLOROPROPANE	7.756	76	114312	5.40	PPBV		99
68) TRANS-1,3-DICHLOROPROPENE	7.158	75	90768	5.42	PPBV		99
69) 1,1,2-TRICHLOROETHANE	7.322	83	70318	5.39	PPBV		99
70) 2-HEXANONE	8.258	58	71057	7.60	PPBV	#	1
71) ETHYL METHACRYLATE	8.399	69	105244	6.11	PPBV		99
72) TETRACHLOROETHENE	9.447	164	92942	5.16	PPBV		98
73) DIBROMOCHLOROMETHANE	8.238	129	140255	5.54	PPBV		100
74) 1,2-DIBROMOETHANE	8.589	107	130670	5.52	PPBV		100
75) OCTANE	9.586	43	141914	5.38	PPBV		99
77) 1,1,1,2-TETRACHLOROETHANE	10.669	131	97603	5.39	PPBV		100
78) CHLOROBENZENE	10.656	112	190132	5.28	PPBV		100
79) ETHYLBENZENE	11.547	91	313080	5.48	PPBV		100
80) M,P-XYLENE	11.978	91	477395	12.58	PPBV		96
81) O-XYLENE	12.913	91	242396	5.45	PPBV		97
82) STYRENE	12.701	104	182021	5.77	PPBV		99
83) NONANE	14.029	43	146486	5.32	PPBV		98
84) BROMOFORM	11.788	173	126169	5.85	PPBV		100
85) 1,1,2,2-TETRACHLOROETHANE	12.923	83	177715	5.36	PPBV		100
86) 1,2,3-TRICHLOROPROPANE	13.209	75	131429	5.41	PPBV	#	100
88) ISOPROPYLBENZENE	14.431	120	103958	5.53	PPBV		100
89) BROMOBENZENE	14.309	77	166432	5.41	PPBV		99
90) 2-CHLOROTOLUENE	15.444	126	87032	5.74	PPBV		100
91) N-PROPYLBENZENE	15.775	120	97336	5.65	PPBV		100
92) 4-ETHYLTOLUENE	16.145	105	356332	5.61	PPBV		99
93) 1,3,5-TRIMETHYLBENZENE	16.302	105	294822	5.56	PPBV		99
94) ALPHA-METHYLSTYRENE	16.502	118	130661	5.90	PPBV		99
95) TERT-BUTYLBENZENE	16.759	134	74564	5.48	PPBV		99
96) 1,2,4-TRIMETHYLBENZENE	16.765	105	307567	5.40	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61015.D
Acq On : 19 Aug 2022 2:02 pm
Operator : thomash
Sample : ic2709-5
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 26 18:42:29 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 22:02:48 2022
Response via : Initial Calibration

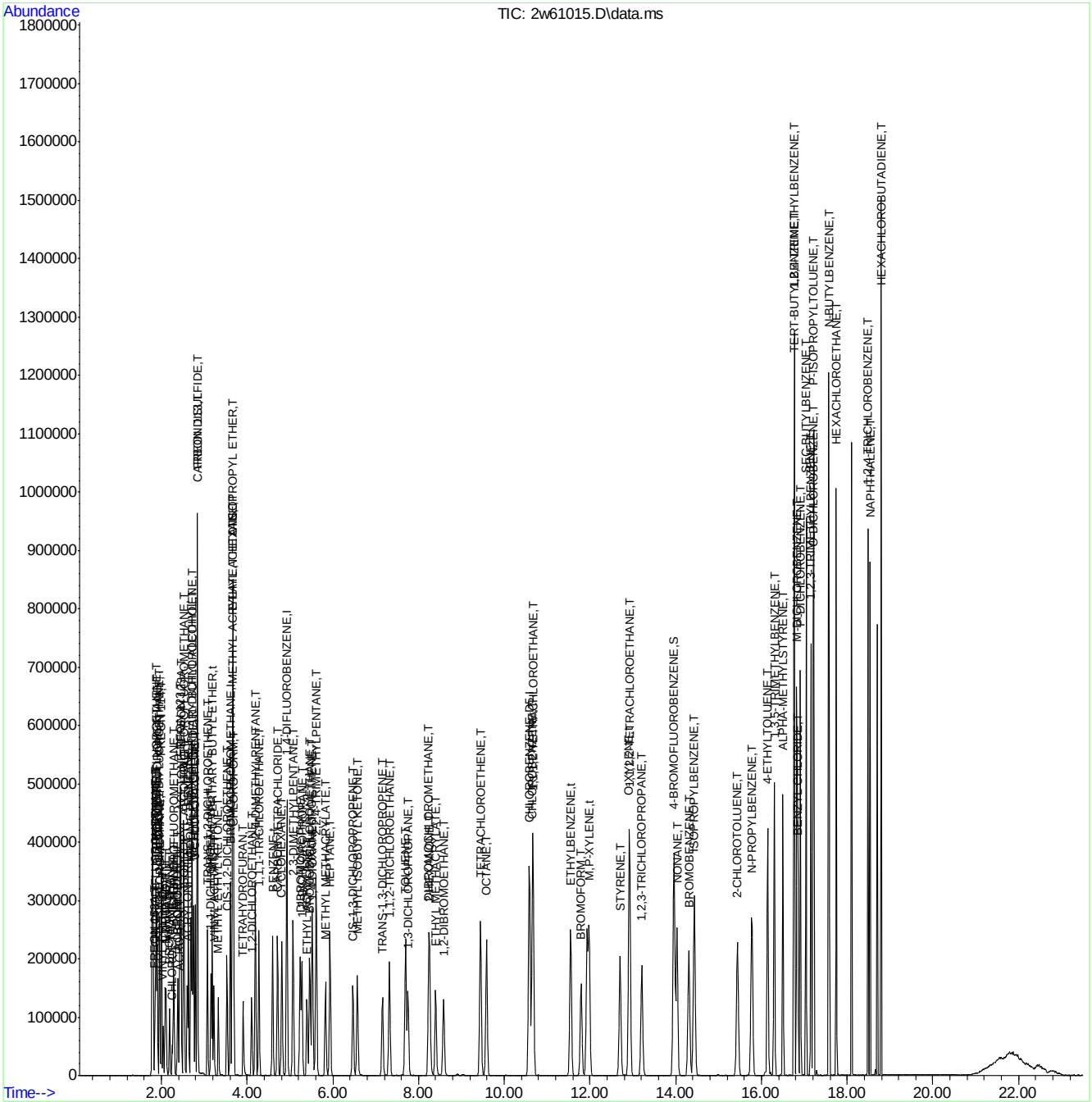
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
97)	BENZYL CHLORIDE	16.849	91	168900	5.14	PPBV		100
98)	M-DICHLOROBENZENE	16.826	146	207297	5.56	PPBV		100
99)	P-DICHLOROBENZENE	16.910	146	206717	5.46	PPBV		99
100)	O-DICHLOROBENZENE	17.206	146	195819	5.30	PPBV		98
101)	SEC-BUTYLBENZENE	17.042	134	93115	5.51	PPBV		97
102)	1,2,3-TRIMETHYLBENZENE	17.151	105	298704	5.57	PPBV		99
103)	P-ISOPROPYLTOLUENE	17.219	134	98046	5.23	PPBV		99
104)	N-BUTYLBENZENE	17.569	134	93276	5.41	PPBV		98
105)	HEXACHLOROETHANE	17.746	117	106859	5.34	PPBV		99
106)	HEXACHLOROBUTADIENE	18.797	225	134530	4.56	PPBV	#	1
107)	1,2,4-TRICHLOROBENZENE	18.485	180	153262	4.97	PPBV		99
108)	NAPHTHALENE	18.534	128	373864	5.07	PPBV		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61015.D
Acq On : 19 Aug 2022 2:02 pm
Operator : thomash
Sample : ic2709-5
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 26 18:42:29 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 22:02:48 2022
Response via : Initial Calibration



Manual Integration Approval Summary

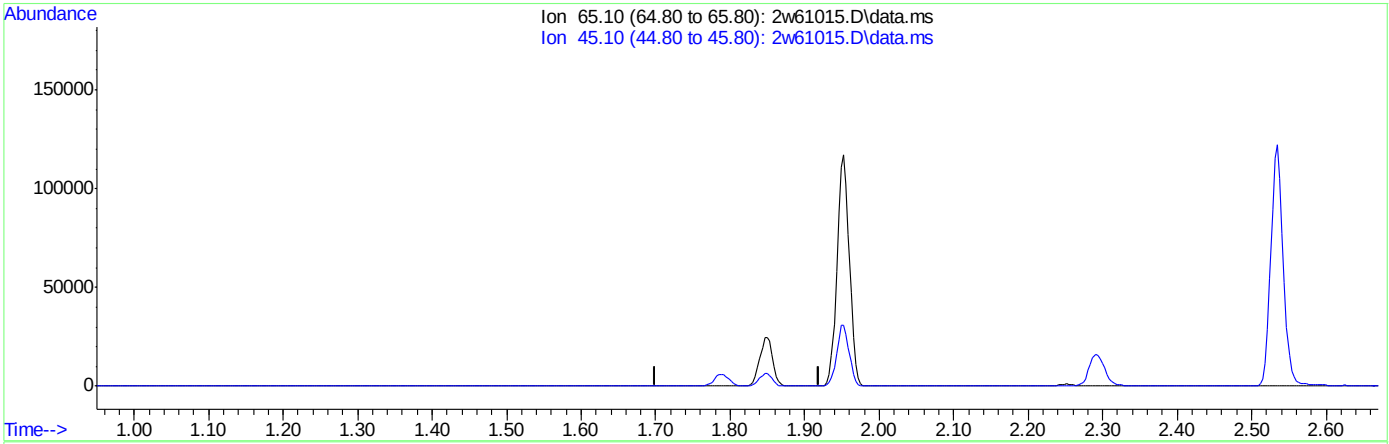
Sample Number:	V2W2709-IC2709	**Method:**	TO-15
Lab FileID:	2W61015.D	**Analyst approved:**	08/23/22 17:35 Benjamin Kim
Injection Time:	08/19/22 14:02	**Supervisor approved:**	08/24/22 15:08 Kanya Veerawat

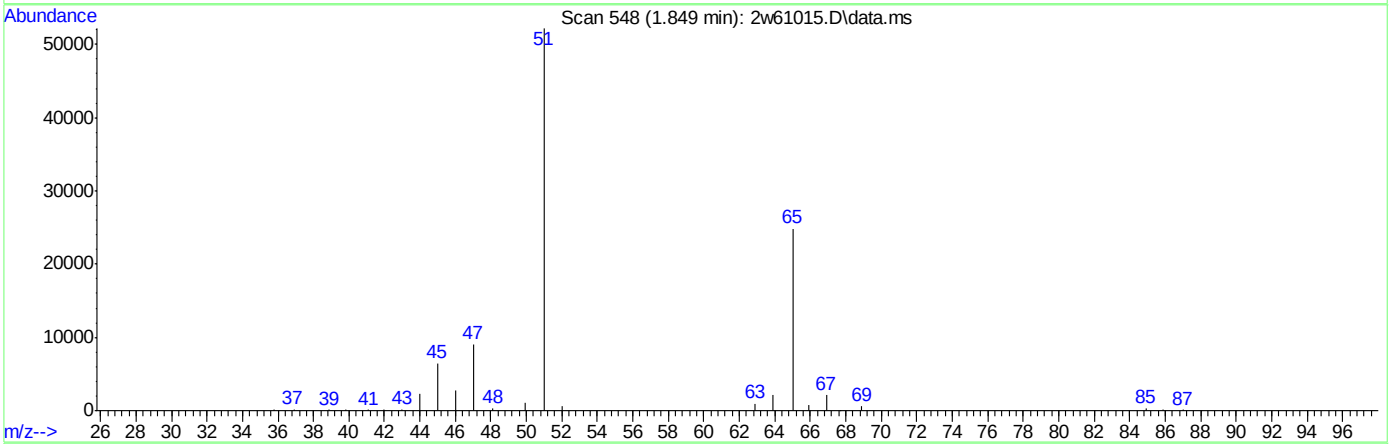
Parameter	CAS	Sig#	R.T. (min.)	Reason
Freon 152A	75-37-6		1.85	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61015.D
Acq On : 19 Aug 2022 2:02 pm
Operator : thomash
Sample : ic2709-5
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 22 22:03:16 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 22:02:48 2022
Response via : Initial Calibration





TIC: 2w61015.D\data.ms

(3) FREON 152A (T)

1.850min (-1.850) 0.00PPBV

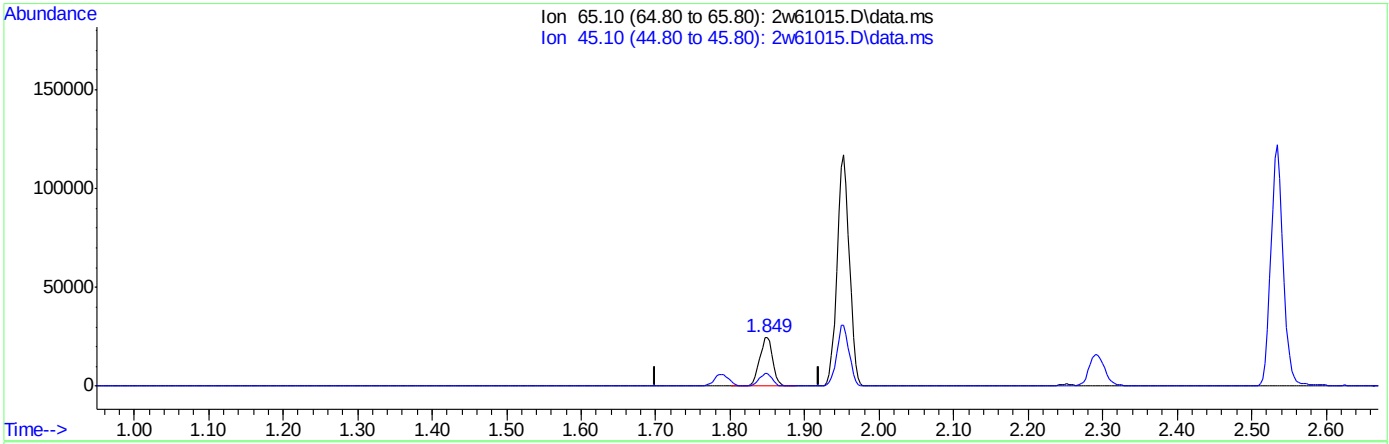
response 0

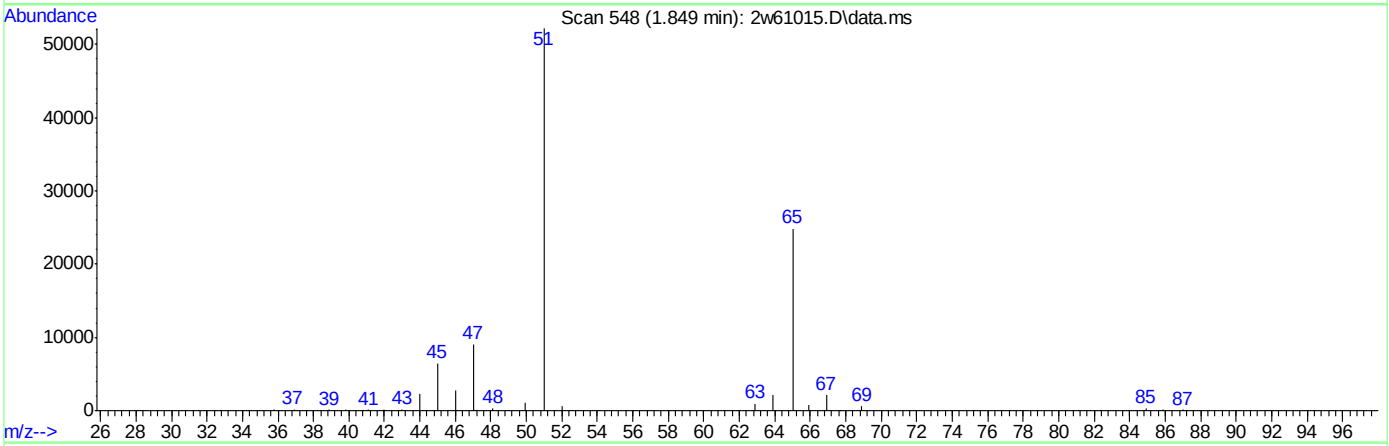
Ion	Exp%	Act%
65.10	100	0.00
45.10	27.20	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61015.D
Acq On : 19 Aug 2022 2:02 pm
Operator : thomash
Sample : ic2709-5
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 22 22:03:16 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 22:02:48 2022
Response via : Initial Calibration





TIC: 2w61015.D\data.ms

(3) FREON 152A (T)

1.849min (-0.001) 5.26PPBV m

response 30277

Ion	Exp%	Act%
65.10	100	100
45.10	27.20	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/24/22 22:11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61016.D
Acq On : 19 Aug 2022 2:34 pm
Operator : thomash
Sample : icc2709-10
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 24 16:20:24 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	3.612	128	68573	10.00	PPBV	0.00
52) 1,4-DIFLUOROBENZENE	4.927	114	368687	10.00	PPBV	0.00
76) CHLOROBENZENE-D5	10.583	117	341921	10.00	PPBV	0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	13.959	95	230073	10.11	PPBV	0.00
Target Compounds						Qvalue
3) FREON 152A	1.850	65	59612m	10.34	PPBV	
4) CHLORODIFLUOROMETHANE	1.866	67	27345	10.68	PPBV	100
5) CHLOROTRIFLUOROETHENE	1.882	116	153518	10.36	PPBV	100
6) DICHLORODIFLUOROMETHANE	1.901	85	351123	10.29	PPBV	100
7) PROPYLENE	1.879	41	63634	9.88	PPBV	100
8) 1-CHLORO-1,1-DIFLUOROE...	1.953	65	265285	10.33	PPBV	100
9) FREON 114	1.998	85	314778	10.24	PPBV	100
10) CHLOROMETHANE	1.962	52	33845	9.85	PPBV	100
11) VINYL CHLORIDE	2.039	62	124106	10.40	PPBV	100
12) 1,3-BUTADIENE	2.094	54	95763	10.39	PPBV	100
13) N-BUTANE	2.113	43	154908	9.65	PPBV	100
14) BROMOMETHANE	2.191	94	108807	10.09	PPBV	100
15) CHLOROETHANE	2.255	64	66908	10.48	PPBV	100
16) DICHLOROFLUOROMETHANE	2.287	67	262644	10.34	PPBV	100
17) ACETONITRILE	2.374	41	94343	9.89	PPBV	100
18) ACROLEIN	2.419	56	55545	13.19	PPBV	100
19) FREON 123	2.435	83	291157	10.31	PPBV	100
20) FREON 123A	2.454	117	168569	10.32	PPBV	100
21) TRICHLOROFLUOROMETHANE	2.519	101	370665	10.44	PPBV	100
22) ISOPROPYL ALCOHOL	2.535	45	272143	9.60	PPBV	100
23) ACETONE	2.461	58	75620	8.37	PPBV	100
24) PENTANE	2.631	42	151254	9.74	PPBV	100
25) IODOMETHANE	2.686	142	357923	10.31	PPBV	100
26) 1,1-DICHLOROETHYLENE	2.712	96	140890	10.34	PPBV	100
27) CARBON DISULFIDE	2.843	76	427514	10.42	PPBV	100
28) ETHANOL	2.293	45	46818	8.39	PPBV	100
29) BROMOETHENE	2.384	106	116683	10.60	PPBV	100
30) ACRYLONITRILE	2.602	52	112584	10.52	PPBV	100
31) METHYLENE CHLORIDE	2.747	84	130773	8.65	PPBV	100
32) 3-CHLOROPROPENE	2.789	76	69034	9.87	PPBV	100
33) FREON 113	2.840	151	237044	10.32	PPBV	100
34) TRANS-1,2-DICHLOROETHENE	3.078	96	117179	10.33	PPBV	100
35) TERTIARY BUTYL ALCOHOL	2.721	59	359669	10.07	PPBV	100
36) METHYL TERTIARY BUTYL ...	3.187	73	298016	10.14	PPBV	100
37) TETRAHYDROFURAN	3.901	72	54925	11.08	PPBV	100
38) HEXANE	3.663	57	203953	10.29	PPBV	100
39) VINYL ACETATE	3.229	86	30940	11.08	PPBV	100
40) 1,1-DICHLOROETHANE	3.155	63	209154	10.30	PPBV	100
41) METHYL ETHYL KETONE	3.326	72	54875	10.87	PPBV	100
42) CIS-1,2-DICHLOROETHENE	3.531	96	125045	10.27	PPBV	100
43) DIISOPROPYL ETHER	3.666	59	59819	10.31	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61016.D
Acq On : 19 Aug 2022 2:34 pm
Operator : thomash
Sample : icc2709-10
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 24 16:20:24 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) ETHYL ACETATE	3.670	61	42234	10.40	PPBV		100
45) METHYL ACRYLATE	3.657	55	250063	10.73	PPBV	#	100
46) CHLOROFORM	3.686	83	253357	10.21	PPBV		100
47) 2,4-DIMETHYLPENTANE	4.197	57	234018	10.14	PPBV		100
48) 1,1,1-TRICHLOROETHANE	4.277	97	257312	10.40	PPBV		100
49) CARBON TETRACHLORIDE	4.708	117	262842	10.72	PPBV		100
50) 1,2-DICHLOROETHANE	4.107	62	174278	10.37	PPBV		100
51) BENZENE	4.596	78	358852	10.13	PPBV		100
53) CYCLOHEXANE	4.811	84	159715	10.27	PPBV		100
54) 2,3-DIMETHYLPENTANE	5.072	71	79395	10.39	PPBV		100
55) TRICHLOROETHENE	5.518	95	168401	10.78	PPBV		100
56) 1,2-DICHLOROPROPANE	5.277	63	142643	10.14	PPBV		100
57) DIBROMOMETHANE	5.236	174	159338	9.91	PPBV		100
58) ETHYL ACRYLATE	5.393	55	291414	11.02	PPBV		100
59) BROMODICHLOROMETHANE	5.461	83	275581	10.68	PPBV		100
60) 2,2,4-TRIMETHYLPENTANE	5.612	57	626816	10.06	PPBV		100
61) 1,4-DIOXANE	5.525	88	77546	10.27	PPBV		100
62) HEPTANE	5.933	43	195964	9.99	PPBV		100
63) METHYL METHACRYLATE	5.824	69	133764	11.13	PPBV		100
64) METHYL ISOBUTYL KETONE	6.570	58	115015	11.47	PPBV		100
65) CIS-1,3-DICHLOROPROPENE	6.473	75	201430	10.80	PPBV		100
66) TOLUENE	7.698	91	456270	10.27	PPBV		100
67) 1,3-DICHLOROPROPANE	7.756	76	221387	10.48	PPBV		100
68) TRANS-1,3-DICHLOROPROPENE	7.158	75	185288	11.08	PPBV		100
69) 1,1,2-TRICHLOROETHANE	7.319	83	133196	10.23	PPBV		100
70) 2-HEXANONE	8.261	58	140692	10.05	PPBV		100
71) ETHYL METHACRYLATE	8.399	69	210424	12.02	PPBV		100
72) TETRACHLOROETHENE	9.448	164	180925	10.17	PPBV		100
73) DIBROMOCHLOROMETHANE	8.239	129	283293	11.17	PPBV		100
74) 1,2-DIBROMOETHANE	8.589	107	254212	10.72	PPBV		100
75) OCTANE	9.589	43	270687	10.27	PPBV		100
77) 1,1,1,2-TETRACHLOROETHANE	10.676	131	195924	10.58	PPBV		100
78) CHLOROBENZENE	10.663	112	373765	10.17	PPBV		100
79) ETHYLBENZENE	11.550	91	606877	10.36	PPBV		100
80) M,P-XYLENE	11.984	91	931500	20.91	PPBV		100
81) O-XYLENE	12.920	91	474584	10.42	PPBV		100
82) STYRENE	12.705	104	362579	11.12	PPBV		100
83) NONANE	14.033	43	285197	10.14	PPBV		100
84) BROMOFORM	11.795	173	263671	11.19	PPBV		100
85) 1,1,2,2-TETRACHLOROETHANE	12.927	83	348949	10.30	PPBV		100
86) 1,2,3-TRICHLOROPROPANE	13.213	75	255217	10.27	PPBV		100
88) ISOPROPYLBENZENE	14.438	120	201148	10.42	PPBV		100
89) BROMOBENZENE	14.306	77	324788	10.31	PPBV		100
90) 2-CHLOROTOLUENE	15.441	126	168206	10.37	PPBV		100
91) N-PROPYLBENZENE	15.775	120	190916	10.76	PPBV		100
92) 4-ETHYLTOLUENE	16.148	105	697047	10.66	PPBV		100
93) 1,3,5-TRIMETHYLBENZENE	16.303	105	574603	10.54	PPBV		100
94) ALPHA-METHYLSTYRENE	16.502	118	254586	11.10	PPBV		100
95) TERT-BUTYLBENZENE	16.759	134	146096	10.47	PPBV		100
96) 1,2,4-TRIMETHYLBENZENE	16.769	105	603160	10.35	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61016.D
Acq On : 19 Aug 2022 2:34 pm
Operator : thomash
Sample : icc2709-10
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 24 16:20:24 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

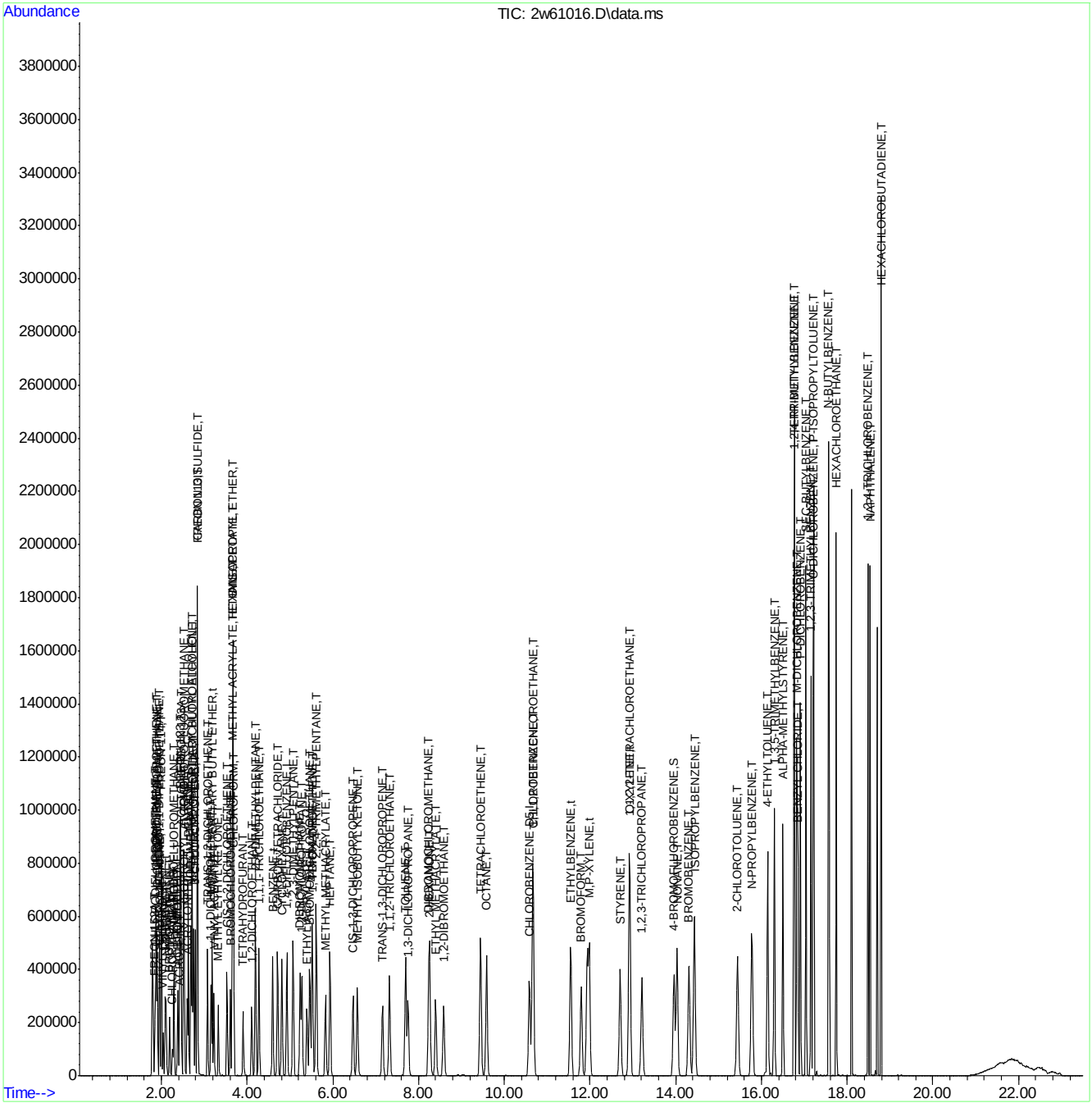
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97) BENZYL CHLORIDE	16.849	91	387750	10.74	PPBV	100
98) M-DICHLOROBENZENE	16.827	146	397777	10.38	PPBV	100
99) P-DICHLOROBENZENE	16.910	146	402097	10.35	PPBV	100
100) O-DICHLOROBENZENE	17.206	146	382073	10.13	PPBV	100
101) SEC-BUTYLBENZENE	17.042	134	178508	10.29	PPBV	100
102) 1,2,3-TRIMETHYLBENZENE	17.151	105	577798	10.48	PPBV	100
103) P-ISOPROPYLTOLUENE	17.219	134	196741	10.30	PPBV	100
104) N-BUTYLBENZENE	17.566	134	185259	10.49	PPBV	100
105) HEXACHLOROETHANE	17.746	117	227539	10.51	PPBV	100
106) HEXACHLOROBUTADIENE	18.794	225	274670	9.28	PPBV	100
107) 1,2,4-TRICHLOROBENZENE	18.486	180	319072	10.22	PPBV	100
108) NAPHTHALENE	18.534	128	794905	9.96	PPBV	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61016.D
Acq On : 19 Aug 2022 2:34 pm
Operator : thomash
Sample : icc2709-10
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 24 16:20:24 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration



Manual Integration Approval Summary

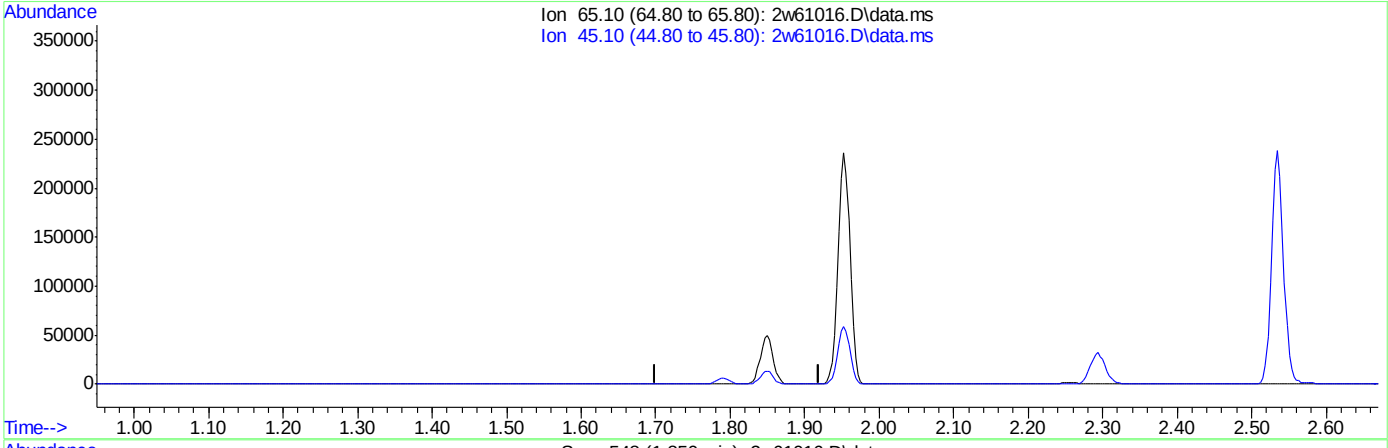
Sample Number:	V2W2709-ICC2709	**Method:**	TO-15
Lab FileID:	2W61016.D	**Analyst approved:**	08/24/22 16:27 Benjamin Kim
Injection Time:	08/19/22 14:34	**Supervisor approved:**	08/24/22 22:11 Kanya Veerawat

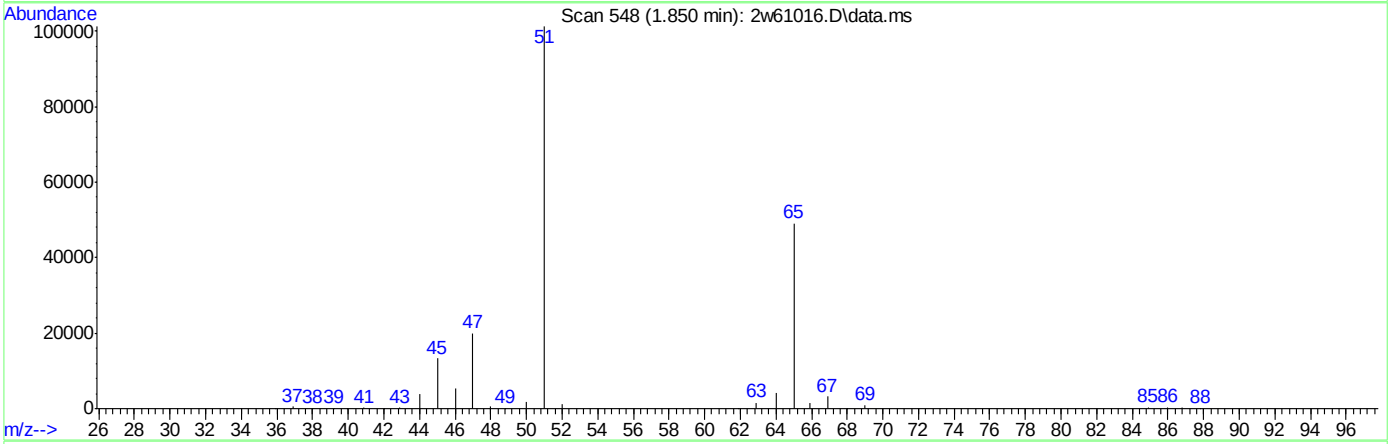
Parameter	CAS	Sig#	R.T. (min.)	Reason
Freon 152A	75-37-6		1.85	Missed peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61016.D
Acq On : 19 Aug 2022 2:34 pm
Operator : thomash
Sample : icc2709-10
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 24 16:20:14 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration





TIC: 2w61016.D\data.ms

(3) FREON 152A (T)

1.850min (-1.850) 0.00PPBV

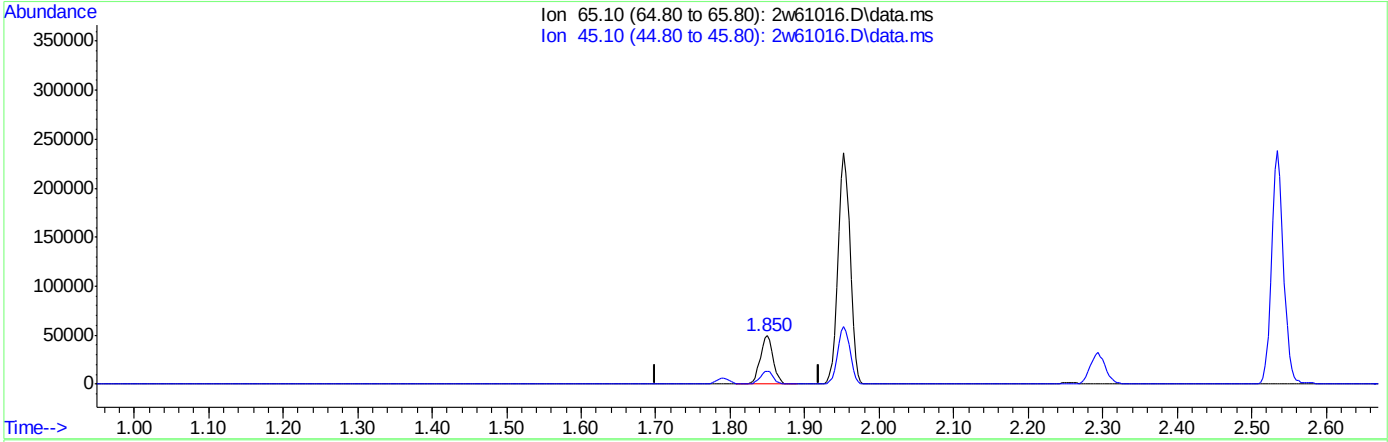
response 0

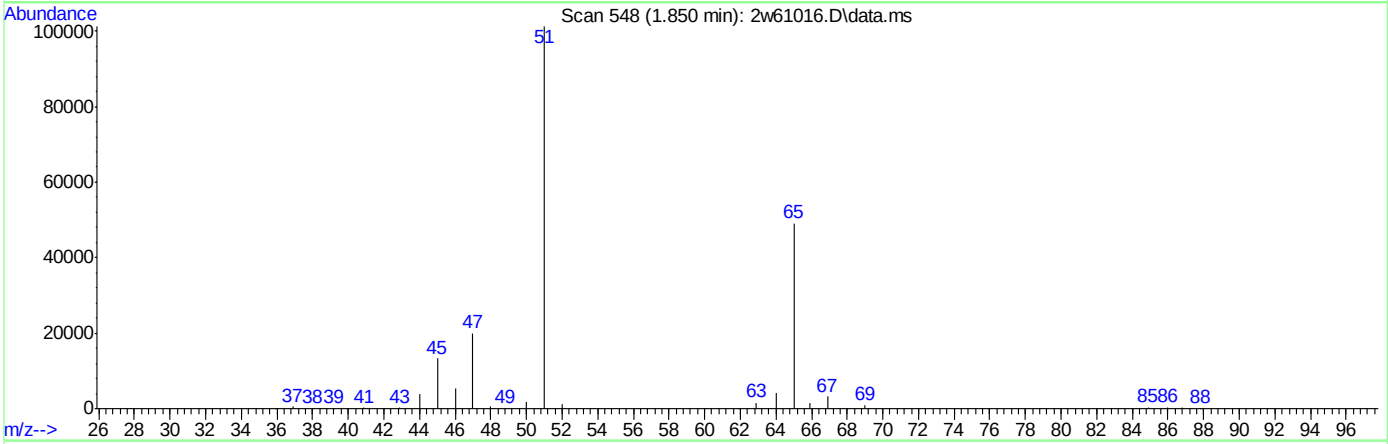
Ion	Exp%	Act%
65.10	100	0.00
45.10	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61016.D
Acq On : 19 Aug 2022 2:34 pm
Operator : thomash
Sample : icc2709-10
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 24 16:20:14 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration





TIC: 2w61016.D\data.ms

(3) FREON 152A (T)

1.850min (-0.000) 10.34PPBV m

response 59612

Ion	Exp%	Act%
65.10	100	100
45.10	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61017.D
Acq On : 19 Aug 2022 3:08 pm
Operator : thomash
Sample : ic2709-20
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 26 18:42:50 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 22:00:08 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.609	128	72073	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.927	114	384279	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	10.589	117	358155	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.959	95	238630	10.08	PPBV		0.00
Target Compounds							Qvalue
3) FREON 152A	1.850	65	119609	21.67	PPBV		98
4) CHLORODIFLUOROMETHANE	1.866	67	53785	22.19	PPBV		98
5) CHLOROTRIFLUOROETHENE	1.879	116	309146	21.92	PPBV	#	1
6) DICHLORODIFLUOROMETHANE	1.901	85	710111	21.96	PPBV	#	72
7) PROPYLENE	1.875	41	125554	19.65	PPBV		100
8) 1-CHLORO-1,1-DIFLUOROE...	1.953	65	533917	22.10	PPBV		100
9) FREON 114	1.998	85	635679	21.96	PPBV		100
10) CHLOROMETHANE	1.959	52	67799	19.87	PPBV		99
11) VINYL CHLORIDE	2.039	62	245329	21.39	PPBV		100
12) 1,3-BUTADIENE	2.091	54	188819	21.37	PPBV		99
13) N-BUTANE	2.113	43	309535	19.29	PPBV		99
14) BROMOMETHANE	2.191	94	217948	20.88	PPBV		99
15) CHLOROETHANE	2.255	64	133028	22.02	PPBV		100
16) DICHLOROFLUOROMETHANE	2.287	67	523147	21.63	PPBV		99
17) ACETONITRILE	2.374	41	186887	19.71	PPBV		99
18) ACROLEIN	2.419	56	111309	35.08	PPBV		100
19) FREON 123	2.435	83	587837	22.27	PPBV		99
20) FREON 123A	2.454	117	339631	22.07	PPBV		99
21) TRICHLOROFLUOROMETHANE	2.519	101	749691	22.72	PPBV	#	1
22) ISOPROPYL ALCOHOL	2.535	45	539479	19.05	PPBV		99
23) ACETONE	2.461	58	149689	15.18	PPBV		99
24) PENTANE	2.628	42	298332	19.42	PPBV		100
25) IODOMETHANE	2.686	142	720238	22.06	PPBV		100
26) 1,1-DICHLOROETHYLENE	2.711	96	281459	21.94	PPBV		100
27) CARBON DISULFIDE	2.843	76	866184	23.15	PPBV	#	82
28) ETHANOL	2.293	45	92201	15.11	PPBV		100
29) BROMOETHENE	2.384	106	232310	22.53	PPBV	#	100
30) ACRYLONITRILE	2.602	52	218286	21.27	PPBV		99
31) METHYLENE CHLORIDE	2.747	84	255502	15.64	PPBV		99
32) 3-CHLOROPROPENE	2.789	76	137721	20.20	PPBV		99
33) FREON 113	2.843	151	482307	22.76	PPBV		100
34) TRANS-1,2-DICHLOROETHENE	3.078	96	233895	21.81	PPBV		100
35) TERTIARY BUTYL ALCOHOL	2.721	59	721034	21.25	PPBV		98
36) METHYL TERTIARY BUTYL ...	3.187	73	606051	21.92	PPBV		100
37) TETRAHYDROFURAN	3.901	72	108695	24.06	PPBV		99
38) HEXANE	3.663	57	415582	22.90	PPBV		100
39) VINYL ACETATE	3.229	86	64034	25.97	PPBV		99
40) 1,1-DICHLOROETHANE	3.155	63	420818	21.97	PPBV		100
41) METHYL ETHYL KETONE	3.326	72	111776	24.57	PPBV		98
42) CIS-1,2-DICHLOROETHENE	3.531	96	252348	21.70	PPBV		100
43) DIISOPROPYL ETHER	3.666	59	123383	23.44	PPBV		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61017.D
Acq On : 19 Aug 2022 3:08 pm
Operator : thomash
Sample : ic2709-20
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 26 18:42:50 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 22:00:08 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) ETHYL ACETATE	3.670	61	86776	13.76	PPBV		99
45) METHYL ACRYLATE	3.657	55	510404	24.79	PPBV	#	100
46) CHLOROFORM	3.686	83	513909	22.13	PPBV		99
47) 2,4-DIMETHYLPENTANE	4.194	57	470856	21.45	PPBV		99
48) 1,1,1-TRICHLOROETHANE	4.277	97	527043	22.94	PPBV		100
49) CARBON TETRACHLORIDE	4.711	117	542697	24.68	PPBV		100
50) 1,2-DICHLOROETHANE	4.107	62	348365	21.95	PPBV	#	100
51) BENZENE	4.596	78	725030	21.38	PPBV		100
53) CYCLOHEXANE	4.811	84	317297	21.70	PPBV		99
54) 2,3-DIMETHYLPENTANE	5.072	71	158286	22.42	PPBV		99
55) TRICHLOROETHENE	5.518	95	339829	23.18	PPBV		99
56) 1,2-DICHLOROPROPANE	5.281	63	287533	21.88	PPBV		99
57) DIBROMOMETHANE	5.239	174	322093	21.10	PPBV		99
58) ETHYL ACRYLATE	5.396	55	594434	26.49	PPBV		100
59) BROMODICHLOROMETHANE	5.464	83	560295	24.43	PPBV		99
60) 2,2,4-TRIMETHYLPENTANE	5.615	57	1253824	21.49	PPBV		100
61) 1,4-DIOXANE	5.522	88	158700	23.36	PPBV		100
62) HEPTANE	5.936	43	393688	21.58	PPBV		100
63) METHYL METHACRYLATE	5.827	69	268959	25.91	PPBV		98
64) METHYL ISOBUTYL KETONE	6.570	58	230494	27.53	PPBV		99
65) CIS-1,3-DICHLOROPROPENE	6.473	75	415505	25.82	PPBV		99
66) TOLUENE	7.702	91	918264	22.25	PPBV		99
67) 1,3-DICHLOROPROPANE	7.760	76	441470	22.77	PPBV		100
68) TRANS-1,3-DICHLOROPROPENE	7.158	75	385600	27.47	PPBV		100
69) 1,1,2-TRICHLOROETHANE	7.322	83	269908	22.48	PPBV		100
70) 2-HEXANONE	8.264	58	286596	46.93	PPBV	#	1
71) ETHYL METHACRYLATE	8.403	69	428085	30.73	PPBV		99
72) TETRACHLOROETHENE	9.451	164	360632	21.23	PPBV		99
73) DIBROMOCHLOROMETHANE	8.242	129	589014	27.69	PPBV		100
74) 1,2-DIBROMOETHANE	8.592	107	512775	24.13	PPBV		99
75) OCTANE	9.589	43	544929	22.63	PPBV		100
77) 1,1,1,2-TETRACHLOROETHANE	10.679	131	406522	24.98	PPBV		100
78) CHLOROBENZENE	10.669	112	759439	22.31	PPBV		99
79) ETHYLBENZENE	11.550	91	1229285	22.97	PPBV		100
80) M,P-XYLENE	11.984	91	1875142	57.69	PPBV		97
81) O-XYLENE	12.927	91	960134	23.25	PPBV		98
82) STYRENE	12.708	104	729709	25.85	PPBV		99
83) NONANE	14.036	43	572888	22.13	PPBV		99
84) BROMOFORM	11.798	173	560231	32.59	PPBV		99
85) 1,1,2,2-TETRACHLOROETHANE	12.933	83	706794	22.85	PPBV		100
86) 1,2,3-TRICHLOROPROPANE	13.216	75	509259	22.12	PPBV	#	100
88) ISOPROPYLBENZENE	14.441	120	405394	23.03	PPBV		100
89) BROMOBENZENE	14.312	77	655507	22.69	PPBV		99
90) 2-CHLOROTOLUENE	15.447	126	343056	24.83	PPBV		99
91) N-PROPYLBENZENE	15.785	120	385371	24.43	PPBV		100
92) 4-ETHYLTOLUENE	16.148	105	1435811	25.24	PPBV		100
93) 1,3,5-TRIMETHYLBENZENE	16.306	105	1192682	25.09	PPBV		99
94) ALPHA-METHYLSTYRENE	16.505	118	527450	27.71	PPBV		100
95) TERT-BUTYLBENZENE	16.766	134	303824	25.44	PPBV		97
96) 1,2,4-TRIMETHYLBENZENE	16.772	105	1293755	26.51	PPBV		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61017.D
Acq On : 19 Aug 2022 3:08 pm
Operator : thomash
Sample : ic2709-20
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 26 18:42:50 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 22:00:08 2022
Response via : Initial Calibration

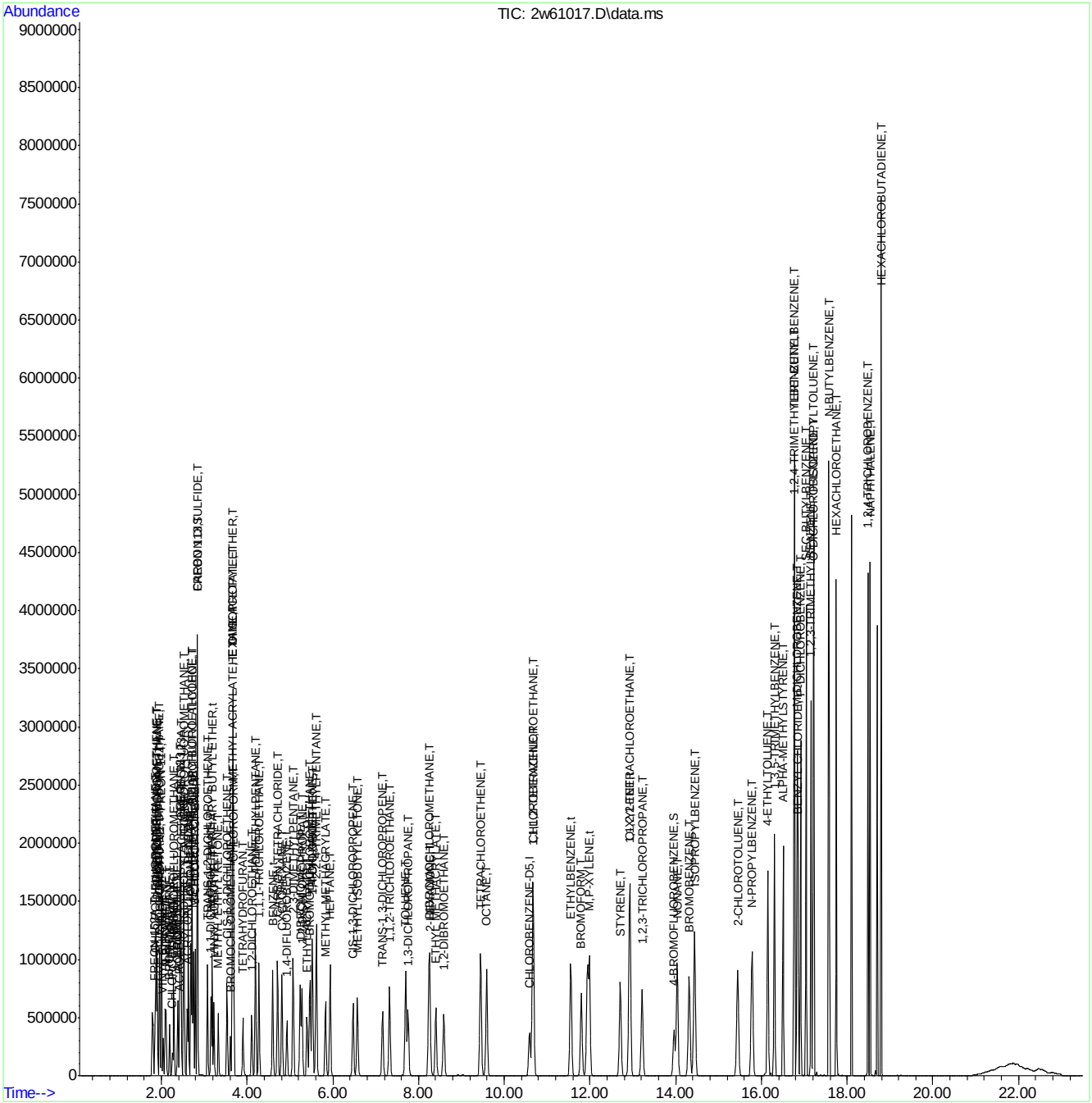
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
97)	BENZYL CHLORIDE	16.852	91	905981	39.94	PPBV		100
98)	M-DICHLOROBENZENE	16.830	146	829871	24.83	PPBV		99
99)	P-DICHLOROBENZENE	16.913	146	840356	24.71	PPBV		100
100)	O-DICHLOROBENZENE	17.209	146	806160	24.67	PPBV		99
101)	SEC-BUTYLBENZENE	17.042	134	371849	24.70	PPBV		98
102)	1,2,3-TRIMETHYLBENZENE	17.155	105	1213480	25.58	PPBV		100
103)	P-ISOPROPYLTOLUENE	17.222	134	415269	25.65	PPBV		97
104)	N-BUTYLBENZENE	17.569	134	392160	26.91	PPBV		98
105)	HEXACHLOROETHANE	17.746	117	507678	34.05	PPBV		100
106)	HEXACHLOROBUTADIENE	18.794	225	605947	25.92	PPBV	#	1
107)	1,2,4-TRICHLOROBENZENE	18.486	180	701617	28.80	PPBV		99
108)	NAPHTHALENE	18.534	128	1757343	31.33	PPBV		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61017.D
Acq On : 19 Aug 2022 3:08 pm
Operator : thomash
Sample : ic2709-20
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 26 18:42:50 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 22:00:08 2022
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61018.D
Acq On : 19 Aug 2022 3:45 pm
Operator : thomash
Sample : ic2709-40
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 26 18:42:57 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 22:00:50 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.615	128	75390	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.933	114	391613	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	10.592	117	360276	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.965	95	245334	10.32	PPBV		0.00
Target Compounds							Qvalue
3) FREON 152A	1.850	65	243126	38.17	PPBV		99
4) CHLORODIFLUOROMETHANE	1.866	67	109188	39.04	PPBV		100
5) CHLOROTRIFLUOROETHENE	1.882	116	627638	38.52	PPBV		96
6) DICHLORODIFLUOROMETHANE	1.901	85	1479485	39.57	PPBV	#	73
7) PROPYLENE	1.879	41	251353	34.44	PPBV		99
8) 1-CHLORO-1,1-DIFLUOROE...	1.953	65	1121396	40.14	PPBV		99
9) FREON 114	1.998	85	1334611	39.88	PPBV		100
10) CHLOROMETHANE	1.959	52	136086	34.83	PPBV		96
11) VINYL CHLORIDE	2.043	62	495818	37.56	PPBV		99
12) 1,3-BUTADIENE	2.091	54	386427	38.02	PPBV		98
13) N-BUTANE	2.113	43	635409	34.69	PPBV		98
14) BROMOMETHANE	2.191	94	445982	37.16	PPBV		100
15) CHLOROETHANE	2.255	64	273621	39.23	PPBV		97
16) DICHLOROFLUOROMETHANE	2.287	67	1080427	38.75	PPBV		99
17) ACETONITRILE	2.374	41	377221	34.81	PPBV		99
18) ACROLEIN	2.422	56	224446	57.96	PPBV		99
19) FREON 123	2.438	83	1232627	40.34	PPBV		99
20) FREON 123A	2.457	117	705506	39.64	PPBV		100
21) TRICHLOROFLUOROMETHANE	2.522	101	1556028	40.65	PPBV	#	1
22) ISOPROPYL ALCOHOL	2.538	45	1119289	34.68	PPBV		98
23) ACETONE	2.464	58	308439	27.92	PPBV		99
24) PENTANE	2.631	42	617378	35.22	PPBV		99
25) IODOMETHANE	2.689	142	1493248	39.55	PPBV		100
26) 1,1-DICHLOROETHYLENE	2.715	96	580473	39.19	PPBV		100
27) CARBON DISULFIDE	2.846	76	1878046	43.18	PPBV	#	83
28) ETHANOL	2.293	45	191387	28.01	PPBV		99
29) BROMOETHENE	2.383	106	479632	40.19	PPBV	#	100
30) ACRYLONITRILE	2.605	52	443598	37.65	PPBV		99
31) METHYLENE CHLORIDE	2.750	84	522774	28.54	PPBV		98
32) 3-CHLOROPROPENE	2.792	76	285712	36.57	PPBV		98
33) FREON 113	2.846	151	1022349	41.55	PPBV		99
34) TRANS-1,2-DICHLOROETHENE	3.081	96	487483	39.39	PPBV		99
35) TERTIARY BUTYL ALCOHOL	2.724	59	1519448	38.88	PPBV		97
36) METHYL TERTIARY BUTYL ...	3.191	73	1266667	39.60	PPBV		99
37) TETRAHYDROFURAN	3.901	72	221246	42.07	PPBV		97
38) HEXANE	3.666	57	899527	42.66	PPBV		98
39) VINYL ACETATE	3.232	86	133347	45.84	PPBV		95
40) 1,1-DICHLOROETHANE	3.158	63	870922	39.34	PPBV		100
41) METHYL ETHYL KETONE	3.332	72	227283	42.69	PPBV		98
42) CIS-1,2-DICHLOROETHENE	3.535	96	508335	37.86	PPBV		98
43) DIISOPROPYL ETHER	3.673	59	266606	43.42	PPBV		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61018.D
Acq On : 19 Aug 2022 3:45 pm
Operator : thomash
Sample : ic2709-40
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 26 18:42:57 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 22:00:50 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) ETHYL ACETATE	3.676	61	188065	26.72	PPBV		97
45) METHYL ACRYLATE	3.663	55	1105429	45.81	PPBV	#	100
46) CHLOROFORM	3.692	83	1082305	40.27	PPBV		100
47) 2,4-DIMETHYLPENTANE	4.200	57	977707	38.62	PPBV		99
48) 1,1,1-TRICHLOROETHANE	4.280	97	1088934	40.76	PPBV		100
49) CARBON TETRACHLORIDE	4.715	117	1142602	44.30	PPBV		99
50) 1,2-DICHLOROETHANE	4.110	62	715755	39.04	PPBV	#	100
51) BENZENE	4.599	78	1483442	37.93	PPBV		100
53) CYCLOHEXANE	4.814	84	643536	39.15	PPBV		99
54) 2,3-DIMETHYLPENTANE	5.078	71	324995	40.80	PPBV		99
55) TRICHLOROETHENE	5.525	95	699614	42.11	PPBV		100
56) 1,2-DICHLOROPROPANE	5.287	63	590498	39.88	PPBV		100
57) DIBROMOMETHANE	5.242	174	662597	38.64	PPBV		99
58) ETHYL ACRYLATE	5.403	55	1255805	48.62	PPBV		100
59) BROMODICHLOROMETHANE	5.470	83	1173368	44.86	PPBV		99
60) 2,2,4-TRIMETHYLPENTANE	5.618	57	2607491	39.76	PPBV		100
61) 1,4-DIOXANE	5.528	88	329741	42.73	PPBV		98
62) HEPTANE	5.943	43	829090	40.40	PPBV		98
63) METHYL METHACRYLATE	5.830	69	556396	46.76	PPBV		96
64) METHYL ISOBUTYL KETONE	6.576	58	480170	49.71	PPBV		97
65) CIS-1,3-DICHLOROPROPENE	6.477	75	876146	47.38	PPBV		98
66) TOLUENE	7.705	91	1887113	40.52	PPBV		99
67) 1,3-DICHLOROPROPANE	7.763	76	911052	41.59	PPBV		99
68) TRANS-1,3-DICHLOROPROPENE	7.165	75	823795	50.64	PPBV		98
69) 1,1,2-TRICHLOROETHANE	7.329	83	557236	41.06	PPBV		99
70) 2-HEXANONE	8.271	58	601548	78.64	PPBV	#	1
71) ETHYL METHACRYLATE	8.409	69	889580	54.47	PPBV		98
72) TETRACHLOROETHENE	9.451	164	738323	38.73	PPBV		97
73) DIBROMOCHLOROMETHANE	8.245	129	1239625	50.25	PPBV		100
74) 1,2-DIBROMOETHANE	8.599	107	1054110	43.59	PPBV		99
75) OCTANE	9.599	43	1141955	41.95	PPBV		99
77) 1,1,1,2-TETRACHLOROETHANE	10.685	131	855771	46.52	PPBV		99
78) CHLOROBENZENE	10.673	112	1582955	41.73	PPBV		100
79) ETHYLBENZENE	11.557	91	2541811	42.50	PPBV		100
80) M,P-XYLENE	11.994	91	3883185	104.34	PPBV		98
81) O-XYLENE	12.933	91	2007144	43.45	PPBV		97
82) STYRENE	12.714	104	1514814	47.47	PPBV		99
83) NONANE	14.042	43	1218804	42.33	PPBV		97
84) BROMOFORM	11.808	173	1194818	59.29	PPBV		100
85) 1,1,2,2-TETRACHLOROETHANE	12.943	83	1484129	42.96	PPBV		100
86) 1,2,3-TRICHLOROPROPANE	13.225	75	1060322	41.43	PPBV	#	100
88) ISOPROPYLBENZENE	14.451	120	838695	42.65	PPBV		98
89) BROMOBENZENE	14.322	77	1365994	42.38	PPBV		98
90) 2-CHLOROTOLUENE	15.454	126	705214	45.27	PPBV		99
91) N-PROPYLBENZENE	15.788	120	795411	44.86	PPBV		99
92) 4-ETHYLTOLUENE	16.155	105	3031201	47.13	PPBV		99
93) 1,3,5-TRIMETHYLBENZENE	16.309	105	2528639	47.03	PPBV		99
94) ALPHA-METHYLSTYRENE	16.508	118	1119624	51.43	PPBV		99
95) TERT-BUTYLBENZENE	16.769	134	667647	49.35	PPBV		96
96) 1,2,4-TRIMETHYLBENZENE	16.778	105	2882549	51.70	PPBV		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61018.D
Acq On : 19 Aug 2022 3:45 pm
Operator : thomash
Sample : ic2709-40
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 26 18:42:57 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 22:00:50 2022
Response via : Initial Calibration

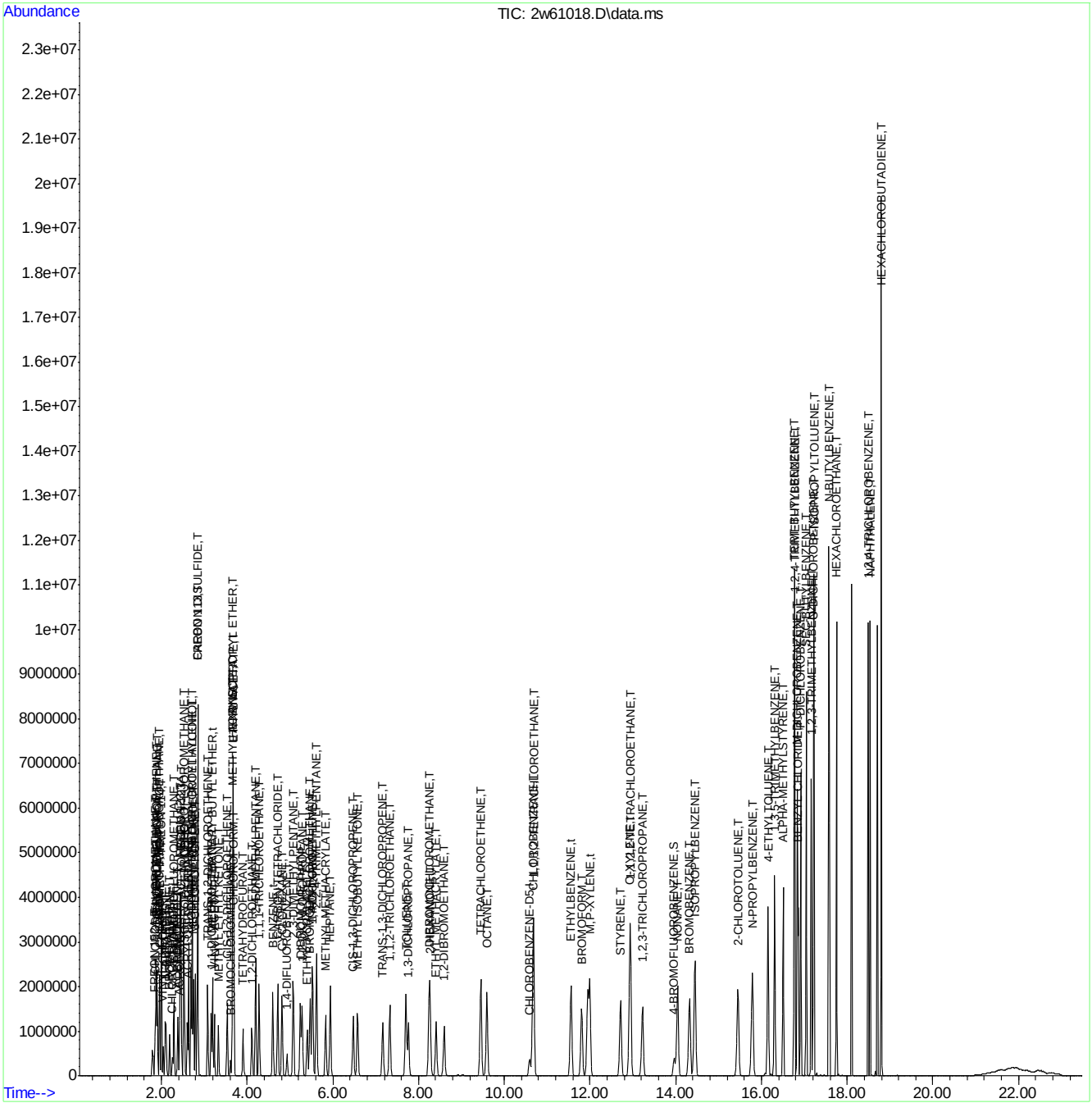
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
97)	BENZYL CHLORIDE	16.859	91	2078990	74.66	PPBV		99
98)	M-DICHLOROBENZENE	16.836	146	1772351	46.91	PPBV		99
99)	P-DICHLOROBENZENE	16.917	146	1801589	46.89	PPBV		100
100)	O-DICHLOROBENZENE	17.212	146	1779127	48.14	PPBV		98
101)	SEC-BUTYLBENZENE	17.045	134	808180	47.53	PPBV		98
102)	1,2,3-TRIMETHYLBENZENE	17.161	105	2606792	48.43	PPBV		100
103)	P-ISOPROPYLTOLUENE	17.225	134	931126	50.64	PPBV		95
104)	N-BUTYLBENZENE	17.573	134	886723	53.25	PPBV		99
105)	HEXACHLOROETHANE	17.749	117	1187726	67.07	PPBV		99
106)	HEXACHLOROBUTADIENE	18.801	225	1615377	60.47	PPBV	#	1
107)	1,2,4-TRICHLOROBENZENE	18.492	180	1688831	59.89	PPBV		99
108)	NAPHTHALENE	18.540	128	4191967	63.79	PPBV		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61018.D
Acq On : 19 Aug 2022 3:45 pm
Operator : thomash
Sample : ic2709-40
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 26 18:42:57 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 22:00:50 2022
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/24/22 15:08

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61019.D
Acq On : 19 Aug 2022 4:25 pm
Operator : thomash
Sample : ic2709-50
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 25 19:37:53 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 22:02:08 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.612	128	77394	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.930	114	400362	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	10.592	117	371357	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.965	95	257117	10.44	PPBV		0.00
Target Compounds							Qvalue
3) FREON 152A	1.847	65	315555m	48.63	PPBV		
4) CHLORODIFLUOROMETHANE	1.863	67	143977	50.35	PPBV		100
5) CHLOROTRIFLUOROETHENE	1.879	116	809484	48.69	PPBV	#	1
6) DICHLORODIFLUOROMETHANE	1.901	85	1895074	49.46	PPBV	#	73
7) PROPYLENE	1.876	41	334863	45.75	PPBV		100
8) 1-CHLORO-1,1-DIFLUOROE...	1.950	65	1477691	51.50	PPBV		99
9) FREON 114	1.998	85	1751141	51.00	PPBV		100
10) CHLOROMETHANE	1.956	52	174894	44.57	PPBV		95
11) VINYL CHLORIDE	2.040	62	644264	48.03	PPBV		100
12) 1,3-BUTADIENE	2.091	54	498868	48.21	PPBV		97
13) N-BUTANE	2.110	43	827226	44.99	PPBV		98
14) BROMOMETHANE	2.187	94	580384	47.68	PPBV		99
15) CHLOROETHANE	2.252	64	348977	48.90	PPBV		100
16) DICHLOROFLUOROMETHANE	2.284	67	1407828	49.44	PPBV		99
17) ACETONITRILE	2.374	41	489019	44.93	PPBV		100
18) ACROLEIN	2.419	56	293260	68.63	PPBV		98
19) FREON 123	2.435	83	1628741	51.85	PPBV		98
20) FREON 123A	2.454	117	928262	50.88	PPBV		100
21) TRICHLOROFLUOROMETHANE	2.522	101	2030125	51.52	PPBV	#	1
22) ISOPROPYL ALCOHOL	2.535	45	1478260	45.63	PPBV		97
23) ACETONE	2.461	58	400082	37.15	PPBV		97
24) PENTANE	2.631	42	817306	46.35	PPBV		98
25) IODOMETHANE	2.689	142	1964647	50.79	PPBV		99
26) 1,1-DICHLOROETHYLENE	2.715	96	765307	50.50	PPBV		99
27) CARBON DISULFIDE	2.843	76	2507798	55.43	PPBV	#	83
28) ETHANOL	2.290	45	246846	37.04	PPBV		100
29) BROMOETHENE	2.384	106	620196	50.58	PPBV	#	100
30) ACRYLONITRILE	2.605	52	578727	48.33	PPBV		99
31) METHYLENE CHLORIDE	2.750	84	678951	37.92	PPBV		98
32) 3-CHLOROPROPENE	2.789	76	376811	47.66	PPBV		96
33) FREON 113	2.843	151	1361647	53.56	PPBV		99
34) TRANS-1,2-DICHLOROETHENE	3.078	96	628136	49.57	PPBV		98
35) TERTIARY BUTYL ALCOHOL	2.724	59	2025223	50.71	PPBV		96
36) METHYL TERTIARY BUTYL ...	3.191	73	1679213	51.22	PPBV		99
37) TETRAHYDROFURAN	3.901	72	286227	52.56	PPBV		94
38) HEXANE	3.667	57	1194401	54.57	PPBV		97
39) VINYL ACETATE	3.232	86	173783	56.81	PPBV		90
40) 1,1-DICHLOROETHANE	3.158	63	1140199	50.31	PPBV		100
41) METHYL ETHYL KETONE	3.329	72	297332	53.80	PPBV		95
42) CIS-1,2-DICHLOROETHENE	3.535	96	666224	48.77	PPBV		98
43) DIISOPROPYL ETHER	3.670	59	355381	55.59	PPBV		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61019.D
Acq On : 19 Aug 2022 4:25 pm
Operator : thomash
Sample : ic2709-50
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 25 19:37:53 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 22:02:08 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) ETHYL ACETATE	3.676	61	250108	36.64	PPBV		95
45) METHYL ACRYLATE	3.663	55	1472760	58.04	PPBV	#	99
46) CHLOROFORM	3.692	83	1421306	51.45	PPBV		99
47) 2,4-DIMETHYLPENTANE	4.197	57	1278310	49.47	PPBV		99
48) 1,1,1-TRICHLOROETHANE	4.281	97	1433988	52.12	PPBV		100
49) CARBON TETRACHLORIDE	4.715	117	1506885	55.91	PPBV		99
50) 1,2-DICHLOROETHANE	4.110	62	949510	50.66	PPBV	#	100
51) BENZENE	4.599	78	1925702	48.38	PPBV		99
53) CYCLOHEXANE	4.814	84	836214	49.94	PPBV		98
54) 2,3-DIMETHYLPENTANE	5.075	71	423444	51.83	PPBV		98
55) TRICHLOROETHENE	5.525	95	914266	53.36	PPBV		100
56) 1,2-DICHLOROPROPANE	5.284	63	767273	50.71	PPBV		99
57) DIBROMOMETHANE	5.242	174	858284	49.24	PPBV		99
58) ETHYL ACRYLATE	5.403	55	1655767	60.53	PPBV		100
59) BROMODICHLOROMETHANE	5.470	83	1526784	55.96	PPBV		99
60) 2,2,4-TRIMETHYLPENTANE	5.618	57	3414105	50.97	PPBV		99
61) 1,4-DIOXANE	5.528	88	430490	53.95	PPBV		98
62) HEPTANE	5.940	43	1099665	52.33	PPBV		97
63) METHYL METHACRYLATE	5.834	69	723275	57.83	PPBV		94
64) METHYL ISOBUTYL KETONE	6.580	58	631337	61.44	PPBV		97
65) CIS-1,3-DICHLOROPROPENE	6.477	75	1143849	58.70	PPBV		97
66) TOLUENE	7.705	91	2458882	51.53	PPBV		99
67) 1,3-DICHLOROPROPANE	7.766	76	1184302	52.54	PPBV		99
68) TRANS-1,3-DICHLOROPROPENE	7.165	75	1076417	61.97	PPBV		98
69) 1,1,2-TRICHLOROETHANE	7.329	83	720019	51.66	PPBV		99
70) 2-HEXANONE	8.274	58	789128	86.92	PPBV	#	1
71) ETHYL METHACRYLATE	8.412	69	1161842	65.63	PPBV		97
72) TETRACHLOROETHENE	9.454	164	957285	49.38	PPBV		98
73) DIBROMOCHLOROMETHANE	8.245	129	1619881	61.60	PPBV		100
74) 1,2-DIBROMOETHANE	8.602	107	1368683	54.55	PPBV		99
75) OCTANE	9.596	43	1503562	53.59	PPBV		98
77) 1,1,1,2-TETRACHLOROETHANE	10.689	131	1128393	57.94	PPBV		99
78) CHLOROBENZENE	10.679	112	2056681	52.22	PPBV		100
79) ETHYLBENZENE	11.560	91	3310069	53.14	PPBV		99
80) M,P-XYLENE	12.001	91	5065239	125.67	PPBV		99
81) O-XYLENE	12.936	91	2631482	54.49	PPBV		97
82) STYRENE	12.718	104	1982079	58.44	PPBV		99
83) NONANE	14.052	43	1613964	53.86	PPBV		96
84) BROMOFORM	11.804	173	1577799	70.31	PPBV		100
85) 1,1,2,2-TETRACHLOROETHANE	12.946	83	1950224	54.10	PPBV		100
86) 1,2,3-TRICHLOROPROPANE	13.232	75	1393109	52.50	PPBV	#	100
88) ISOPROPYLBENZENE	14.451	120	1095013	53.43	PPBV		98
89) BROMOBENZENE	14.325	77	1794640	53.49	PPBV		97
90) 2-CHLOROTOLUENE	15.457	126	923908	56.31	PPBV		99
91) N-PROPYLBENZENE	15.795	120	1041804	55.87	PPBV		100
92) 4-ETHYLTOLUENE	16.155	105	3996171	58.54	PPBV		99
93) 1,3,5-TRIMETHYLBENZENE	16.309	105	3336015	58.48	PPBV		100
94) ALPHA-METHYLSTYRENE	16.508	118	1476907	62.83	PPBV		99
95) TERT-BUTYLBENZENE	16.772	134	895122	61.78	PPBV		96
96) 1,2,4-TRIMETHYLBENZENE	16.779	105	3861297	64.07	PPBV		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61019.D
Acq On : 19 Aug 2022 4:25 pm
Operator : thomash
Sample : ic2709-50
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 25 19:37:53 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 22:02:08 2022
Response via : Initial Calibration

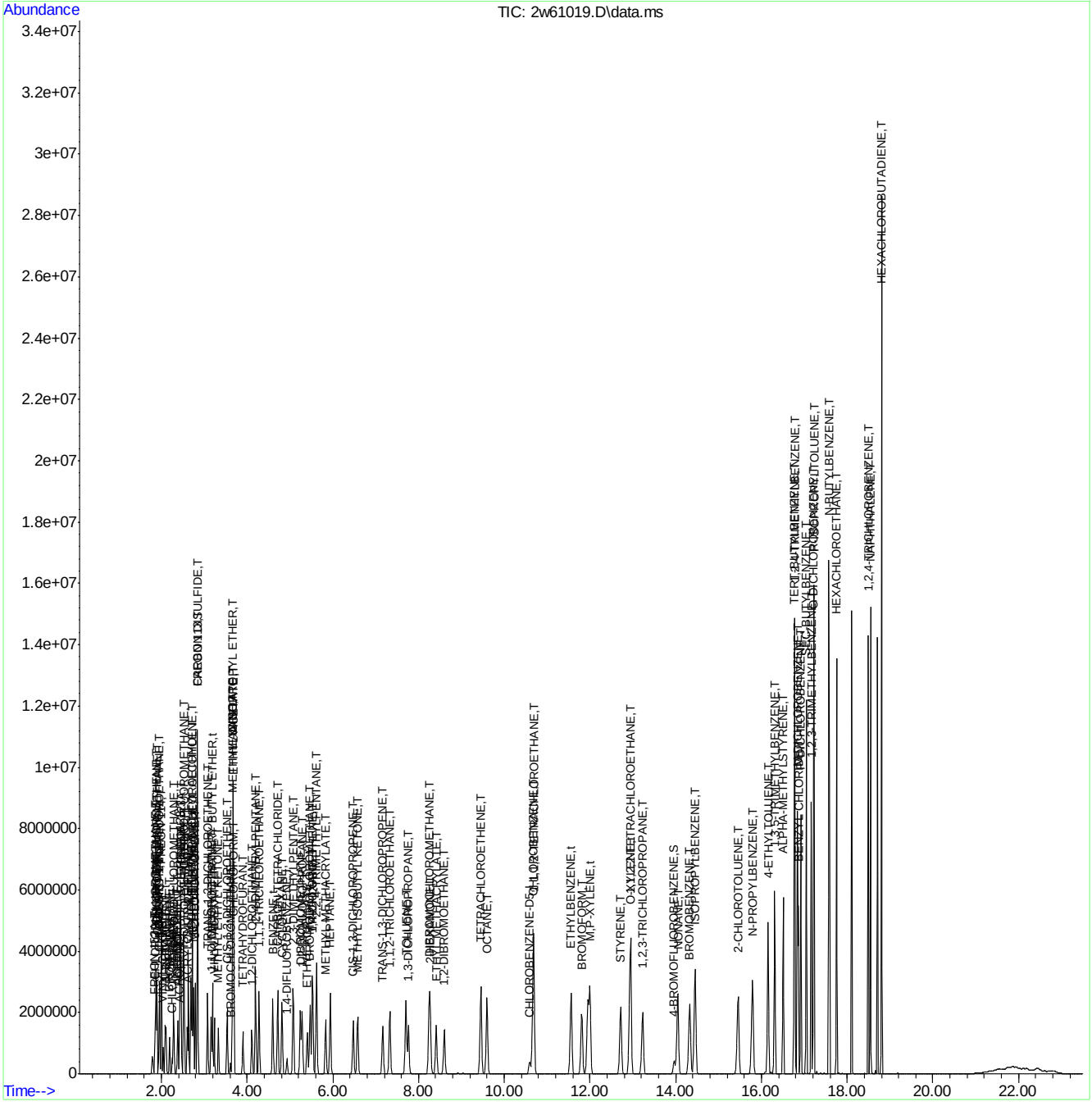
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
97)	BENZYL CHLORIDE	16.862	91	2793726	85.05	PPBV		99
98)	M-DICHLOROBENZENE	16.840	146	2345164	58.53	PPBV		99
99)	P-DICHLOROBENZENE	16.920	146	2374284	58.28	PPBV		99
100)	O-DICHLOROBENZENE	17.216	146	2419712	61.44	PPBV		98
101)	SEC-BUTYLBENZENE	17.049	134	1085639	60.06	PPBV		99
102)	1,2,3-TRIMETHYLBENZENE	17.161	105	3436170	59.83	PPBV		100
103)	P-ISOPROPYLTOLUENE	17.225	134	1280788	64.71	PPBV		97
104)	N-BUTYLBENZENE	17.576	134	1213660	67.01	PPBV		100
105)	HEXACHLOROETHANE	17.753	117	1612332	79.38	PPBV		98
106)	HEXACHLOROBUTADIENE	18.804	225	2411769	80.70	PPBV	#	1
107)	1,2,4-TRICHLOROBENZENE	18.495	180	2439677	77.51	PPBV		99
108)	NAPHTHALENE	18.544	128	6053114	81.30	PPBV		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61019.D
Acq On : 19 Aug 2022 4:25 pm
Operator : thomash
Sample : ic2709-50
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 25 19:37:53 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 22:02:08 2022
Response via : Initial Calibration



Manual Integration Approval Summary

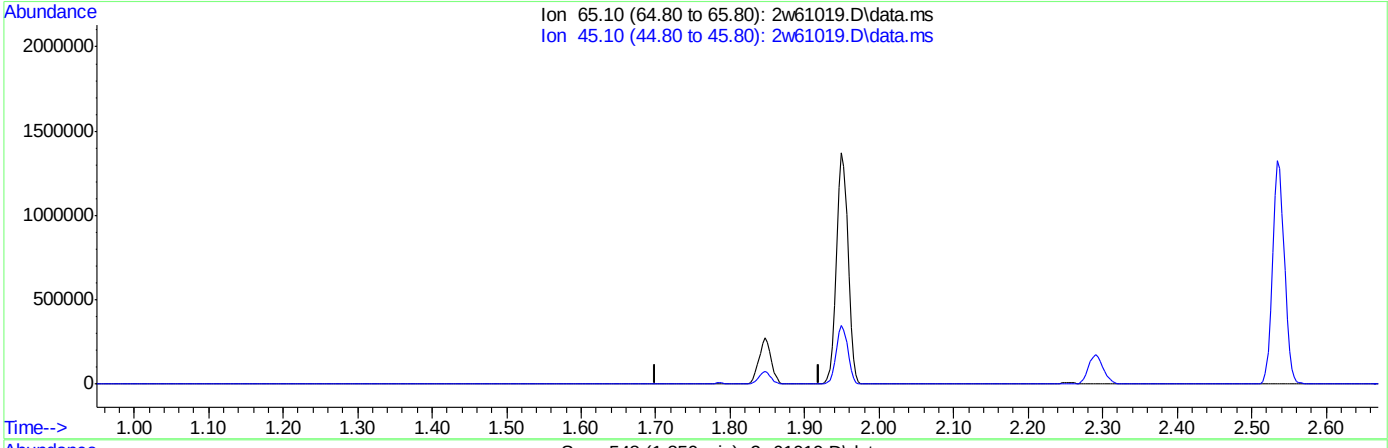
Sample Number:	V2W2709-IC2709	**Method:**	TO-15
Lab FileID:	2W61019.D	**Analyst approved:**	08/23/22 17:35 Benjamin Kim
Injection Time:	08/19/22 16:25	**Supervisor approved:**	08/24/22 15:08 Kanya Veerawat

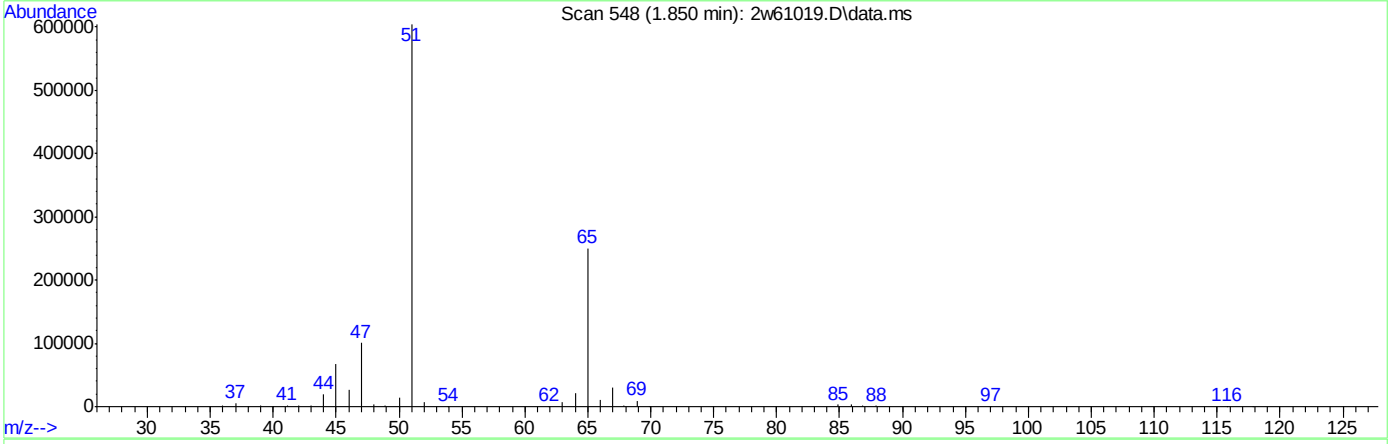
Parameter	CAS	Sig#	R.T. (min.)	Reason
Freon 152A	75-37-6		1.85	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61019.D
Acq On : 19 Aug 2022 4:25 pm
Operator : thomash
Sample : ic2709-50
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 22 22:02:21 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 22:02:08 2022
Response via : Initial Calibration





TIC: 2w61019.D\data.ms

(3) FREON 152A (T)

1.850min (-1.850) 0.00PPBV

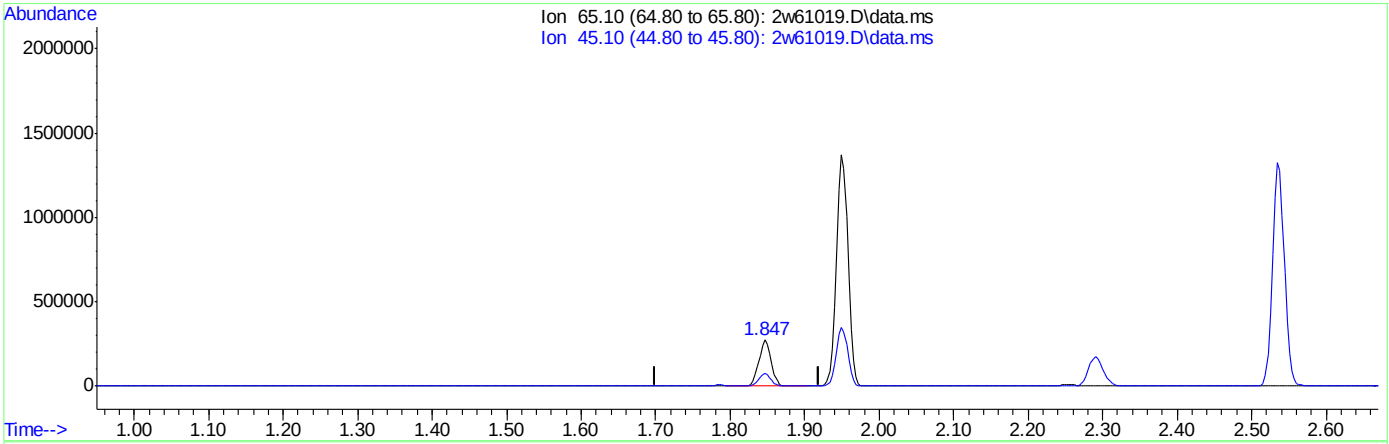
response 0

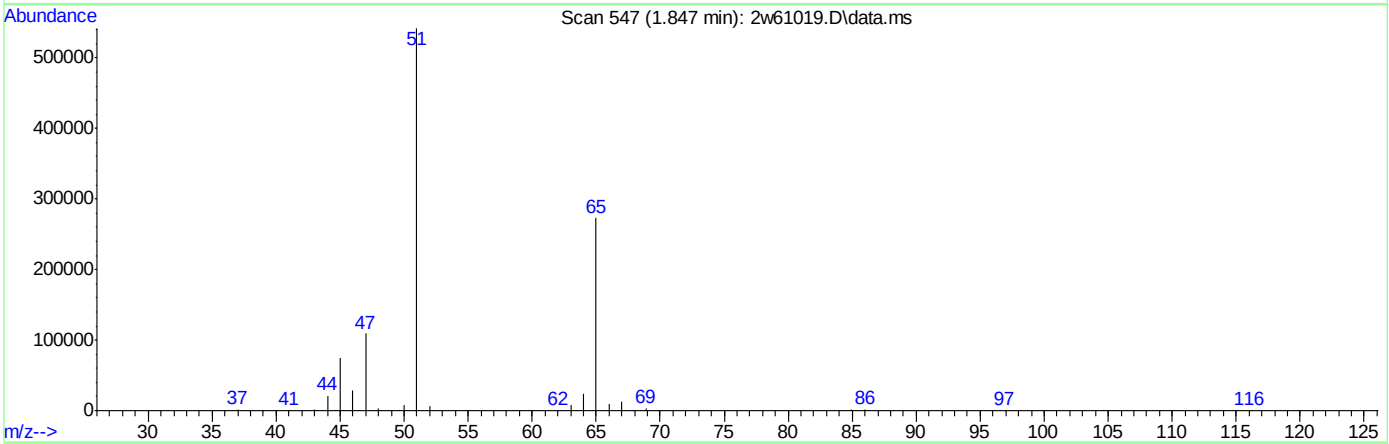
Ion	Exp%	Act%
65.10	100	0.00
45.10	27.20	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61019.D
Acq On : 19 Aug 2022 4:25 pm
Operator : thomash
Sample : ic2709-50
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 22 22:02:21 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Mon Aug 22 22:02:08 2022
Response via : Initial Calibration





TIC: 2w61019.D\data.ms

(3) FREON 152A (T)

1.847min (-0.003) 48.63PPBV m

response 315555

Ion	Exp%	Act%
65.10	100	100
45.10	27.20	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61022.D
Acq On : 19 Aug 2022 6:00 pm
Operator : thomash
Sample : icv2709-10
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 24 16:30:48 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	3.609	128	69572	10.00	PPBV	0.00
52) 1,4-DIFLUOROBENZENE	4.930	114	377343	10.00	PPBV	0.00
76) CHLOROBENZENE-D5	10.586	117	342378	10.00	PPBV	0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	13.959	95	233154	10.23	PPBV	0.00
Target Compounds						Qvalue
3) FREON 152A	1.847	65	55825	9.55	PPBV	# 100
4) CHLORODIFLUOROMETHANE	1.863	67	24948	9.60	PPBV	100
5) CHLOROTRIFLUOROETHENE	1.876	116	145033	9.65	PPBV	# 1
6) DICHLORODIFLUOROMETHANE	1.898	85	329120	9.51	PPBV	100
7) PROPYLENE	1.872	41	60462	9.25	PPBV	99
8) 1-CHLORO-1,1-DIFLUOROE...	1.950	65	248458	9.53	PPBV	99
9) FREON 114	1.995	85	294684	9.45	PPBV	100
10) CHLOROMETHANE	1.956	52	31542	9.05	PPBV	98
11) VINYL CHLORIDE	2.040	62	115708	9.56	PPBV	100
12) 1,3-BUTADIENE	2.088	54	88588	9.47	PPBV	98
13) N-BUTANE	2.110	43	146175	8.98	PPBV	99
14) BROMOMETHANE	2.188	94	102293	9.35	PPBV	99
15) CHLOROETHANE	2.252	64	64281	9.92	PPBV	97
16) DICHLOROFLUOROMETHANE	2.284	67	242601	9.41	PPBV	99
17) ACETONITRILE	2.371	41	86211	8.91	PPBV	100
18) ACROLEIN	2.416	56	56710	13.27	PPBV	99
19) FREON 123	2.432	83	279397	9.76	PPBV	99
20) FREON 123A	2.451	117	173270	10.46	PPBV	98
21) TRICHLOROFLUOROMETHANE	2.519	101	348064	9.66	PPBV	100
22) ISOPROPYL ALCOHOL	2.535	45	251479	8.75	PPBV	99
23) ACETONE	2.461	58	67611	7.37	PPBV	94
24) PENTANE	2.628	42	140273	8.90	PPBV	100
25) IODOMETHANE	2.686	142	342167	9.72	PPBV	100
26) 1,1-DICHLOROETHYLENE	2.712	96	130542	9.44	PPBV	99
27) CARBON DISULFIDE	2.843	76	371034	8.91	PPBV	100
28) ETHANOL	2.290	45	49644	8.77	PPBV	98
29) BROMOETHENE	2.380	106	108066	9.67	PPBV	98
30) ACRYLONITRILE	2.602	52	101333	9.33	PPBV	99
31) METHYLENE CHLORIDE	2.747	84	120067	7.83	PPBV	98
32) 3-CHLOROPROPENE	2.789	76	65373	9.22	PPBV	97
33) FREON 113	2.843	151	218499	9.38	PPBV	99
34) TRANS-1,2-DICHLOROETHENE	3.078	96	110007	9.56	PPBV	99
35) TERTIARY BUTYL ALCOHOL	2.721	59	314697	8.69	PPBV	99
36) METHYL TERTIARY BUTYL ...	3.191	73	289972	9.72	PPBV	100
37) TETRAHYDROFURAN	3.901	72	52189	10.38	PPBV	97
38) HEXANE	3.663	57	198041	9.85	PPBV	99
39) VINYL ACETATE	3.229	86	30669	10.82	PPBV	97
40) 1,1-DICHLOROETHANE	3.155	63	202699	9.84	PPBV	100
41) METHYL ETHYL KETONE	3.329	72	54942	10.72	PPBV	100
42) CIS-1,2-DICHLOROETHENE	3.532	96	119711	9.69	PPBV	99
43) DIISOPROPYL ETHER	3.670	59	58059	9.86	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61022.D
Acq On : 19 Aug 2022 6:00 pm
Operator : thomash
Sample : icv2709-10
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 24 16:30:48 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) ETHYL ACETATE	3.670	61	41362	10.04	PPBV		100
45) METHYL ACRYLATE	3.660	55	239048	10.11	PPBV	#	99
46) CHLOROFORM	3.686	83	239751	9.52	PPBV		99
47) 2,4-DIMETHYLPENTANE	4.194	57	225355	9.62	PPBV		100
48) 1,1,1-TRICHLOROETHANE	4.277	97	248435	9.89	PPBV		100
49) CARBON TETRACHLORIDE	4.712	117	254708	10.24	PPBV		99
50) 1,2-DICHLOROETHANE	4.107	62	169333	9.93	PPBV		100
51) BENZENE	4.596	78	350247	9.74	PPBV		100
53) CYCLOHEXANE	4.811	84	154819	9.72	PPBV		99
54) 2,3-DIMETHYLPENTANE	5.075	71	77693	9.93	PPBV		99
55) TRICHLOROETHENE	5.519	95	163073	10.20	PPBV		98
56) 1,2-DICHLOROPROPANE	5.277	63	137709	9.56	PPBV		100
57) DIBROMOMETHANE	5.239	174	153992	9.36	PPBV		99
58) ETHYL ACRYLATE	5.396	55	290302	10.72	PPBV		100
59) BROMODICHLOROMETHANE	5.461	83	263033	9.96	PPBV		99
60) 2,2,4-TRIMETHYLPENTANE	5.615	57	608009	9.54	PPBV		100
61) 1,4-DIOXANE	5.528	88	84294	10.91	PPBV		99
62) HEPTANE	5.937	43	190987	9.52	PPBV		99
63) METHYL METHACRYLATE	5.827	69	131443	10.69	PPBV		98
64) METHYL ISOBUTYL KETONE	6.570	58	121016	11.79	PPBV		99
65) CIS-1,3-DICHLOROPROPENE	6.474	75	211846	11.10	PPBV		100
66) TOLUENE	7.695	91	444052	9.76	PPBV		99
67) 1,3-DICHLOROPROPANE	7.756	76	212110	9.81	PPBV		99
68) TRANS-1,3-DICHLOROPROPENE	7.158	75	182630	10.67	PPBV		99
69) 1,1,2-TRICHLOROETHANE	7.322	83	128497	9.64	PPBV		100
70) 2-HEXANONE	8.261	58	158976	11.06	PPBV		99
71) ETHYL METHACRYLATE	8.399	69	216624	12.09	PPBV		100
72) TETRACHLOROETHENE	9.448	164	175071	9.61	PPBV		99
73) DIBROMOCHLOROMETHANE	8.239	129	273728	10.55	PPBV		100
74) 1,2-DIBROMOETHANE	8.586	107	249451	10.28	PPBV		99
75) OCTANE	9.589	43	262207	9.72	PPBV		100
77) 1,1,1,2-TETRACHLOROETHANE	10.673	131	191213	10.31	PPBV		100
78) CHLOROBENZENE	10.660	112	366678	9.96	PPBV		99
79) ETHYLBENZENE	11.547	91	589389	10.05	PPBV		100
80) M,P-XYLENE	11.985	91	909127	20.38	PPBV		98
81) O-XYLENE	12.920	91	466547	10.23	PPBV		97
82) STYRENE	12.705	104	364348	11.16	PPBV		100
83) NONANE	14.029	43	277833	9.87	PPBV		100
84) BROMOFORM	11.795	173	266309	11.29	PPBV		100
85) 1,1,2,2-TETRACHLOROETHANE	12.923	83	342379	10.09	PPBV		100
86) 1,2,3-TRICHLOROPROPANE	13.213	75	245959	9.88	PPBV	#	100
88) ISOPROPYLBENZENE	14.438	120	178061	9.21	PPBV		100
89) BROMOBENZENE	14.309	77	312541	9.90	PPBV		100
90) 2-CHLOROTOLUENE	15.444	126	165816	10.21	PPBV		99
91) N-PROPYLBENZENE	15.779	120	185062	10.42	PPBV		100
92) 4-ETHYLTOLUENE	16.145	105	691936	10.57	PPBV		100
93) 1,3,5-TRIMETHYLBENZENE	16.303	105	573950	10.51	PPBV		100
94) ALPHA-METHYLSTYRENE	16.502	118	294628	12.82	PPBV		100
95) TERT-BUTYLBENZENE	16.759	134	142637	10.21	PPBV		97
96) 1,2,4-TRIMETHYLBENZENE	16.769	105	607360	10.40	PPBV		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61022.D
Acq On : 19 Aug 2022 6:00 pm
Operator : thomash
Sample : icv2709-10
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 24 16:30:48 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

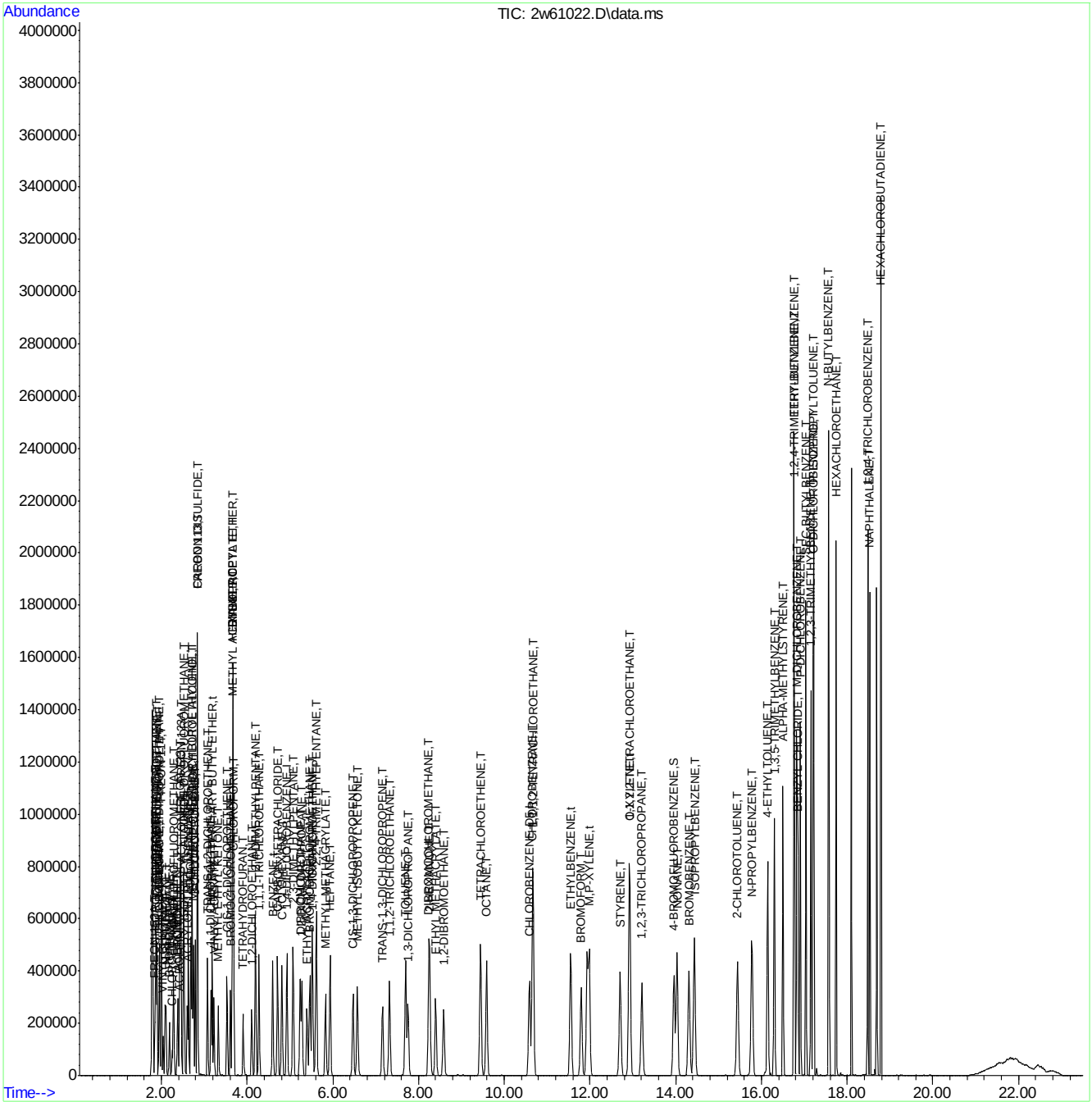
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	BENZYL CHLORIDE	16.849	91	413519	11.44	PPBV	100
98)	M-DICHLOROBENZENE	16.827	146	398111	10.38	PPBV	99
99)	P-DICHLOROBENZENE	16.910	146	402996	10.36	PPBV	100
100)	O-DICHLOROBENZENE	17.206	146	385593	10.21	PPBV	99
101)	SEC-BUTYLBENZENE	17.039	134	175573	10.11	PPBV	99
102)	1,2,3-TRIMETHYLBENZENE	17.152	105	575197	10.42	PPBV	100
103)	P-ISOPROPYLTOLUENE	17.219	134	193396	10.11	PPBV	99
104)	N-BUTYLBENZENE	17.566	134	187841	10.62	PPBV	98
105)	HEXACHLOROETHANE	17.743	117	233412	10.77	PPBV	99
106)	HEXACHLOROBUTADIENE	18.788	225	280031	9.45	PPBV	100
107)	1,2,4-TRICHLOROBENZENE	18.479	180	336715	10.77	PPBV	99
108)	NAPHTHALENE	18.528	128	779125	9.75	PPBV	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 2w61022.D
Acq On : 19 Aug 2022 6:00 pm
Operator : thomash
Sample : icv2709-10
Misc : MS61038,V2w2709,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 24 16:30:48 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 09/27/22 15:04

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 2w61611.D
Acq On : 27 Sep 2022 7:58 am
Operator : thomash
Sample : cc2709-10
Misc : MS62367,V2w2734,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 27 10:18:10 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.615	128	79324	10.00	PPBV		0.00
52) 1,4-DIFLUOROBENZENE	4.930	114	441027	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	10.589	117	400342	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	13.958	95	265537	9.96	PPBV		0.00
Target Compounds							Qvalue
3) FREON 152A	1.843	65	66446	9.96	PPBV	#	100
4) CHLORODIFLUOROMETHANE	1.862	67	29069	9.81	PPBV		99
5) CHLOROTRIFLUOROETHENE	1.875	116	154061	8.99	PPBV	#	1
6) DICHLORODIFLUOROMETHANE	1.898	85	380202	9.63	PPBV		99
7) PROPYLENE	1.872	41	60984	8.19	PPBV		99
8) 1-CHLORO-1,1-DIFLUOROE...	1.946	65	305324	10.28	PPBV		97
9) FREON 114	1.991	85	356678	10.03	PPBV		94
10) CHLOROMETHANE	1.952	52	35211	8.86	PPBV		100
11) VINYL CHLORIDE	2.036	62	151324	10.96	PPBV		99
12) 1,3-BUTADIENE	2.087	54	103116	9.67	PPBV		95
13) N-BUTANE	2.107	43	159850	8.61	PPBV		97
14) BROMOMETHANE	2.187	94	118369	9.49	PPBV		99
15) CHLOROETHANE	2.251	64	80896	10.95	PPBV		96
16) DICHLOROFLUOROMETHANE	2.284	67	305556	10.40	PPBV		99
17) ACETONITRILE	2.374	41	96171	8.71	PPBV		100
18) ACROLEIN	2.419	56	69916	14.35	PPBV		97
19) FREON 123	2.435	83	340249	10.42	PPBV		98
20) FREON 123A	2.454	117	183398	9.71	PPBV		87
21) TRICHLOROFLUOROMETHANE	2.521	101	430226	10.48	PPBV		99
22) ISOPROPYL ALCOHOL	2.534	45	297979	9.09	PPBV		97
23) ACETONE	2.460	58	84143	8.05	PPBV		93
24) PENTANE	2.631	42	176903	9.85	PPBV		98
25) IODOMETHANE	2.689	142	402706	10.03	PPBV		99
26) 1,1-DICHLOROETHYLENE	2.714	96	171958	10.91	PPBV		86
27) CARBON DISULFIDE	2.846	76	562183	11.84	PPBV		98
28) ETHANOL	2.287	45	47347	7.34	PPBV		99
29) BROMOETHENE	2.380	106	126568	9.94	PPBV		97
30) ACRYLONITRILE	2.605	52	133327	10.77	PPBV		99
31) METHYLENE CHLORIDE	2.750	84	165437	9.46	PPBV		96
32) 3-CHLOROPROPENE	2.792	76	87970	10.88	PPBV		87
33) FREON 113	2.846	151	269121	10.13	PPBV		90
34) TRANS-1,2-DICHLOROETHENE	3.081	96	129282	9.85	PPBV		91
35) TERTIARY BUTYL ALCOHOL	2.724	59	407322	9.86	PPBV	#	91
36) METHYL TERTIARY BUTYL ...	3.190	73	305759	8.99	PPBV		98
37) TETRAHYDROFURAN	3.907	72	60748	10.59	PPBV		89
38) HEXANE	3.666	57	231457	10.10	PPBV		94
39) VINYL ACETATE	3.232	86	33608	10.40	PPBV		77
40) 1,1-DICHLOROETHANE	3.158	63	258366	11.00	PPBV		99
41) METHYL ETHYL KETONE	3.329	72	62976	10.78	PPBV		80
42) CIS-1,2-DICHLOROETHENE	3.534	96	135289	9.60	PPBV		92
43) DIISOPROPYL ETHER	3.669	59	69876	10.41	PPBV		71

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 2w61611.D
Acq On : 27 Sep 2022 7:58 am
Operator : thomash
Sample : cc2709-10
Misc : MS62367,V2w2734,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 27 10:18:10 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) ETHYL ACETATE	3.673	61	51615	10.99	PPBV		63
45) METHYL ACRYLATE	3.660	55	275059	10.20	PPBV	#	99
46) CHLOROFORM	3.689	83	282131	9.83	PPBV		100
47) 2,4-DIMETHYLPENTANE	4.197	57	267368	10.01	PPBV		98
48) 1,1,1-TRICHLOROETHANE	4.280	97	268489	9.38	PPBV		95
49) CARBON TETRACHLORIDE	4.711	117	272721	9.61	PPBV		95
50) 1,2-DICHLOROETHANE	4.110	62	206921	10.64	PPBV		99
51) BENZENE	4.595	78	411581	10.04	PPBV		97
53) CYCLOHEXANE	4.814	84	173332	9.31	PPBV		99
54) 2,3-DIMETHYLPENTANE	5.074	71	87040	9.52	PPBV		96
55) TRICHLOROETHENE	5.518	95	180003	9.63	PPBV		96
56) 1,2-DICHLOROPROPANE	5.280	63	172324	10.24	PPBV		96
57) DIBROMOMETHANE	5.242	174	162228	8.43	PPBV		94
58) ETHYL ACRYLATE	5.399	55	320975	10.15	PPBV		99
59) BROMODICHLOROMETHANE	5.463	83	305115	9.88	PPBV		100
60) 2,2,4-TRIMETHYLPENTANE	5.615	57	713771	9.58	PPBV		99
61) 1,4-DIOXANE	5.528	88	94334	10.44	PPBV		97
62) HEPTANE	5.936	43	195753	8.35	PPBV		90
63) METHYL METHACRYLATE	5.830	69	146780	10.21	PPBV		94
64) METHYL ISOBUTYL KETONE	6.573	58	137591	11.47	PPBV		88
65) CIS-1,3-DICHLOROPROPENE	6.476	75	214139	9.60	PPBV		96
66) TOLUENE	7.698	91	503666	9.47	PPBV		99
67) 1,3-DICHLOROPROPANE	7.756	76	249329	9.87	PPBV		99
68) TRANS-1,3-DICHLOROPROPENE	7.161	75	182852	9.14	PPBV		98
69) 1,1,2-TRICHLOROETHANE	7.322	83	148725	9.55	PPBV		98
70) 2-HEXANONE	8.261	58	179882	10.72	PPBV		88
71) ETHYL METHACRYLATE	8.402	69	240128	11.46	PPBV		95
72) TETRACHLOROETHENE	9.444	164	185506	8.71	PPBV		99
73) DIBROMOCHLOROMETHANE	8.242	129	289043	9.53	PPBV		100
74) 1,2-DIBROMOETHANE	8.589	107	265145	9.35	PPBV		100
75) OCTANE	9.585	43	268417	8.52	PPBV		92
77) 1,1,1,2-TETRACHLOROETHANE	10.676	131	198032	9.13	PPBV		96
78) CHLOROBENZENE	10.666	112	388815	9.04	PPBV		97
79) ETHYLBENZENE	11.553	91	667998	9.74	PPBV		98
80) M,P-XYLENE	11.978	91	1030432m	19.75	PPBV		
81) O-XYLENE	12.920	91	527457	9.89	PPBV		95
82) STYRENE	12.701	104	395465	10.36	PPBV		99
83) NONANE	14.029	43	285374	8.67	PPBV		89
84) BROMOFORM	11.794	173	282681	10.25	PPBV		100
85) 1,1,2,2-TETRACHLOROETHANE	12.929	83	394731	9.95	PPBV		100
86) 1,2,3-TRICHLOROPROPANE	13.212	75	287825	9.89	PPBV	#	100
88) ISOPROPYLBENZENE	14.431	120	187199	8.28	PPBV		92
89) BROMOBENZENE	14.309	77	359091	9.73	PPBV		93
90) 2-CHLOROTOLUENE	15.444	126	169638	8.93	PPBV		99
91) N-PROPYLBENZENE	15.781	120	191801	9.23	PPBV		97
92) 4-ETHYLTOLUENE	16.148	105	761742	9.95	PPBV		96
93) 1,3,5-TRIMETHYLBENZENE	16.302	105	630054	9.87	PPBV		96
94) ALPHA-METHYLSTYRENE	16.502	118	320374	11.93	PPBV		99
95) TERT-BUTYLBENZENE	16.759	134	149287	9.14	PPBV		99
96) 1,2,4-TRIMETHYLBENZENE	16.769	105	679650	9.96	PPBV		91

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 2w61611.D
Acq On : 27 Sep 2022 7:58 am
Operator : thomash
Sample : cc2709-10
Misc : MS62367,V2w2734,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 27 10:18:10 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration

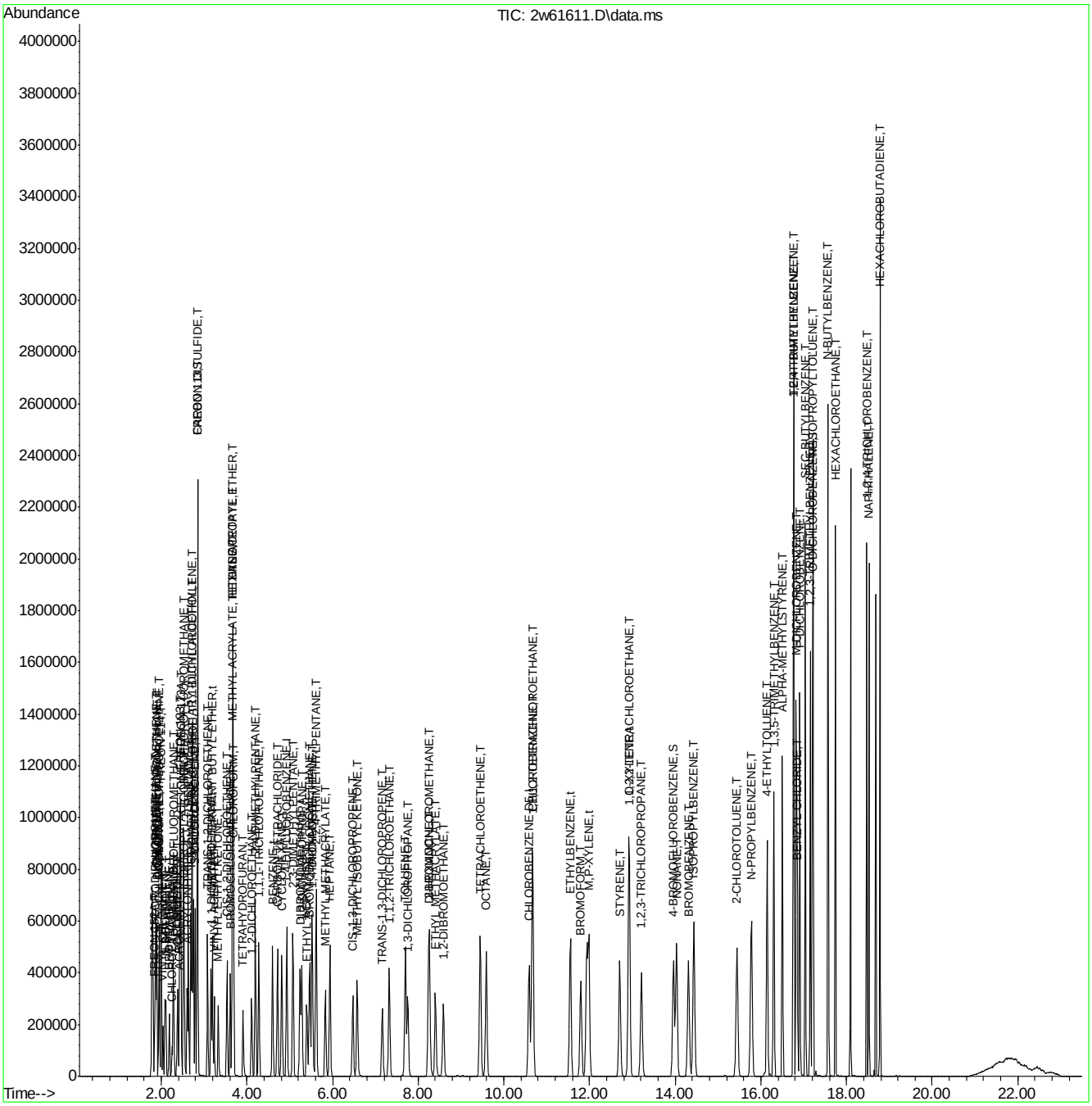
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97) BENZYL CHLORIDE	16.852	91	318652	7.54	PPBV	96
98) M-DICHLOROBENZENE	16.826	146	416151	9.28	PPBV	99
99) P-DICHLOROBENZENE	16.910	146	416795	9.17	PPBV	100
100) O-DICHLOROBENZENE	17.203	146	406115	9.19	PPBV	99
101) SEC-BUTYLBENZENE	17.039	134	183422	9.03	PPBV	84
102) 1,2,3-TRIMETHYLBENZENE	17.151	105	637875	9.88	PPBV	96
103) P-ISOPROPYLTOLUENE	17.219	134	199761	8.93	PPBV	100
104) N-BUTYLBENZENE	17.563	134	184148	8.90	PPBV	83
105) HEXACHLOROETHANE	17.743	117	244676	9.66	PPBV	96
106) HEXACHLOROBUTADIENE	18.781	225	296545	8.56	PPBV	100
107) 1,2,4-TRICHLOROBENZENE	18.473	180	324952	8.89	PPBV	98
108) NAPHTHALENE	18.521	128	799362	8.55	PPBV	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 2w61611.D
Acq On : 27 Sep 2022 7:58 am
Operator : thomash
Sample : cc2709-10
Misc : MS62367,V2w2734,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 27 10:18:10 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration



Manual Integration Approval Summary

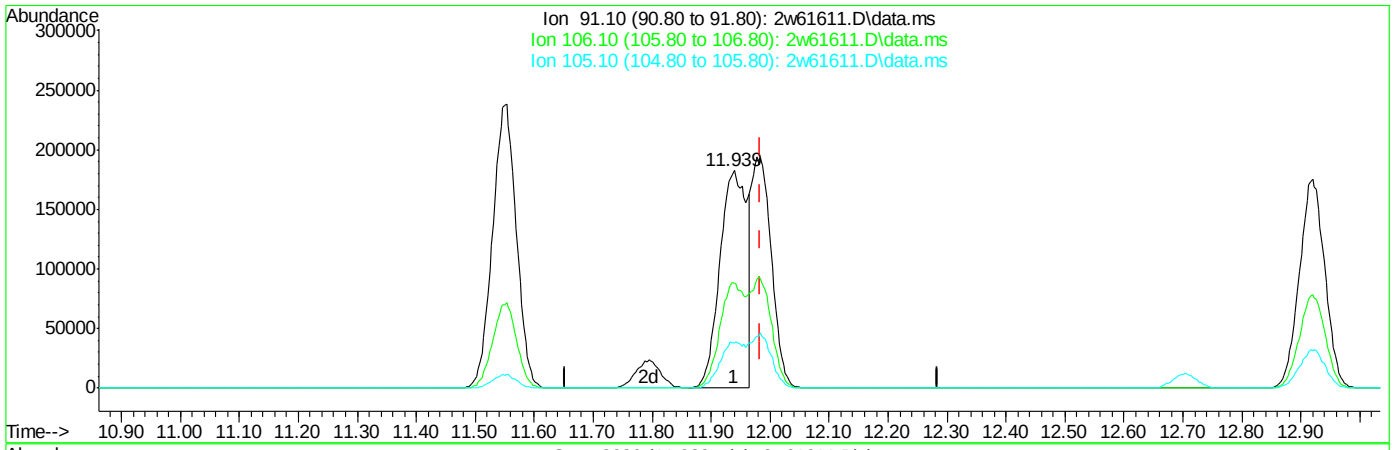
Sample Number:	V2W2734-CC2709	**Method:**	TO-15
Lab FileID:	2W61611.D	**Analyst approved:**	09/27/22 10:38 Thomas Hilbig
Injection Time:	09/27/22 07:58	**Supervisor approved:**	09/27/22 15:04 Kanya Veerawat

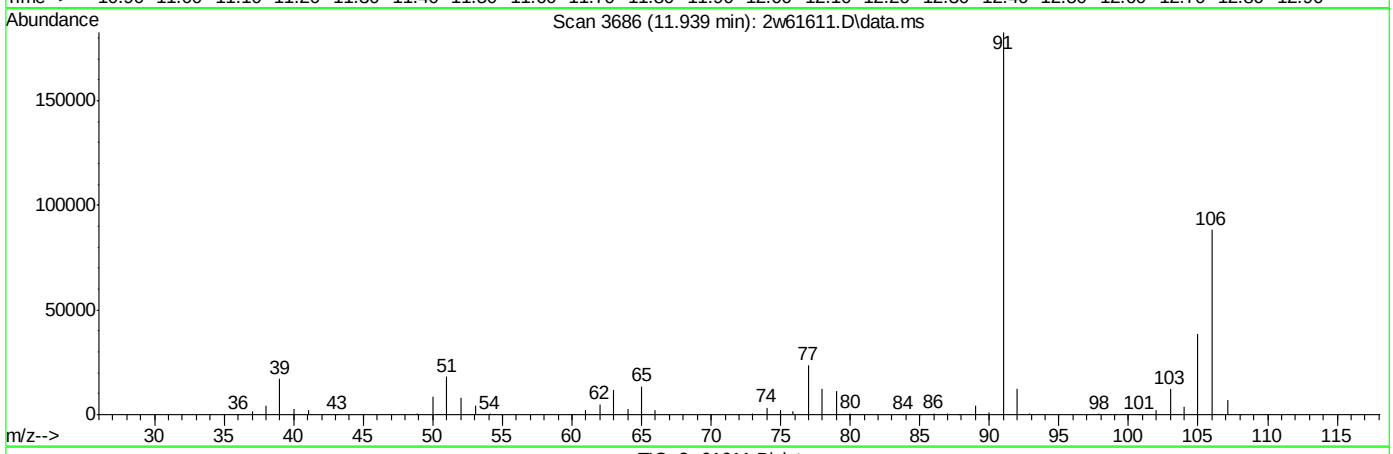
Parameter	CAS	Sig#	R.T. (min.)	Reason
m,p-Xylene			11.98	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 2w61611.D
Acq On : 27 Sep 2022 7:58 am
Operator : thomash
Sample : cc2709-10
Misc : MS62367,V2w2734,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 27 08:35:46 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration





TIC: 2w61611.D\data.ms

(80) M,P-XYLENE (t)

11.939min (-0.045) 11.16PPBV

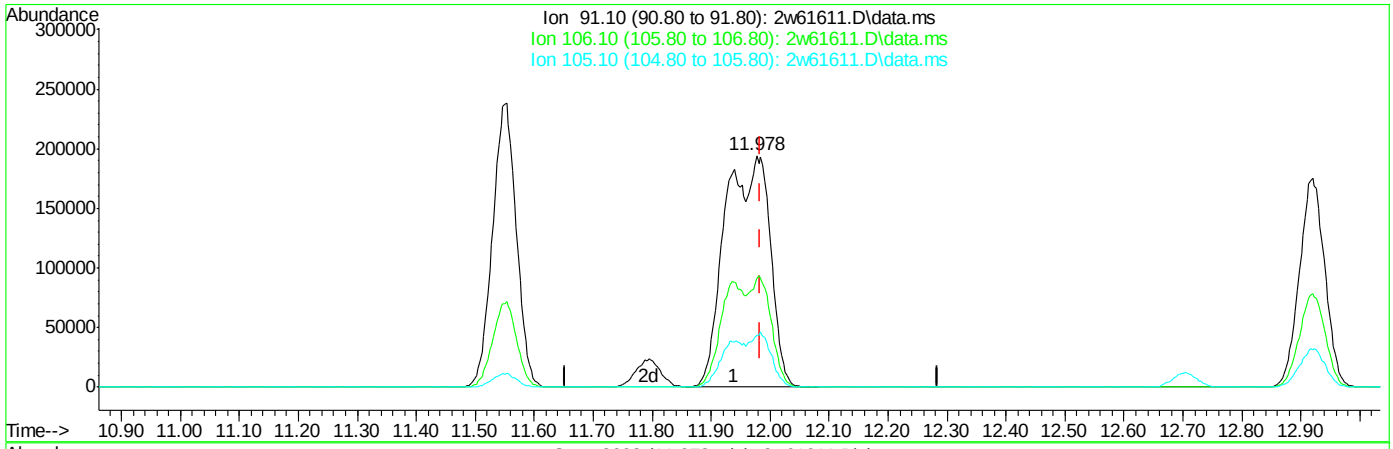
response 582260

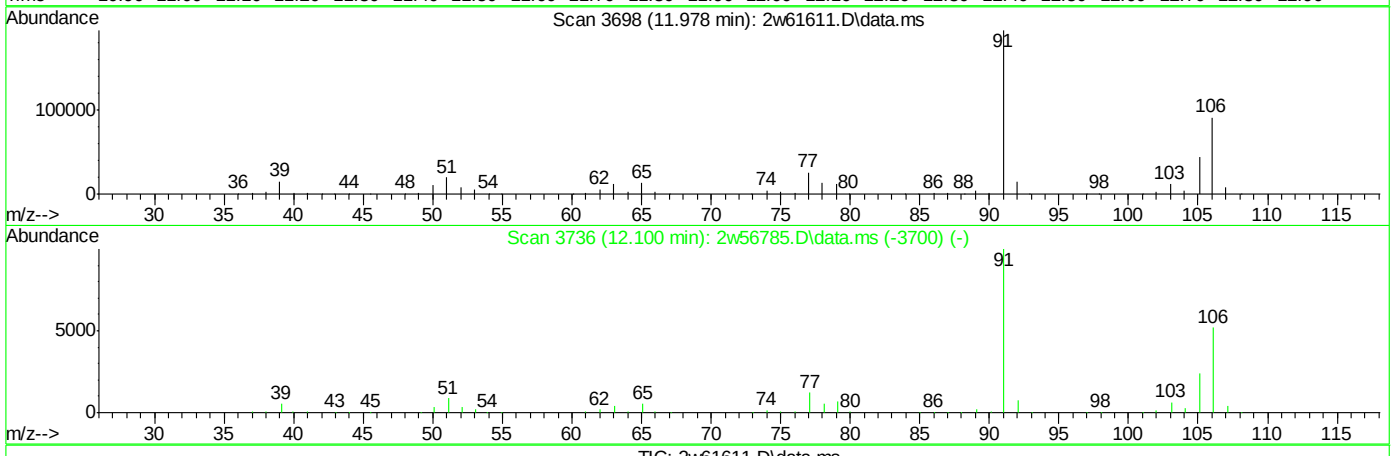
Ion	Exp%	Act%
91.10	100	100
106.10	23.00	43.20#
105.10	10.90	19.17
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 2w61611.D
Acq On : 27 Sep 2022 7:58 am
Operator : thomash
Sample : cc2709-10
Misc : MS62367,V2w2734,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 27 08:35:46 2022
Quant Method : C:\msdchem\1\METHODS\M2W2709.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Aug 24 16:15:16 2022
Response via : Initial Calibration





TIC: 2w61611.D\data.ms

(80) M,P-XYLENE (t)

11.978min (-0.007) 19.75PPBV m

response 1030432

Ion	Exp%	Act%
91.10	100	100
106.10	23.00	24.41
105.10	10.90	10.83
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/08/22 10:23

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W25316.D
Acq On : 4 Aug 2022 5:54 pm
Operator : thomash
Sample : ic1077-0.04
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 09:04:39 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	3.412	128	46617	10.00	PPBV	# 0.00
52) 1,4-DIFLUOROBENZENE	4.792	114	250125	10.00	PPBV	0.00
76) CHLOROBENZENE-D5	10.605	117	220535	10.00	PPBV	0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	14.029	95	153966	9.95	PPBV	0.00
Target Compounds						Qvalue
8) 1-CHLORO-1,1-DIFLUOROE...	1.798	65	1247	0.06	PPBV	# 1
9) FREON 114	1.830	85	1295	0.06	PPBV	# 74
11) VINYL CHLORIDE	1.859	62	609	0.07	PPBV	# 50
13) N-BUTANE	1.914	43	1091	0.09	PPBV	# 1
14) BROMOMETHANE	1.972	94	482m	0.06	PPBV	
15) CHLOROETHANE	2.020	64	373m	0.08	PPBV	
16) DICHLOROFLUOROMETHANE	2.046	67	1104	0.06	PPBV	# 49
19) FREON 123	2.161	83	1174	0.06	PPBV	# 89
20) FREON 123A	2.184	117	526m	0.05	PPBV	
21) TRICHLOROFLUOROMETHANE	2.245	101	1257	0.06	PPBV	# 92
24) PENTANE	2.354	42	531	0.06	PPBV	# 53
25) IODOMETHANE	2.419	142	1140	0.05	PPBV	# 38
26) 1,1-DICHLOROETHYLENE	2.448	96	525	0.06	PPBV	# 66
27) CARBON DISULFIDE	2.592	76	1479	0.06	PPBV	# 48
29) BROMOETHENE	2.116	106	448m	0.06	PPBV	
32) 3-CHLOROPROPENE	2.538	76	275m	0.07	PPBV	
33) FREON 113	2.592	151	757	0.05	PPBV	# 85
34) TRANS-1,2-DICHLOROETHENE	2.843	96	625	0.07	PPBV	# 70
35) TERTIARY BUTYL ALCOHOL	2.473	59	1404	0.07	PPBV	# 45
36) METHYL TERTIARY BUTYL ...	2.972	73	1639	0.06	PPBV	# 88
38) HEXANE	3.467	57	728	0.06	PPBV	# 49
40) 1,1-DICHLOROETHANE	2.933	63	1031	0.06	PPBV	# 50
45) METHYL ACRYLATE	3.473	55	831	0.06	PPBV	# 65
46) CHLOROFORM	3.496	83	870	0.06	PPBV	# 82
47) 2,4-DIMETHYLPENTANE	4.023	57	803	0.06	PPBV	# 31
48) 1,1,1-TRICHLOROETHANE	4.110	97	811	0.05	PPBV	# 70
49) CARBON TETRACHLORIDE	4.557	117	760	0.05	PPBV	# 85
50) 1,2-DICHLOROETHANE	3.940	62	680	0.07	PPBV	# 49
51) BENZENE	4.444	78	1344	0.06	PPBV	# 66
53) CYCLOHEXANE	4.660	84	538	0.06	PPBV	# 69
55) TRICHLOROETHENE	5.402	95	484m	0.05	PPBV	
57) DIBROMOMETHANE	5.116	174	507	0.06	PPBV	# 52
58) ETHYL ACRYLATE	5.300	55	912	0.05	PPBV	# 73
59) BROMODICHLOROMETHANE	5.351	83	795	0.05	PPBV	99
60) 2,2,4-TRIMETHYLPENTANE	5.499	57	2092	0.06	PPBV	# 91
62) HEPTANE	5.830	43	826	0.06	PPBV	# 15
65) CIS-1,3-DICHLOROPROPENE	6.393	75	629	0.05	PPBV	# 21
66) TOLUENE	7.656	91	1495	0.05	PPBV	97
67) 1,3-DICHLOROPROPANE	7.705	76	752	0.05	PPBV	# 49
68) TRANS-1,3-DICHLOROPROPENE	7.100	75	608	0.05	PPBV	# 42
69) 1,1,2-TRICHLOROETHANE	7.271	83	407m	0.05	PPBV	
71) ETHYL METHACRYLATE	8.390	69	580	0.04	PPBV	# 40
72) TETRACHLOROETHENE	9.457	164	491m	0.05	PPBV	
73) DIBROMOCHLOROMETHANE	8.216	129	693	0.04	PPBV	# 82
74) 1,2-DIBROMOETHANE	8.563	107	722	0.05	PPBV	# 99
75) OCTANE	9.579	43	1093	0.06	PPBV	# 23
77) 1,1,1,2-TETRACHLOROETHANE	10.701	131	518	0.04	PPBV	# 39
78) CHLOROBENZENE	10.685	112	1050	0.05	PPBV	# 69
79) ETHYLBENZENE	11.586	91	2033	0.06	PPBV	95
80) M,P-XYLENE	11.987	91	2839m	0.10	PPBV	
81) O-XYLENE	12.975	91	1558	0.05	PPBV	# 81
82) STYRENE	12.762	104	911m	0.04	PPBV	
84) BROMOFORM	11.836	173	647	0.04	PPBV	# 36
85) 1,1,2,2-TETRACHLOROETHANE	12.984	83	1106	0.05	PPBV	# 25

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W25316.D
Acq On : 4 Aug 2022 5:54 pm
Operator : thomash
Sample : ic1077-0.04
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 09:04:39 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration

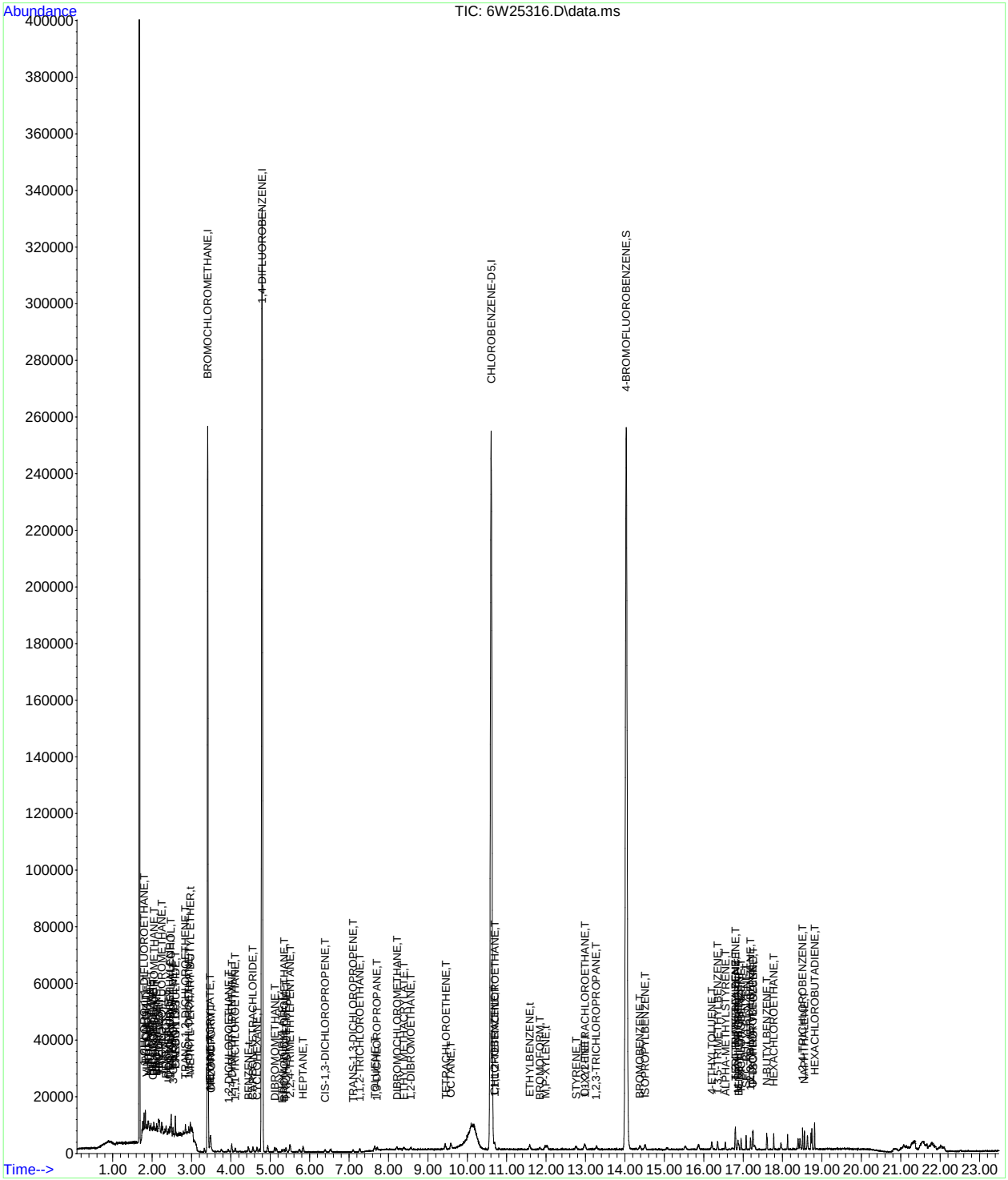
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
86)	1,2,3-TRICHLOROPROPANE	13.267	75	828	0.05	PPBV	#	99
88)	ISOPROPYLBENZENE	14.508	120	556	0.05	PPBV	#	26
89)	BROMOBENZENE	14.376	77	1113	0.05	PPBV	#	52
92)	4-ETHYLTOLUENE	16.203	105	1909	0.05	PPBV	#	98
93)	1,3,5-TRIMETHYLBENZENE	16.351	105	1653	0.05	PPBV	#	95
94)	ALPHA-METHYLSTYRENE	16.553	118	645	0.04	PPBV	#	68
95)	TERT-BUTYLBENZENE	16.801	134	488m	0.06	PPBV		
96)	1,2,4-TRIMETHYLBENZENE	16.804	105	1667	0.05	PPBV	#	83
97)	BENZYL CHLORIDE	16.884	91	1223	0.04	PPBV	#	60
98)	M-DICHLOROBENZENE	16.872	146	1236	0.05	PPBV	#	76
99)	P-DICHLOROBENZENE	16.949	146	1322	0.05	PPBV	#	73
100)	O-DICHLOROBENZENE	17.238	146	1158	0.05	PPBV	#	74
101)	SEC-BUTYLBENZENE	17.074	134	537	0.05	PPBV		91
102)	1,2,3-TRIMETHYLBENZENE	17.187	105	1746	0.05	PPBV	#	91
103)	P-ISOPROPYLTOLUENE	17.254	134	542	0.04	PPBV		95
104)	N-BUTYLBENZENE	17.598	134	542	0.05	PPBV		98
105)	HEXACHLOROETHANE	17.775	117	627	0.04	PPBV	#	53
106)	HEXACHLOROBUTADIENE	18.814	225	858	0.05	PPBV		93
107)	1,2,4-TRICHLOROBENZENE	18.508	180	1127	0.05	PPBV	#	78
108)	NAPHTHALENE	18.556	128	2675	0.04	PPBV	#	69

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W25316.D
Acq On : 4 Aug 2022 5:54 pm
Operator : thomash
Sample : ic1077-0.04
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 09:04:39 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration



Manual Integration Approval Summary

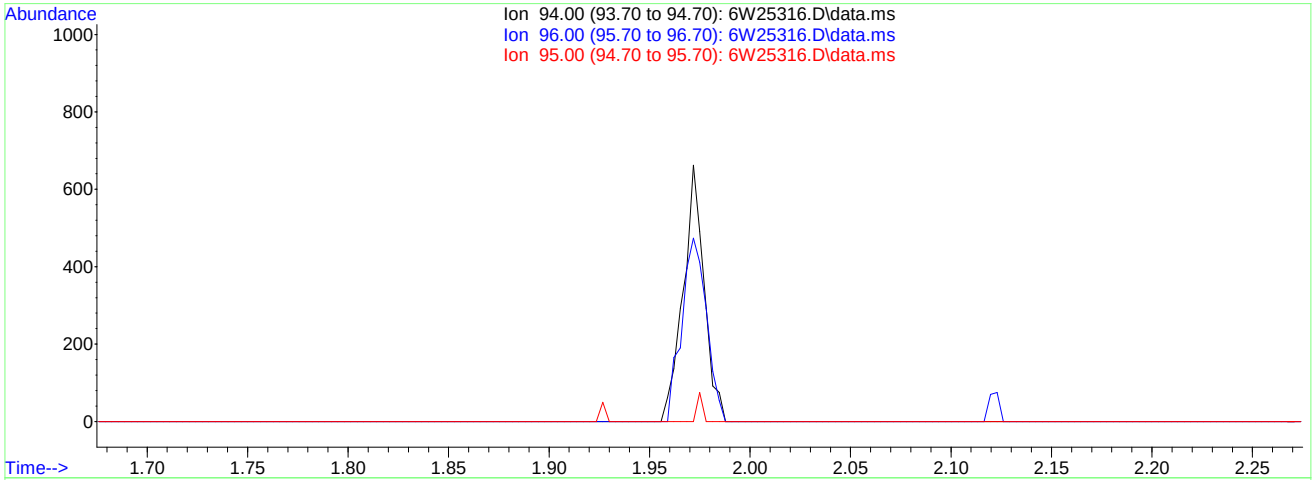
Sample Number: V6W1077-IC1077 **Method:** TO-15
Lab FileID: 6W25316.D **Analyst approved:** 08/05/22 10:02 Thomas Hilbig
Injection Time: 08/04/22 17:54 **Supervisor approved:** 08/08/22 10:23 Kanya Veerawat

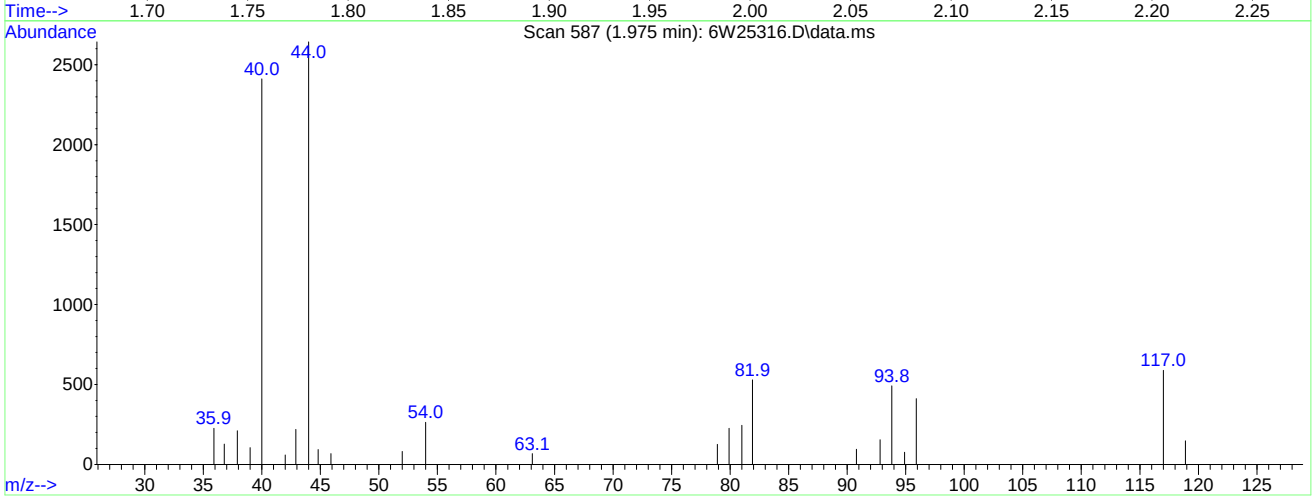
Parameter	CAS	Sig#	R.T. (min.)	Reason
Bromomethane	74-83-9		1.97	Missed peak
Chloroethane	75-00-3		2.02	Missed peak
Bromoethene	593-60-2		2.12	Missed peak
Freon 123A	354-23-4		2.18	Poorly defined baseline
3-Chloropropene	107-05-1		2.54	Missed peak
Trichloroethylene	79-01-6		5.40	Missed peak
1,1,2-Trichloroethane	79-00-5		7.27	Missed peak
Tetrachloroethylene	127-18-4		9.46	Missed peak
m,p-Xylene			11.99	Split peak
Styrene	100-42-5		12.76	Poor instrument integration
tert-Butylbenzene	98-06-6		16.80	Missed peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25316.D
Acq On : 4 Aug 2022 5:54 pm
Operator : thomash
Sample : ic1077-0.04
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 08:19:42 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration





TIC: 6W25316.D\data.ms

(14) BROMOMETHANE (T)

1.975min (-1.975) 0.00PPBV

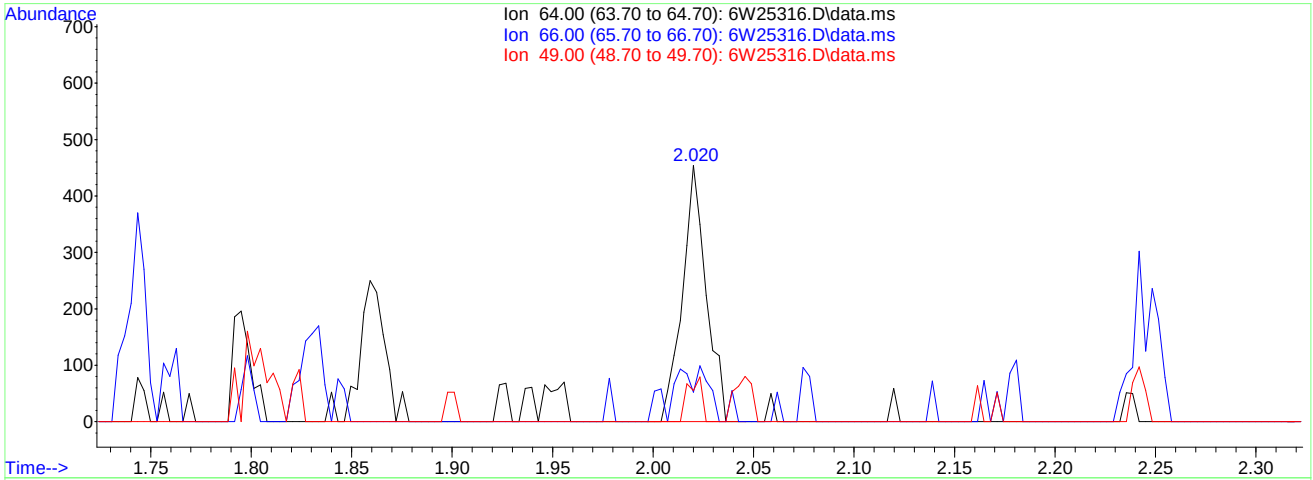
response 0

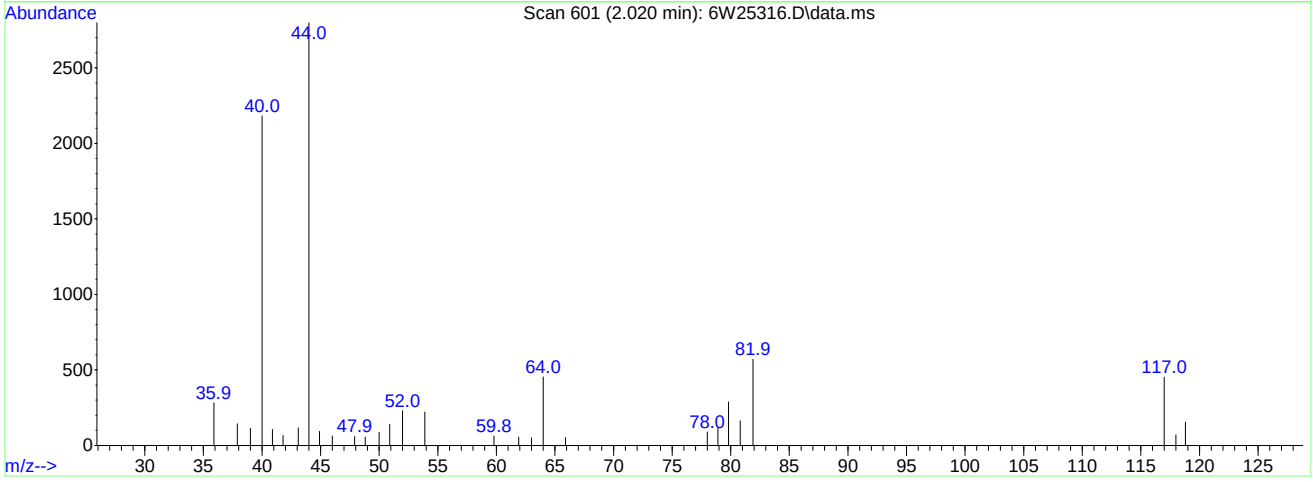
Ion	Exp%	Act%
94.00	100	0.00
96.00	94.20	0.00#
95.00	13.70	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25316.D
Acq On : 4 Aug 2022 5:54 pm
Operator : thomash
Sample : ic1077-0.04
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 08:19:42 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration





TIC: 6W25316.D\data.ms

(15) CHLOROETHANE (T)

2.020min (-0.003) 0.08PPBV m

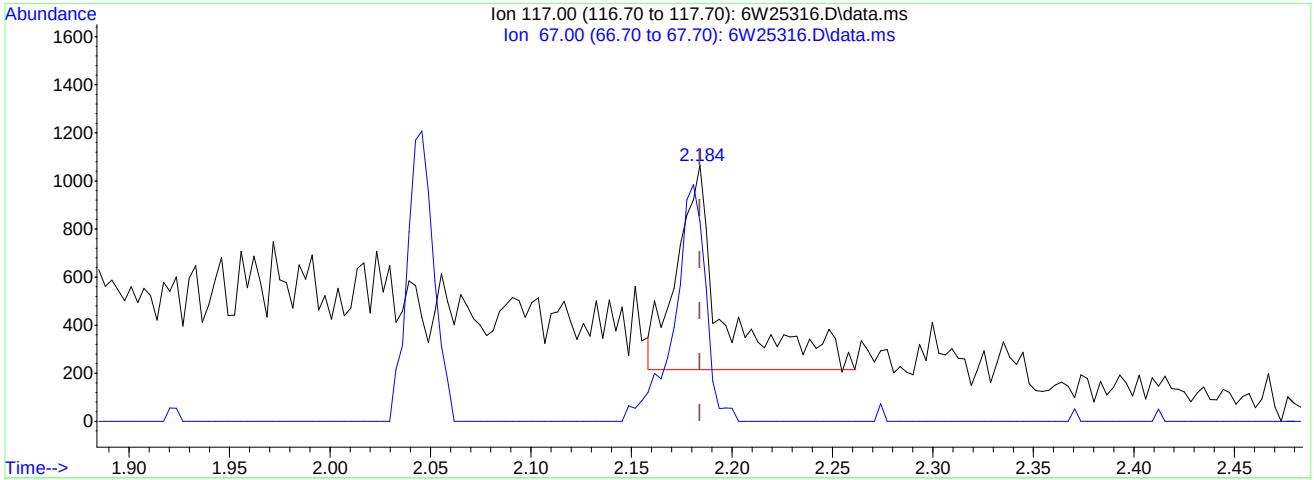
response 373

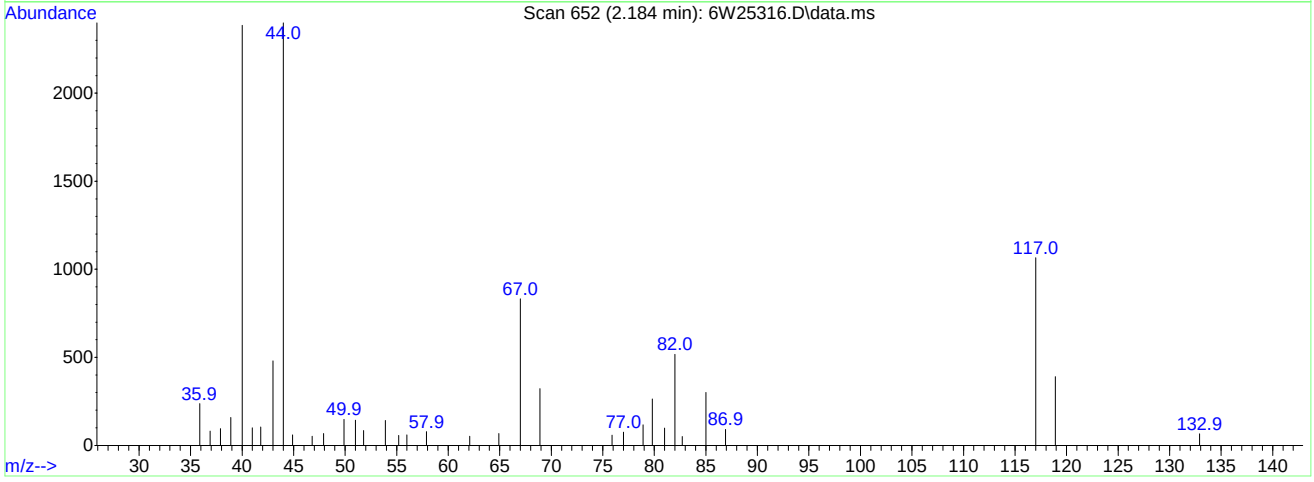
Ion	Exp%	Act%
64.00	100	100
66.00	33.90	0.00#
49.00	29.10	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25316.D
Acq On : 4 Aug 2022 5:54 pm
Operator : thomash
Sample : ic1077-0.04
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 08:19:42 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration





TIC: 6W25316.D\data.ms

(20) FREON 123A (T)

2.184min (+0.000) 0.13PPBV

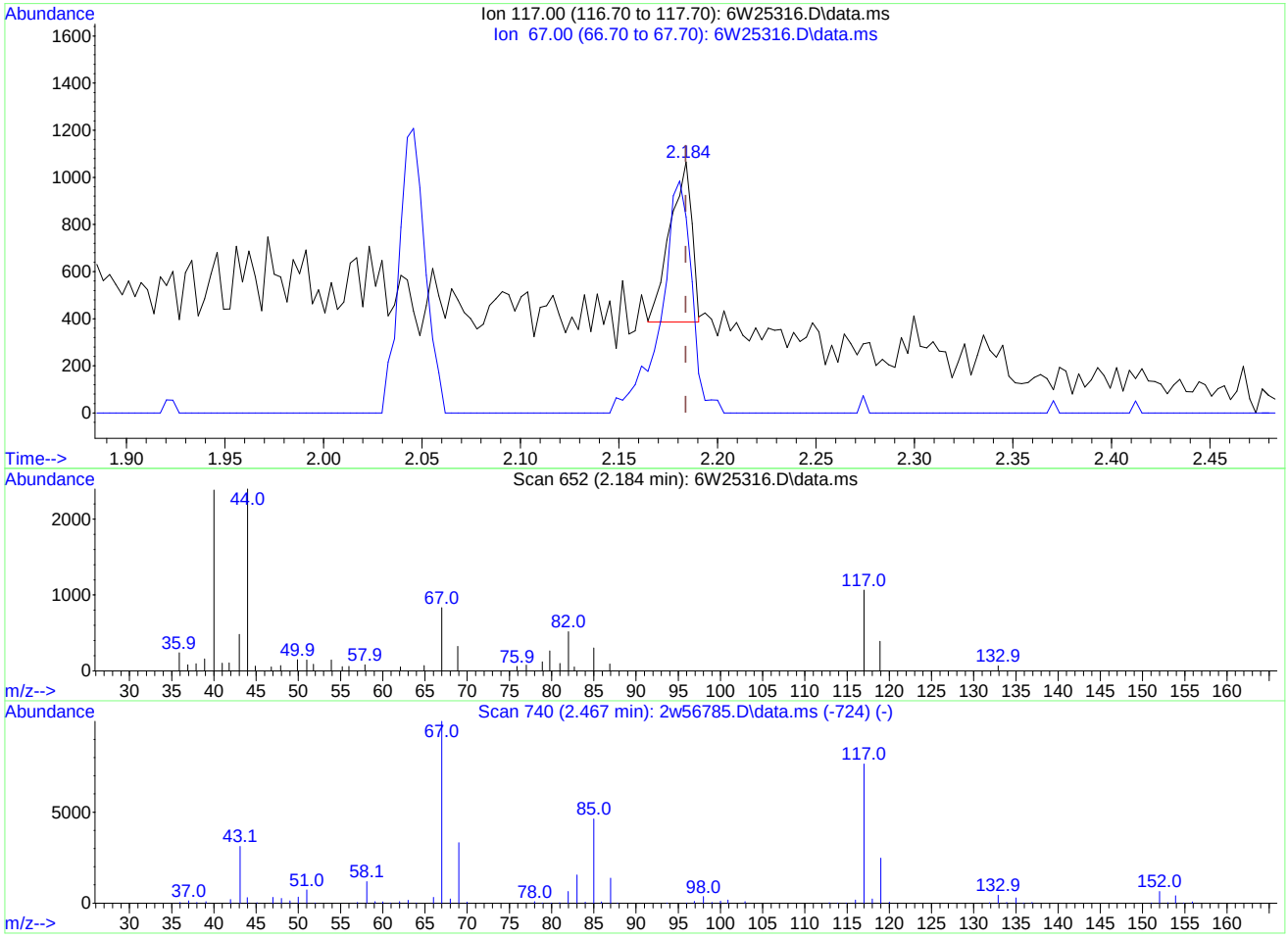
response 1388

Ion	Exp%	Act%
117.00	100	100
67.00	141.60	77.09#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25316.D
Acq On : 4 Aug 2022 5:54 pm
Operator : thomash
Sample : ic1077-0.04
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 08:19:42 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration



TIC: 6W25316.D\data.ms

(20) FREON 123A (T)

2.184min (+0.000) 0.05PPBV m

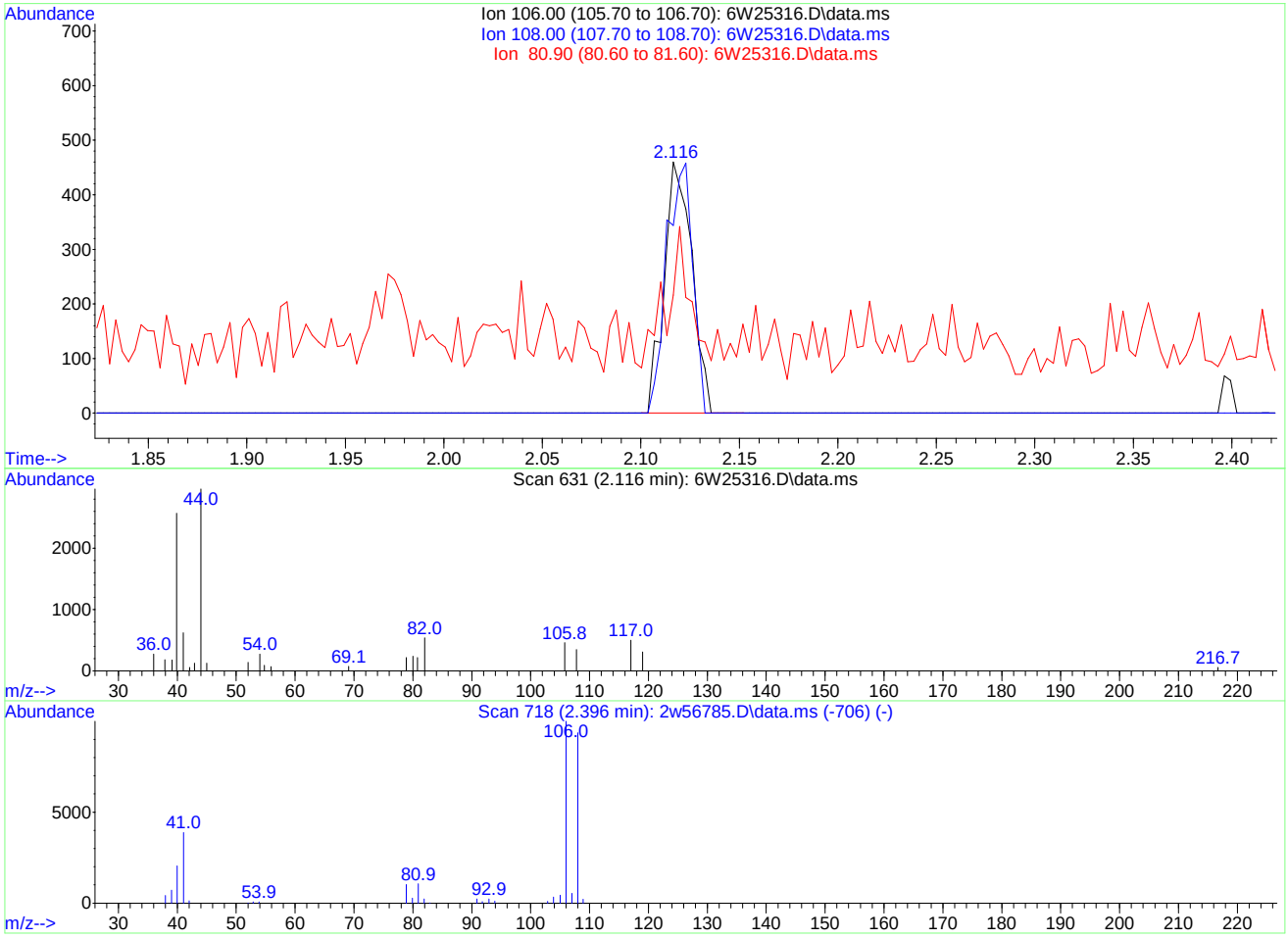
response 526

Ion	Exp%	Act%
117.00	100	100
67.00	141.60	203.42#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25316.D
Acq On : 4 Aug 2022 5:54 pm
Operator : thomash
Sample : ic1077-0.04
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 08:19:42 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration



TIC: 6W25316.D\data.ms

(29) BROMOETHENE (T)

2.116min (-0.006) 0.06PPBV m

response 448

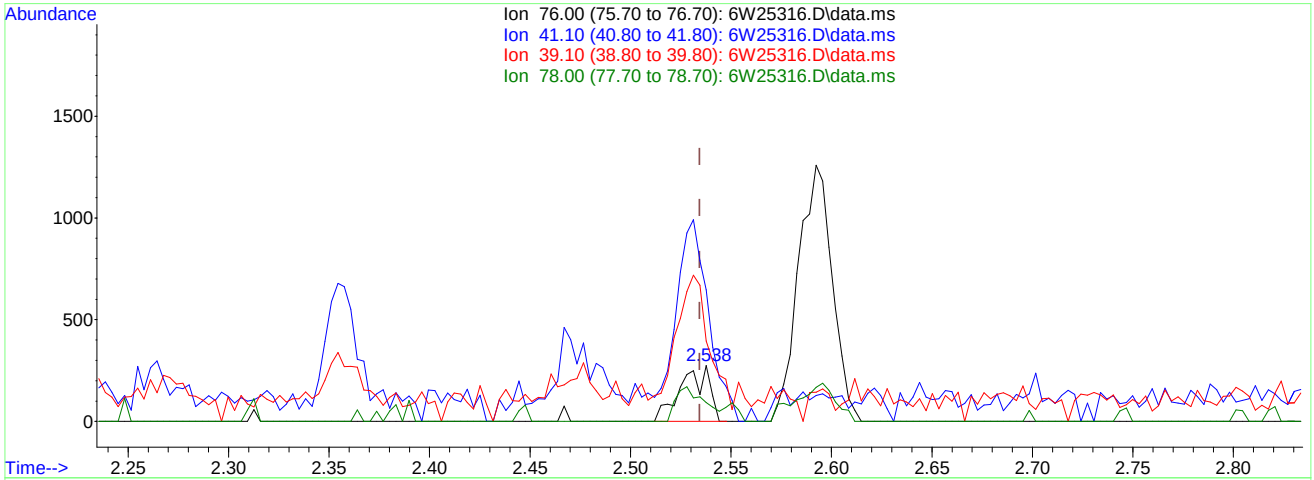
Ion	Exp%	Act%
106.00	100	100
108.00	94.60	0.00#
80.90	10.40	0.00#
0.00	0.00	0.00

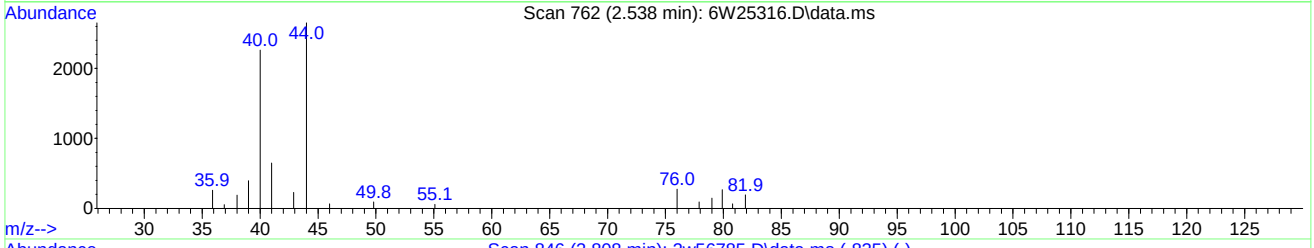
6W25316.D edits: BROMOETHENE

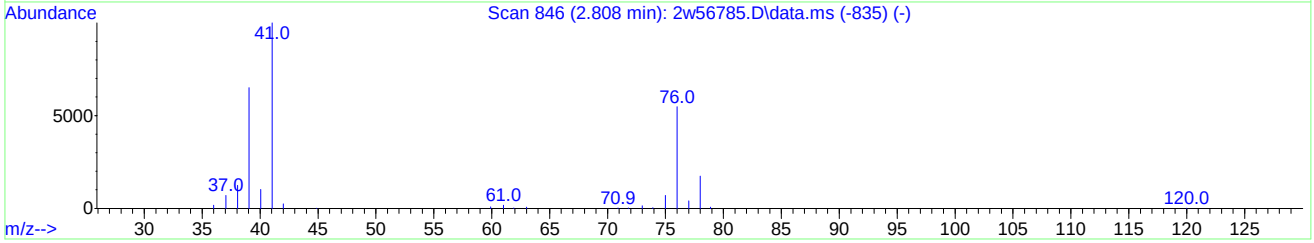
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25316.D
Acq On : 4 Aug 2022 5:54 pm
Operator : thomash
Sample : ic1077-0.04
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 08:19:42 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration







TIC: 6W25316.D\data.ms

(32) 3-CHLOROPROPENE (T)

2.538min (+0.003) 0.07PPBV m

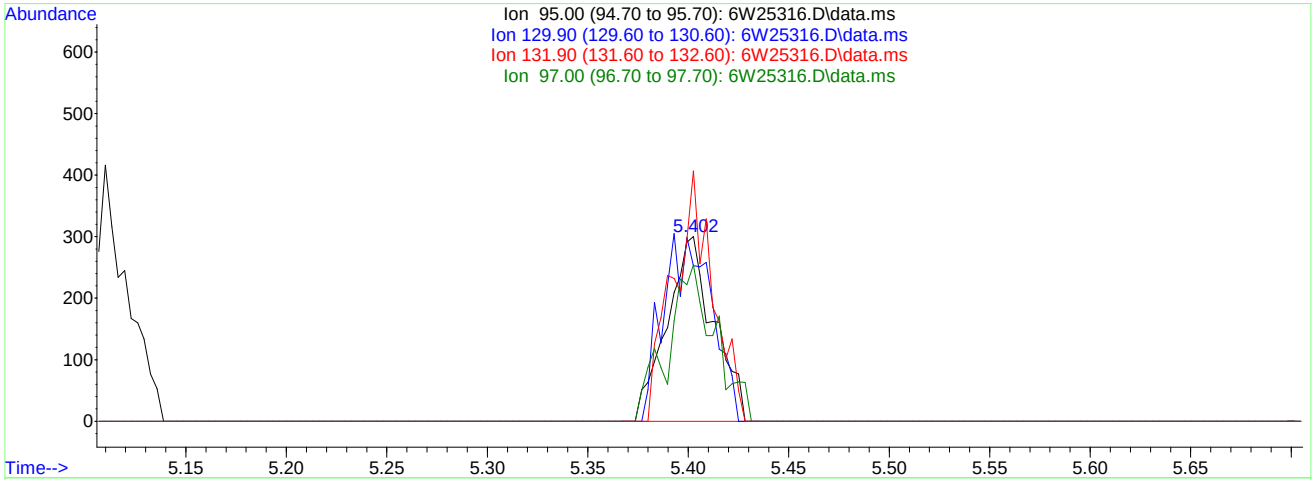
response 275

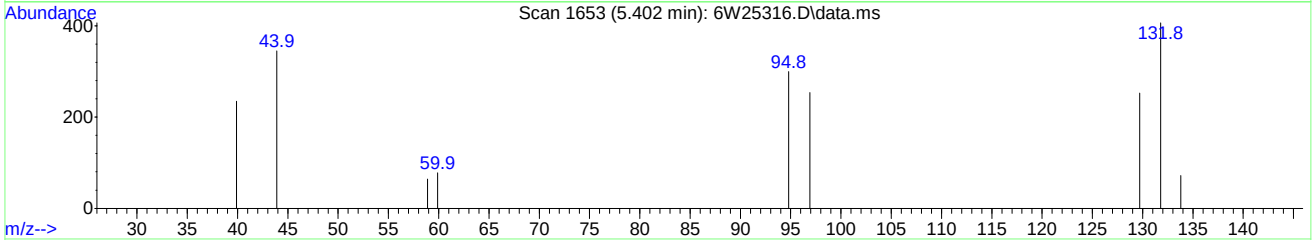
Ion	Exp%	Act%
76.00	100	100
41.10	184.90	0.00#
39.10	118.20	0.00#
78.00	32.40	0.00#

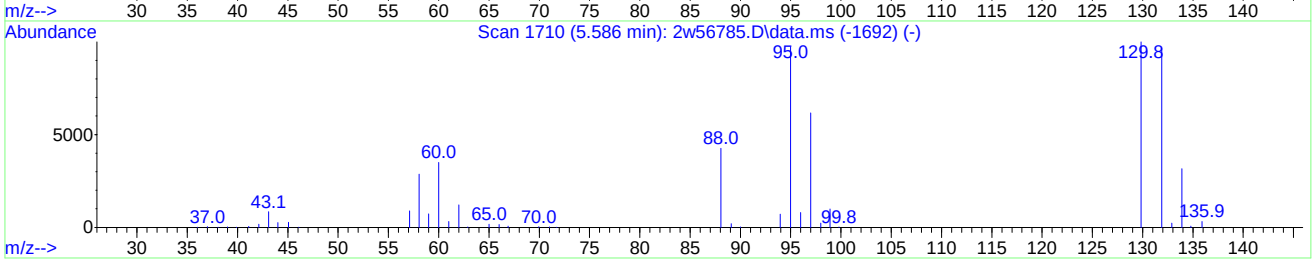
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25316.D
Acq On : 4 Aug 2022 5:54 pm
Operator : thomash
Sample : ic1077-0.04
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 08:19:42 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration







TIC: 6W25316.D\data.ms

(55) TRICHLOROETHENE (T)

5.402min (-0.003) 0.05PPBV m

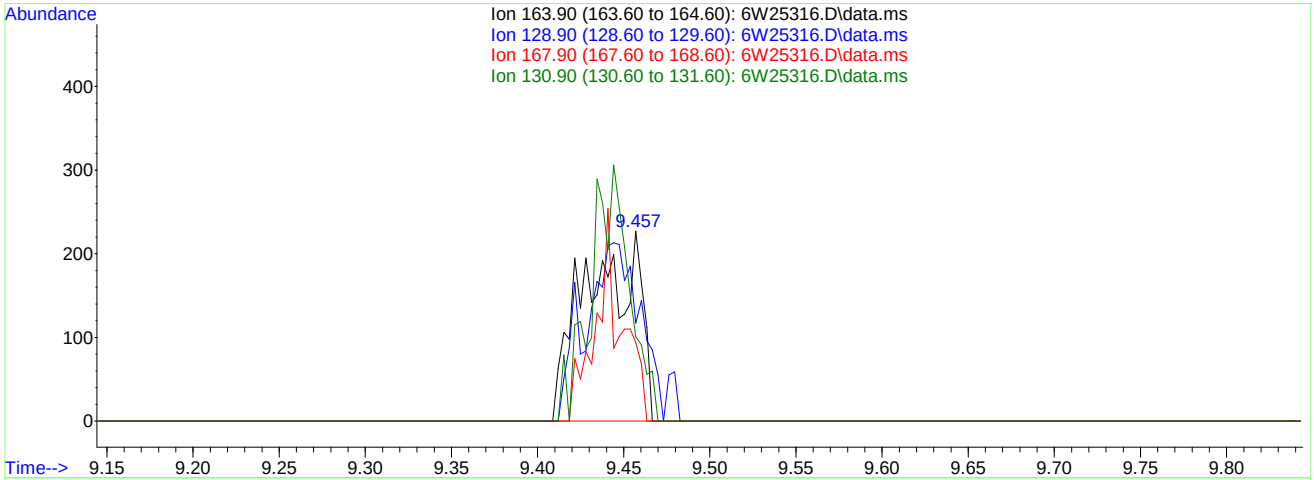
response 484

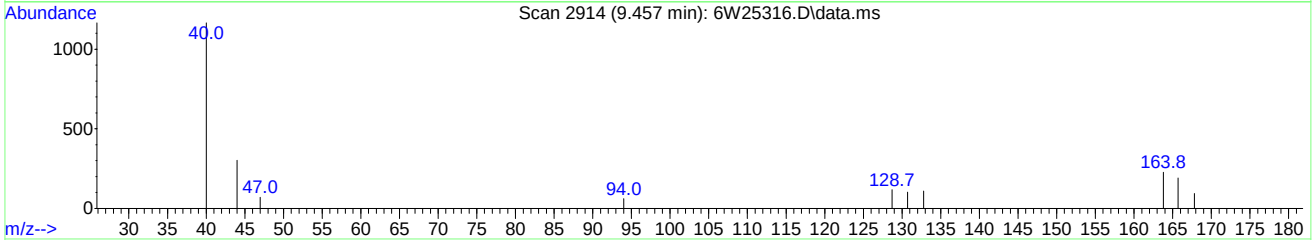
Ion	Exp%	Act%
95.00	100	100
129.90	104.00	0.00#
131.90	99.70	0.00#
97.00	64.10	0.00#

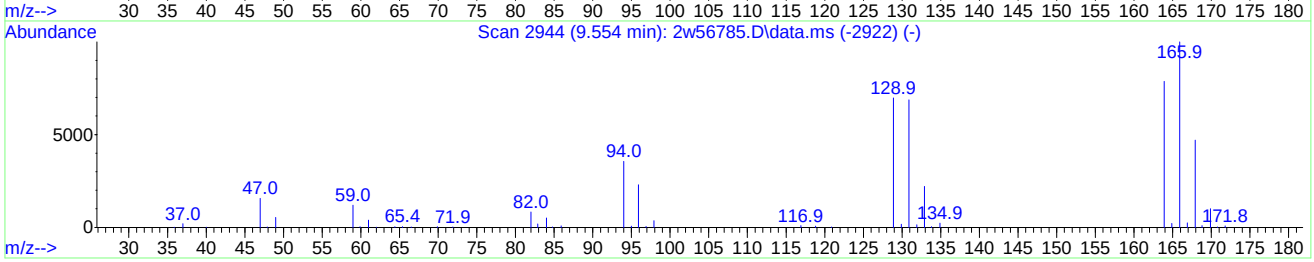
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25316.D
Acq On : 4 Aug 2022 5:54 pm
Operator : thomash
Sample : ic1077-0.04
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 08:19:42 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration







TIC: 6W25316.D\data.ms

(72) TETRACHLOROETHENE (T)

9.457min (+0.013) 0.05PPBV m

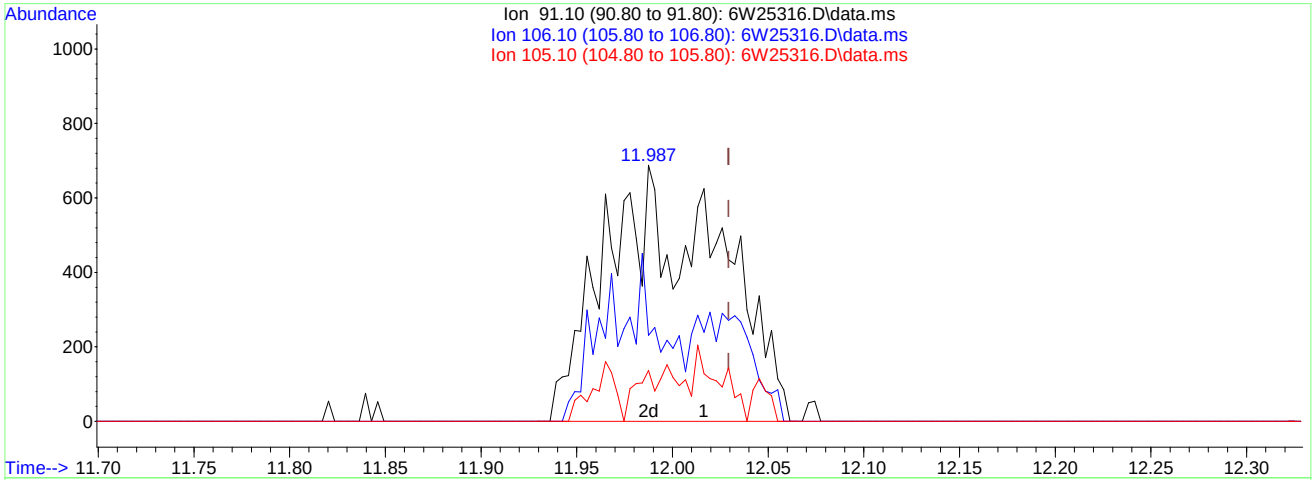
response 491

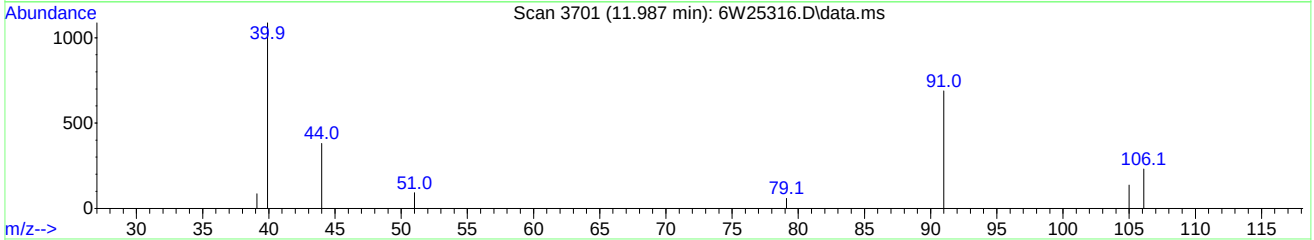
Ion	Exp%	Act%
163.90	100	100
128.90	90.00	0.00#
167.90	60.70	0.00#
130.90	86.30	0.00#

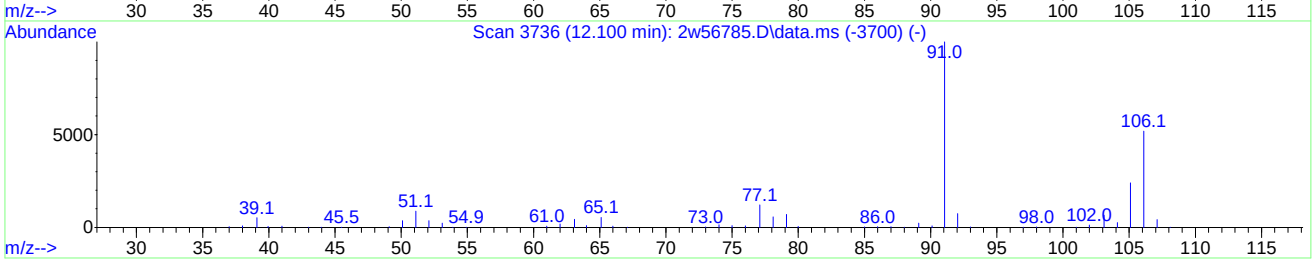
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25316.D
Acq On : 4 Aug 2022 5:54 pm
Operator : thomash
Sample : ic1077-0.04
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 08:19:42 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration







TIC: 6W25316.D\data.ms

(80) M,P-XYLENE (t)

11.987min (-0.042) 0.10PPBV m

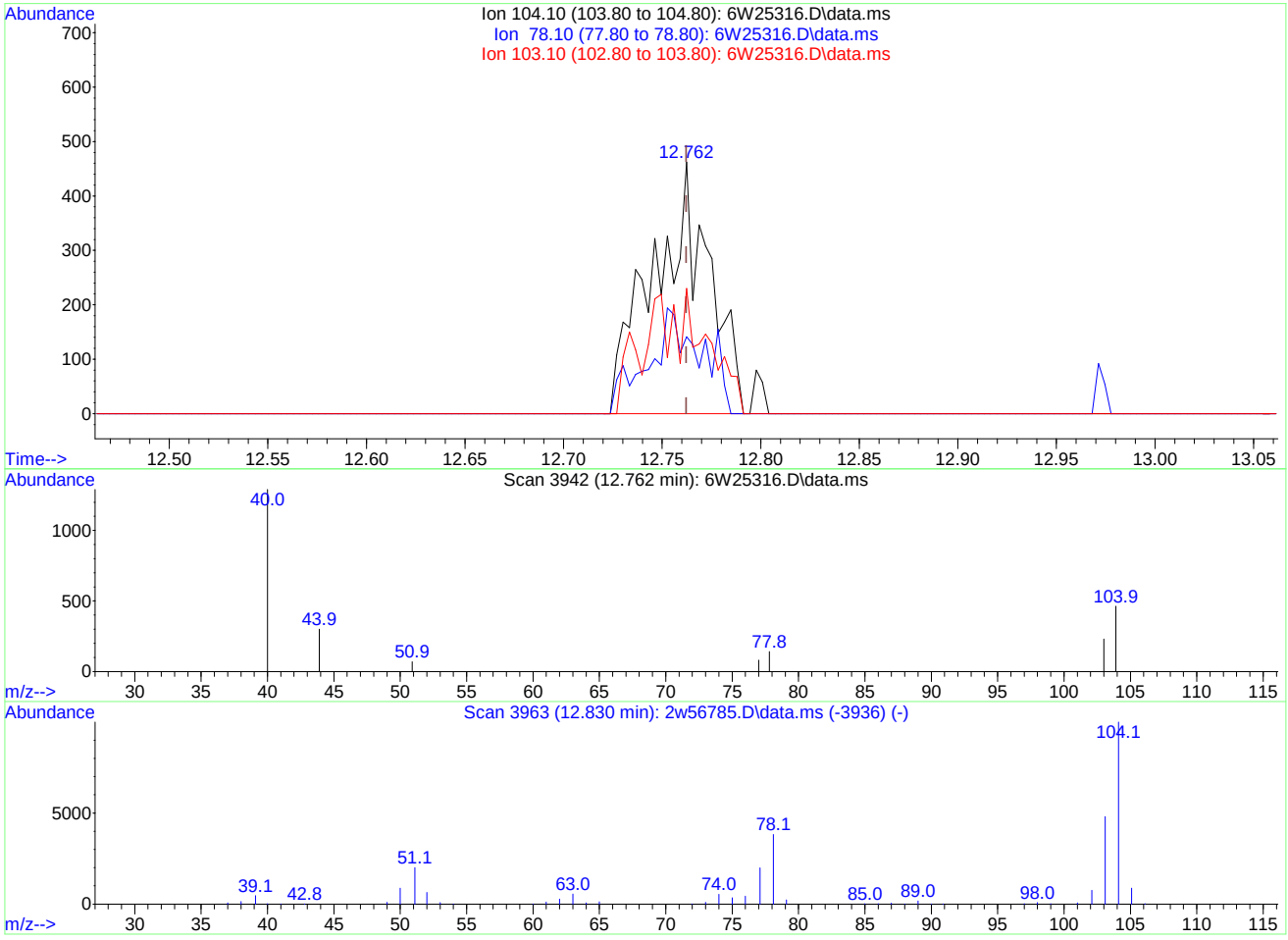
response 2839

Ion	Exp%	Act%
91.10	100	100
106.10	51.50	0.00#
105.10	23.60	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25316.D
Acq On : 4 Aug 2022 5:54 pm
Operator : thomash
Sample : ic1077-0.04
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 08:19:42 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration



TIC: 6W25316.D\data.ms

(82) STYRENE (T)

12.762min (+0.000) 0.04PPBV m

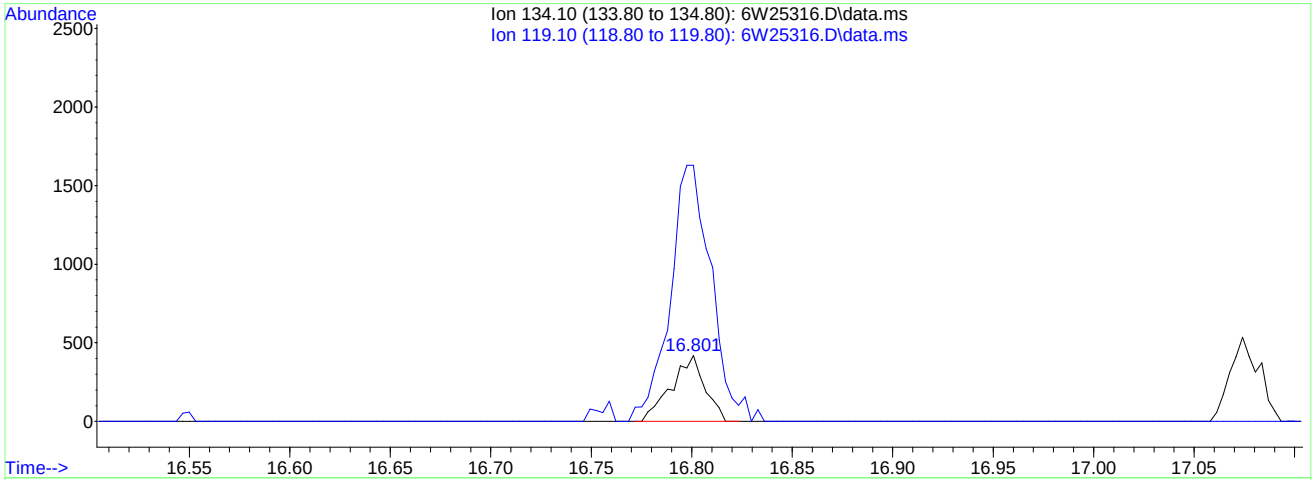
response 911

Ion	Exp%	Act%
104.10	100	100
78.10	38.40	0.00#
103.10	47.20	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25316.D
Acq On : 4 Aug 2022 5:54 pm
Operator : thomash
Sample : ic1077-0.04
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 08:19:42 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration



TIC: 6W25316.D\data.ms

(95) TERT-BUTYLBENZENE (T)

16.801min (-0.003) 0.06PPBV m

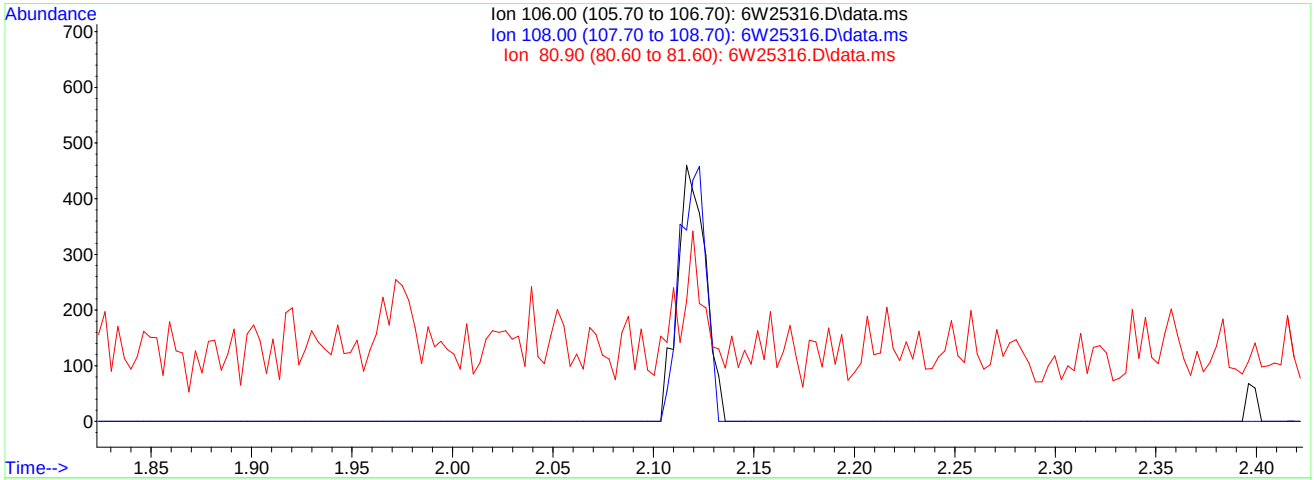
response 488

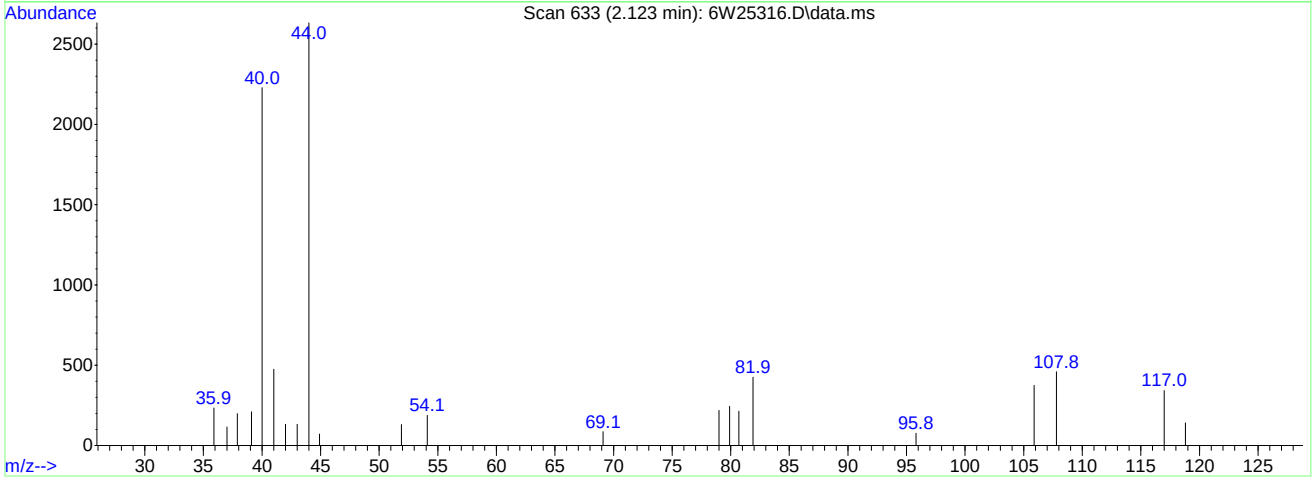
Ion	Exp%	Act%
134.10	100	100
119.10	443.70	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\Raw Data\
Data File : 6W25316.D
Acq On : 4 Aug 2022 5:54 pm
Operator : thomash
Sample : ic1077-0.04
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 09:40:50 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 05 08:58:59 2022
Response via : Initial Calibration





TIC: 6W25316.D\data.ms

(29) BROMOETHENE (T)

2.123min (-2.123) 0.00PPBV

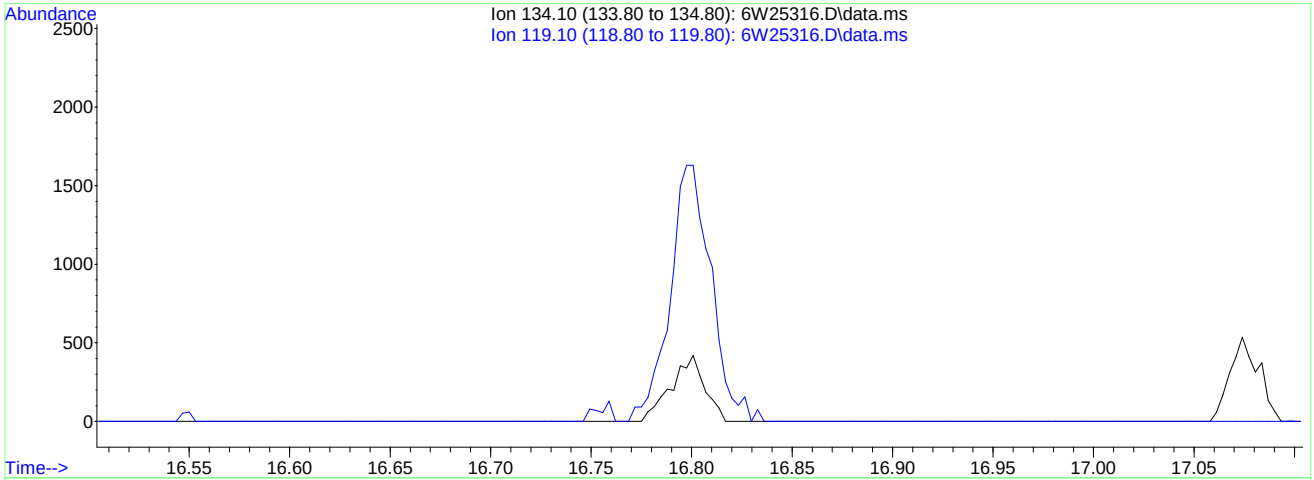
response 0

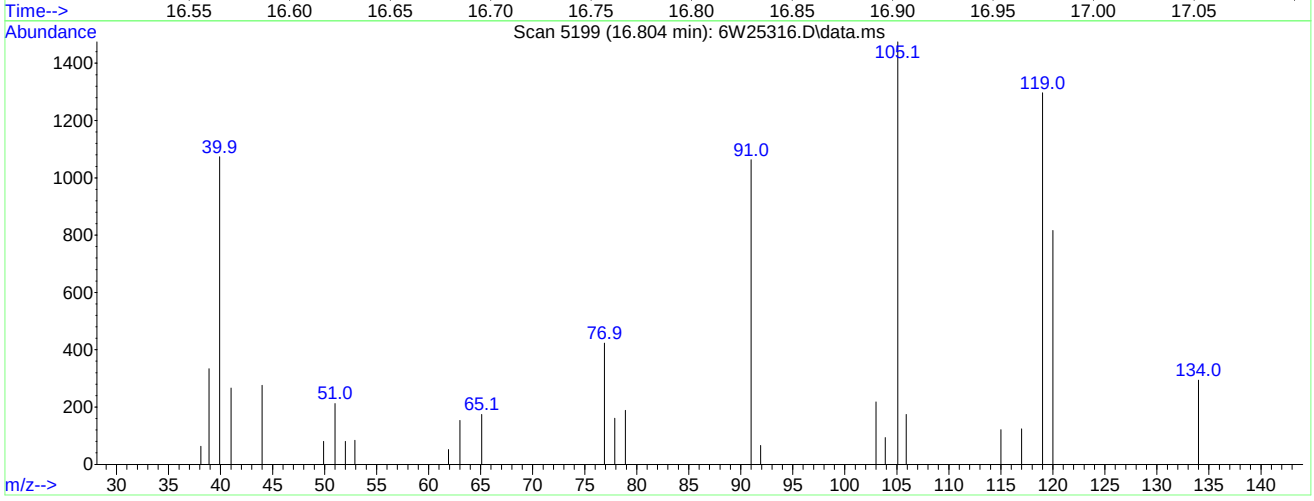
Ion	Exp%	Act%
106.00	100	0.00
108.00	94.60	0.00#
80.90	10.40	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\Raw Data\
Data File : 6W25316.D
Acq On : 4 Aug 2022 5:54 pm
Operator : thomash
Sample : ic1077-0.04
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 09:40:50 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 05 08:58:59 2022
Response via : Initial Calibration





TIC: 6W25316.D\data.ms

(95) TERT-BUTYLBENZENE (T)

16.804min (-16.804) 0.00PPBV

response 0

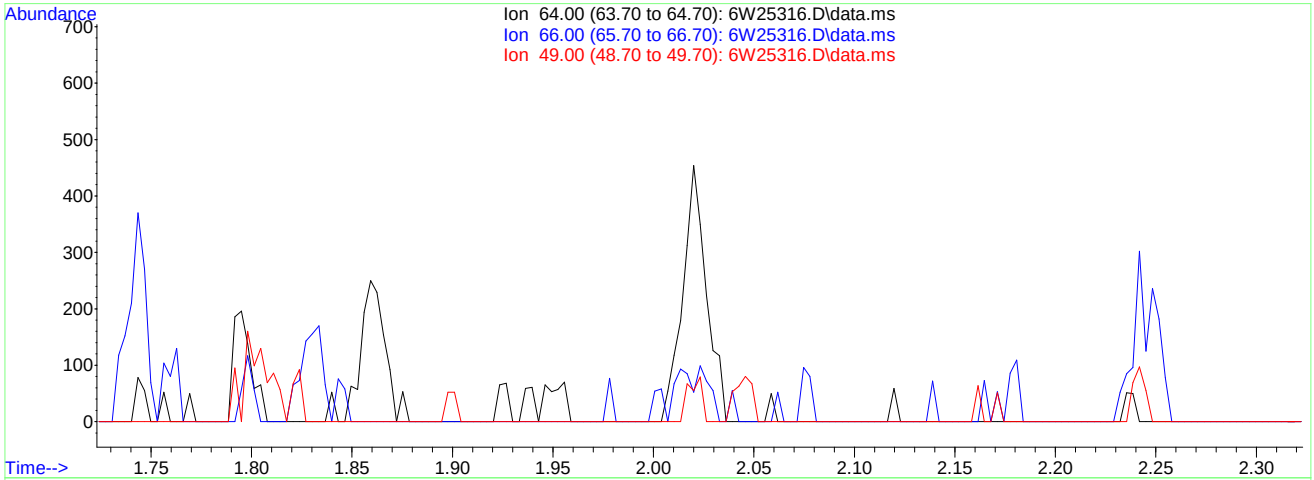
Ion	Exp%	Act%
134.10	100	0.00
119.10	443.70	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

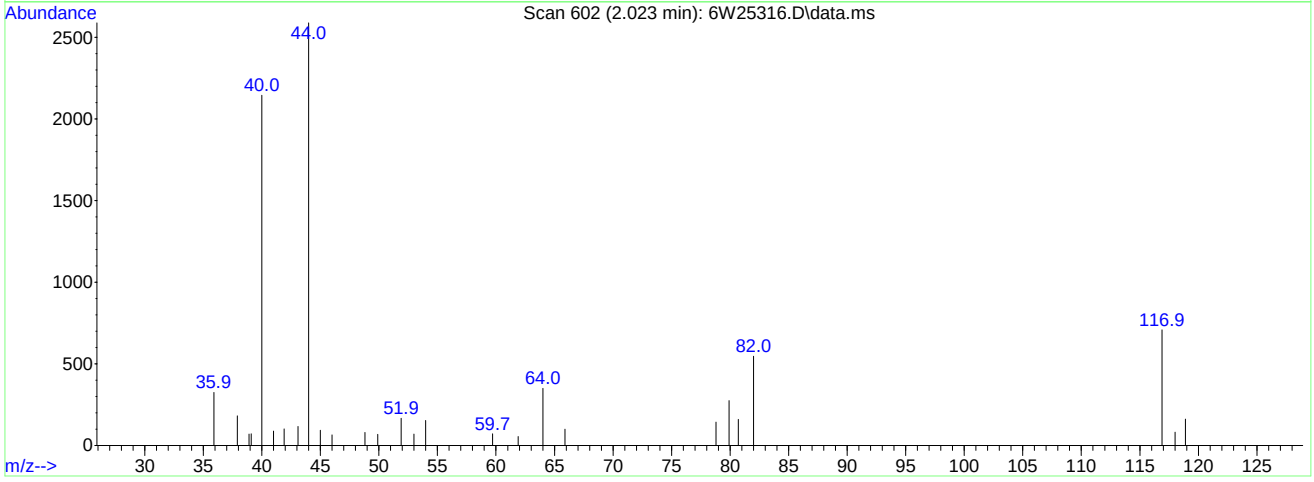
7.7.12.14

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\Raw Data\
Data File : 6W25316.D
Acq On : 4 Aug 2022 5:54 pm
Operator : thomash
Sample : ic1077-0.04
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 09:40:50 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 05 08:58:59 2022
Response via : Initial Calibration





TIC: 6W25316.D\data.ms

(15) CHLOROETHANE (T)

2.023min (-2.023) 0.00PPBV

response 0

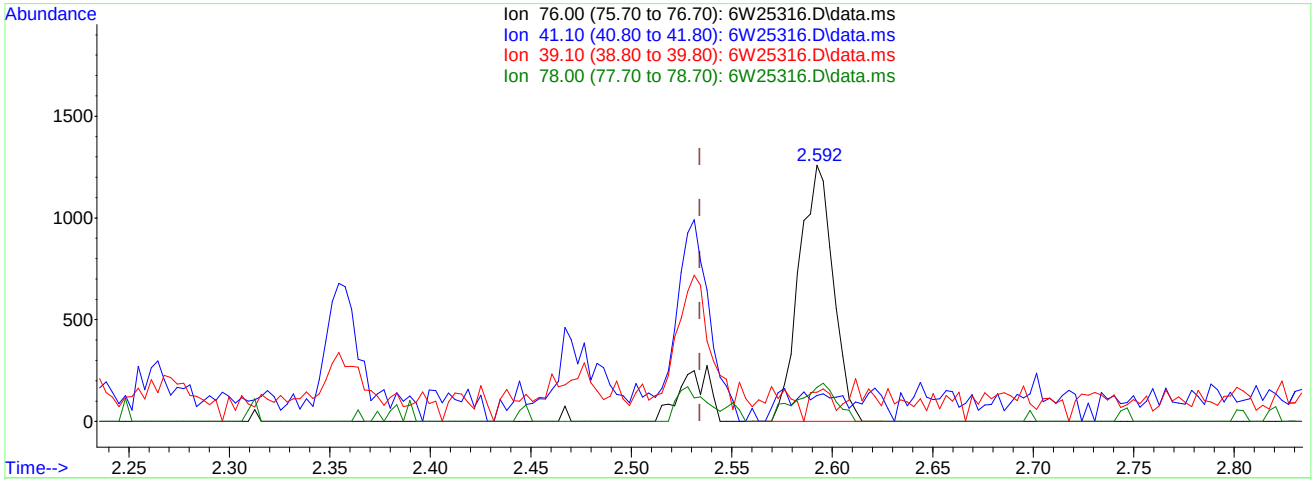
Ion	Exp%	Act%
64.00	100	0.00
66.00	33.90	0.00#
49.00	29.10	0.00#
0.00	0.00	0.00

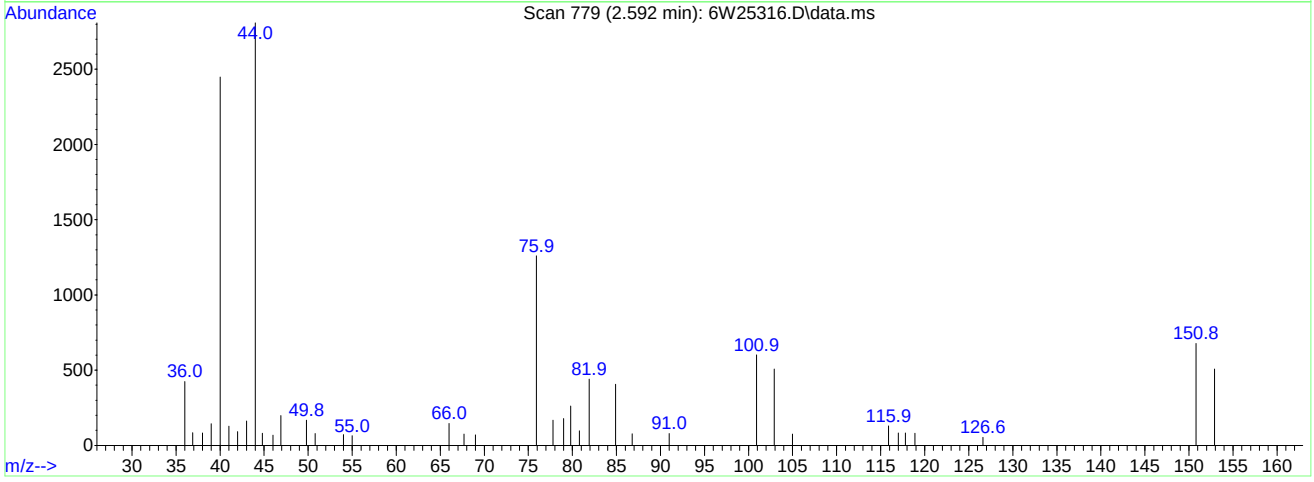
6W25316.D edits: CHLOROETHANE

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\Raw Data\
Data File : 6W25316.D
Acq On : 4 Aug 2022 5:54 pm
Operator : thomash
Sample : ic1077-0.04
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 09:40:50 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 05 08:58:59 2022
Response via : Initial Calibration





TIC: 6W25316.D\data.ms

(32) 3-CHLOROPROPENE (T)

2.592min (+0.058) 0.31PPBV

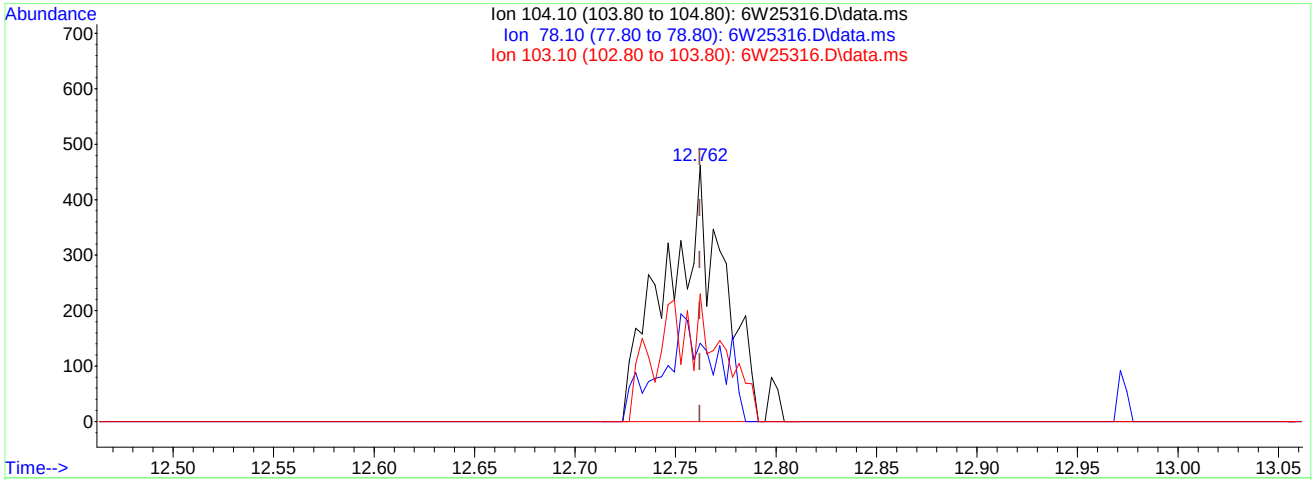
response 1479

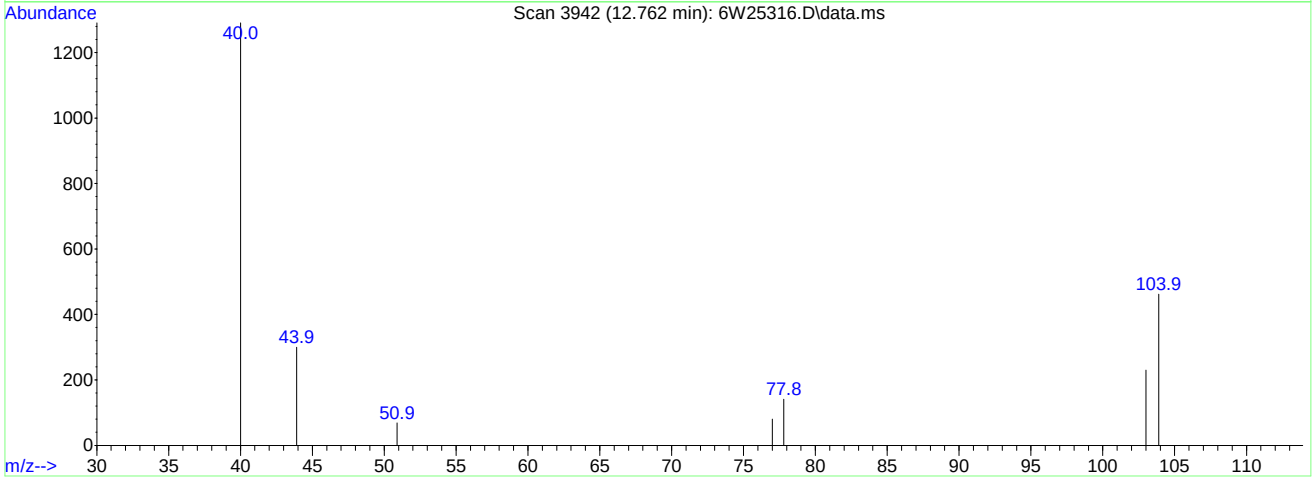
Ion	Exp%	Act%
76.00	100	100
41.10	184.90	0.00#
39.10	118.20	0.00#
78.00	32.40	0.00#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\Raw Data\
Data File : 6W25316.D
Acq On : 4 Aug 2022 5:54 pm
Operator : thomash
Sample : ic1077-0.04
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 09:40:50 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 05 08:58:59 2022
Response via : Initial Calibration





TIC: 6W25316.D\data.ms

(82) STYRENE (T)

12.762min (+0.000) 0.04PPBV

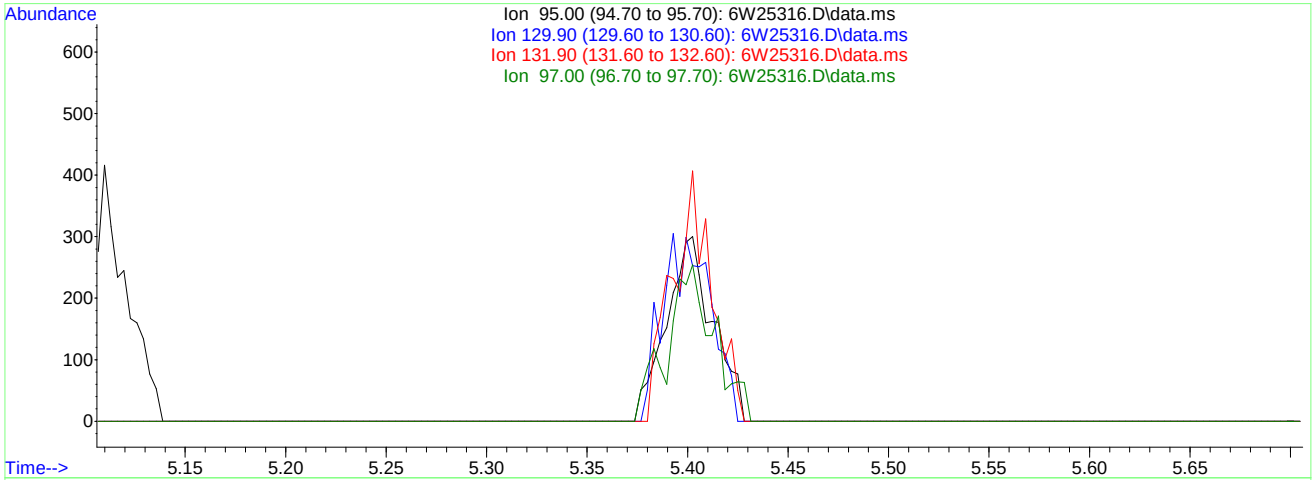
response 938

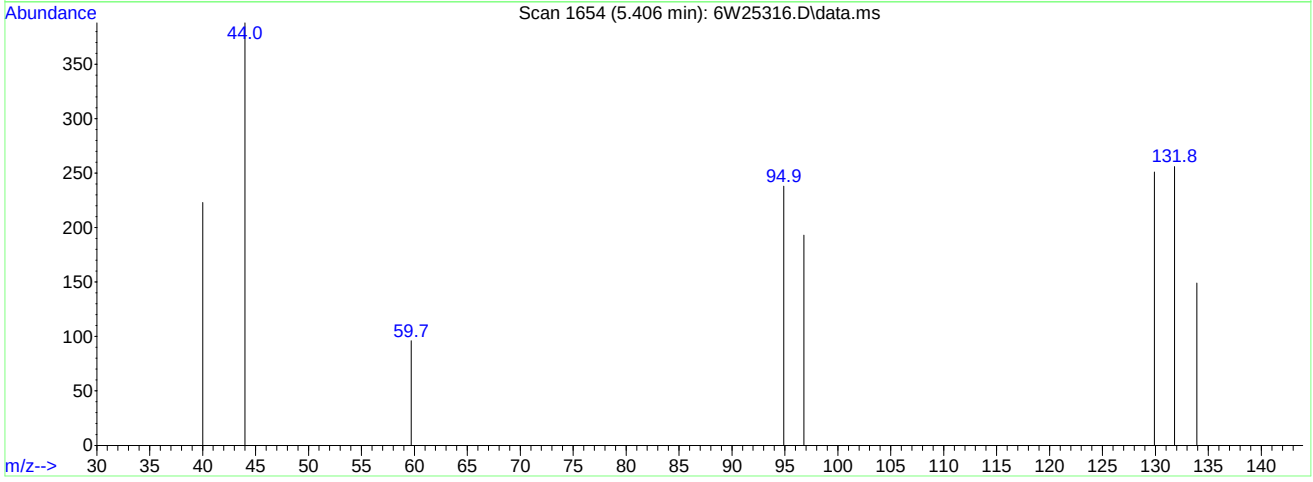
Ion	Exp%	Act%
104.10	100	100
78.10	38.40	0.00#
103.10	47.20	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\Raw Data\
Data File : 6W25316.D
Acq On : 4 Aug 2022 5:54 pm
Operator : thomash
Sample : ic1077-0.04
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 09:40:50 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 05 08:58:59 2022
Response via : Initial Calibration





TIC: 6W25316.D\data.ms

(55) TRICHLOROETHENE (T)

5.406min (-5.406) 0.00PPBV

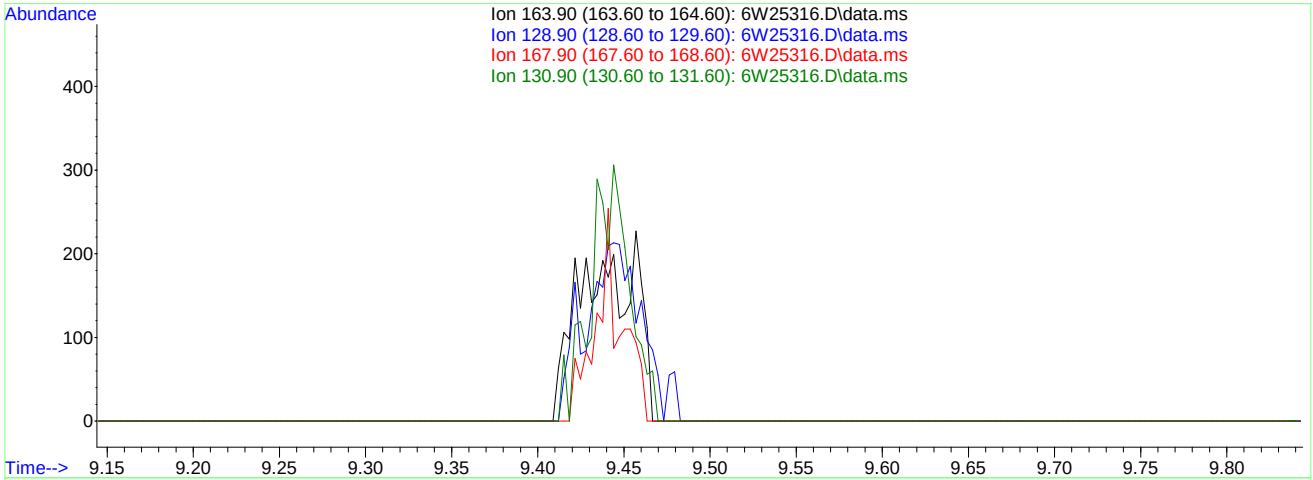
response 0

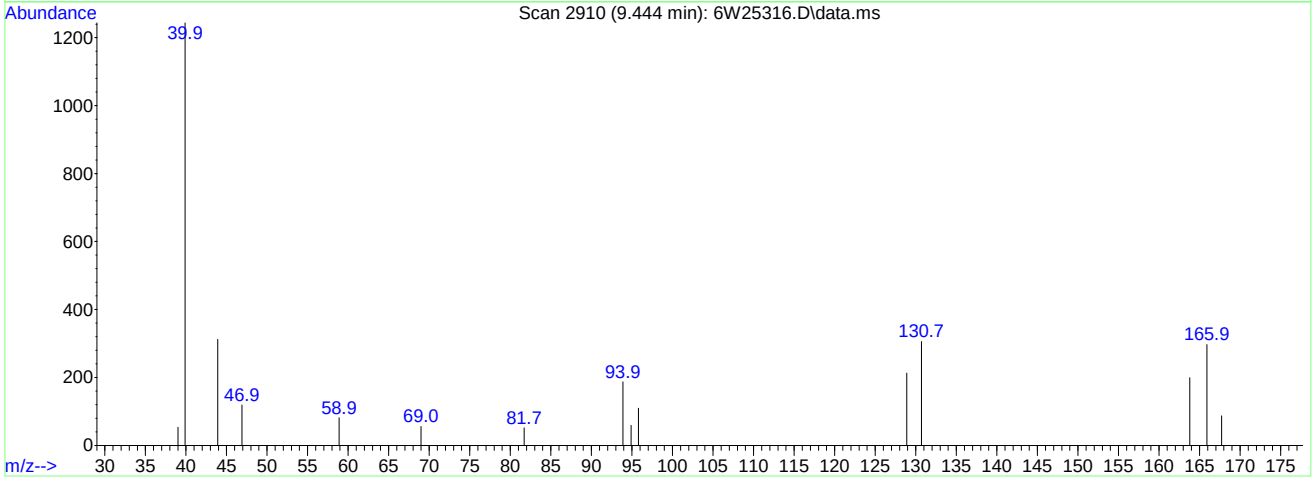
Ion	Exp%	Act%
95.00	100	0.00
129.90	104.00	0.00#
131.90	99.70	0.00#
97.00	64.10	0.00#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\Raw Data\
Data File : 6W25316.D
Acq On : 4 Aug 2022 5:54 pm
Operator : thomash
Sample : ic1077-0.04
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 09:40:50 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 05 08:58:59 2022
Response via : Initial Calibration





TIC: 6W25316.D\data.ms

(72) TETRACHLOROETHENE (T)

9.444min (-9.444) 0.00PPBV

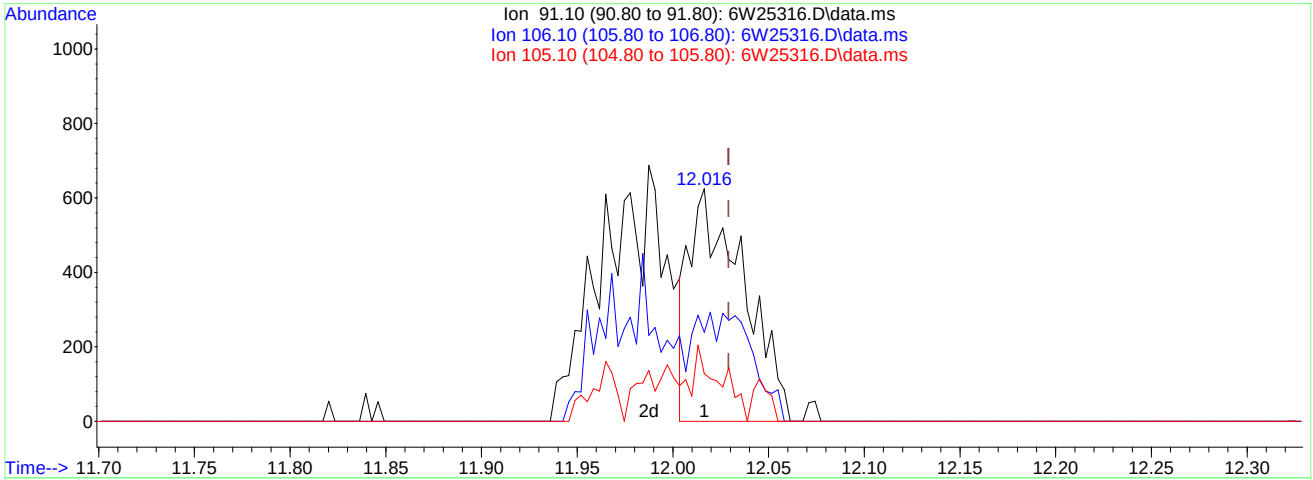
response 0

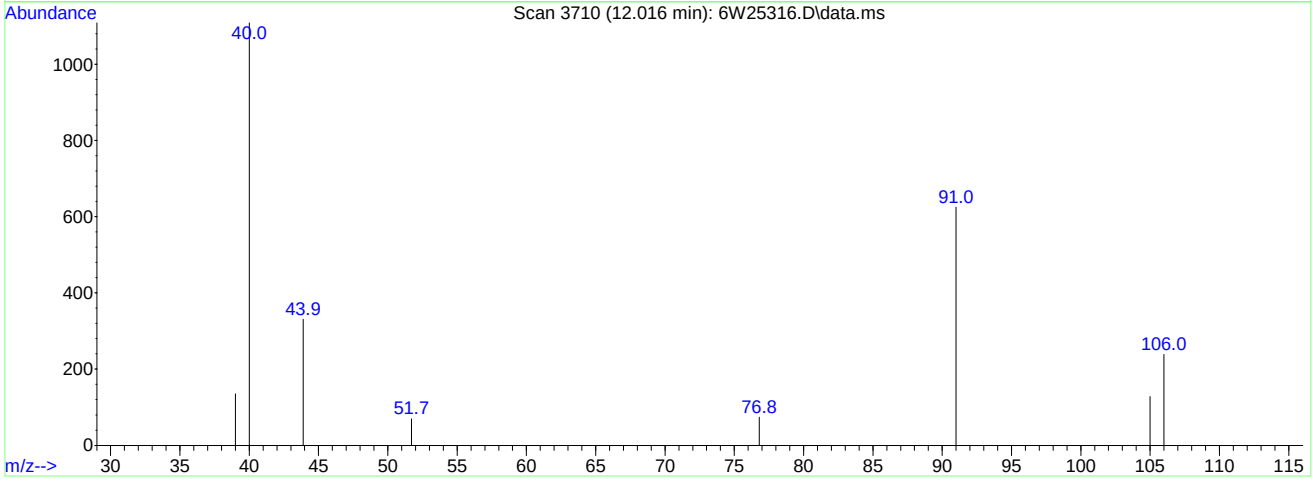
Ion	Exp%	Act%
163.90	100	0.00
128.90	90.00	0.00#
167.90	60.70	0.00#
130.90	86.30	0.00#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\Raw Data\
Data File : 6W25316.D
Acq On : 4 Aug 2022 5:54 pm
Operator : thomash
Sample : ic1077-0.04
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 09:40:50 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 05 08:58:59 2022
Response via : Initial Calibration





TIC: 6W25316.D\data.ms

(80) M,P-XYLENE (t)

12.016min (-0.013) 0.04PPBV

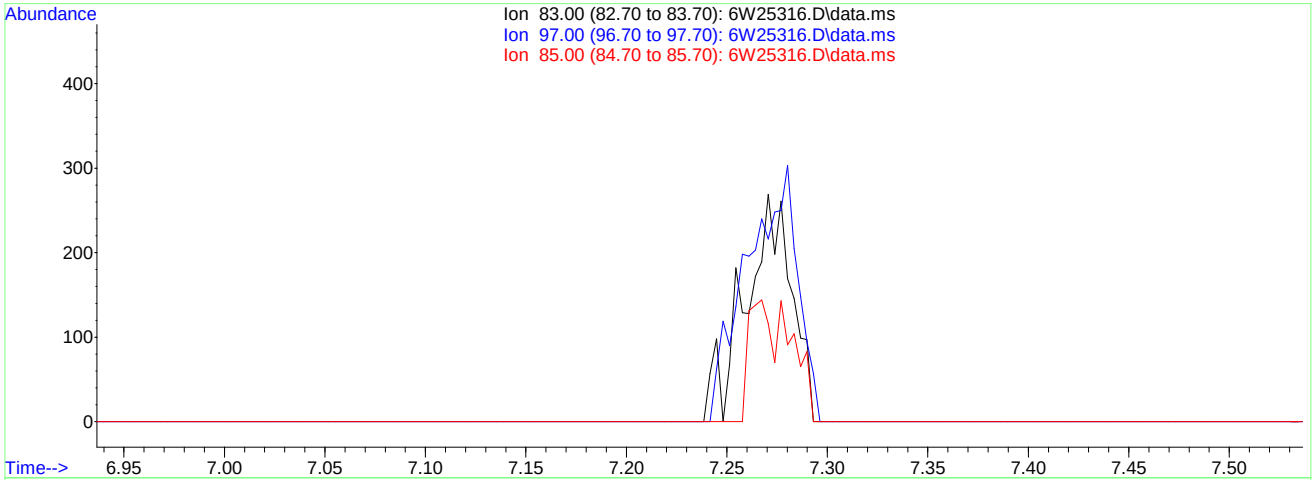
response 1228

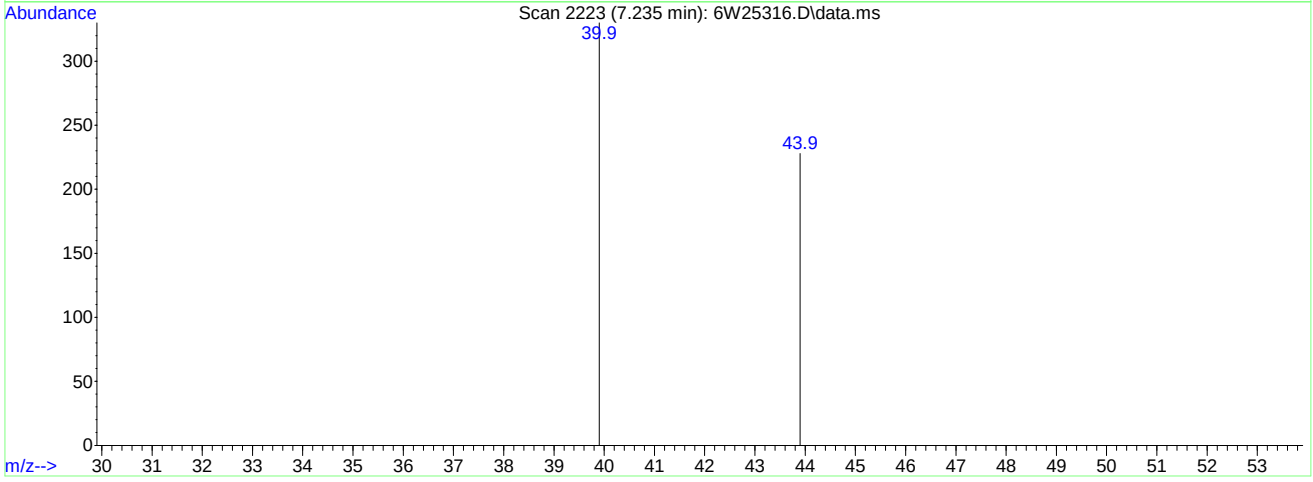
Ion	Exp%	Act%
91.10	100	100
106.10	51.50	0.00#
105.10	23.60	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\Raw Data\
Data File : 6W25316.D
Acq On : 4 Aug 2022 5:54 pm
Operator : thomash
Sample : ic1077-0.04
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 08 09:27:11 2022
Quant Method : C:\msdchem\1\methods\M6W1077_old.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed May 18 09:12:16 2022
Response via : Initial Calibration





TIC: 6W25316.D\data.ms

(69) 1,1,2-TRICHLOROETHANE (T)

7.236min (-7.236) 0.00PPBV

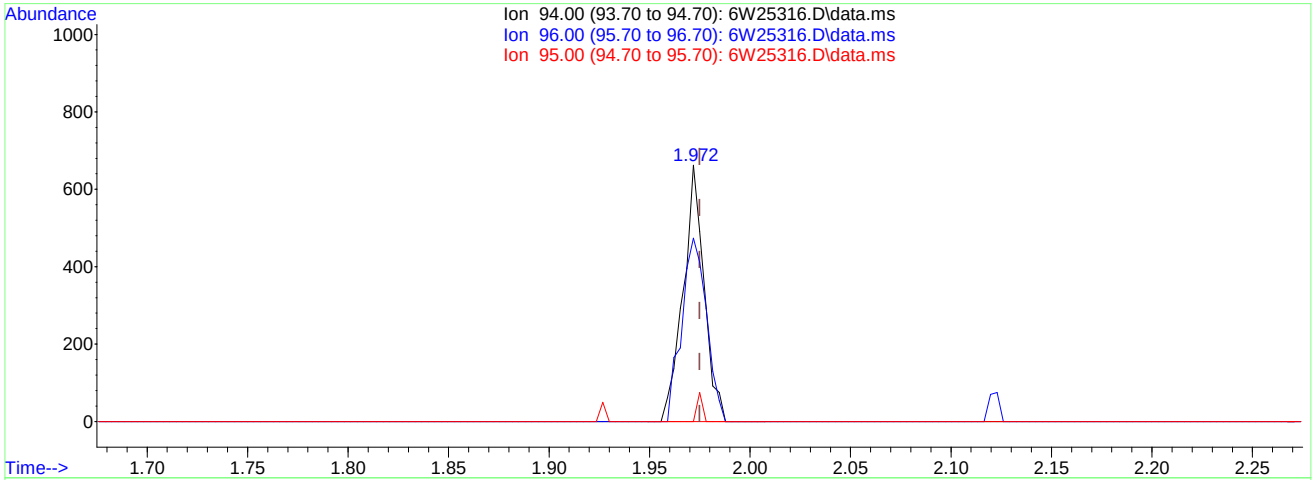
response 0

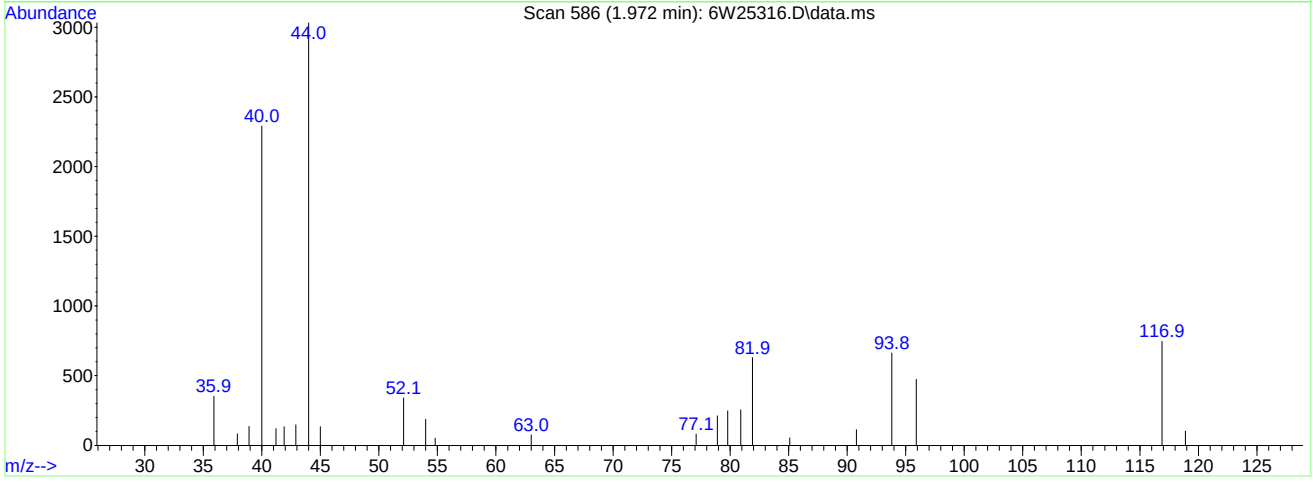
Ion	Exp%	Act%
83.00	100	0.00
97.00	116.40	0.00#
85.00	63.80	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25316.D
Acq On : 4 Aug 2022 5:54 pm
Operator : thomash
Sample : ic1077-0.04
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 09:04:39 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration





TIC: 6W25316.D\data.ms

(14) BROMOMETHANE (T)

1.972min (-0.003) 0.06PPBV m

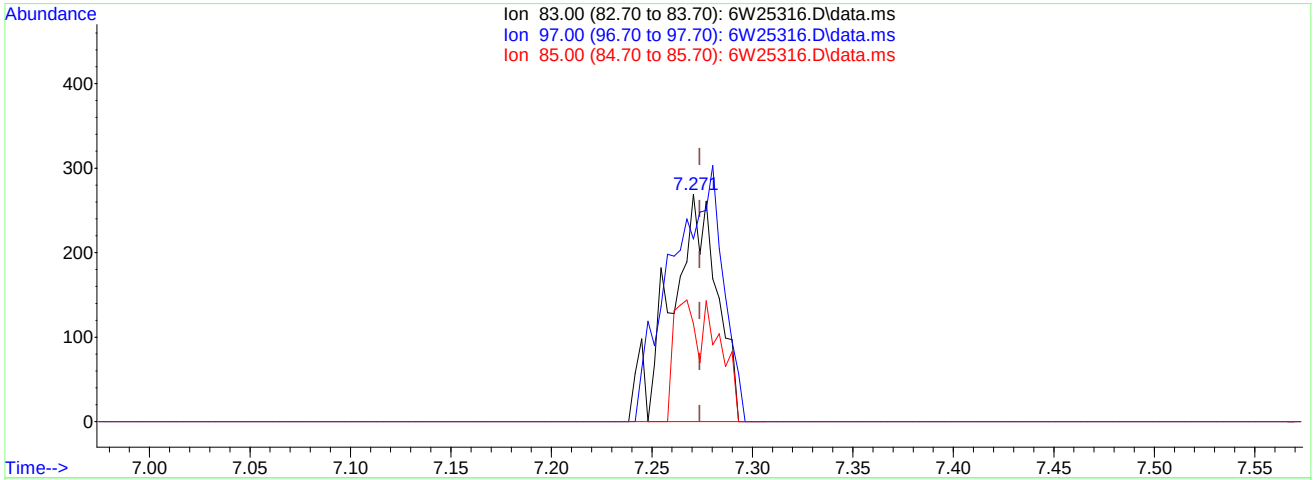
response 482

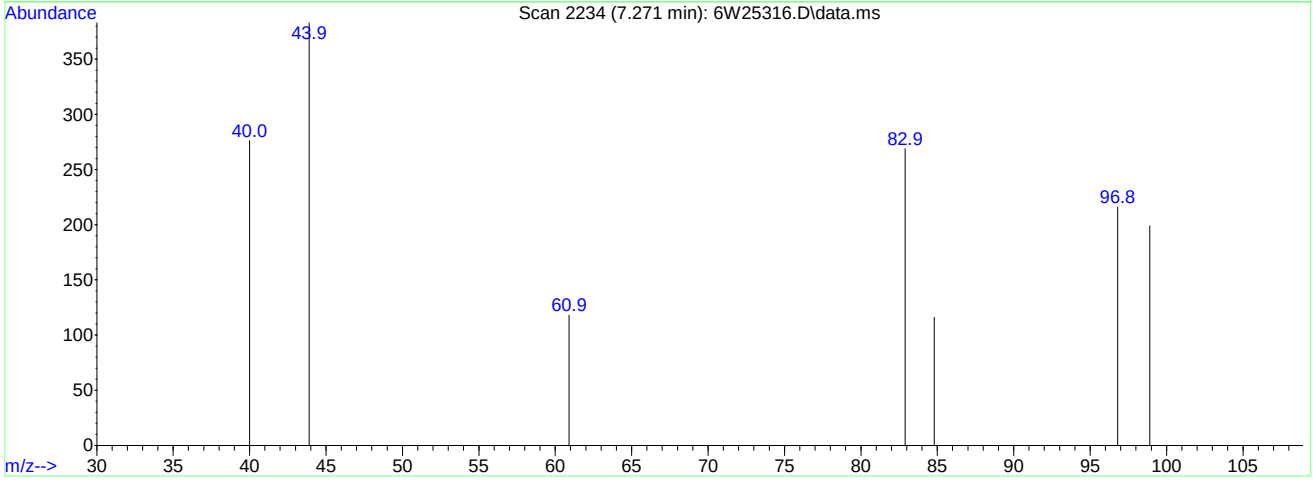
Ion	Exp%	Act%
94.00	100	100
96.00	94.20	0.00#
95.00	13.70	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25316.D
Acq On : 4 Aug 2022 5:54 pm
Operator : thomash
Sample : ic1077-0.04
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 09:04:39 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration





TIC: 6W25316.D\data.ms

(69) 1,1,2-TRICHLOROETHANE (T)

7.271min (-0.003) 0.05PPBV m

response 407

Ion	Exp%	Act%
83.00	100	100
97.00	116.40	0.00#
85.00	63.80	0.00#
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/08/22 10:23

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W25317.D
Acq On : 4 Aug 2022 6:39 pm
Operator : thomash
Sample : ic1077-0.1
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 09:15:13 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.412	128	45139	10.00	PPBV	#	0.00
52) 1,4-DIFLUOROBENZENE	4.792	114	243010	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	10.605	117	215313	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	14.032	95	149069	9.87	PPBV		0.00
Target Compounds							Qvalue
3) FREON 152A	1.721	65	532	0.14	PPBV	#	53
4) CHLORODIFLUOROMETHANE	1.731	67	250m	0.15	PPBV		
5) CHLOROTRIFLUOROETHENE	1.740	116	1084	0.12	PPBV	#	42
6) DICHLORODIFLUOROMETHANE	1.756	85	2771m	0.13	PPBV		
7) PROPYLENE	1.740	41	778	0.16	PPBV	#	76
8) 1-CHLORO-1,1-DIFLUOROE...	1.795	65	2664	0.13	PPBV	#	29
9) FREON 114	1.827	85	2686	0.13	PPBV		94
11) VINYL CHLORIDE	1.863	62	1129	0.13	PPBV	#	50
13) N-BUTANE	1.914	43	1882	0.15	PPBV	#	65
14) BROMOMETHANE	1.972	94	976	0.14	PPBV	#	95
15) CHLOROETHANE	2.020	64	668	0.16	PPBV	#	43
16) DICHLOROFLUOROMETHANE	2.046	67	2416	0.13	PPBV	#	88
17) ACETONITRILE	2.117	41	1202	0.16	PPBV	#	25
18) ACROLEIN	2.152	56	277m	0.09	PPBV		
19) FREON 123	2.165	83	2269	0.12	PPBV	#	90
20) FREON 123A	2.181	117	1495	0.14	PPBV		99
21) TRICHLOROFLUOROMETHANE	2.242	101	2615	0.12	PPBV	#	95
25) IODOMETHANE	2.419	142	2475	0.12	PPBV	#	83
26) 1,1-DICHLOROETHYLENE	2.444	96	976	0.12	PPBV	#	48
27) CARBON DISULFIDE	2.592	76	2965	0.12	PPBV	#	9
29) BROMOETHENE	2.120	106	905	0.12	PPBV	#	96
30) ACRYLONITRILE	2.332	52	1010	0.16	PPBV	#	74
32) 3-CHLOROPROPENE	2.531	76	538	0.13	PPBV	#	1
33) FREON 113	2.592	151	1470	0.11	PPBV	#	74
34) TRANS-1,2-DICHLOROETHENE	2.843	96	1045	0.12	PPBV	#	72
35) TERTIARY BUTYL ALCOHOL	2.473	59	2796	0.14	PPBV	#	74
36) METHYL TERTIARY BUTYL ...	2.972	73	3247	0.13	PPBV	#	48
37) TETRAHYDROFURAN	3.750	72	314m	0.09	PPBV		
38) HEXANE	3.467	57	1505	0.13	PPBV	#	76
40) 1,1-DICHLOROETHANE	2.933	63	2019	0.13	PPBV	#	87
41) METHYL ETHYL KETONE	3.123	72	527	0.12	PPBV	#	1
42) CIS-1,2-DICHLOROETHENE	3.329	96	810	0.11	PPBV	#	52
43) DIISOPROPYL ETHER	3.477	59	371m	0.11	PPBV		
44) ETHYL ACETATE	3.483	61	277m	0.11	PPBV		
45) METHYL ACRYLATE	3.467	55	1643	0.11	PPBV	#	65
46) CHLOROFORM	3.489	83	1844	0.12	PPBV	#	89
47) 2,4-DIMETHYLPENTANE	4.020	57	1664	0.13	PPBV	#	76
48) 1,1,1-TRICHLOROETHANE	4.104	97	1793	0.12	PPBV		98
49) CARBON TETRACHLORIDE	4.560	117	1822	0.12	PPBV		100
50) 1,2-DICHLOROETHANE	3.940	62	1345	0.14	PPBV	#	49
51) BENZENE	4.438	78	2783	0.13	PPBV		84
53) CYCLOHEXANE	4.660	84	1007	0.11	PPBV	#	63
54) 2,3-DIMETHYLPENTANE	4.936	71	584	0.12	PPBV	#	58
55) TRICHLOROETHENE	5.399	95	1094	0.11	PPBV	#	76
56) 1,2-DICHLOROPROPANE	5.152	63	972	0.12	PPBV	#	41
57) DIBROMOMETHANE	5.107	174	1106	0.12	PPBV	#	77
58) ETHYL ACRYLATE	5.290	55	1764	0.10	PPBV	#	73
59) BROMODICHLOROMETHANE	5.348	83	1731	0.11	PPBV		97
60) 2,2,4-TRIMETHYLPENTANE	5.499	57	4489	0.13	PPBV	#	94
61) 1,4-DIOXANE	5.489	88	329m	0.06	PPBV		
62) HEPTANE	5.833	43	1637	0.13	PPBV	#	80
63) METHYL METHACRYLATE	5.731	69	794	0.09	PPBV	#	39
64) METHYL ISOBUTYL KETONE	6.518	58	713	0.10	PPBV	#	61
65) CIS-1,3-DICHLOROPROPENE	6.386	75	1361	0.11	PPBV	#	35

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W25317.D
Acq On : 4 Aug 2022 6:39 pm
Operator : thomash
Sample : ic1077-0.1
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 09:15:13 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration

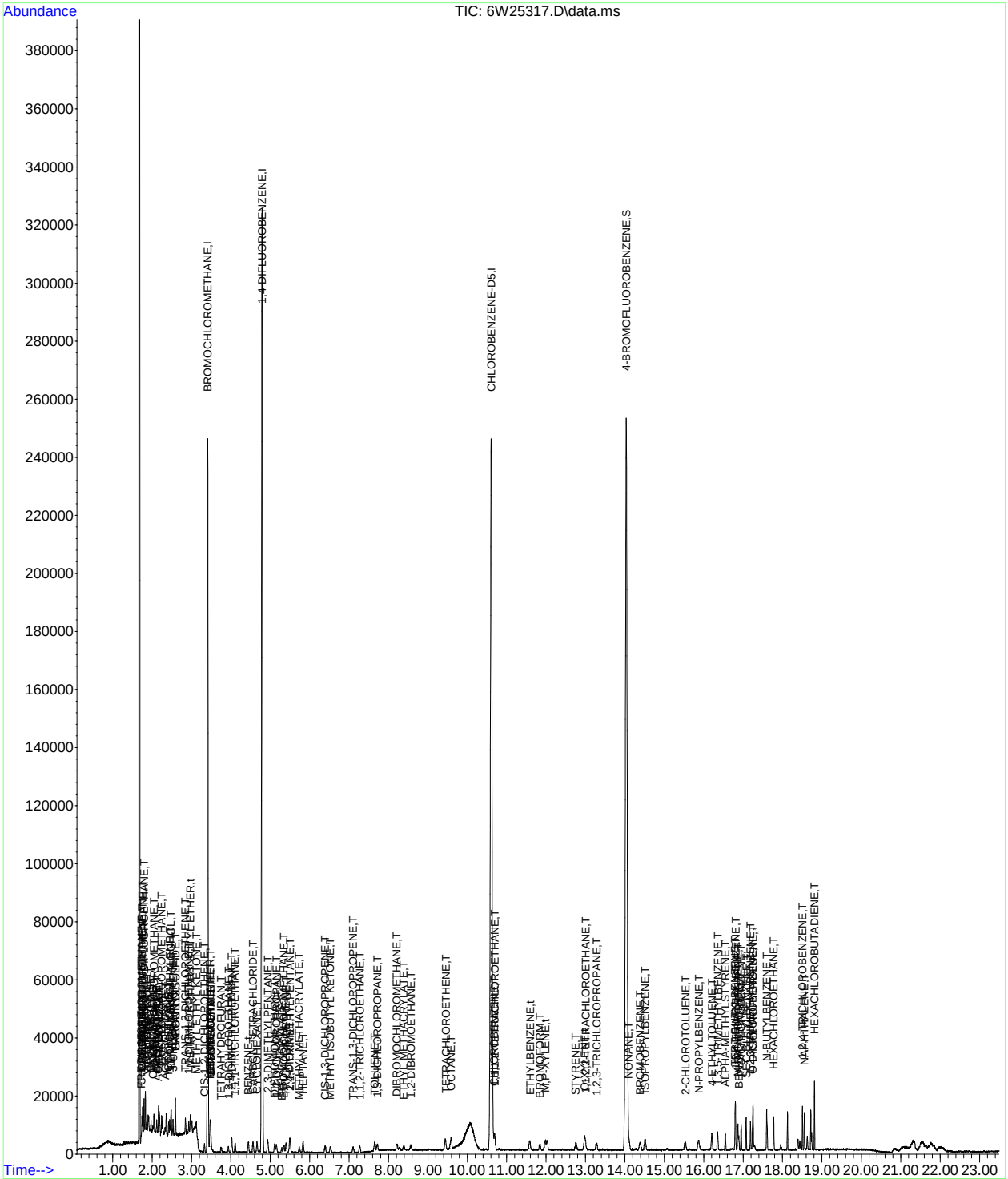
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
66)	TOLUENE	7.647	91	3067	0.11	PPBV		98
67)	1,3-DICHLOROPROPANE	7.718	76	1562	0.12	PPBV	#	49
68)	TRANS-1,3-DICHLOROPROPENE	7.097	75	1334	0.11	PPBV	#	44
69)	1,1,2-TRICHLOROETHANE	7.277	83	870	0.11	PPBV	#	68
71)	ETHYL METHACRYLATE	8.377	69	959	0.07	PPBV	#	49
72)	TETRACHLOROETHENE	9.454	164	1137	0.11	PPBV	#	83
73)	DIBROMOCHLOROMETHANE	8.206	129	1536	0.10	PPBV	#	85
74)	1,2-DIBROMOETHANE	8.573	107	1668	0.11	PPBV	#	98
75)	OCTANE	9.586	43	2483	0.14	PPBV	#	79
77)	1,1,1,2-TETRACHLOROETHANE	10.695	131	1189	0.10	PPBV	#	88
78)	CHLOROBENZENE	10.682	112	2608	0.12	PPBV		99
79)	ETHYLBENZENE	11.598	91	4009	0.11	PPBV		96
80)	M,P-XYLENE	11.984	91	6035	0.22	PPBV	#	60
81)	O-XYLENE	12.975	91	3125	0.11	PPBV	#	85
82)	STYRENE	12.750	104	2073	0.10	PPBV		96
83)	NONANE	14.090	43	2407	0.13	PPBV	#	53
84)	BROMOFORM	11.840	173	1339	0.09	PPBV	#	92
85)	1,1,2,2-TETRACHLOROETHANE	13.004	83	2386	0.11	PPBV	#	95
86)	1,2,3-TRICHLOROPROPANE	13.286	75	1809m	0.11	PPBV		
88)	ISOPROPYLBENZENE	14.508	120	1085	0.10	PPBV		91
89)	BROMOBENZENE	14.383	77	2357	0.12	PPBV		88
90)	2-CHLOROTOLUENE	15.537	126	995	0.10	PPBV	#	42
91)	N-PROPYLBENZENE	15.875	120	1190	0.11	PPBV	#	62
92)	4-ETHYLTOLUENE	16.206	105	4187	0.10	PPBV	#	97
93)	1,3,5-TRIMETHYLBENZENE	16.354	105	3498	0.10	PPBV	#	92
94)	ALPHA-METHYLSTYRENE	16.550	118	1426	0.08	PPBV		96
95)	TERT-BUTYLBENZENE	16.794	134	884	0.11	PPBV		75
96)	1,2,4-TRIMETHYLBENZENE	16.810	105	3604	0.10	PPBV		92
97)	BENZYL CHLORIDE	16.891	91	2438	0.08	PPBV	#	60
98)	M-DICHLOROBENZENE	16.868	146	2734	0.11	PPBV		94
99)	P-DICHLOROBENZENE	16.949	146	2477	0.10	PPBV		99
100)	O-DICHLOROBENZENE	17.238	146	2479	0.11	PPBV		97
101)	SEC-BUTYLBENZENE	17.081	134	1120	0.11	PPBV		94
102)	1,2,3-TRIMETHYLBENZENE	17.187	105	3512	0.10	PPBV	#	91
103)	P-ISOPROPYLTOLUENE	17.254	134	1163	0.10	PPBV		97
104)	N-BUTYLBENZENE	17.598	134	1163	0.10	PPBV		90
105)	HEXACHLOROETHANE	17.778	117	1220	0.09	PPBV		93
106)	HEXACHLOROBUTADIENE	18.810	225	2111	0.12	PPBV		96
107)	1,2,4-TRICHLOROBENZENE	18.505	180	2285	0.10	PPBV		98
108)	NAPHTHALENE	18.556	128	5603	0.09	PPBV		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W25317.D
Acq On : 4 Aug 2022 6:39 pm
Operator : thomash
Sample : ic1077-0.1
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 09:15:13 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration



Manual Integration Approval Summary

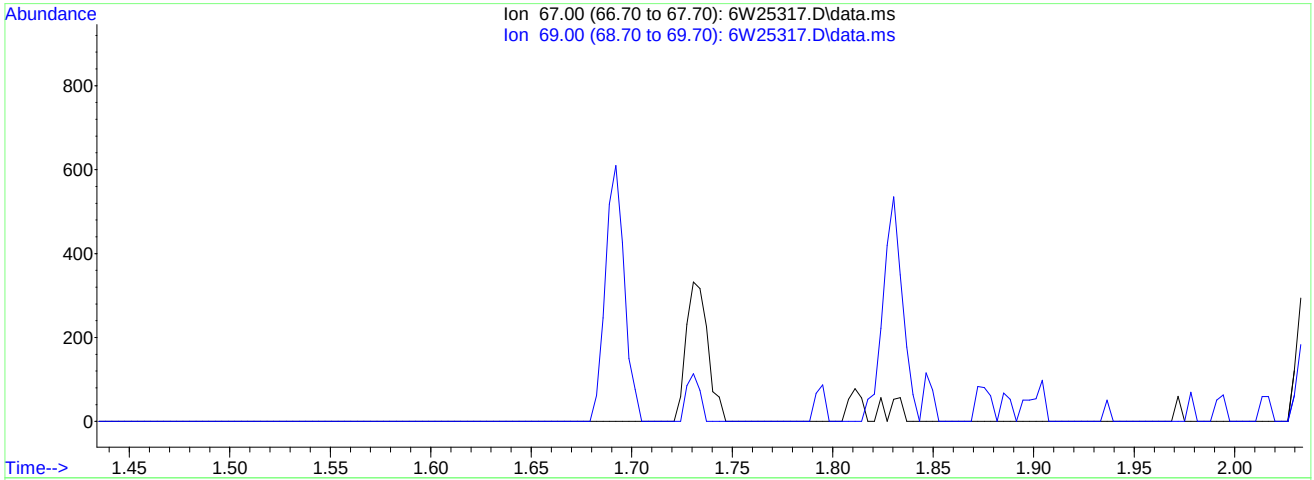
Sample Number: V6W1077-IC1077 **Method:** TO-15
Lab FileID: 6W25317.D **Analyst approved:** 08/05/22 10:02 Thomas Hilbig
Injection Time: 08/04/22 18:39 **Supervisor approved:** 08/08/22 10:23 Kanya Veerawat

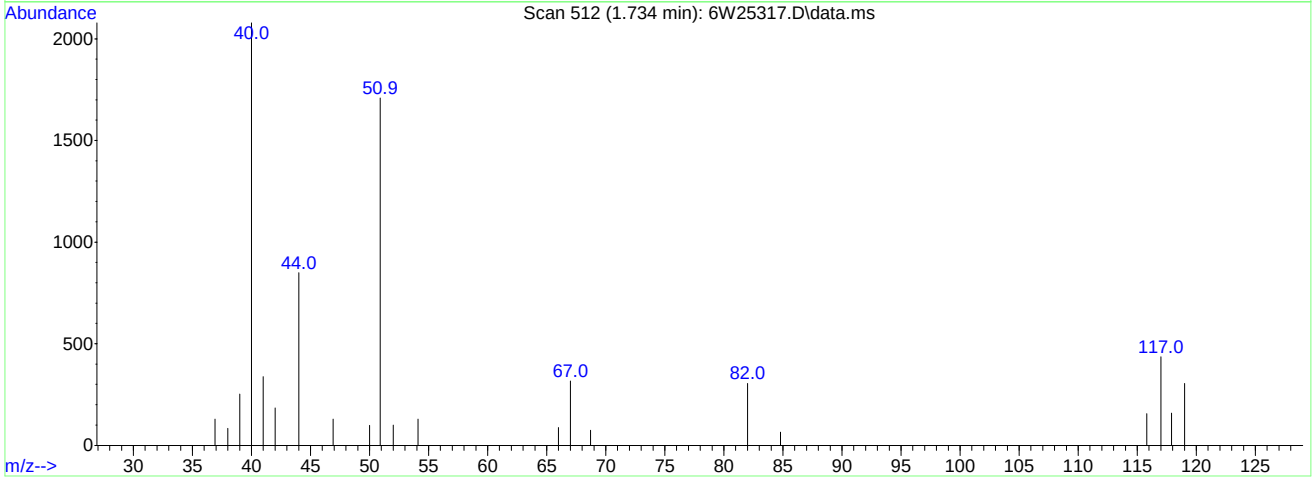
Parameter	CAS	Sig#	R.T. (min.)	Reason
Chlorodifluoromethane	75-45-6		1.73	Missed peak
Dichlorodifluoromethane	75-71-8		1.76	Overlapping peak
Acrolein	107-02-8		2.15	Missed peak
Di-Isopropyl ether	108-20-3		3.48	Missed peak
Ethyl Acetate	141-78-6		3.48	Missed peak
Tetrahydrofuran	109-99-9		3.75	Missed peak
1,4-Dioxane	123-91-1		5.49	Missed peak
1,2,3-Trichloropropane	96-18-4		13.29	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25317.D
Acq On : 4 Aug 2022 6:39 pm
Operator : thomash
Sample : ic1077-0.1
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 08:26:40 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration





TIC: 6W25317.D\data.ms

(4) CHLORODIFLUOROMETHANE (T)

1.734min (-1.734) 0.00PPBV

response 0

Ion	Exp%	Act%
67.00	100	0.00
69.00	36.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

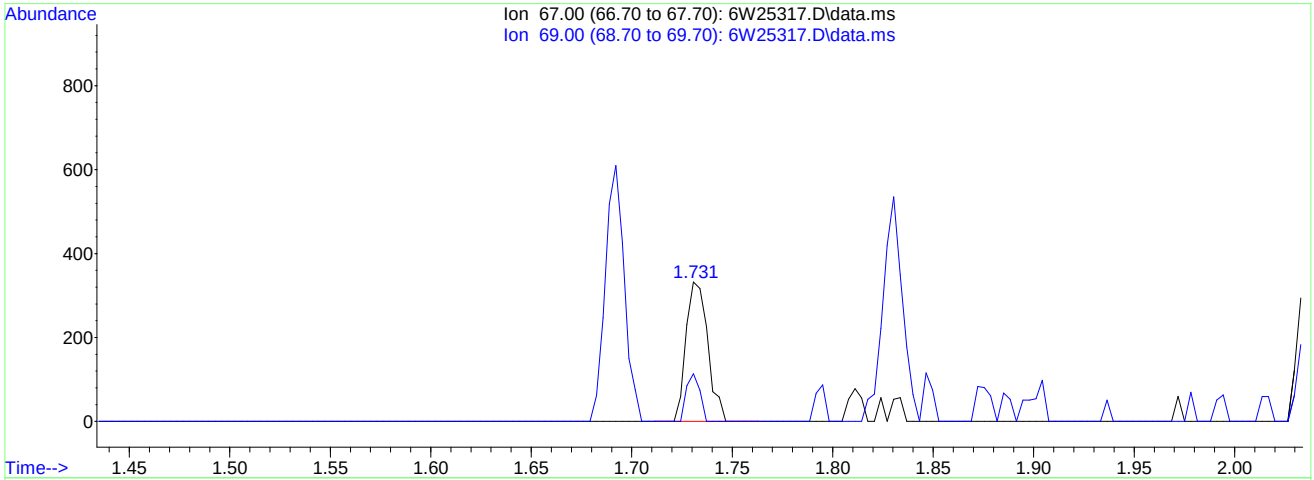
6W25317.D edits: CHLORODIFLUOROMETHANE

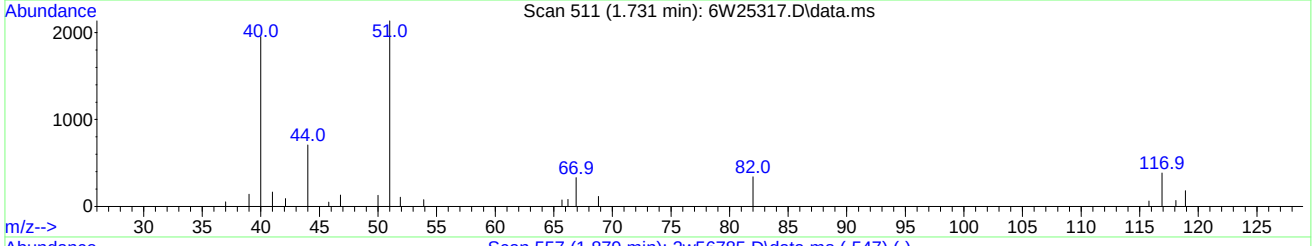
JD54338

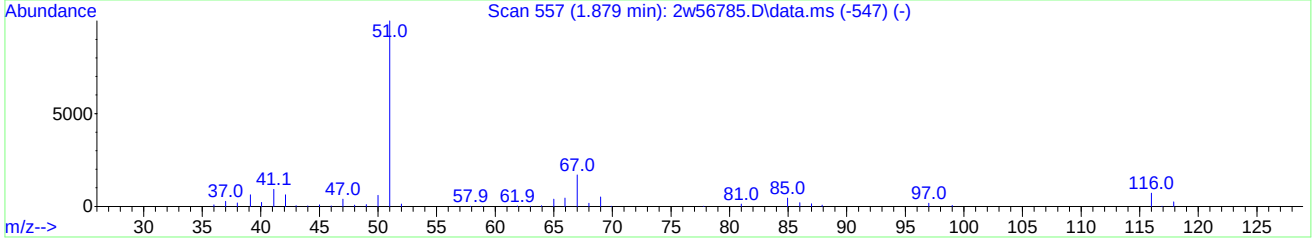
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25317.D
Acq On : 4 Aug 2022 6:39 pm
Operator : thomash
Sample : ic1077-0.1
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 08:26:40 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration







TIC: 6W25317.D\data.ms

(4) CHLORODIFLUOROMETHANE (T)

1.731min (-0.003) 0.15PPBV m

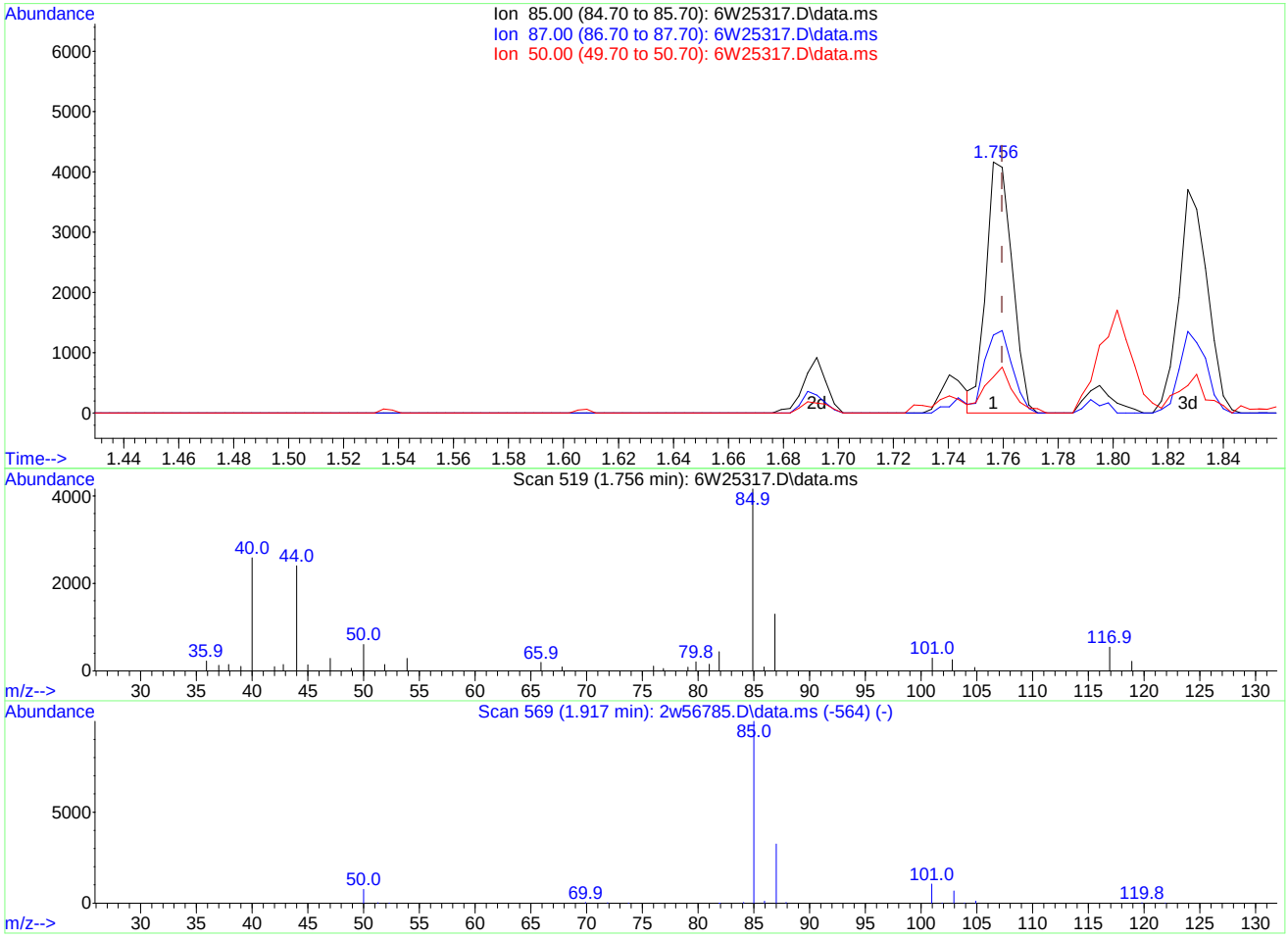
response 250

Ion	Exp%	Act%
67.00	100	100
69.00	36.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25317.D
Acq On : 4 Aug 2022 6:39 pm
Operator : thomash
Sample : ic1077-0.1
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 08:26:40 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration



TIC: 6W25317.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.756min (-0.003) 0.13PPBV m

response 2771

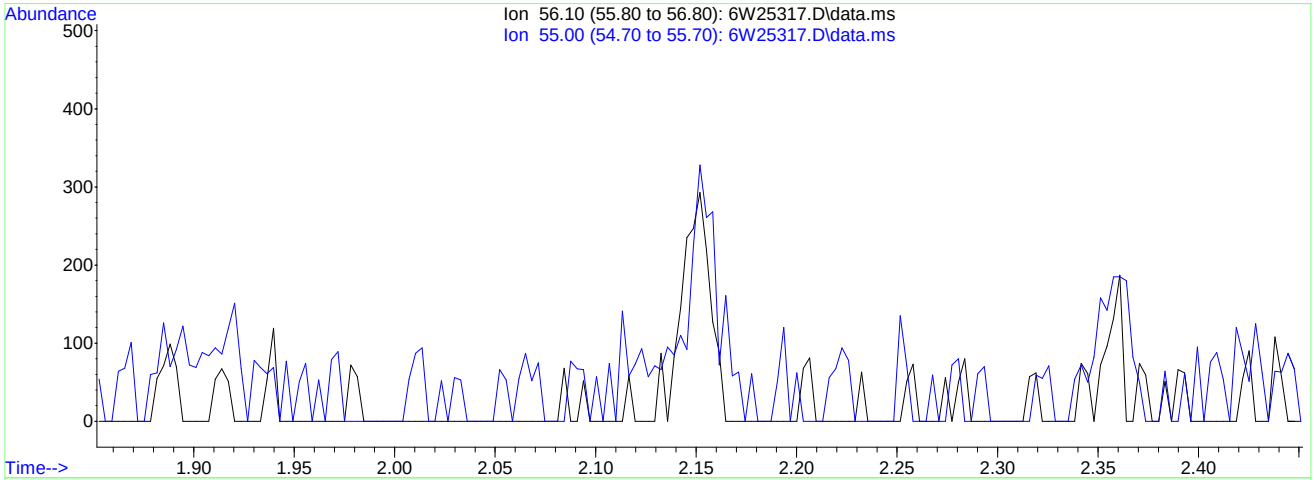
Ion	Exp%	Act%
85.00	100	100
87.00	32.20	38.79#
50.00	9.30	27.64#
0.00	0.00	0.00

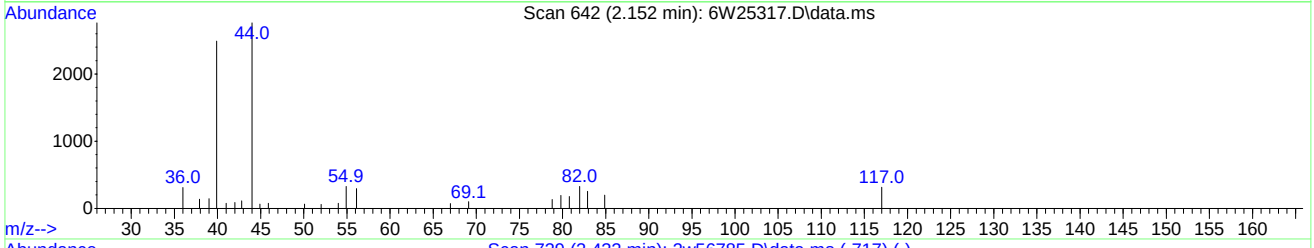
6W25317.D edits: DICHLORODIFLUOROMETHANE

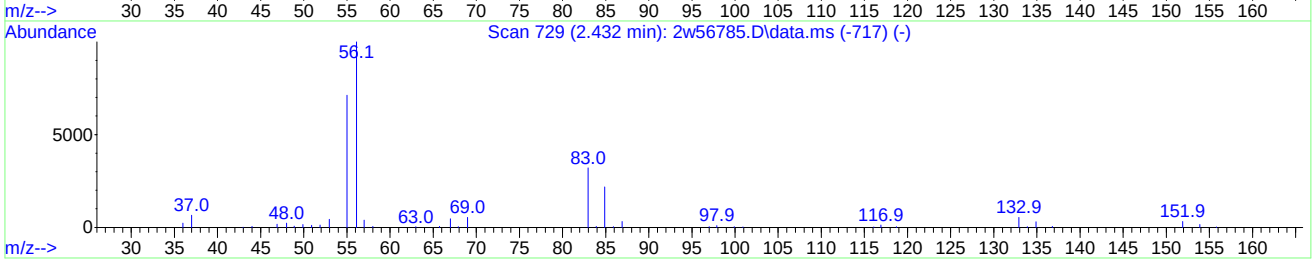
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25317.D
Acq On : 4 Aug 2022 6:39 pm
Operator : thomash
Sample : ic1077-0.1
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 08:26:40 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration







TIC: 6W25317.D\data.ms

(18) ACROLEIN (T)

2.152min (-2.152) 0.00PPBV

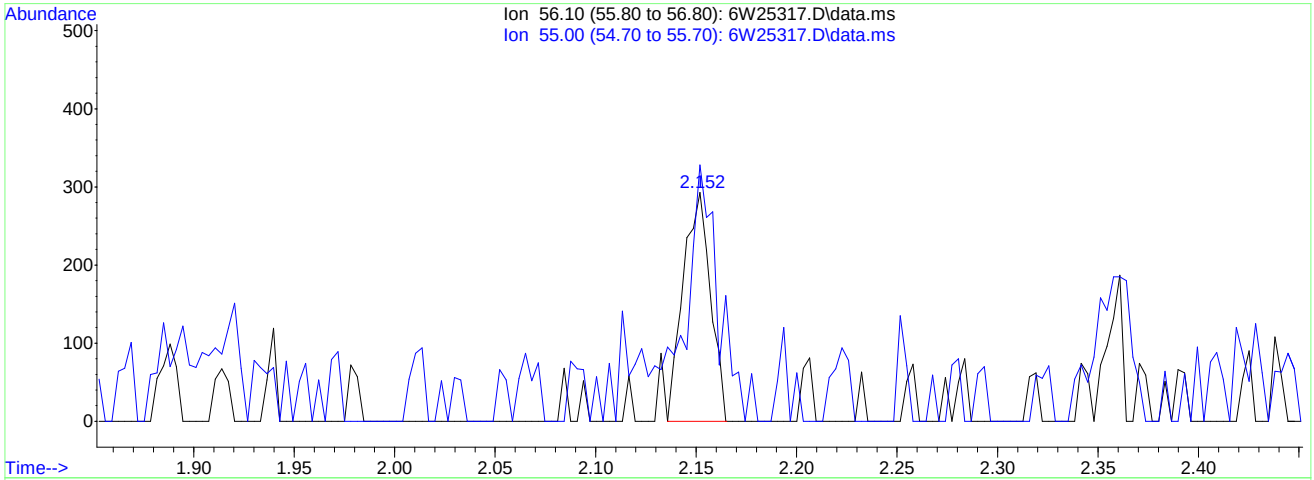
response 0

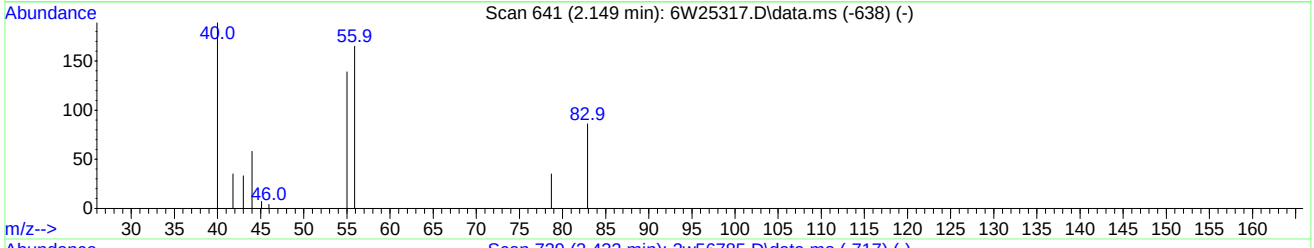
Ion	Exp%	Act%
56.10	100	0.00
55.00	70.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

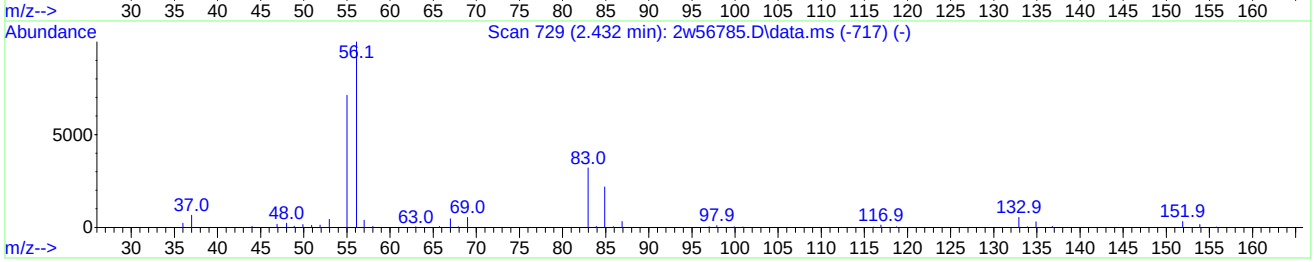
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25317.D
Acq On : 4 Aug 2022 6:39 pm
Operator : thomash
Sample : ic1077-0.1
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 08:26:40 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration







TIC: 6W25317.D\data.ms

(18) ACROLEIN (T)

2.152min (+0.000) 0.09PPBV m

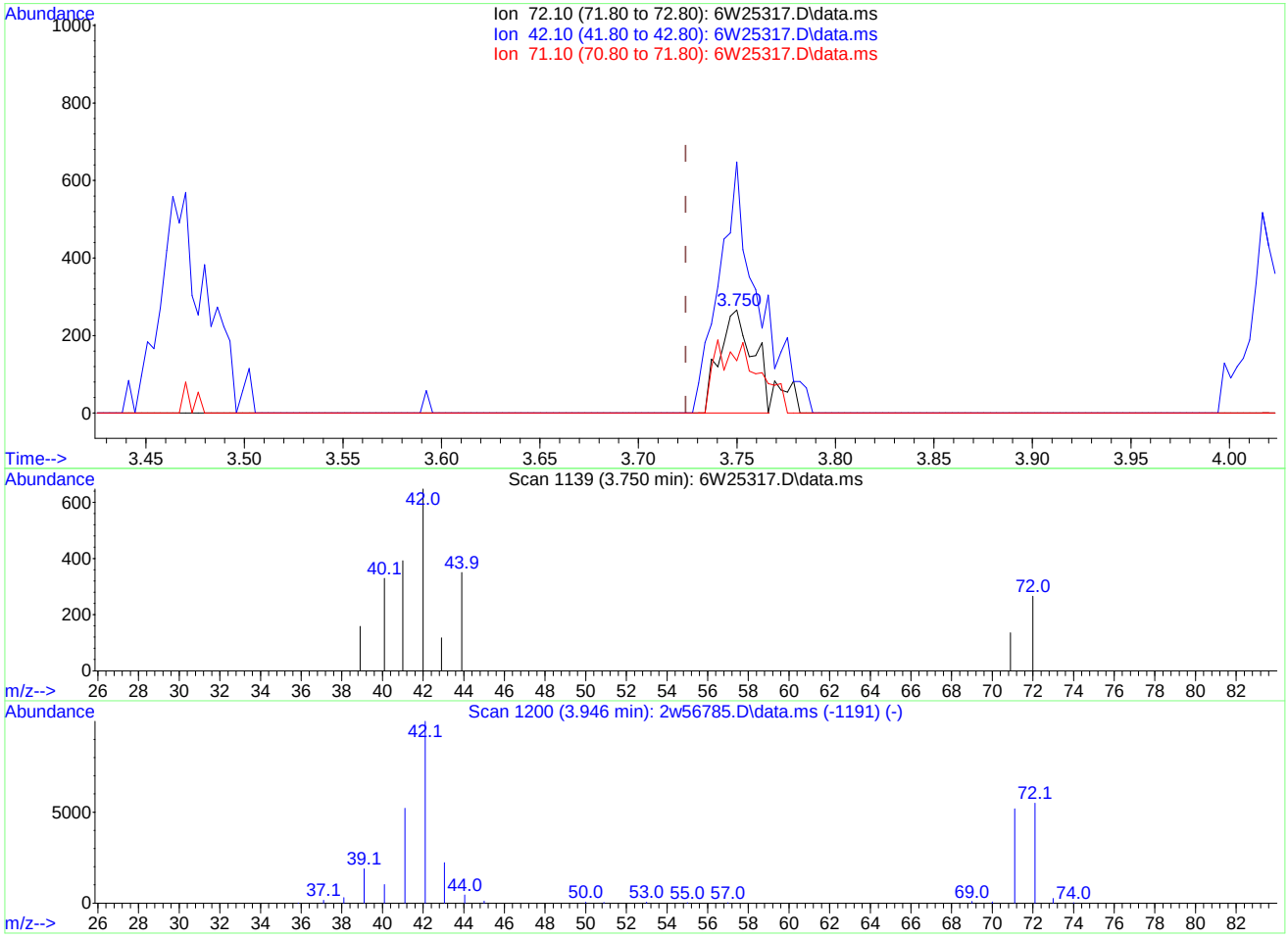
response 277

Ion	Exp%	Act%
56.10	100	100
55.00	70.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25317.D
Acq On : 4 Aug 2022 6:39 pm
Operator : thomash
Sample : ic1077-0.1
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 08:26:40 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration



TIC: 6W25317.D\data.ms

(37) TETRAHYDROFURAN (T)

3.750min (+0.026) 0.09PPBV m

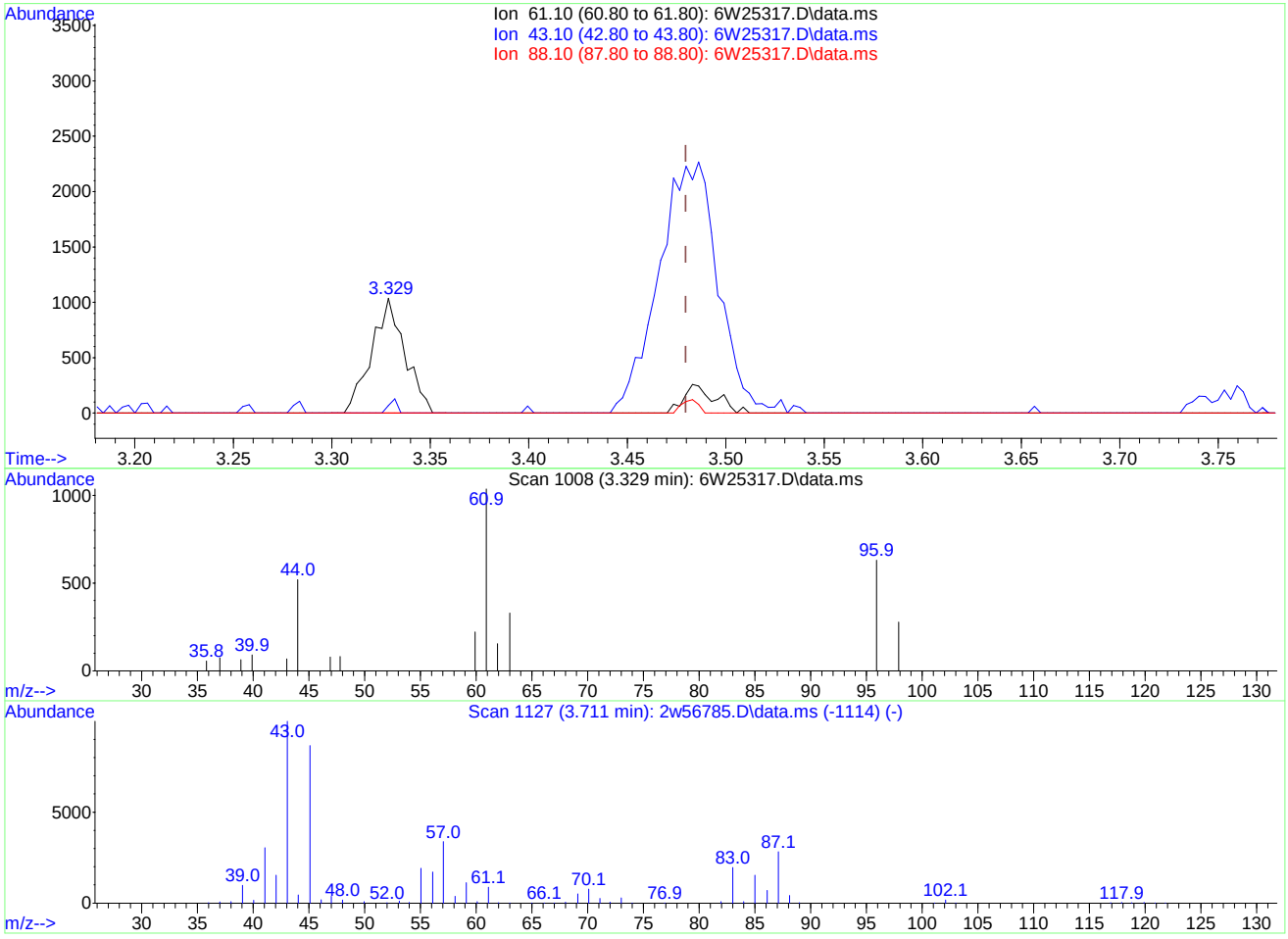
response 314

Ion	Exp%	Act%
72.10	100	100
42.10	186.30	0.00#
71.10	93.10	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25317.D
Acq On : 4 Aug 2022 6:39 pm
Operator : thomash
Sample : ic1077-0.1
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 08:26:40 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration



TIC: 6W25317.D\data.ms

(44) ETHYL ACETATE (T)

3.329min (-0.151) 0.49PPBV

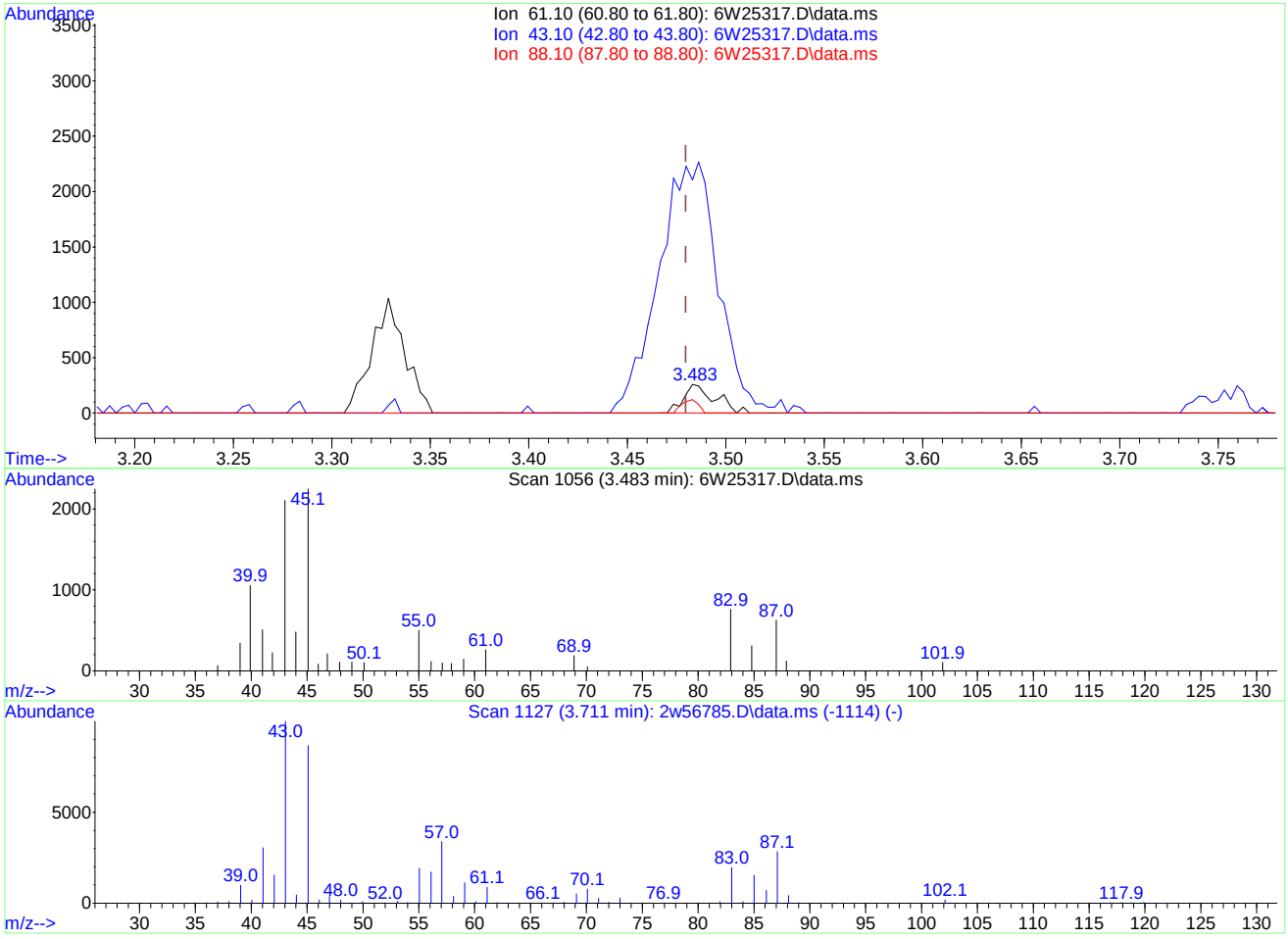
response 1217

Ion	Exp%	Act%
61.10	100	100
43.10	1232.70	0.00#
88.10	48.50	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25317.D
Acq On : 4 Aug 2022 6:39 pm
Operator : thomash
Sample : ic1077-0.1
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 08:26:40 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration



TIC: 6W25317.D\data.ms

(44) ETHYL ACETATE (T)

3.483min (+0.003) 0.11PPBV m

response 277

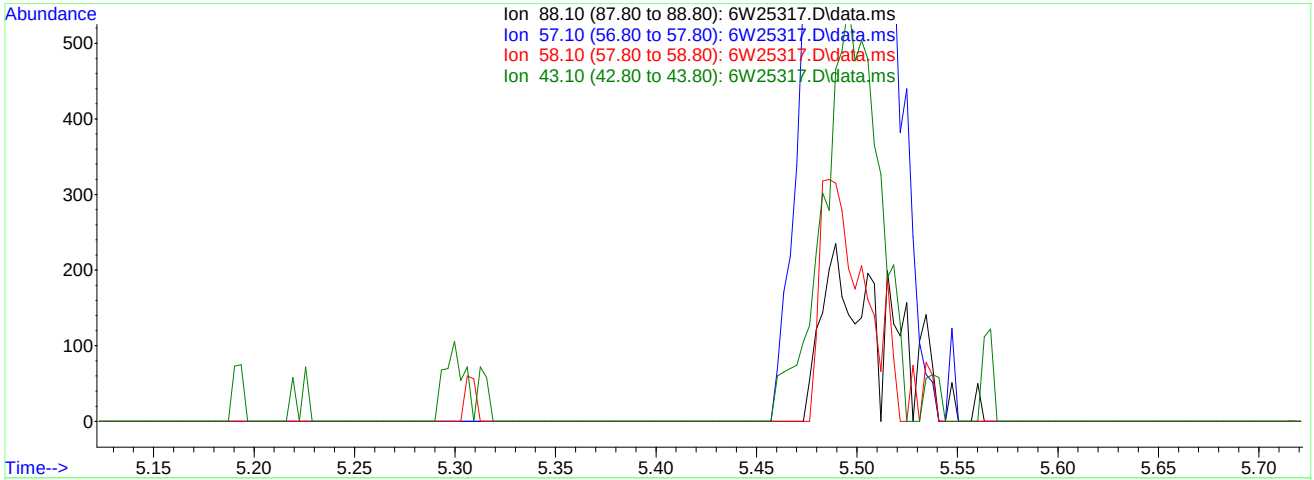
Ion	Exp%	Act%
61.10	100	100
43.10	1232.70	0.00#
88.10	48.50	0.00#
0.00	0.00	0.00

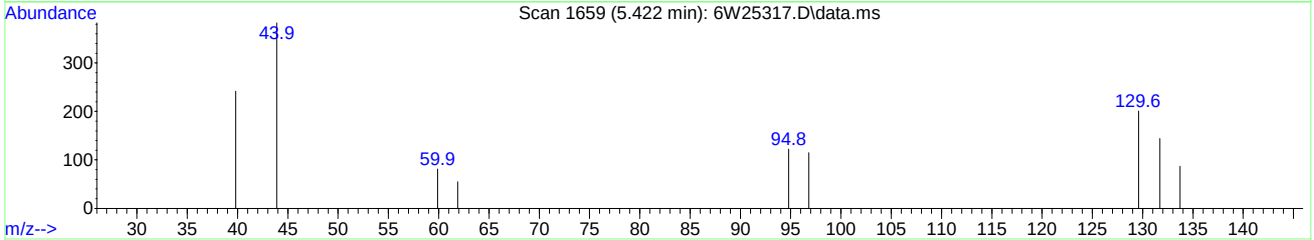
6W25317.D edits: ETHYL ACETATE

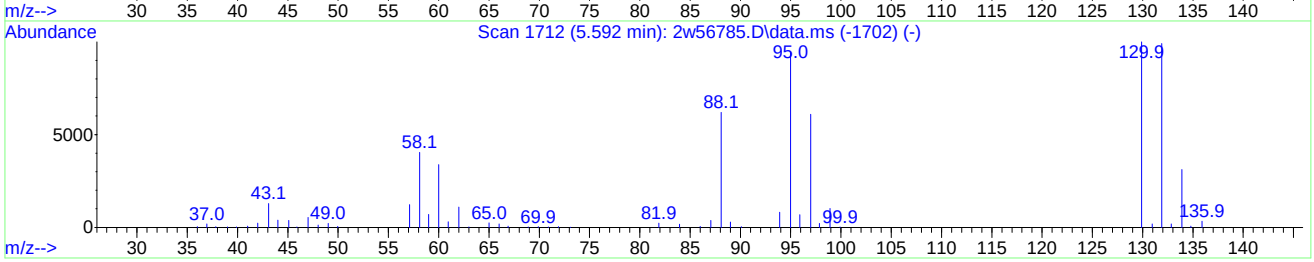
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25317.D
Acq On : 4 Aug 2022 6:39 pm
Operator : thomash
Sample : ic1077-0.1
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 08:26:40 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration







TIC: 6W25317.D\data.ms

(61) 1,4-DIOXANE (T)

5.422min (-5.422) 0.00PPBV

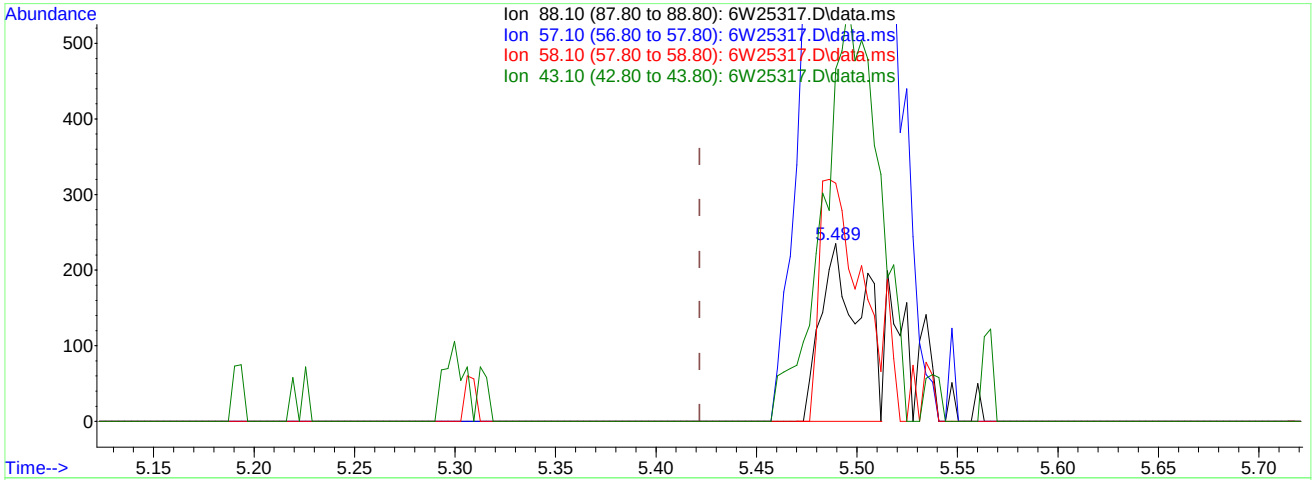
response 0

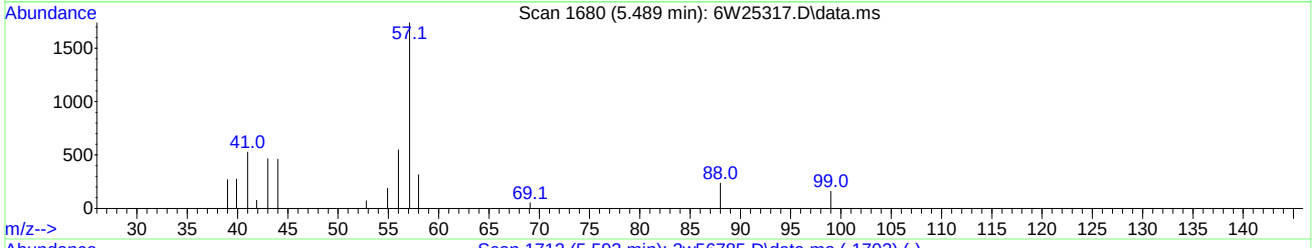
Ion	Exp%	Act%
88.10	100	0.00
57.10	18.70	0.00#
58.10	62.60	0.00#
43.10	19.20	0.00#

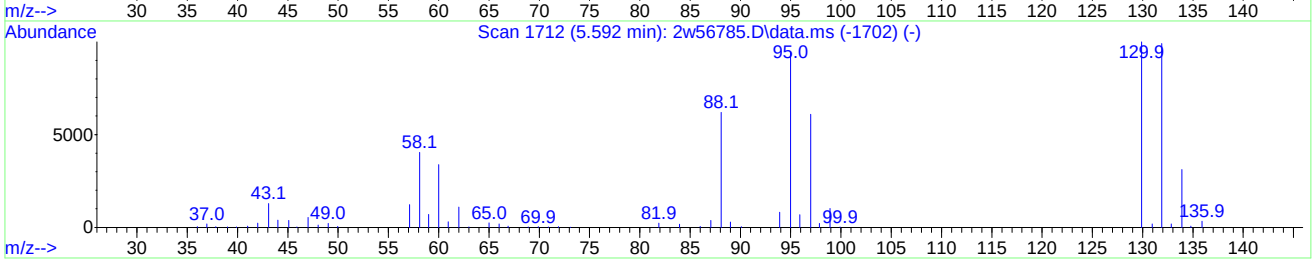
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25317.D
Acq On : 4 Aug 2022 6:39 pm
Operator : thomash
Sample : ic1077-0.1
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 08:26:40 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration







TIC: 6W25317.D\data.ms

(61) 1,4-DIOXANE (T)

5.489min (+0.068) 0.06PPBV m

response 329

Ion	Exp%	Act%
88.10	100	100
57.10	18.70	0.00#
58.10	62.60	0.00#
43.10	19.20	0.00#

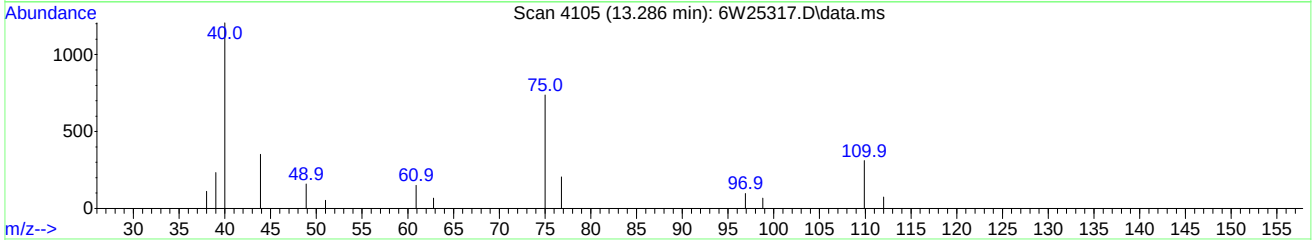
6W25317.D edits: 1,4-DIOXANE

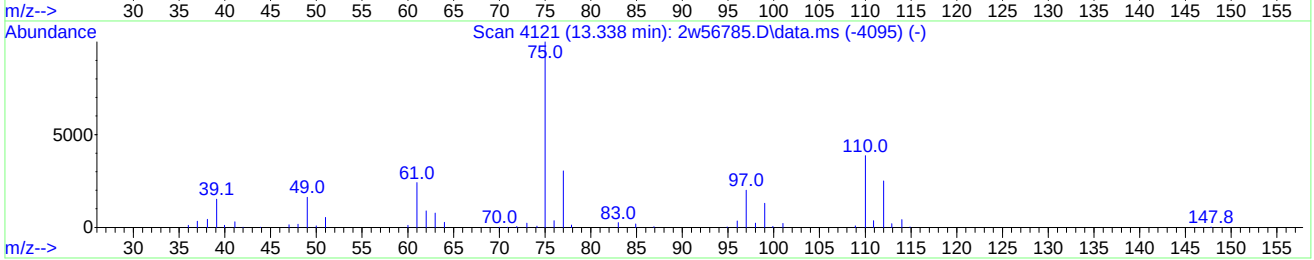
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25317.D
Acq On : 4 Aug 2022 6:39 pm
Operator : thomash
Sample : ic1077-0.1
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 08:26:40 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration







TIC: 6W25317.D\data.ms

(86) 1,2,3-TRICHLOROPROPANE (T)

13.286min (+0.003) 0.11PPBV m

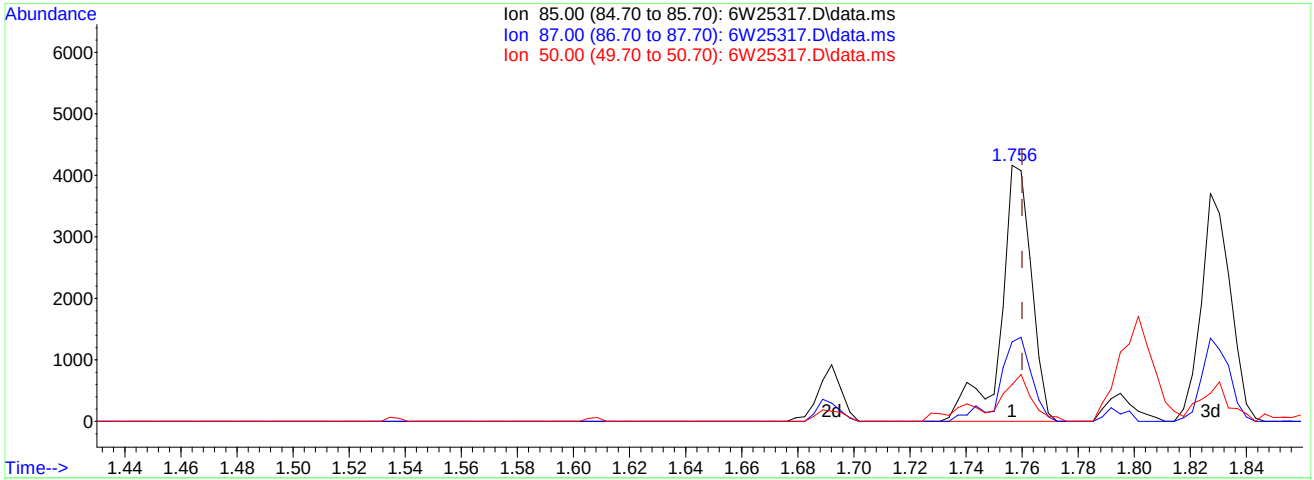
response 1809

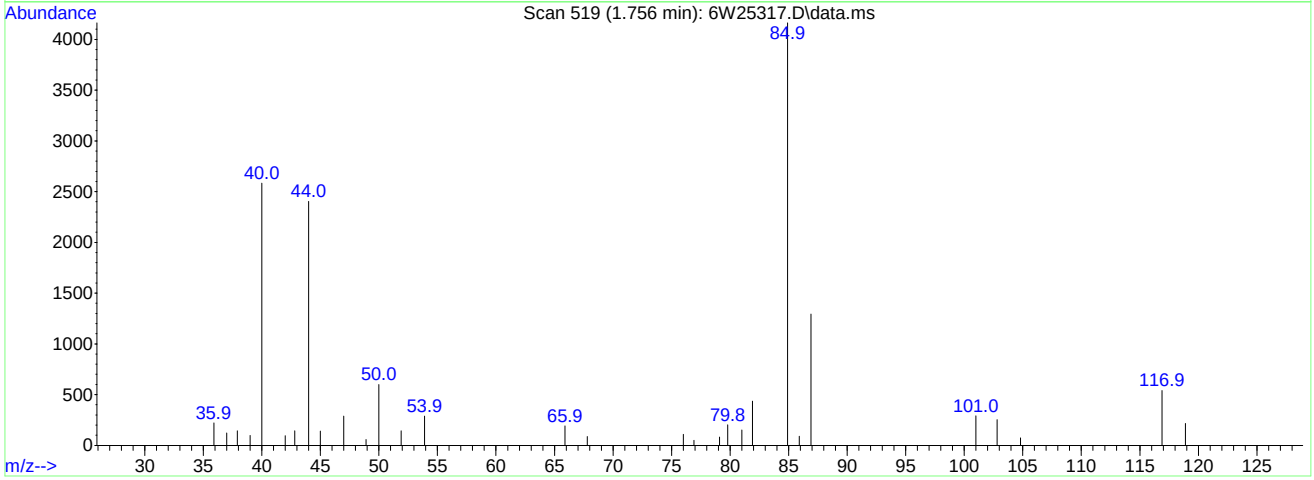
Ion	Exp%	Act%
75.00	100	100
99.90	0.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\Raw Data\
Data File : 6W25317.D
Acq On : 4 Aug 2022 6:39 pm
Operator : thomash
Sample : ic1077-0.1
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 09:46:27 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 05 08:58:59 2022
Response via : Initial Calibration





TIC: 6W25317.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.756min (-0.004) 0.15PPBV

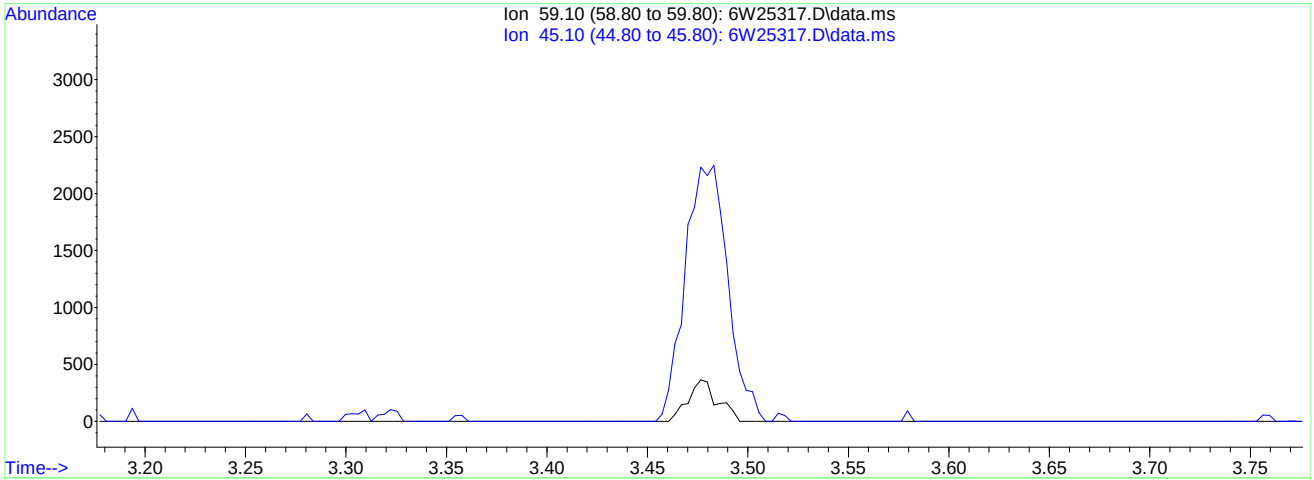
response 3145

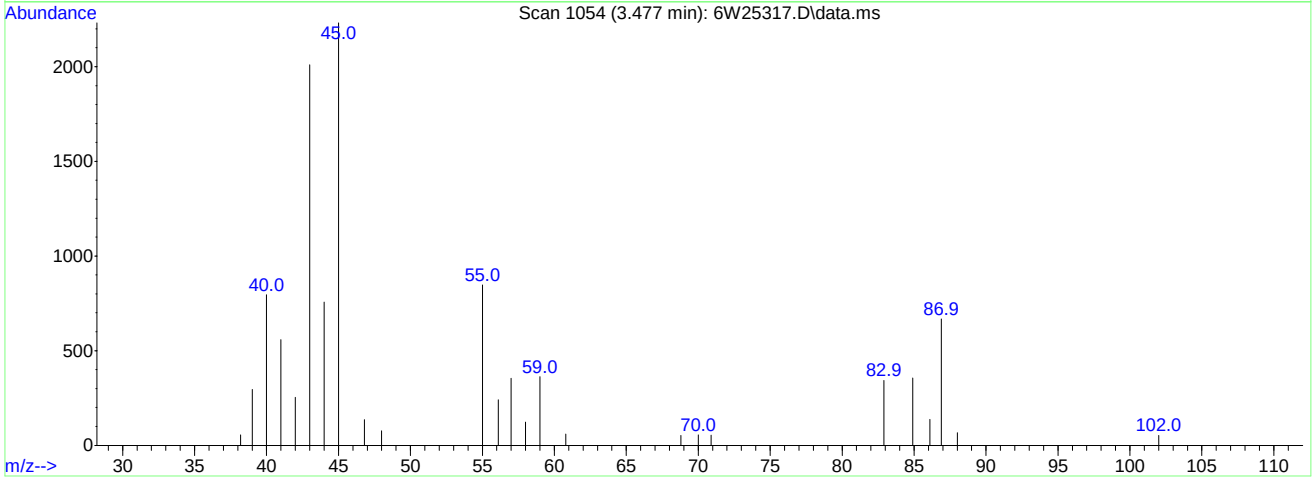
Ion	Exp%	Act%
85.00	100	100
87.00	32.20	34.18
50.00	9.30	24.36#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\Raw Data\
Data File : 6W25317.D
Acq On : 4 Aug 2022 6:39 pm
Operator : thomash
Sample : ic1077-0.1
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 09:46:27 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 05 08:58:59 2022
Response via : Initial Calibration





TIC: 6W25317.D\data.ms

(43) DIISOPROPYL ETHER (T)

3.476min (-3.476) 0.00PPBV

response 0

Ion	Exp%	Act%
59.10	100	0.00
45.10	674.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

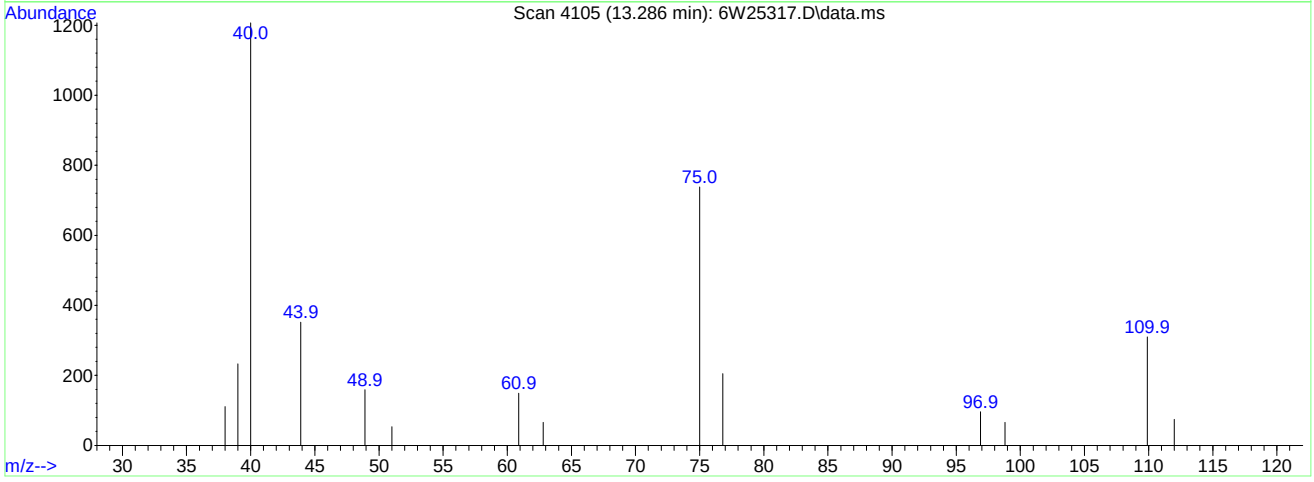
6W25317.D edits: DIISOPROPYL ETHER

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\Raw Data\
Data File : 6W25317.D
Acq On : 4 Aug 2022 6:39 pm
Operator : thomash
Sample : ic1077-0.1
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 09:46:27 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 05 08:58:59 2022
Response via : Initial Calibration





TIC: 6W25317.D\data.ms

(86) 1,2,3-TRICHLOROPROPANE (T)

13.286min (+0.003) 0.05PPBV

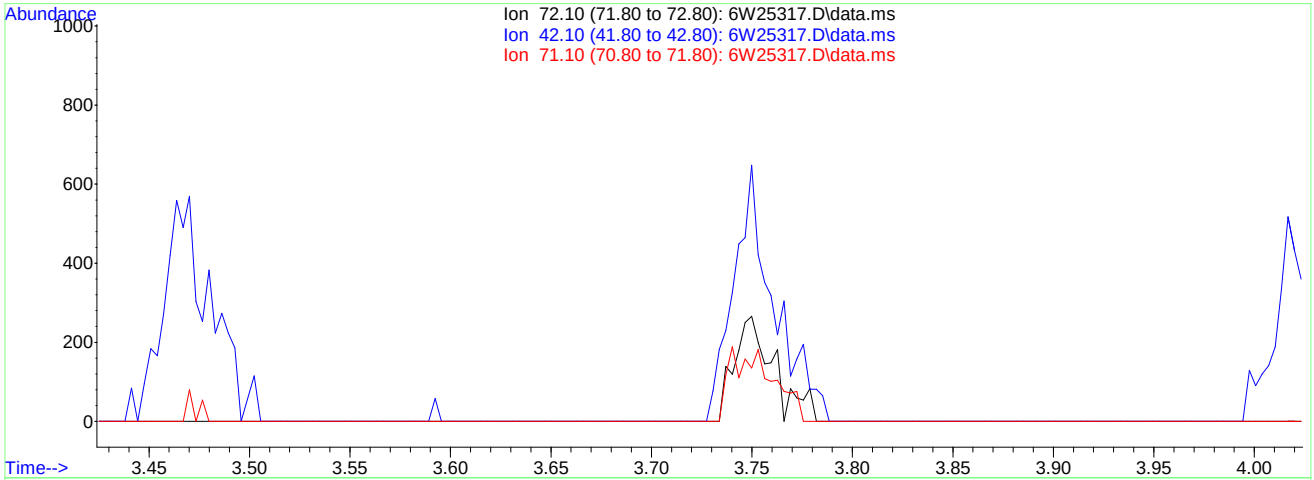
response 858

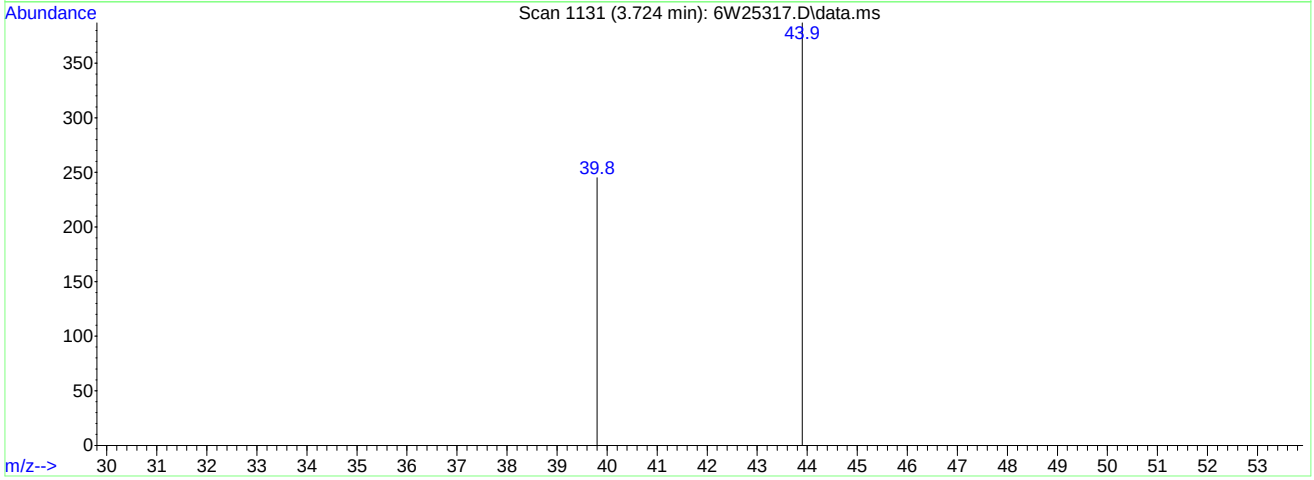
Ion	Exp%	Act%
75.00	100	100
99.90	0.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\Raw Data\
Data File : 6W25317.D
Acq On : 4 Aug 2022 6:39 pm
Operator : thomash
Sample : ic1077-0.1
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 09:46:27 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 05 08:58:59 2022
Response via : Initial Calibration





TIC: 6W25317.D\data.ms

(37) TETRAHYDROFURAN (T)

3.724min (-3.724) 0.00PPBV

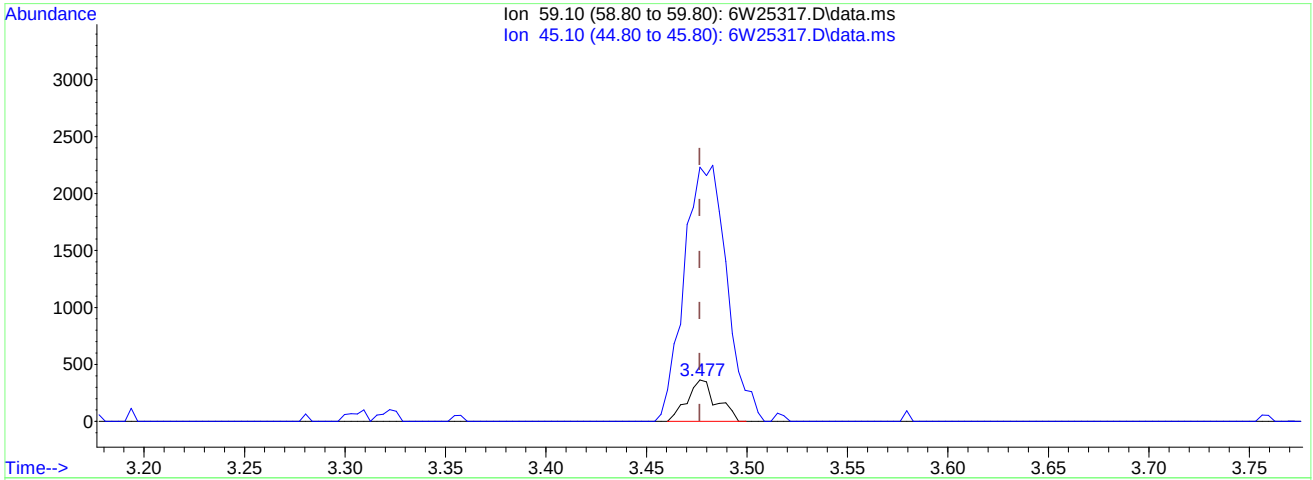
response 0

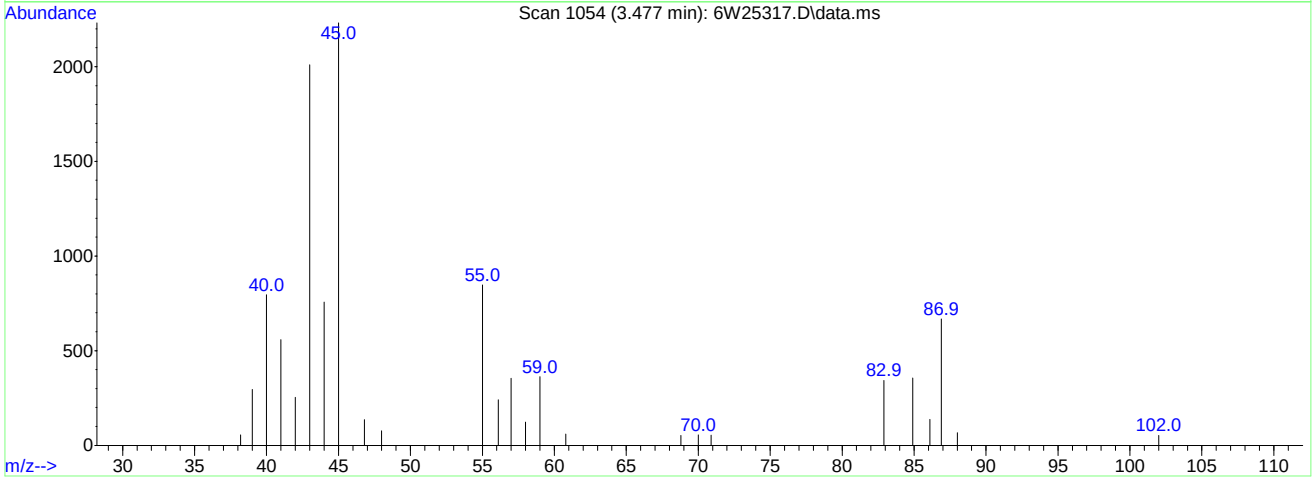
Ion	Exp%	Act%
72.10	100	0.00
42.10	186.30	0.00#
71.10	93.10	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25317.D
Acq On : 4 Aug 2022 6:39 pm
Operator : thomash
Sample : ic1077-0.1
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 09:15:13 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration





TIC: 6W25317.D\data.ms

(43) DIISOPROPYL ETHER (T)

3.477min (+0.000) 0.11PPBV m

response 371

Ion	Exp%	Act%
59.10	100	100
45.10	674.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/08/22 10:23

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W25318.D
Acq On : 4 Aug 2022 7:25 pm
Operator : thomash
Sample : ic1077-0.2
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 08:35:37 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.412	128	46693	10.00	PPBV	#	0.00
52) 1,4-DIFLUOROBENZENE	4.792	114	249711	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	10.605	117	219091	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	14.036	95	150733	9.81	PPBV		0.00
Target Compounds							Qvalue
3) FREON 152A	1.721	65	886	0.23	PPBV	#	53
4) CHLORODIFLUOROMETHANE	1.734	67	419m	0.24	PPBV		
5) CHLOROTRIFLUOROETHENE	1.743	116	1857	0.20	PPBV	#	90
6) DICHLORODIFLUOROMETHANE	1.760	85	5457	0.25	PPBV	#	91
7) PROPYLENE	1.743	41	1472	0.28	PPBV		91
8) 1-CHLORO-1,1-DIFLUOROE...	1.795	65	4833	0.24	PPBV	#	52
9) FREON 114	1.830	85	4816	0.22	PPBV		96
10) CHLOROMETHANE	1.801	52	653	0.27	PPBV		94
11) VINYL CHLORIDE	1.859	62	2228	0.26	PPBV	#	91
12) 1,3-BUTADIENE	1.898	54	1904	0.28	PPBV	#	71
13) N-BUTANE	1.914	43	3543	0.28	PPBV	#	76
14) BROMOMETHANE	1.972	94	1728	0.23	PPBV	#	94
15) CHLOROETHANE	2.020	64	1166	0.26	PPBV	#	43
16) DICHLOROFLUOROMETHANE	2.046	67	4495	0.24	PPBV	#	92
17) ACETONITRILE	2.113	41	2566	0.34	PPBV	#	79
18) ACROLEIN	2.155	56	648	0.20	PPBV	#	15
19) FREON 123	2.165	83	4249	0.22	PPBV		98
20) FREON 123A	2.184	117	2516	0.24	PPBV	#	72
21) TRICHLOROFLUOROMETHANE	2.245	101	4827	0.21	PPBV		96
22) ISOPROPYL ALCOHOL	2.268	45	5398	0.29	PPBV	#	91
23) ACETONE	2.194	58	1619	0.33	PPBV	#	67
24) PENTANE	2.358	42	2684	0.29	PPBV	#	86
25) IODOMETHANE	2.419	142	4510	0.21	PPBV	#	82
26) 1,1-DICHLOROETHYLENE	2.448	96	1702	0.21	PPBV	#	46
27) CARBON DISULFIDE	2.589	76	5459	0.22	PPBV	#	71
29) BROMOETHENE	2.116	106	1586	0.20	PPBV	#	86
30) ACRYLONITRILE	2.332	52	1596	0.25	PPBV	#	95
31) METHYLENE CHLORIDE	2.489	84	2304	0.31	PPBV	#	41
32) 3-CHLOROPROPENE	2.531	76	1114	0.27	PPBV	#	1
33) FREON 113	2.592	151	3002	0.21	PPBV		87
34) TRANS-1,2-DICHLOROETHENE	2.846	96	1997	0.23	PPBV	#	76
35) TERTIARY BUTYL ALCOHOL	2.473	59	4851	0.23	PPBV	#	91
36) METHYL TERTIARY BUTYL ...	2.975	73	5792	0.22	PPBV	#	88
37) TETRAHYDROFURAN	3.747	72	673	0.19	PPBV	#	53
38) HEXANE	3.467	57	2682	0.23	PPBV	#	79
39) VINYL ACETATE	3.007	86	554	0.23	PPBV	#	1
40) 1,1-DICHLOROETHANE	2.930	63	3732	0.23	PPBV		98
41) METHYL ETHYL KETONE	3.123	72	972	0.21	PPBV	#	1
42) CIS-1,2-DICHLOROETHENE	3.332	96	1614	0.21	PPBV		86
43) DIISOPROPYL ETHER	3.483	59	806	0.23	PPBV		73
44) ETHYL ACETATE	3.493	61	471m	0.18	PPBV		
45) METHYL ACRYLATE	3.467	55	3029	0.20	PPBV	#	65
46) CHLOROFORM	3.493	83	3336	0.22	PPBV	#	95
47) 2,4-DIMETHYLPENTANE	4.023	57	3204	0.24	PPBV	#	92
48) 1,1,1-TRICHLOROETHANE	4.110	97	3158	0.21	PPBV		94
49) CARBON TETRACHLORIDE	4.560	117	3200	0.21	PPBV		97
50) 1,2-DICHLOROETHANE	3.939	62	2389	0.23	PPBV	#	87
51) BENZENE	4.441	78	4876	0.22	PPBV		85
53) CYCLOHEXANE	4.669	84	1884	0.19	PPBV	#	68
54) 2,3-DIMETHYLPENTANE	4.939	71	1004	0.20	PPBV	#	56
55) TRICHLOROETHENE	5.406	95	2151	0.21	PPBV		96
56) 1,2-DICHLOROPROPANE	5.152	63	1788	0.21	PPBV		92
57) DIBROMOMETHANE	5.113	174	2180	0.24	PPBV		87
58) ETHYL ACRYLATE	5.293	55	3295	0.18	PPBV	#	73

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W25318.D
Acq On : 4 Aug 2022 7:25 pm
Operator : thomash
Sample : ic1077-0.2
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 08:35:37 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration

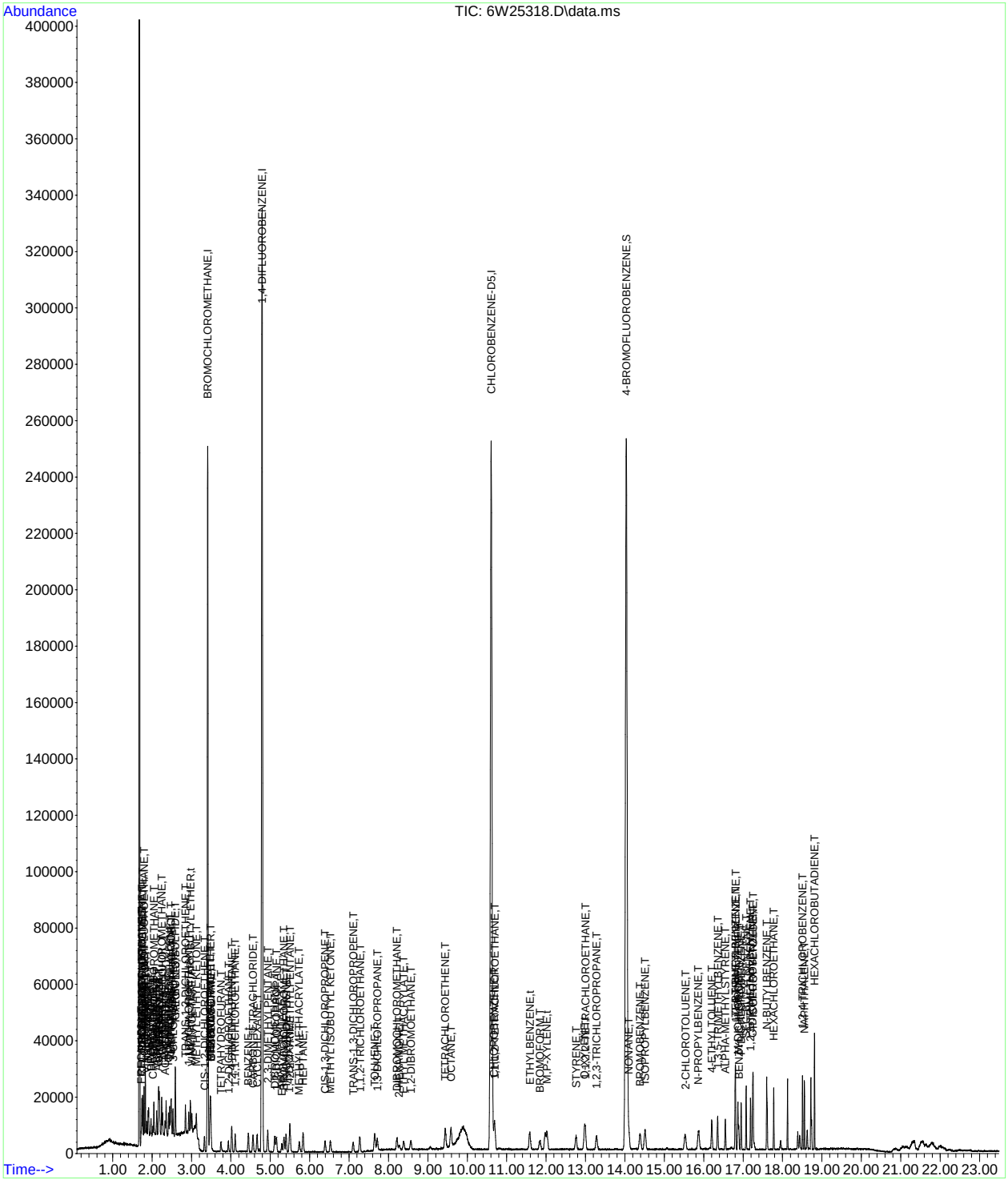
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
59)	BROMODICHLOROMETHANE	5.345	83	3380	0.20	PPBV		96
60)	2,2,4-TRIMETHYLPENTANE	5.499	57	8450	0.23	PPBV	#	97
61)	1,4-DIOXANE	5.476	88	892m	0.16	PPBV		
62)	HEPTANE	5.833	43	3438	0.26	PPBV	#	73
63)	METHYL METHACRYLATE	5.730	69	1551	0.18	PPBV	#	65
64)	METHYL ISOBUTYL KETONE	6.525	58	1233	0.17	PPBV	#	54
65)	CIS-1,3-DICHLOROPROPENE	6.390	75	2449	0.19	PPBV	#	65
66)	TOLUENE	7.650	91	6215	0.23	PPBV		94
67)	1,3-DICHLOROPROPANE	7.714	76	2872	0.21	PPBV	#	92
68)	TRANS-1,3-DICHLOROPROPENE	7.107	75	2414	0.20	PPBV	#	77
69)	1,1,2-TRICHLOROETHANE	7.280	83	1838	0.22	PPBV		94
70)	2-HEXANONE	8.264	58	774m	0.09	PPBV		
71)	ETHYL METHACRYLATE	8.383	69	2112	0.15	PPBV	#	55
72)	TETRACHLOROETHENE	9.441	164	2060	0.20	PPBV		89
73)	DIBROMOCHLOROMETHANE	8.209	129	2973	0.18	PPBV		99
74)	1,2-DIBROMOETHANE	8.573	107	3102	0.21	PPBV	#	93
75)	OCTANE	9.589	43	4187	0.23	PPBV	#	78
77)	1,1,1,2-TETRACHLOROETHANE	10.701	131	2316	0.20	PPBV		91
78)	CHLOROBENZENE	10.676	112	4841	0.22	PPBV		98
79)	ETHYLBENZENE	11.589	91	7464	0.20	PPBV		97
80)	M,P-XYLENE	12.016	91	11348m	0.40	PPBV		
81)	O-XYLENE	12.971	91	5961	0.21	PPBV	#	81
82)	STYRENE	12.759	104	3944	0.18	PPBV		94
83)	NONANE	14.093	43	4561	0.24	PPBV	#	80
84)	BROMOFORM	11.843	173	2489	0.16	PPBV	#	92
85)	1,1,2,2-TETRACHLOROETHANE	12.997	83	4620	0.21	PPBV	#	93
86)	1,2,3-TRICHLOROPROPANE	13.274	75	3504	0.21	PPBV	#	99
88)	ISOPROPYLBENZENE	14.508	120	2322	0.21	PPBV		90
89)	BROMOBENZENE	14.380	77	4531	0.22	PPBV		89
90)	2-CHLOROTOLUENE	15.537	126	1917m	0.19	PPBV		
91)	N-PROPYLBENZENE	15.859	120	2400	0.21	PPBV	#	62
92)	4-ETHYLTOLUENE	16.203	105	7665	0.18	PPBV	#	98
93)	1,3,5-TRIMETHYLBENZENE	16.354	105	6419	0.19	PPBV	#	97
94)	ALPHA-METHYLSTYRENE	16.550	118	2819	0.16	PPBV		99
95)	TERT-BUTYLBENZENE	16.801	134	1779	0.21	PPBV		99
96)	1,2,4-TRIMETHYLBENZENE	16.807	105	6740	0.19	PPBV		97
97)	BENZYL CHLORIDE	16.891	91	4468	0.14	PPBV		98
98)	M-DICHLOROBENZENE	16.868	146	4881	0.20	PPBV		95
99)	P-DICHLOROBENZENE	16.949	146	4694	0.19	PPBV		98
100)	O-DICHLOROBENZENE	17.241	146	4544	0.19	PPBV		98
101)	SEC-BUTYLBENZENE	17.077	134	1985	0.19	PPBV		99
102)	1,2,3-TRIMETHYLBENZENE	17.187	105	6507	0.19	PPBV		99
103)	P-ISOPROPYLTOLUENE	17.254	134	2441	0.20	PPBV		80
104)	N-BUTYLBENZENE	17.598	134	2031	0.18	PPBV		89
105)	HEXACHLOROETHANE	17.775	117	2309	0.16	PPBV	#	87
106)	HEXACHLOROBUTADIENE	18.810	225	3541	0.20	PPBV		95
107)	1,2,4-TRICHLOROBENZENE	18.508	180	4325	0.19	PPBV		96
108)	NAPHTHALENE	18.553	128	10517	0.17	PPBV		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W25318.D
Acq On : 4 Aug 2022 7:25 pm
Operator : thomash
Sample : ic1077-0.2
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 08:35:37 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration



Manual Integration Approval Summary

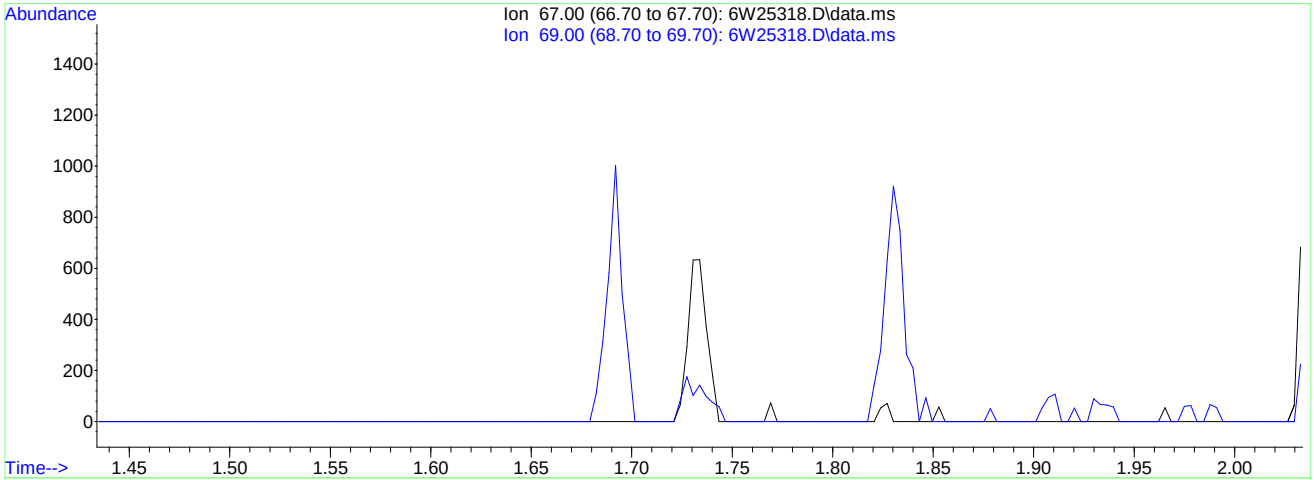
Sample Number: V6W1077-IC1077 **Method:** TO-15
Lab FileID: 6W25318.D **Analyst approved:** 08/05/22 10:02 Thomas Hilbig
Injection Time: 08/04/22 19:25 **Supervisor approved:** 08/08/22 10:23 Kanya Veerawat

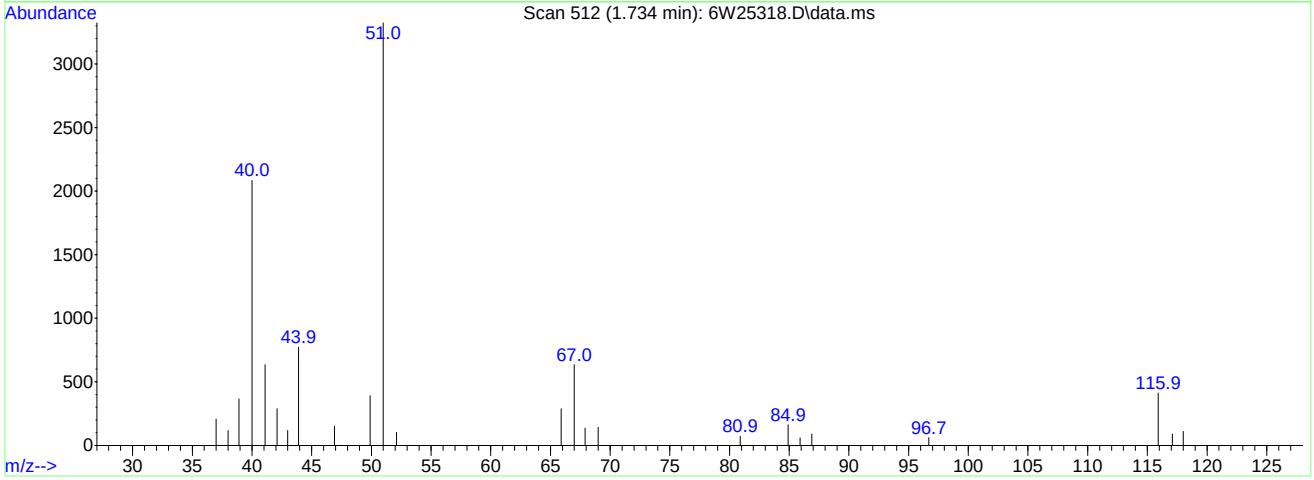
Parameter	CAS	Sig#	R.T. (min.)	Reason
Chlorodifluoromethane	75-45-6		1.73	Missed peak
Ethyl Acetate	141-78-6		3.49	Missed peak
1,4-Dioxane	123-91-1		5.48	Split peak
2-Hexanone	591-78-6		8.26	Missed peak
m,p-Xylene			12.02	Split peak
2-Chlorotoluene	95-49-8		15.54	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25318.D
Acq On : 4 Aug 2022 7:25 pm
Operator : thomash
Sample : ic1077-0.2
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 08:31:28 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration





TIC: 6W25318.D\data.ms

(4) CHLORODIFLUOROMETHANE (T)

1.734min (-1.734) 0.00PPBV

response 0

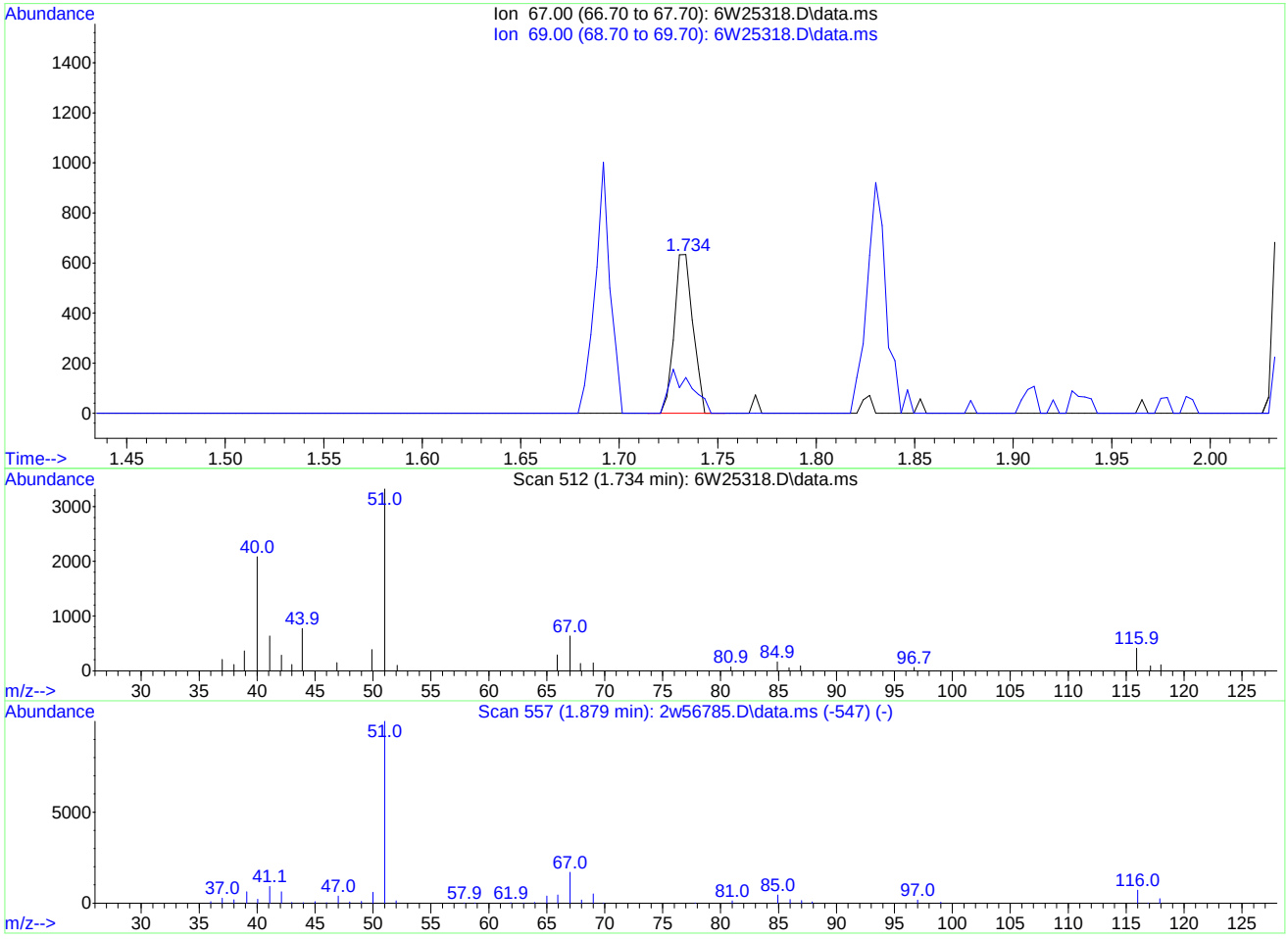
Ion	Exp%	Act%
67.00	100	0.00
69.00	36.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

6W25318.D edits: CHLORODIFLUOROMETHANE

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25318.D
Acq On : 4 Aug 2022 7:25 pm
Operator : thomash
Sample : ic1077-0.2
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 08:31:28 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration



TIC: 6W25318.D\data.ms

(4) CHLORODIFLUOROMETHANE (T)

1.734min (0.000) 0.24PPBV m

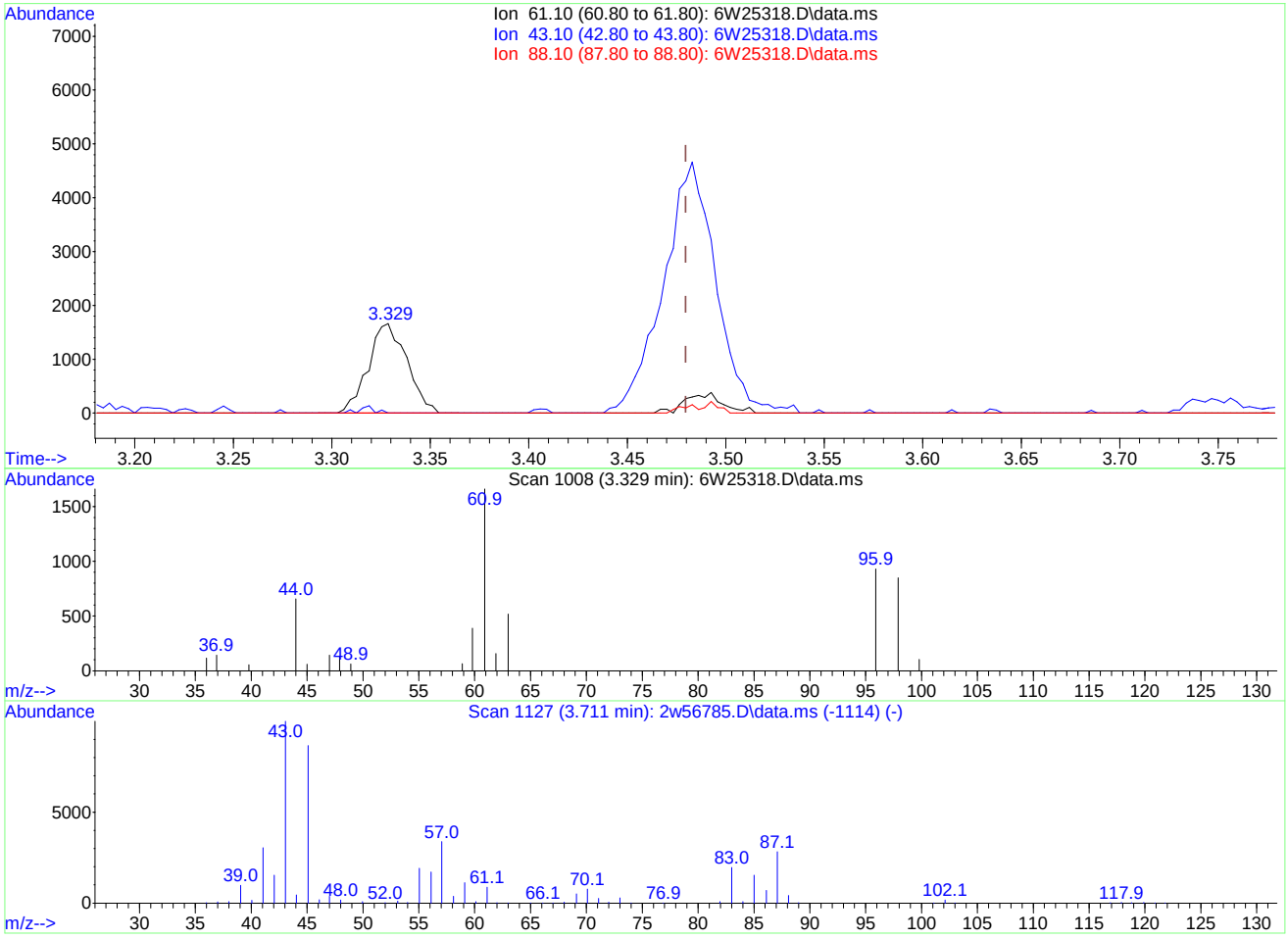
response 419

Ion	Exp%	Act%
67.00	100	100
69.00	36.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25318.D
Acq On : 4 Aug 2022 7:25 pm
Operator : thomash
Sample : ic1077-0.2
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 08:31:28 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration



TIC: 6W25318.D\data.ms

(44) ETHYL ACETATE (T)

3.329min (-0.151) 0.88PPBV

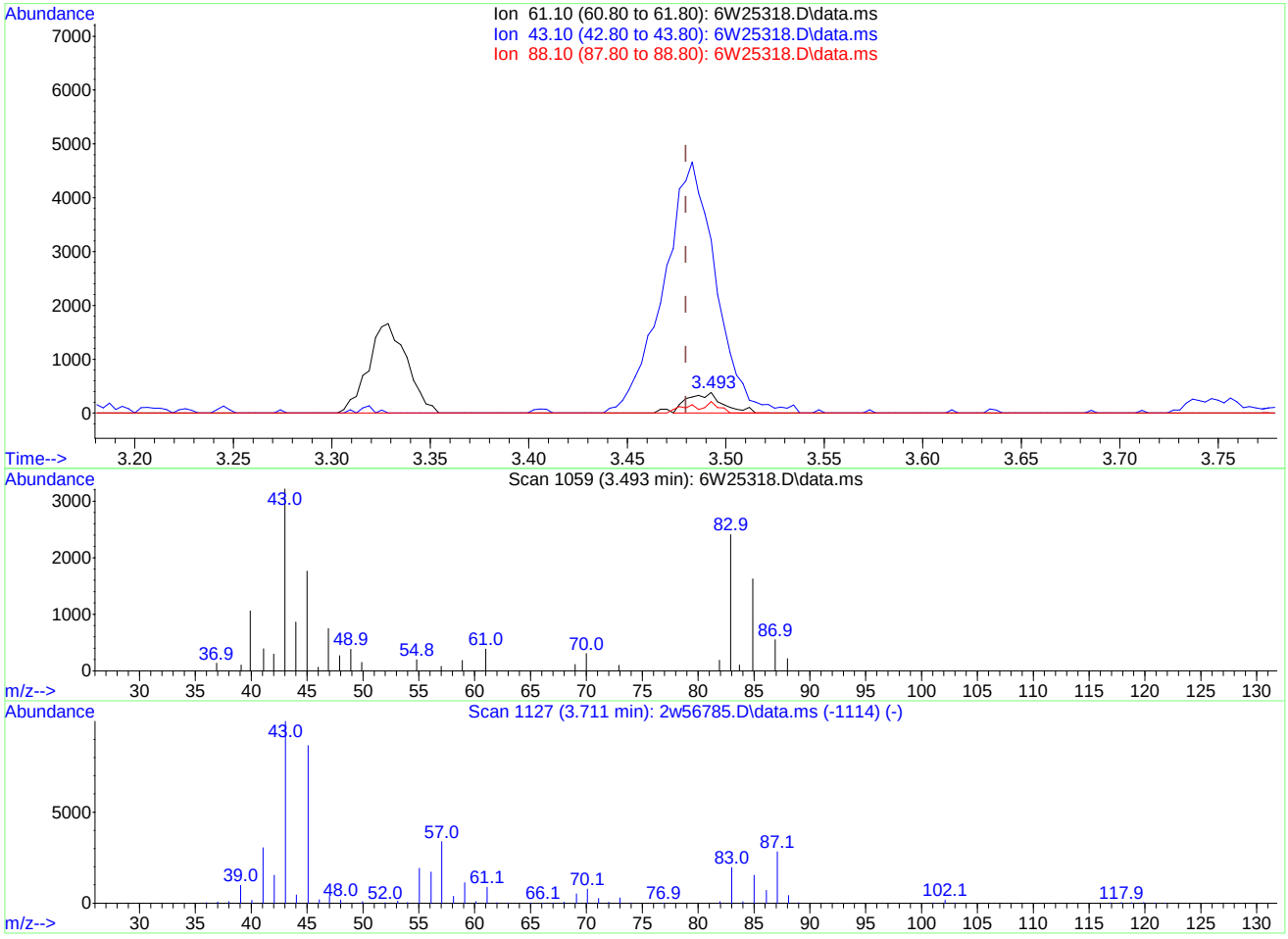
response 2268

Ion	Exp%	Act%
61.10	100	100
43.10	1232.70	0.00#
88.10	48.50	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25318.D
Acq On : 4 Aug 2022 7:25 pm
Operator : thomash
Sample : ic1077-0.2
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 08:31:28 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration



TIC: 6W25318.D\data.ms

(44) ETHYL ACETATE (T)

3.493min (+0.013) 0.18PPBV m

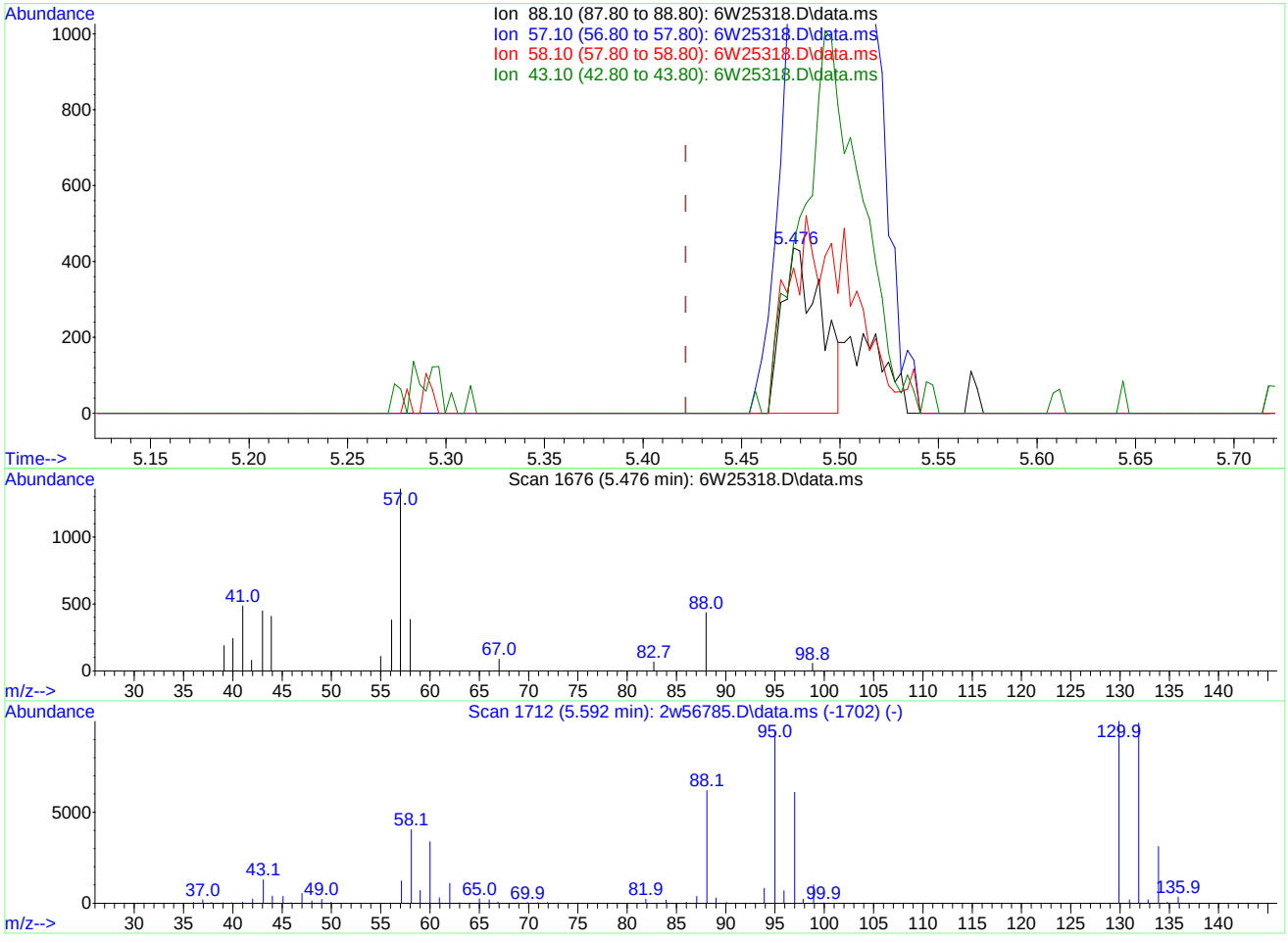
response 471

Ion	Exp%	Act%
61.10	100	100
43.10	1232.70	0.00#
88.10	48.50	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25318.D
Acq On : 4 Aug 2022 7:25 pm
Operator : thomash
Sample : ic1077-0.2
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 08:31:28 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration



TIC: 6W25318.D\data.ms

(61) 1,4-DIOXANE (T)

5.476min (+0.055) 0.11PPBV

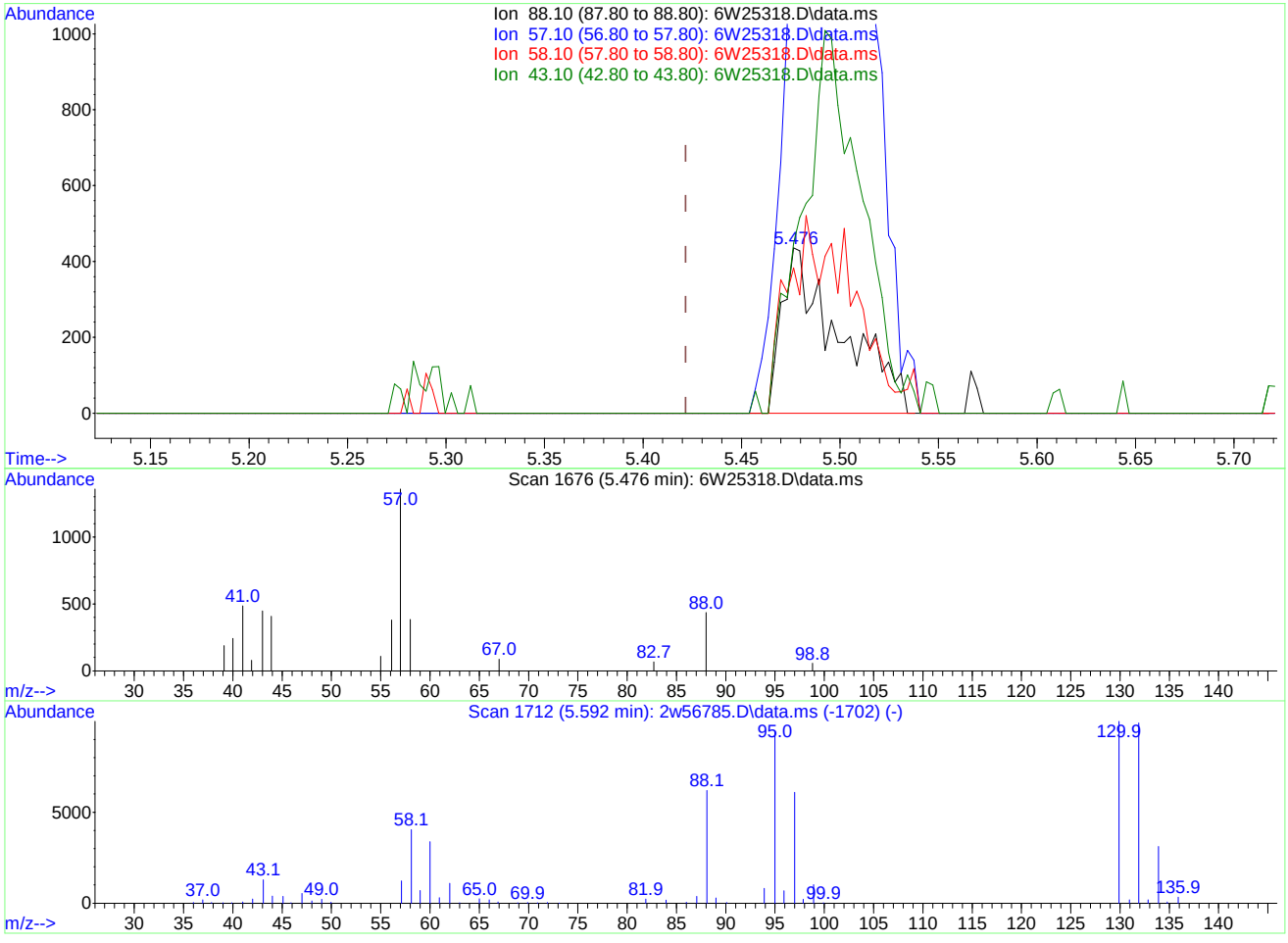
response 596

Ion	Exp%	Act%
88.10	100	100
57.10	18.70	0.00#
58.10	62.60	202.01#
43.10	19.20	0.00#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25318.D
Acq On : 4 Aug 2022 7:25 pm
Operator : thomash
Sample : ic1077-0.2
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 08:31:28 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration



TIC: 6W25318.D\data.ms

(61) 1,4-DIOXANE (T)

5.476min (+0.055) 0.16PPBV m

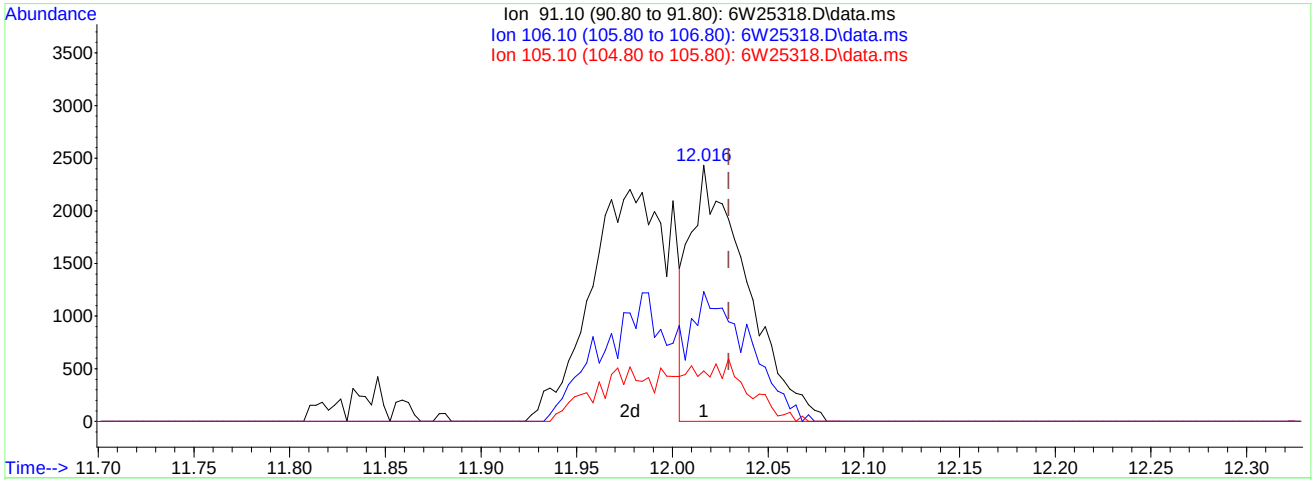
response 892

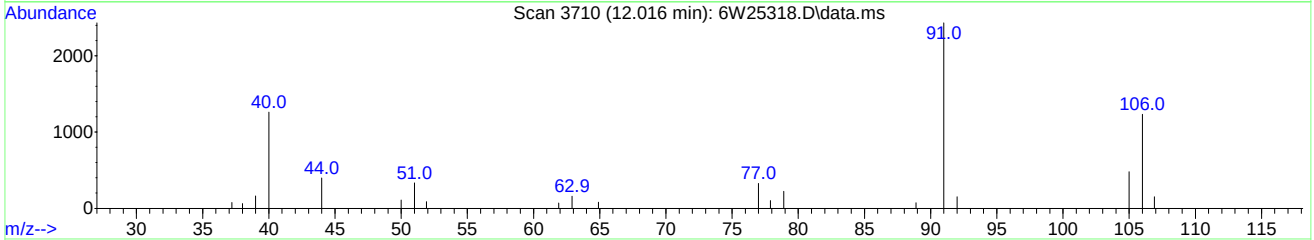
Ion	Exp%	Act%
88.10	100	100
57.10	18.70	0.00#
58.10	62.60	134.98#
43.10	19.20	0.00#

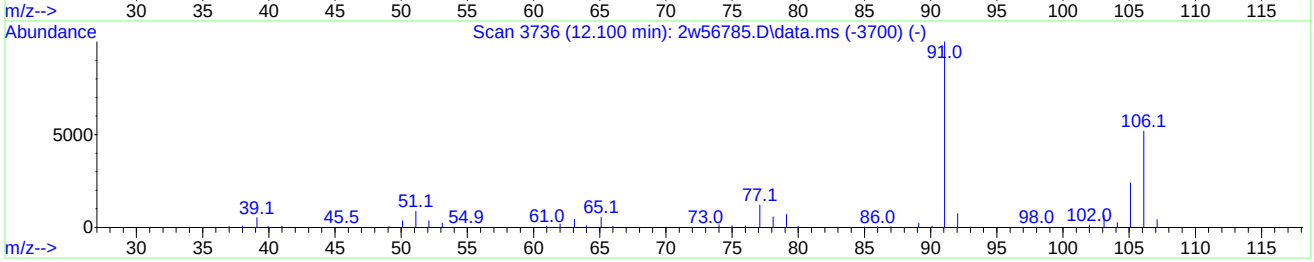
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25318.D
Acq On : 4 Aug 2022 7:25 pm
Operator : thomash
Sample : ic1077-0.2
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 08:31:28 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration







TIC: 6W25318.D\data.ms

(80) M,P-XYLENE (t)

12.016min (-0.013) 0.18PPBV

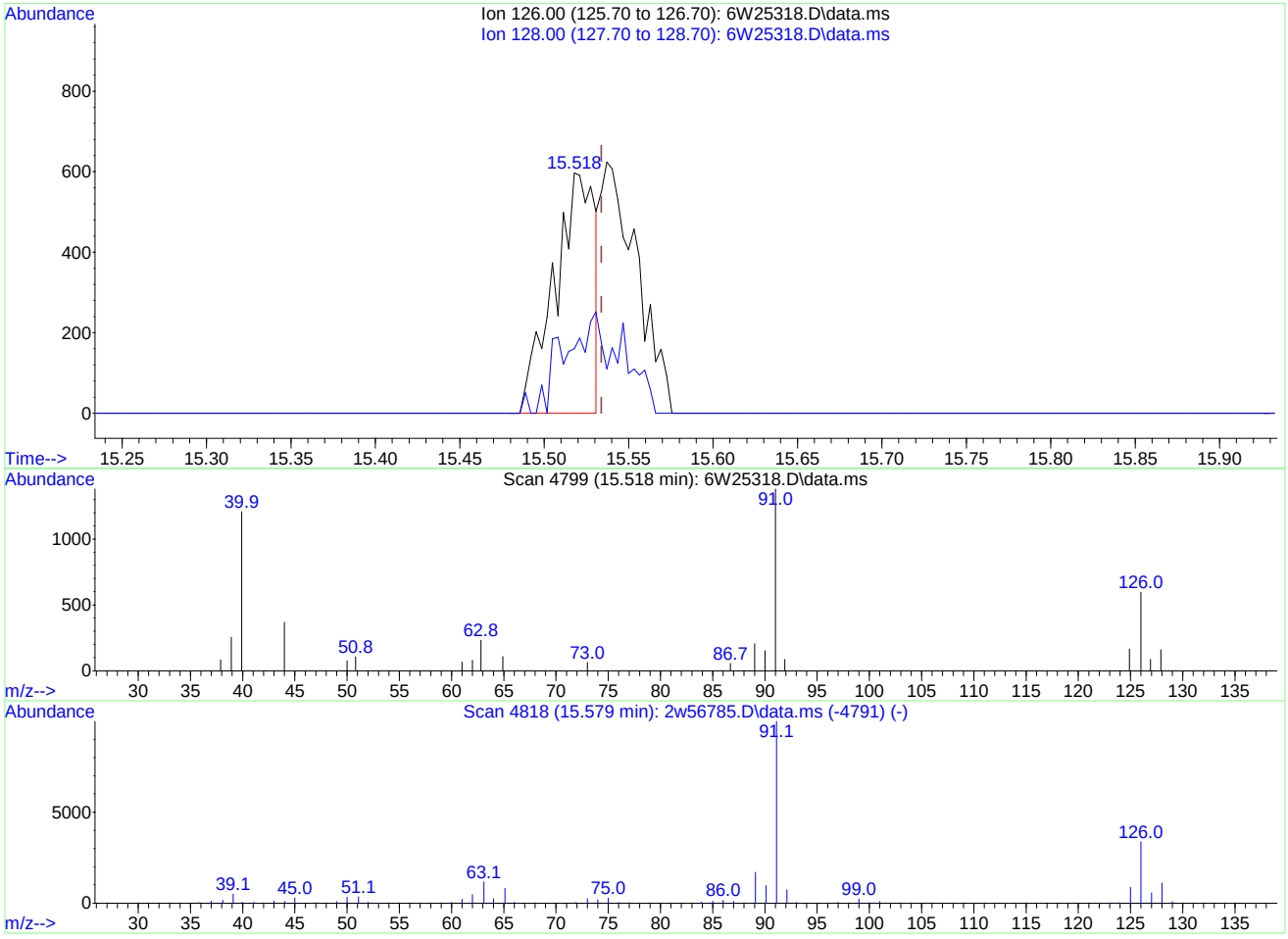
response 5027

Ion	Exp%	Act%
91.10	100	100
106.10	51.50	57.83
105.10	23.60	30.06
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25318.D
Acq On : 4 Aug 2022 7:25 pm
Operator : thomash
Sample : ic1077-0.2
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 08:31:28 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration



TIC: 6W25318.D\data.ms

(90) 2-CHLOROTOLUENE (T)

15.518min (-0.016) 0.10PPBV

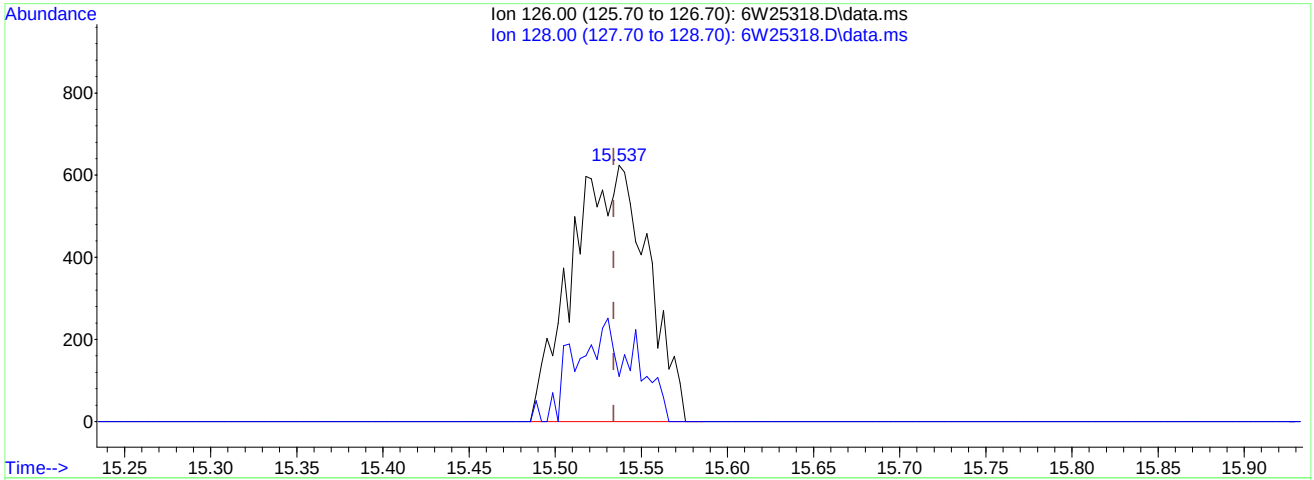
response 986

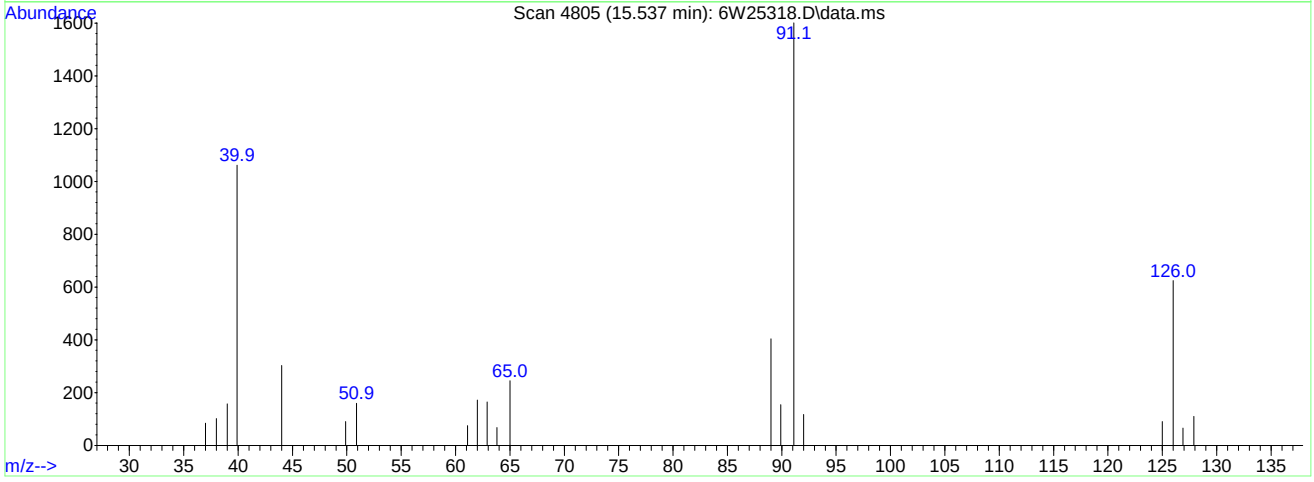
Ion	Exp%	Act%
126.00	100	100
128.00	32.60	58.92#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25318.D
Acq On : 4 Aug 2022 7:25 pm
Operator : thomash
Sample : ic1077-0.2
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 08:35:37 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration





TIC: 6W25318.D\data.ms

(90) 2-CHLOROTOLUENE (T)

15.537min (+0.003) 0.19PPBV m

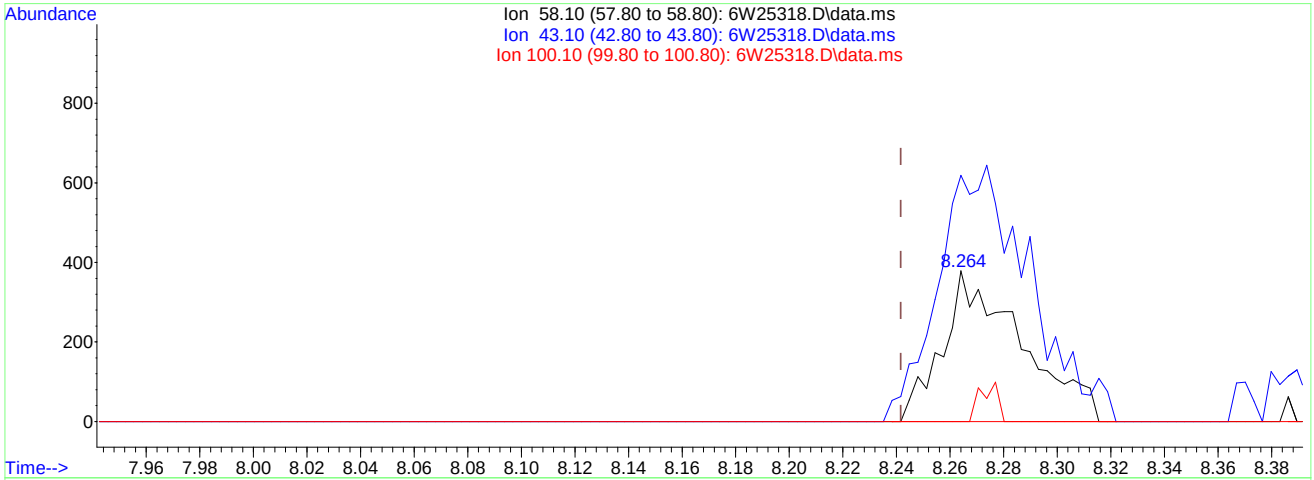
response 1917

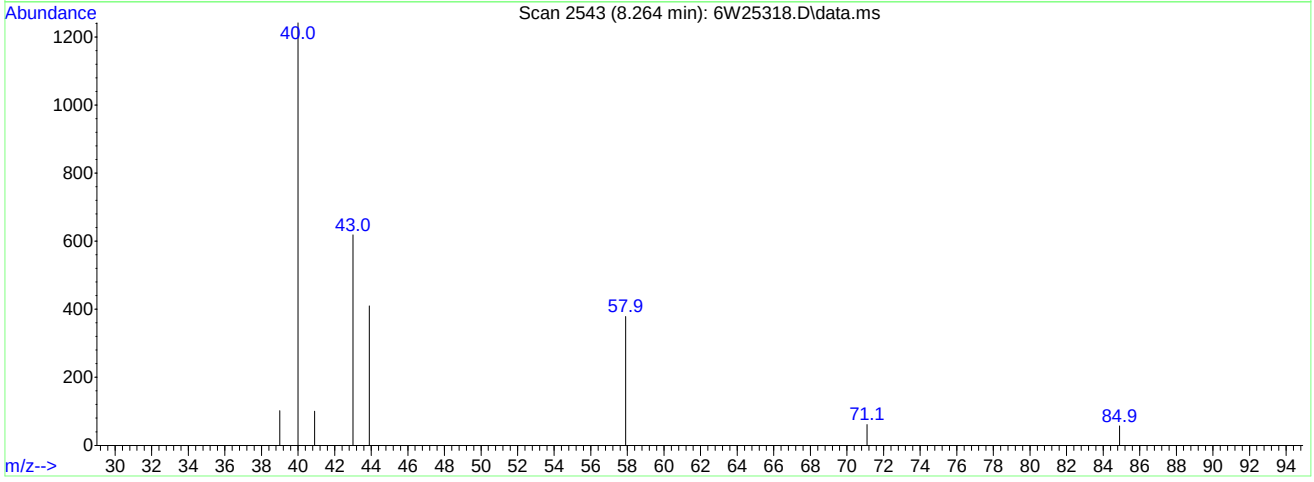
Ion	Exp%	Act%
126.00	100	100
128.00	32.60	30.31
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25318.D
Acq On : 4 Aug 2022 7:25 pm
Operator : thomash
Sample : ic1077-0.2
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 08:35:37 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration





TIC: 6W25318.D\data.ms

(70) 2-HEXANONE (T)

8.264min (+0.023) 0.09PPBV m

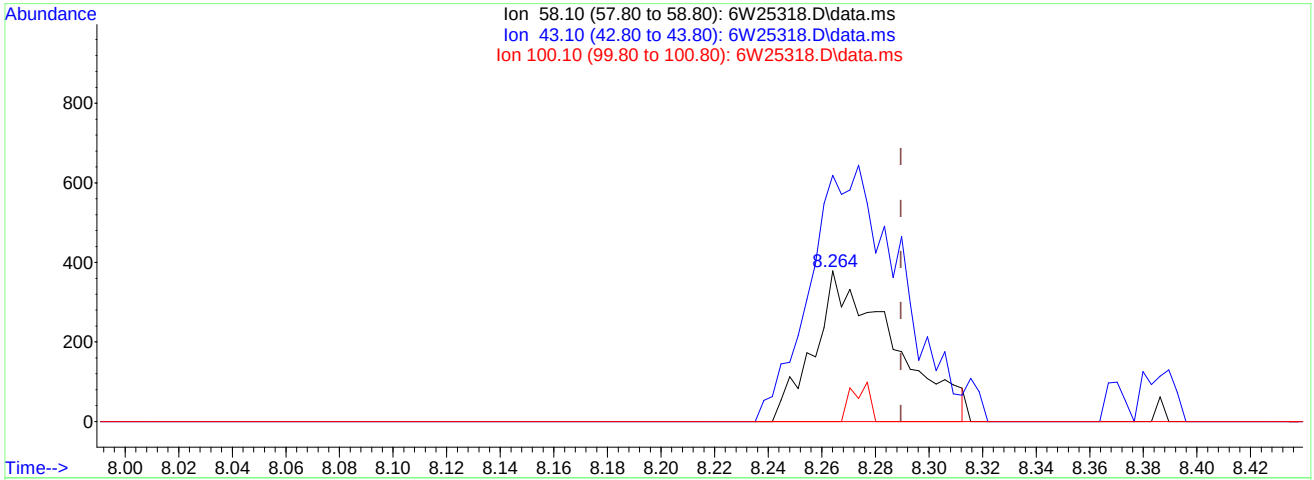
response 774

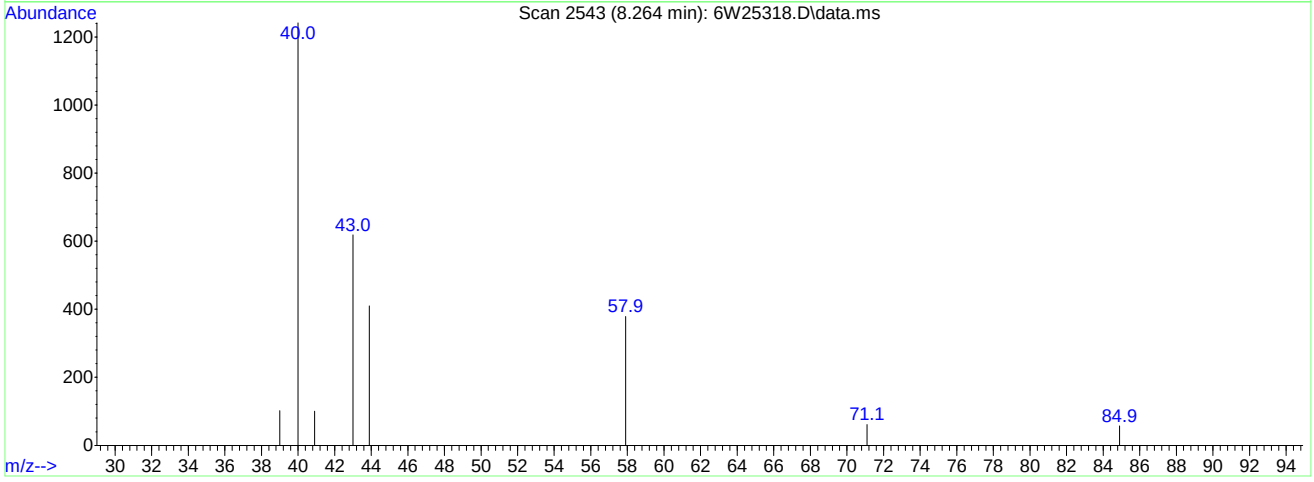
Ion	Exp%	Act%
58.10	100	100
43.10	150.80	196.25#
100.10	24.10	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\Raw Data\
Data File : 6W25318.D
Acq On : 4 Aug 2022 7:25 pm
Operator : thomash
Sample : ic1077-0.2
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 08 09:37:03 2022
Quant Method : C:\msdchem\1\methods\M6W1077_old.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed May 18 09:12:16 2022
Response via : Initial Calibration





TIC: 6W25318.D\data.ms

(70) 2-HEXANONE (T)

8.264min (-0.025) 0.08PPBV

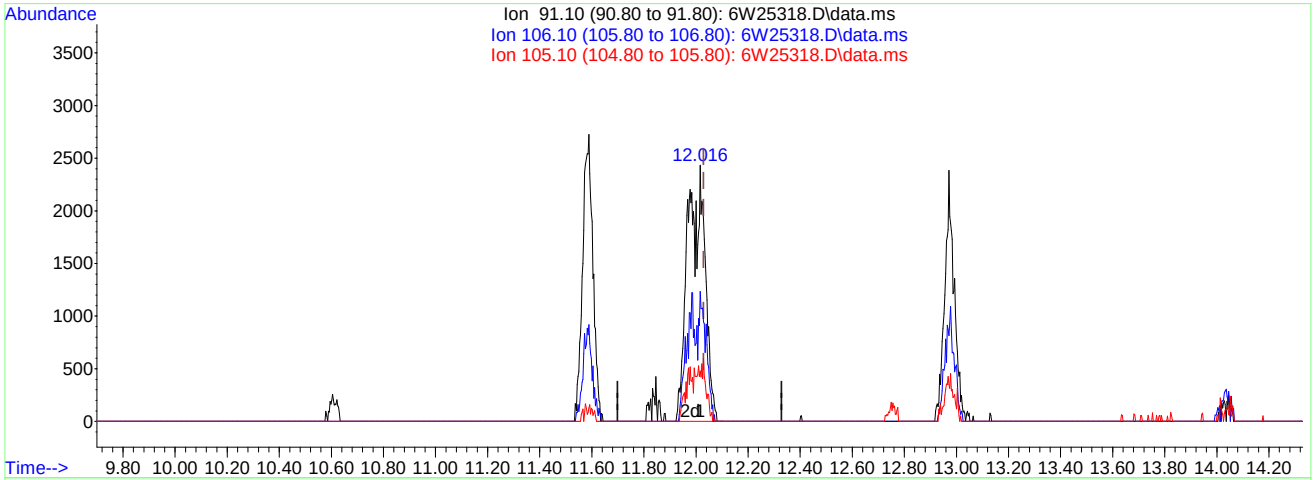
response 774

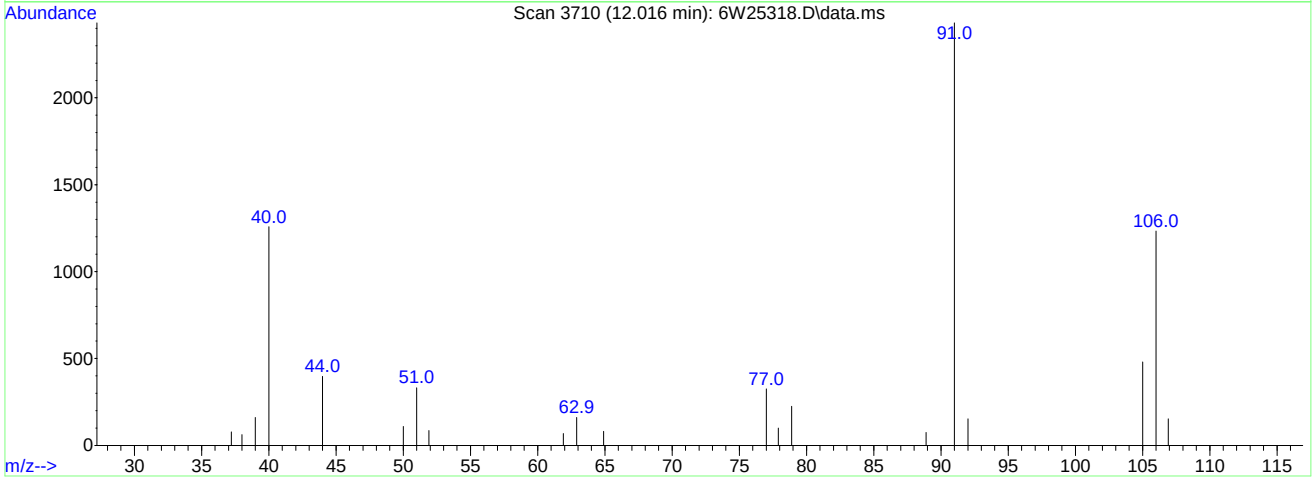
Ion	Exp%	Act%
58.10	100	100
43.10	150.80	191.60#
100.10	24.10	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25318.D
Acq On : 4 Aug 2022 7:25 pm
Operator : thomash
Sample : ic1077-0.2
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 08:35:37 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration





TIC: 6W25318.D\data.ms

(80) M,P-XYLENE (t)

12.016min (-0.013) 0.40PPBV m

response 11348

Ion	Exp%	Act%
91.10	100	100
106.10	51.50	25.62#
105.10	23.60	13.32
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/08/22 10:23

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W25319.D
Acq On : 4 Aug 2022 8:11 pm
Operator : thomash
Sample : ic1077-0.5
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 08:38:14 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	3.415	128	44988	10.00	PPBV	# 0.00
52) 1,4-DIFLUOROBENZENE	4.795	114	244084	10.00	PPBV	0.00
76) CHLOROBENZENE-D5	10.608	117	214178	10.00	PPBV	0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	14.036	95	149694	9.96	PPBV	0.00
Target Compounds						Qvalue
3) FREON 152A	1.721	65	2196	0.59	PPBV	# 79
4) CHLORODIFLUOROMETHANE	1.734	67	850	0.51	PPBV	# 39
5) CHLOROTRIFLUOROETHENE	1.747	116	4863	0.55	PPBV	# 98
6) DICHLORODIFLUOROMETHANE	1.763	85	11717m	0.55	PPBV	
7) PROPYLENE	1.743	41	3223	0.65	PPBV	91
8) 1-CHLORO-1,1-DIFLUOROE...	1.798	65	12095	0.61	PPBV	# 71
9) FREON 114	1.834	85	12031	0.56	PPBV	92
10) CHLOROMETHANE	1.805	52	1581	0.67	PPBV	95
11) VINYL CHLORIDE	1.866	62	5188	0.62	PPBV	# 91
12) 1,3-BUTADIENE	1.901	54	4056	0.63	PPBV	# 60
13) N-BUTANE	1.917	43	8217	0.67	PPBV	# 83
14) BROMOMETHANE	1.975	94	4143	0.58	PPBV	96
15) CHLOROETHANE	2.023	64	2525	0.59	PPBV	# 93
16) DICHLOROFLUOROMETHANE	2.049	67	10542	0.58	PPBV	# 95
17) ACETONITRILE	2.116	41	5116	0.70	PPBV	# 81
18) ACROLEIN	2.152	56	1200	0.38	PPBV	# 81
19) FREON 123	2.168	83	9997	0.54	PPBV	96
20) FREON 123A	2.184	117	5591	0.54	PPBV	# 75
21) TRICHLOROFLUOROMETHANE	2.248	101	12017	0.55	PPBV	99
22) ISOPROPYL ALCOHOL	2.271	45	12258	0.69	PPBV	# 89
23) ACETONE	2.197	58	3728	0.79	PPBV	# 70
24) PENTANE	2.361	42	5803	0.66	PPBV	# 92
25) IODOMETHANE	2.422	142	10523	0.52	PPBV	# 80
26) 1,1-DICHLOROETHYLENE	2.451	96	4093	0.52	PPBV	# 51
27) CARBON DISULFIDE	2.596	76	13256	0.56	PPBV	# 70
28) ETHANOL	2.055	45	3313	0.85	PPBV	# 92
29) BROMOETHENE	2.120	106	4087	0.55	PPBV	# 94
30) ACRYLONITRILE	2.335	52	3778	0.62	PPBV	97
31) METHYLENE CHLORIDE	2.489	84	4894	0.68	PPBV	# 56
32) 3-CHLOROPROPENE	2.534	76	2358	0.58	PPBV	# 1
33) FREON 113	2.596	151	6835	0.50	PPBV	83
34) TRANS-1,2-DICHLOROETHENE	2.850	96	4687	0.55	PPBV	# 73
35) TERTIARY BUTYL ALCOHOL	2.473	59	11368	0.55	PPBV	# 81
36) METHYL TERTIARY BUTYL ...	2.975	73	13210	0.52	PPBV	# 87
37) TETRAHYDROFURAN	3.743	72	1701	0.50	PPBV	# 62
38) HEXANE	3.467	57	6185	0.56	PPBV	# 71
39) VINYL ACETATE	3.010	86	1181	0.51	PPBV	# 1
40) 1,1-DICHLOROETHANE	2.933	63	9466	0.61	PPBV	99
41) METHYL ETHYL KETONE	3.126	72	2425	0.55	PPBV	# 1
42) CIS-1,2-DICHLOROETHENE	3.335	96	3727	0.51	PPBV	# 83
43) DIISOPROPYL ETHER	3.480	59	1991	0.58	PPBV	76
44) ETHYL ACETATE	3.486	61	1245	0.50	PPBV	# 19
45) METHYL ACRYLATE	3.470	55	7747	0.54	PPBV	# 98
46) CHLOROFORM	3.499	83	8000	0.54	PPBV	# 92
47) 2,4-DIMETHYLPENTANE	4.026	57	7462	0.57	PPBV	94
48) 1,1,1-TRICHLOROETHANE	4.113	97	7701	0.53	PPBV	95
49) CARBON TETRACHLORIDE	4.567	117	7548	0.51	PPBV	99
50) 1,2-DICHLOROETHANE	3.936	62	5733	0.58	PPBV	# 91
51) BENZENE	4.444	78	11040	0.51	PPBV	83
53) CYCLOHEXANE	4.663	84	4803	0.51	PPBV	84
54) 2,3-DIMETHYLPENTANE	4.933	71	2529	0.52	PPBV	# 65
55) TRICHLOROETHENE	5.406	95	5168	0.52	PPBV	95
56) 1,2-DICHLOROPROPANE	5.158	63	4417	0.54	PPBV	97
57) DIBROMOMETHANE	5.116	174	5006	0.56	PPBV	91

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W25319.D
Acq On : 4 Aug 2022 8:11 pm
Operator : thomash
Sample : ic1077-0.5
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 08:38:14 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration

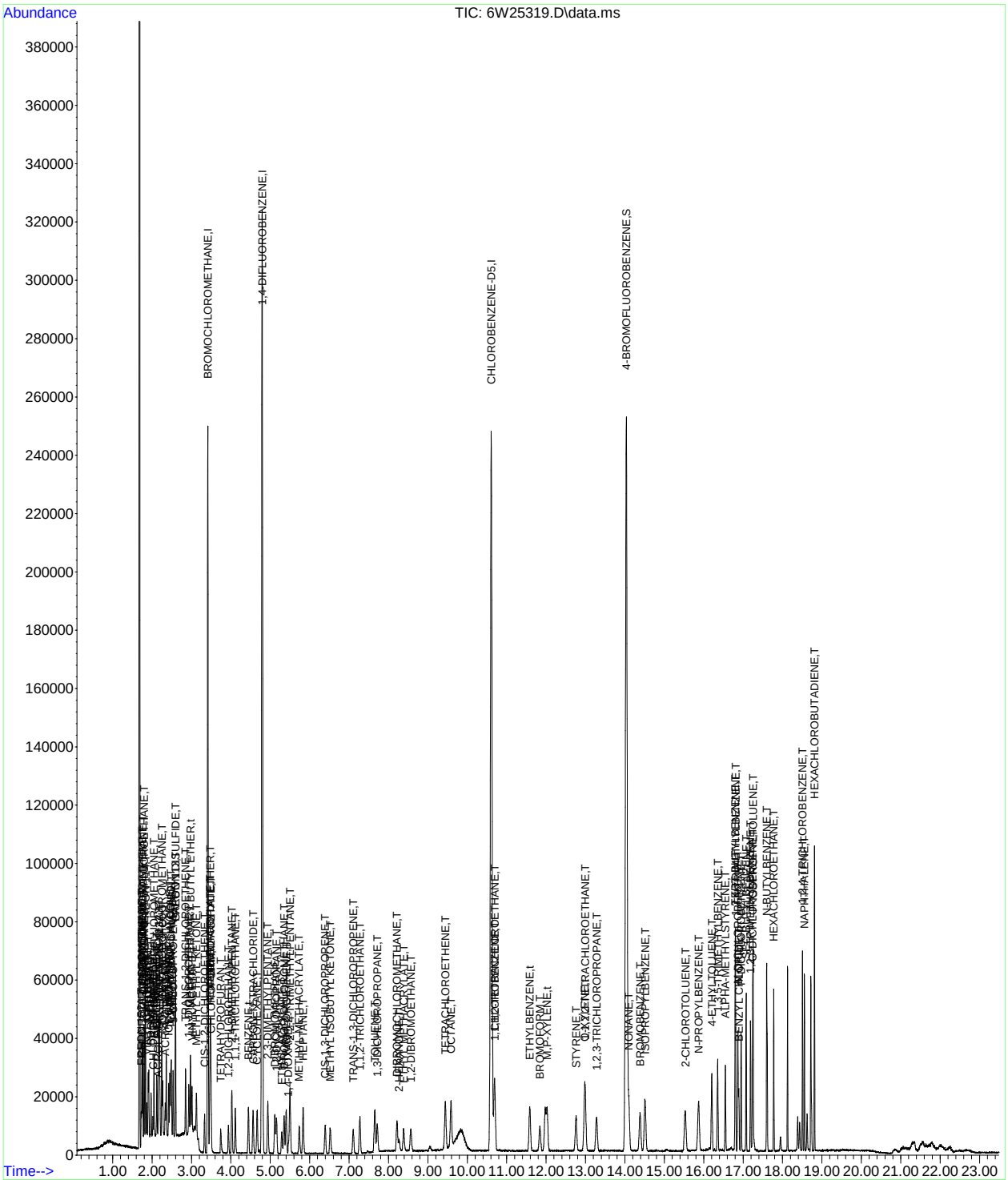
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
58) ETHYL ACRYLATE	5.293	55	8348	0.47	PPBV	#	96
59) BROMODICHLOROMETHANE	5.351	83	8015	0.50	PPBV		99
60) 2,2,4-TRIMETHYLPENTANE	5.499	57	20236	0.57	PPBV	#	98
61) 1,4-DIOXANE	5.457	88	2225	0.42	PPBV	#	37
62) HEPTANE	5.833	43	7203	0.56	PPBV	#	80
63) METHYL METHACRYLATE	5.730	69	3857	0.45	PPBV	#	65
64) METHYL ISOBUTYL KETONE	6.521	58	3278	0.46	PPBV	#	79
65) CIS-1,3-DICHLOROPROPENE	6.393	75	6326	0.49	PPBV	#	73
66) TOLUENE	7.660	91	13604	0.51	PPBV		97
67) 1,3-DICHLOROPROPANE	7.711	76	7158	0.53	PPBV		97
68) TRANS-1,3-DICHLOROPROPENE	7.107	75	5451	0.46	PPBV	#	74
69) 1,1,2-TRICHLOROETHANE	7.274	83	4336	0.54	PPBV		92
70) 2-HEXANONE	8.264	58	1963	0.22	PPBV	#	65
71) ETHYL METHACRYLATE	8.390	69	4986	0.36	PPBV	#	71
72) TETRACHLOROETHENE	9.444	164	5367	0.54	PPBV		98
73) DIBROMOCHLOROMETHANE	8.213	129	7615	0.47	PPBV		98
74) 1,2-DIBROMOETHANE	8.570	107	7513	0.51	PPBV	#	98
75) OCTANE	9.586	43	10510	0.59	PPBV	#	79
77) 1,1,1,2-TETRACHLOROETHANE	10.701	131	5595	0.49	PPBV		92
78) CHLOROBENZENE	10.692	112	11232	0.51	PPBV		96
79) ETHYLBENZENE	11.582	91	18278	0.51	PPBV		98
80) M,P-XYLENE	12.026	91	27689m	1.00	PPBV		
81) O-XYLENE	12.975	91	14167	0.51	PPBV		96
82) STYRENE	12.762	104	9387	0.44	PPBV		96
83) NONANE	14.100	43	11384	0.60	PPBV	#	75
84) BROMOFORM	11.846	173	6038	0.41	PPBV	#	94
85) 1,1,2,2-TETRACHLOROETHANE	12.994	83	11372	0.53	PPBV		99
86) 1,2,3-TRICHLOROPROPANE	13.280	75	8362	0.52	PPBV	#	99
88) ISOPROPYLBENZENE	14.511	120	5513	0.50	PPBV	#	83
89) BROMOBENZENE	14.386	77	10583	0.53	PPBV		91
90) 2-CHLOROTOLUENE	15.540	126	5100	0.51	PPBV		99
91) N-PROPYLBENZENE	15.872	120	5647	0.50	PPBV	#	87
92) 4-ETHYLTOLUENE	16.206	105	18888	0.46	PPBV		99
93) 1,3,5-TRIMETHYLBENZENE	16.354	105	15977	0.47	PPBV		98
94) ALPHA-METHYLSTYRENE	16.550	118	6900	0.40	PPBV		98
95) TERT-BUTYLBENZENE	16.798	134	4036	0.49	PPBV		95
96) 1,2,4-TRIMETHYLBENZENE	16.807	105	16078	0.46	PPBV		98
97) BENZYL CHLORIDE	16.891	91	11322	0.37	PPBV		97
98) M-DICHLOROBENZENE	16.868	146	11438	0.48	PPBV		97
99) P-DICHLOROBENZENE	16.949	146	11939	0.49	PPBV		95
100) O-DICHLOROBENZENE	17.238	146	11063	0.48	PPBV		97
101) SEC-BUTYLBENZENE	17.074	134	4875	0.47	PPBV		99
102) 1,2,3-TRIMETHYLBENZENE	17.187	105	16013	0.47	PPBV	#	97
103) P-ISOPROPYLTOLUENE	17.254	134	5588	0.48	PPBV		93
104) N-BUTYLBENZENE	17.598	134	4919	0.44	PPBV		87
105) HEXACHLOROETHANE	17.778	117	5729	0.42	PPBV	#	90
106) HEXACHLOROBUTADIENE	18.810	225	8824	0.52	PPBV		99
107) 1,2,4-TRICHLOROBENZENE	18.505	180	10315	0.45	PPBV		99
108) NAPHTHALENE	18.556	128	25743	0.43	PPBV		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W25319.D
Acq On : 4 Aug 2022 8:11 pm
Operator : thomash
Sample : ic1077-0.5
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 08:38:14 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration



Manual Integration Approval Summary

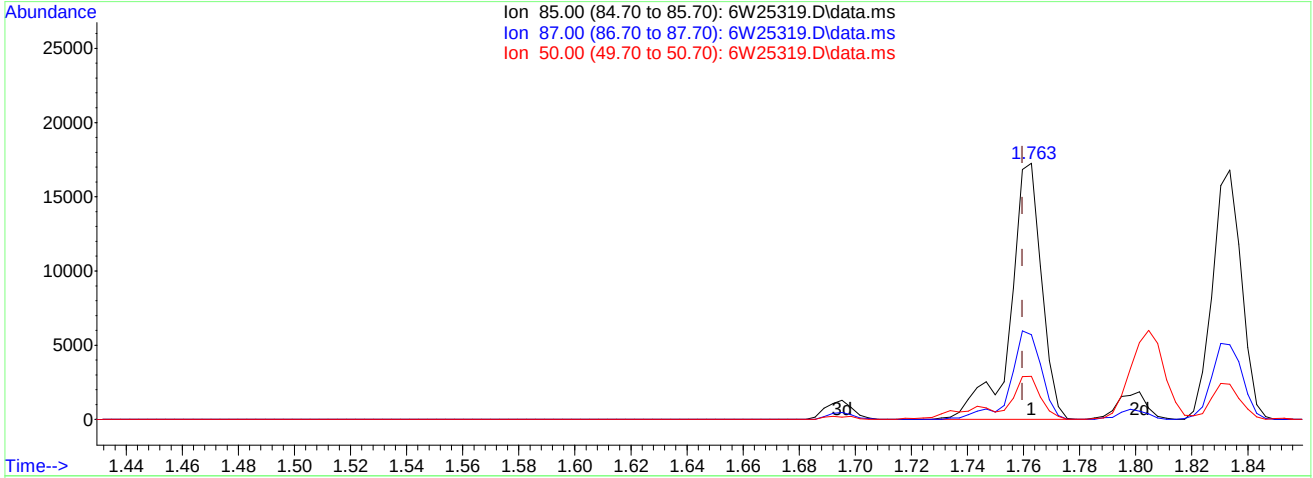
Sample Number:	V6W1077-IC1077	**Method:**	TO-15
Lab FileID:	6W25319.D	**Analyst approved:**	08/05/22 10:02 Thomas Hilbig
Injection Time:	08/04/22 20:11	**Supervisor approved:**	08/08/22 10:23 Kanya Veerawat

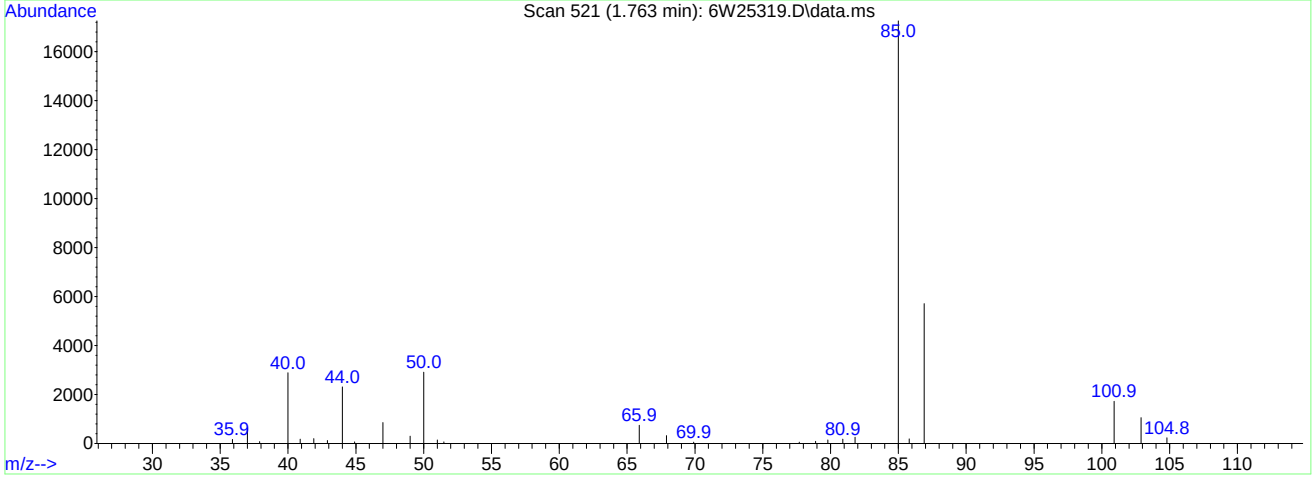
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.76	Overlapping peak
m,p-Xylene			12.03	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25319.D
Acq On : 4 Aug 2022 8:11 pm
Operator : thomash
Sample : ic1077-0.5
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 08:36:55 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration





TIC: 6W25319.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.763min (+0.003) 0.63PPBV

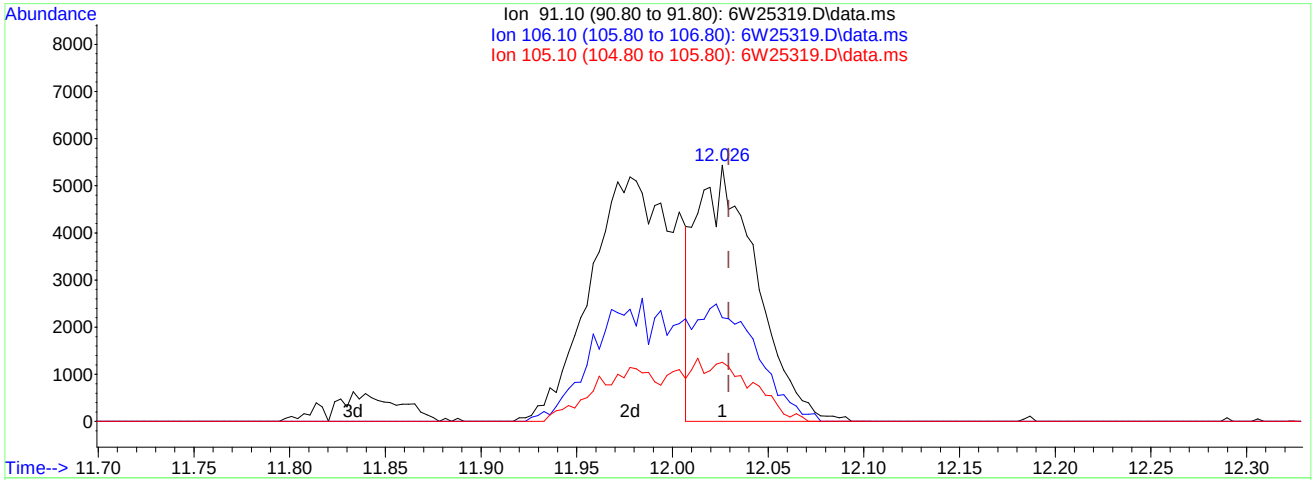
response 13343

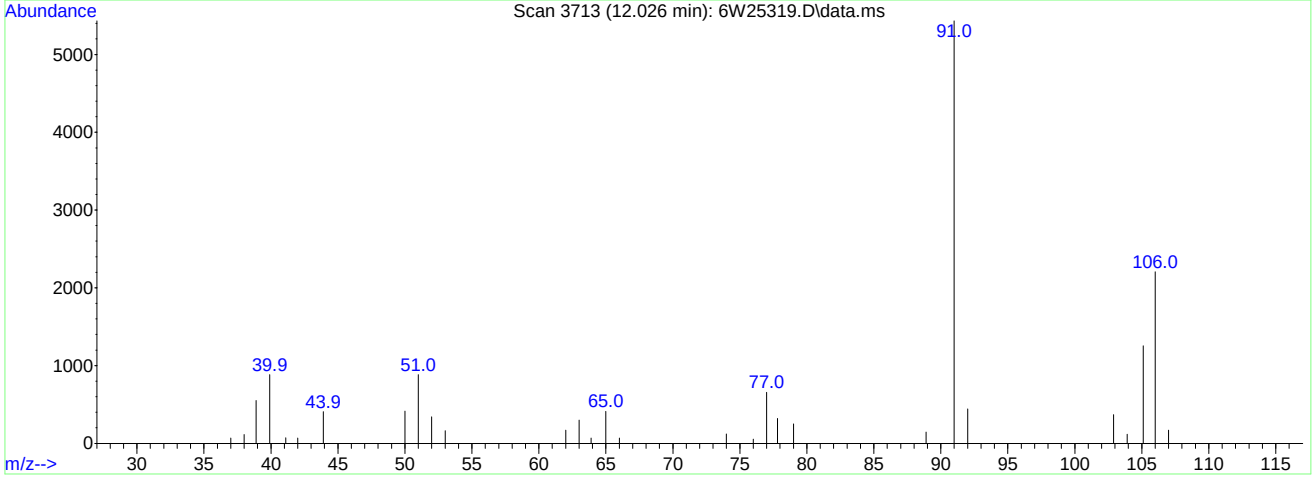
Ion	Exp%	Act%
85.00	100	100
87.00	32.20	33.96
50.00	9.30	21.27#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25319.D
Acq On : 4 Aug 2022 8:11 pm
Operator : thomash
Sample : ic1077-0.5
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 08:36:55 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration





TIC: 6W25319.D\data.ms

(80) M,P-XYLENE (t)

12.026min (-0.003) 0.43PPBV

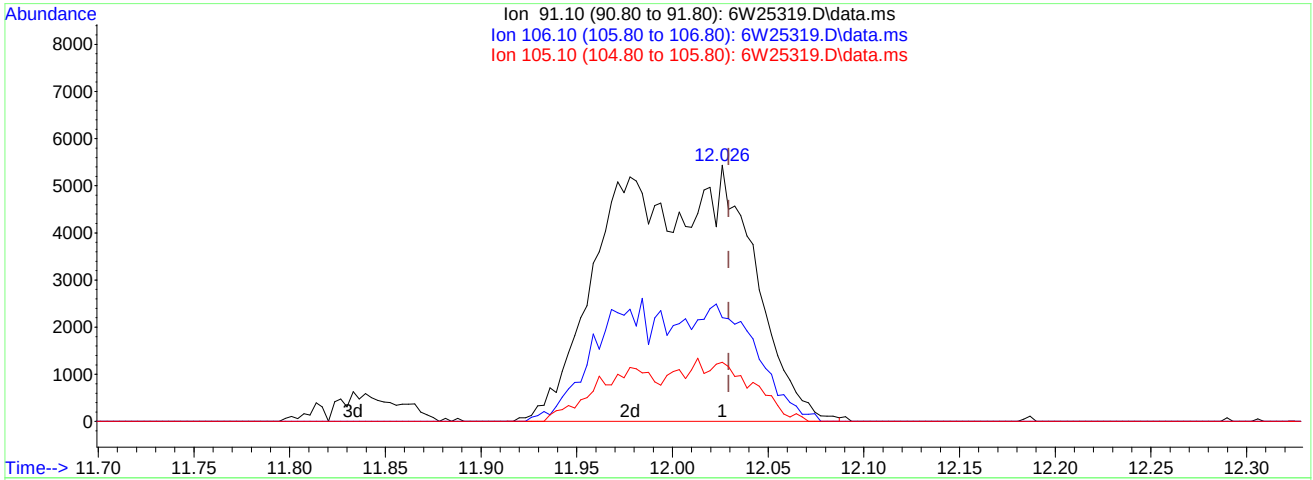
response 11881

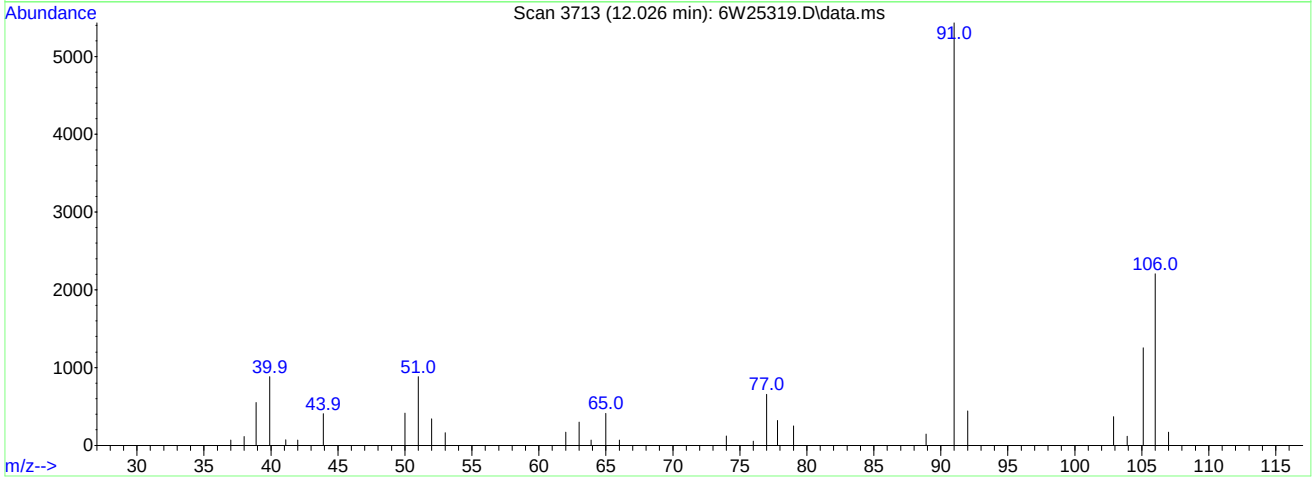
Ion	Exp%	Act%
91.10	100	100
106.10	51.50	67.97
105.10	23.60	29.83
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25319.D
Acq On : 4 Aug 2022 8:11 pm
Operator : thomash
Sample : ic1077-0.5
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 08:36:55 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration





TIC: 6W25319.D\data.ms

(80) M,P-XYLENE (t)

12.026min (-0.003) 1.00PPBV m

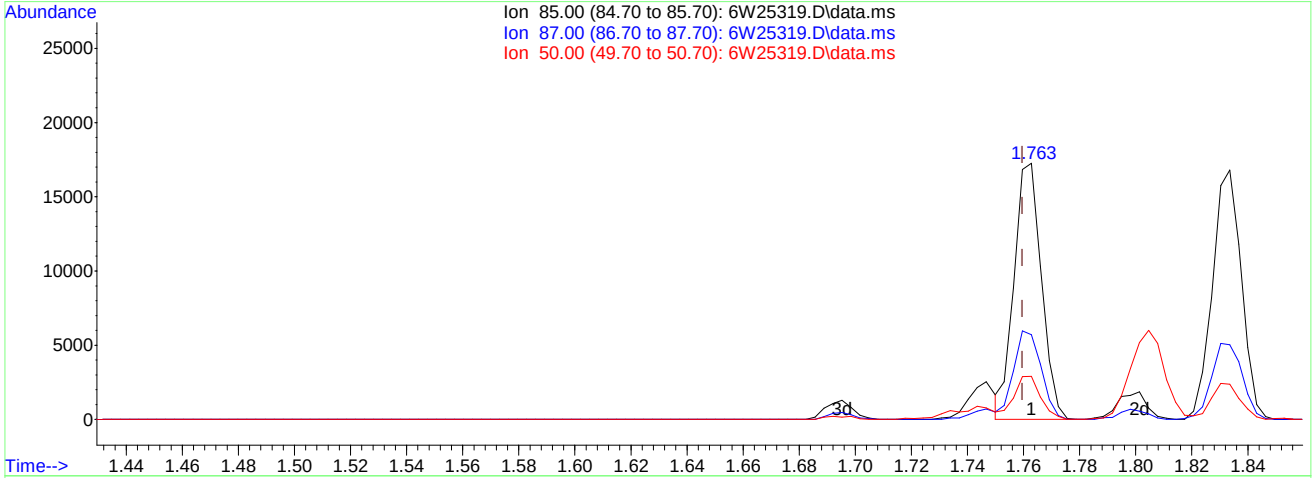
response 27689

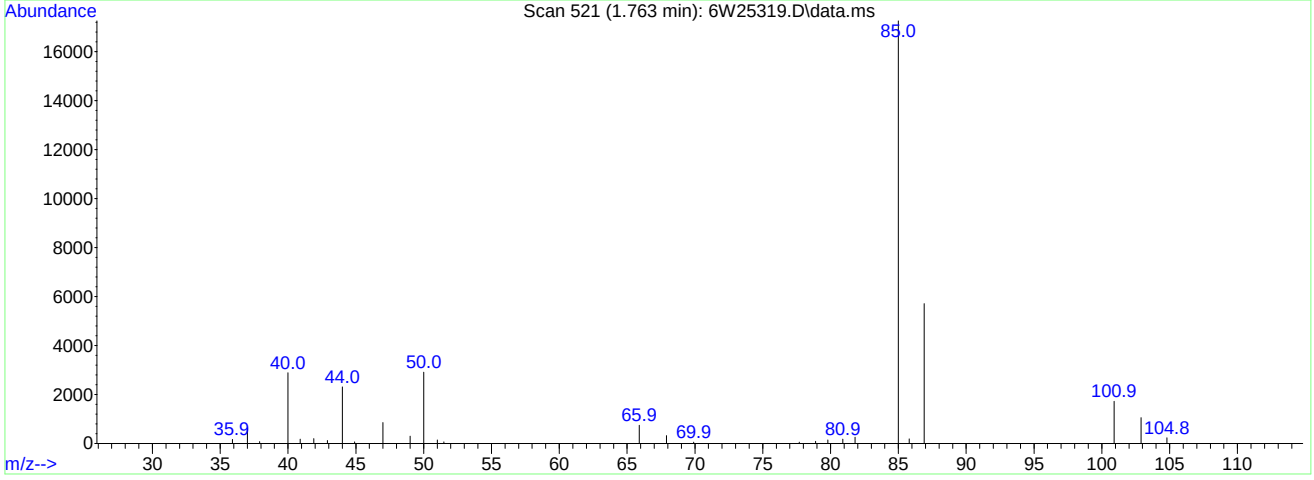
Ion	Exp%	Act%
91.10	100	100
106.10	51.50	29.16#
105.10	23.60	12.80
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25319.D
Acq On : 4 Aug 2022 8:11 pm
Operator : thomash
Sample : ic1077-0.5
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 05 08:38:14 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration





TIC: 6W25319.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.763min (+0.003) 0.55PPBV m

response 11717

Ion	Exp%	Act%
85.00	100	100
87.00	32.20	38.67#
50.00	9.30	24.22#
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/08/22 10:23

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W25321.D
Acq On : 4 Aug 2022 9:41 pm
Operator : thomash
Sample : ic1077-5
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 05 08:40:07 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.412	128	44624	10.00	PPBV	#	0.00
52) 1,4-DIFLUOROBENZENE	4.792	114	241425	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	10.608	117	213770	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	14.032	95	149135	9.95	PPBV		0.00
Target Compounds							Qvalue
3) FREON 152A	1.721	65	18976	5.15	PPBV	#	81
4) CHLORODIFLUOROMETHANE	1.734	67	8520	5.19	PPBV		99
5) CHLOROTRIFLUOROETHENE	1.743	116	41577	4.71	PPBV	#	100
6) DICHLORODIFLUOROMETHANE	1.760	85	106484m	5.04	PPBV		
7) PROPYLENE	1.743	41	27040	5.47	PPBV		97
8) 1-CHLORO-1,1-DIFLUOROE...	1.798	65	107071	5.48	PPBV	#	84
9) FREON 114	1.830	85	109345	5.17	PPBV		94
10) CHLOROMETHANE	1.801	52	13639	5.82	PPBV		94
11) VINYL CHLORIDE	1.862	62	45281	5.45	PPBV		98
12) 1,3-BUTADIENE	1.901	54	36562	5.72	PPBV	#	70
13) N-BUTANE	1.914	43	73675	6.08	PPBV	#	87
14) BROMOMETHANE	1.975	94	36741	5.16	PPBV		98
15) CHLOROETHANE	2.020	64	23459	5.56	PPBV		95
16) DICHLOROFLUOROMETHANE	2.046	67	98923	5.46	PPBV	#	94
17) ACETONITRILE	2.113	41	45951	6.32	PPBV		96
18) ACROLEIN	2.152	56	17902	5.67	PPBV		98
19) FREON 123	2.165	83	91627	5.03	PPBV		98
20) FREON 123A	2.184	117	50561	4.96	PPBV	#	72
21) TRICHLOROFLUOROMETHANE	2.245	101	108660	5.00	PPBV		100
22) ISOPROPYL ALCOHOL	2.264	45	102760	5.84	PPBV	#	97
23) ACETONE	2.190	58	26910	5.74	PPBV	#	56
24) PENTANE	2.358	42	51866	5.96	PPBV	#	92
25) IODOMETHANE	2.419	142	99043	4.93	PPBV	#	81
26) 1,1-DICHLOROETHYLENE	2.448	96	38643	4.98	PPBV	#	51
27) CARBON DISULFIDE	2.592	76	121275	5.15	PPBV	#	83
28) ETHANOL	2.052	45	22995	5.96	PPBV	#	97
29) BROMOETHENE	2.120	106	36291	4.91	PPBV	#	96
30) ACRYLONITRILE	2.332	52	35304	5.82	PPBV		96
31) METHYLENE CHLORIDE	2.486	84	36946	5.15	PPBV	#	53
32) 3-CHLOROPROPENE	2.531	76	19748	4.93	PPBV	#	1
33) FREON 113	2.592	151	65464	4.84	PPBV		88
34) TRANS-1,2-DICHLOROETHENE	2.850	96	42382	5.02	PPBV	#	72
35) TERTIARY BUTYL ALCOHOL	2.464	59	107679	5.27	PPBV	#	81
36) METHYL TERTIARY BUTYL ...	2.969	73	127009	5.06	PPBV	#	90
37) TETRAHYDROFURAN	3.727	72	16515	4.86	PPBV	#	62
38) HEXANE	3.467	57	58629	5.31	PPBV	#	77
39) VINYL ACETATE	3.007	86	10760	4.71	PPBV	#	1
40) 1,1-DICHLOROETHANE	2.933	63	85022	5.56	PPBV		99
41) METHYL ETHYL KETONE	3.120	72	22666	5.18	PPBV	#	1
42) CIS-1,2-DICHLOROETHENE	3.332	96	34605	4.77	PPBV	#	83
43) DIISOPROPYL ETHER	3.473	59	18414	5.41	PPBV		68
44) ETHYL ACETATE	3.480	61	12431	5.07	PPBV	#	35
45) METHYL ACRYLATE	3.467	55	75388	5.33	PPBV	#	97
46) CHLOROFORM	3.496	83	73067	4.98	PPBV	#	93
47) 2,4-DIMETHYLPENTANE	4.023	57	68015	5.27	PPBV		95
48) 1,1,1-TRICHLOROETHANE	4.110	97	72005	4.97	PPBV		96
49) CARBON TETRACHLORIDE	4.563	117	72408	4.89	PPBV		99
50) 1,2-DICHLOROETHANE	3.936	62	52091	5.36	PPBV	#	95
51) BENZENE	4.444	78	104846	4.93	PPBV		86
53) CYCLOHEXANE	4.666	84	45755	4.88	PPBV		86
54) 2,3-DIMETHYLPENTANE	4.936	71	24017	4.97	PPBV	#	71
55) TRICHLOROETHENE	5.402	95	46865	4.79	PPBV		97
56) 1,2-DICHLOROPROPANE	5.158	63	41972	5.21	PPBV		95
57) DIBROMOMETHANE	5.120	174	42942	4.85	PPBV		89

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W25321.D
Acq On : 4 Aug 2022 9:41 pm
Operator : thomash
Sample : ic1077-5
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 05 08:40:07 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration

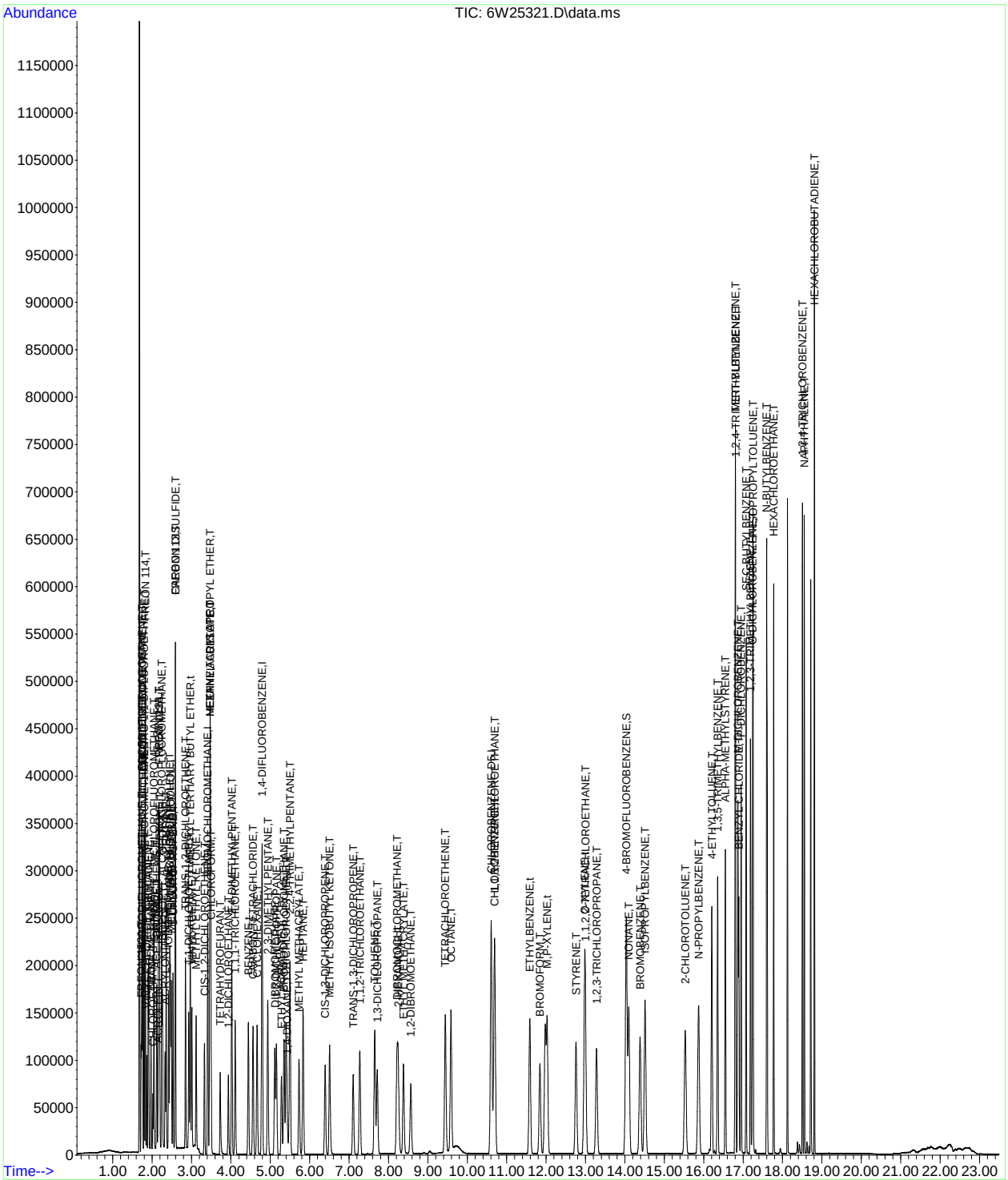
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
58) ETHYL ACRYLATE	5.284	55	90278	5.09	PPBV		98
59) BROMODICHLOROMETHANE	5.348	83	79968	5.01	PPBV		100
60) 2,2,4-TRIMETHYLPENTANE	5.499	57	186538	5.30	PPBV		98
61) 1,4-DIOXANE	5.428	88	24963	4.73	PPBV	#	86
62) HEPTANE	5.833	43	70156	5.53	PPBV	#	79
63) METHYL METHACRYLATE	5.730	69	40191	4.79	PPBV	#	63
64) METHYL ISOBUTYL KETONE	6.505	58	36872	5.20	PPBV	#	70
65) CIS-1,3-DICHLOROPROPENE	6.393	75	61001	4.81	PPBV	#	75
66) TOLUENE	7.650	91	125852	4.74	PPBV		100
67) 1,3-DICHLOROPROPANE	7.718	76	65691	4.91	PPBV		98
68) TRANS-1,3-DICHLOROPROPENE	7.107	75	56873	4.80	PPBV	#	77
69) 1,1,2-TRICHLOROETHANE	7.274	83	39287	4.96	PPBV		98
70) 2-HEXANONE	8.248	58	45013	5.12	PPBV	#	68
71) ETHYL METHACRYLATE	8.380	69	64649	4.74	PPBV	#	76
72) TETRACHLOROETHENE	9.441	164	47447	4.81	PPBV		95
73) DIBROMOCHLOROMETHANE	8.216	129	76354	4.76	PPBV		99
74) 1,2-DIBROMOETHANE	8.566	107	70408	4.84	PPBV		98
75) OCTANE	9.582	43	96680	5.49	PPBV	#	80
77) 1,1,1,2-TETRACHLOROETHANE	10.695	131	53472	4.67	PPBV		95
78) CHLOROBENZENE	10.685	112	104120	4.78	PPBV		98
79) ETHYLBENZENE	11.582	91	169901	4.76	PPBV		99
80) M,P-XYLENE	12.023	91	260894	9.48	PPBV	#	63
81) O-XYLENE	12.978	91	132479	4.77	PPBV		97
82) STYRENE	12.759	104	99814	4.67	PPBV		97
83) NONANE	14.100	43	103942	5.52	PPBV	#	79
84) BROMOFORM	11.843	173	70364	4.76	PPBV	#	98
85) 1,1,2,2-TETRACHLOROETHANE	13.000	83	103159	4.82	PPBV		99
86) 1,2,3-TRICHLOROPROPANE	13.286	75	77791	4.87	PPBV	#	100
88) ISOPROPYLBENZENE	14.508	120	51065	4.67	PPBV		86
89) BROMOBENZENE	14.386	77	96418	4.79	PPBV		95
90) 2-CHLOROTOLUENE	15.534	126	46298	4.61	PPBV		99
91) N-PROPYLBENZENE	15.868	120	51427	4.57	PPBV		99
92) 4-ETHYLTOLUENE	16.206	105	189029	4.62	PPBV		99
93) 1,3,5-TRIMETHYLBENZENE	16.351	105	155772	4.61	PPBV	#	98
94) ALPHA-METHYLSTYRENE	16.547	118	77940	4.56	PPBV		98
95) TERT-BUTYLBENZENE	16.801	134	38621	4.65	PPBV		100
96) 1,2,4-TRIMETHYLBENZENE	16.807	105	162703	4.64	PPBV		95
97) BENZYL CHLORIDE	16.891	91	129671	4.23	PPBV		97
98) M-DICHLOROBENZENE	16.868	146	109302	4.62	PPBV		99
99) P-DICHLOROBENZENE	16.949	146	112004	4.62	PPBV		98
100) O-DICHLOROBENZENE	17.238	146	105429	4.61	PPBV		98
101) SEC-BUTYLBENZENE	17.077	134	47808	4.57	PPBV		98
102) 1,2,3-TRIMETHYLBENZENE	17.187	105	157744	4.65	PPBV	#	98
103) P-ISOPROPYLTOLUENE	17.254	134	54130	4.64	PPBV		99
104) N-BUTYLBENZENE	17.595	134	52047	4.67	PPBV		94
105) HEXACHLOROETHANE	17.775	117	62734	4.57	PPBV		91
106) HEXACHLOROBUTADIENE	18.810	225	88412	5.20	PPBV		99
107) 1,2,4-TRICHLOROBENZENE	18.505	180	105692	4.64	PPBV		99
108) NAPHTHALENE	18.553	128	275457	4.60	PPBV		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W25321.D
Acq On : 4 Aug 2022 9:41 pm
Operator : thomash
Sample : ic1077-5
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 05 08:40:07 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration



Manual Integration Approval Summary

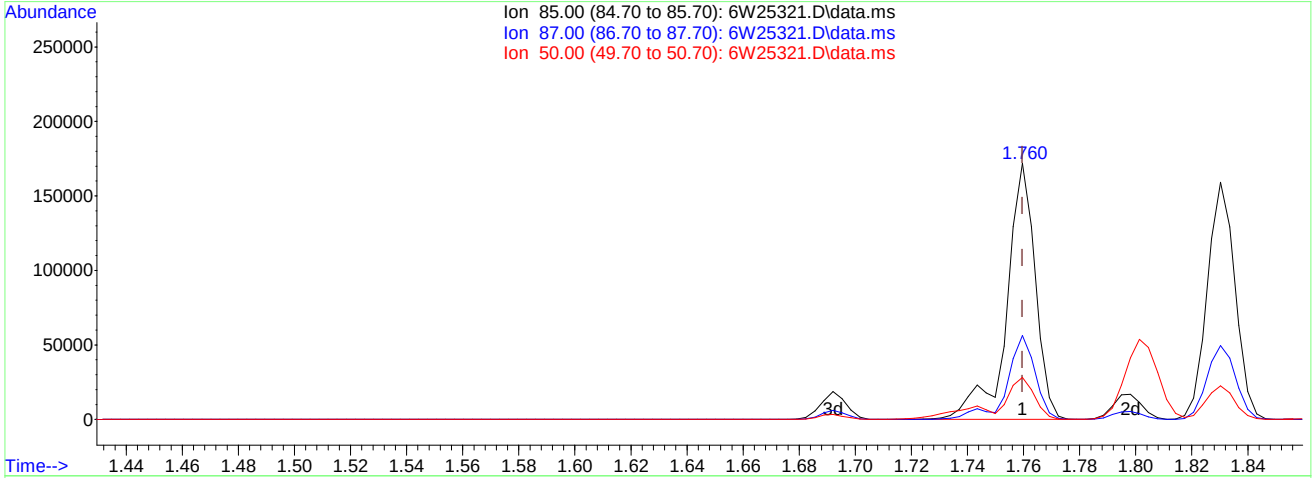
Sample Number:	V6W1077-IC1077	**Method:**	TO-15
Lab FileID:	6W25321.D	**Analyst approved:**	08/05/22 10:02 Thomas Hilbig
Injection Time:	08/04/22 21:41	**Supervisor approved:**	08/08/22 10:23 Kanya Veerawat

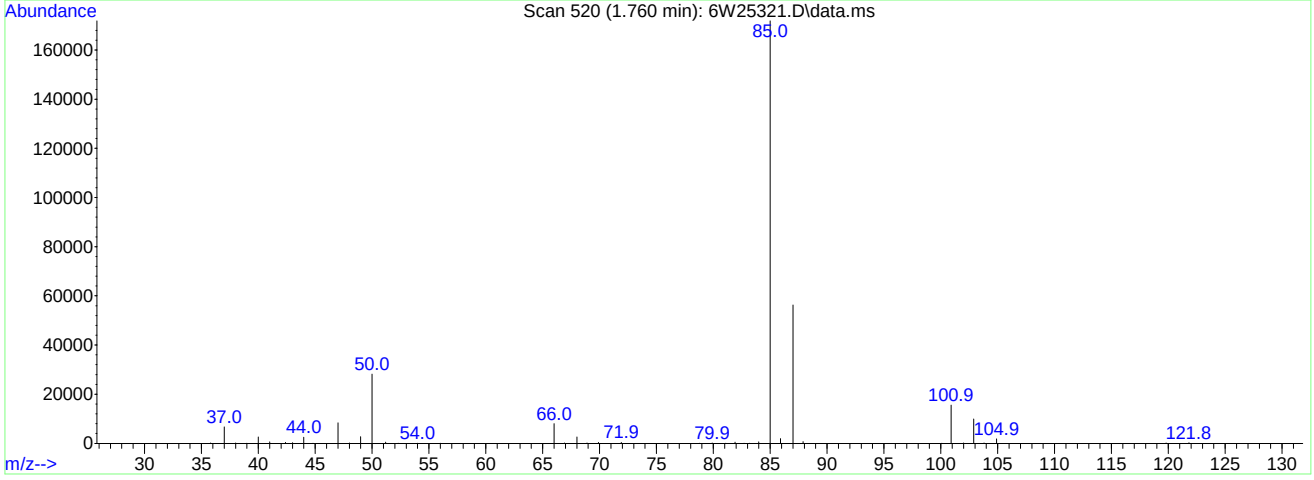
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.76	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25321.D
Acq On : 4 Aug 2022 9:41 pm
Operator : thomash
Sample : ic1077-5
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 05 08:39:39 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration





TIC: 6W25321.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.760min (+0.000) 5.79PPBV

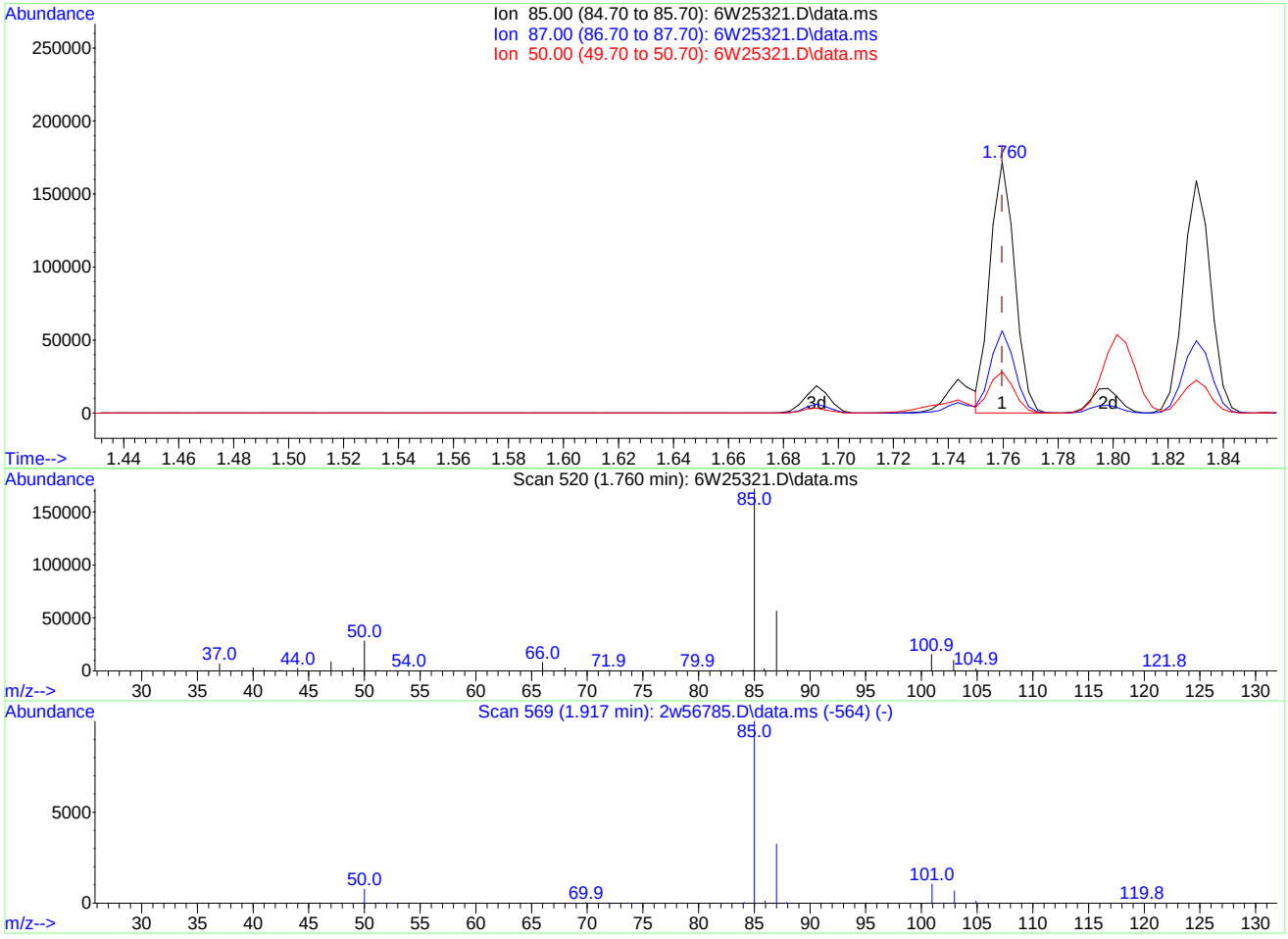
response 122401

Ion	Exp%	Act%
85.00	100	100
87.00	32.20	31.96
50.00	9.30	21.95#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25321.D
Acq On : 4 Aug 2022 9:41 pm
Operator : thomash
Sample : ic1077-5
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 05 08:39:39 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration



TIC: 6W25321.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.760min (+0.000) 5.04PPBV m

response 106484

Ion	Exp%	Act%
85.00	100	100
87.00	32.20	36.74
50.00	9.30	25.23#
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/08/22 10:23

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W25322.D
Acq On : 4 Aug 2022 10:26 pm
Operator : thomash
Sample : icc1077-10
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 05 08:44:00 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.415	128	46792	10.00	PPBV	#	0.00
52) 1,4-DIFLUOROBENZENE	4.795	114	248358	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	10.605	117	220143	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	14.036	95	154466	10.00	PPBV		0.00
Target Compounds							Qvalue
3) FREON 152A	1.721	65	38822	10.06	PPBV	#	81
4) CHLORODIFLUOROMETHANE	1.734	67	17709	10.28	PPBV		97
5) CHLOROTRIFLUOROETHENE	1.743	116	86829	9.38	PPBV	#	99
6) DICHLORODIFLUOROMETHANE	1.760	85	219494m	9.91	PPBV		
7) PROPYLENE	1.743	41	56537	10.90	PPBV		98
8) 1-CHLORO-1,1-DIFLUOROE...	1.798	65	218284	10.66	PPBV	#	84
9) FREON 114	1.830	85	222721	10.03	PPBV		94
10) CHLOROMETHANE	1.801	52	28590	11.64	PPBV		93
11) VINYL CHLORIDE	1.862	62	93051	10.67	PPBV		98
12) 1,3-BUTADIENE	1.901	54	75167	11.22	PPBV	#	71
13) N-BUTANE	1.914	43	151966	11.95	PPBV	#	92
14) BROMOMETHANE	1.975	94	74339	9.95	PPBV		100
15) CHLOROETHANE	2.020	64	47903	10.83	PPBV		96
16) DICHLOROFLUOROMETHANE	2.046	67	199797	10.51	PPBV	#	95
17) ACETONITRILE	2.113	41	92360	12.11	PPBV		97
18) ACROLEIN	2.152	56	36301	10.97	PPBV		98
19) FREON 123	2.165	83	189335	9.91	PPBV		99
20) FREON 123A	2.181	117	103820	9.70	PPBV	#	72
21) TRICHLOROFLUOROMETHANE	2.245	101	222374	9.76	PPBV		100
22) ISOPROPYL ALCOHOL	2.261	45	211110	11.44	PPBV	#	96
23) ACETONE	2.190	58	55001	11.20	PPBV	#	56
24) PENTANE	2.358	42	105352	11.55	PPBV	#	92
25) IODOMETHANE	2.419	142	201925	9.58	PPBV	#	80
26) 1,1-DICHLOROETHYLENE	2.448	96	79054	9.72	PPBV	#	50
27) CARBON DISULFIDE	2.592	76	250468	10.14	PPBV	#	84
28) ETHANOL	2.052	45	47291	11.70	PPBV	#	98
29) BROMOETHENE	2.120	106	74833	9.65	PPBV	#	97
30) ACRYLONITRILE	2.332	52	72286	11.37	PPBV		96
31) METHYLENE CHLORIDE	2.489	84	74759	9.94	PPBV	#	51
32) 3-CHLOROPROPENE	2.531	76	41887	9.97	PPBV	#	1
33) FREON 113	2.592	151	132848	9.37	PPBV		86
34) TRANS-1,2-DICHLOROETHENE	2.850	96	87527	9.89	PPBV	#	75
35) TERTIARY BUTYL ALCOHOL	2.464	59	223606	10.44	PPBV	#	80
36) METHYL TERTIARY BUTYL ...	2.968	73	261837	9.94	PPBV	#	91
37) TETRAHYDROFURAN	3.727	72	34440	9.67	PPBV	#	62
38) HEXANE	3.467	57	122450	10.58	PPBV	#	77
39) VINYL ACETATE	3.010	86	22914	9.56	PPBV	#	1
40) 1,1-DICHLOROETHANE	2.933	63	173566	10.83	PPBV		99
41) METHYL ETHYL KETONE	3.116	72	47072	10.26	PPBV	#	4
42) CIS-1,2-DICHLOROETHENE	3.332	96	73148	9.62	PPBV		87
43) DIISOPROPYL ETHER	3.473	59	37802	10.60	PPBV		67
44) ETHYL ACETATE	3.480	61	26112	10.15	PPBV	#	39
45) METHYL ACRYLATE	3.467	55	156776	10.58	PPBV	#	98
46) CHLOROFORM	3.496	83	151815	9.87	PPBV	#	94
47) 2,4-DIMETHYLPENTANE	4.023	57	141942	10.49	PPBV		95
48) 1,1,1-TRICHLOROETHANE	4.110	97	148349	9.77	PPBV		96
49) CARBON TETRACHLORIDE	4.566	117	151276	9.74	PPBV		99
50) 1,2-DICHLOROETHANE	3.939	62	105862	10.38	PPBV	#	96
51) BENZENE	4.444	78	214825	9.63	PPBV		85
53) CYCLOHEXANE	4.669	84	93782	9.72	PPBV		86
54) 2,3-DIMETHYLPENTANE	4.939	71	48918	9.84	PPBV	#	68
55) TRICHLOROETHENE	5.406	95	96406	9.57	PPBV		98
56) 1,2-DICHLOROPROPANE	5.158	63	85559	10.32	PPBV		96
57) DIBROMOMETHANE	5.120	174	89212	9.79	PPBV		90

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W25322.D
Acq On : 4 Aug 2022 10:26 pm
Operator : thomash
Sample : icc1077-10
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 05 08:44:00 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration

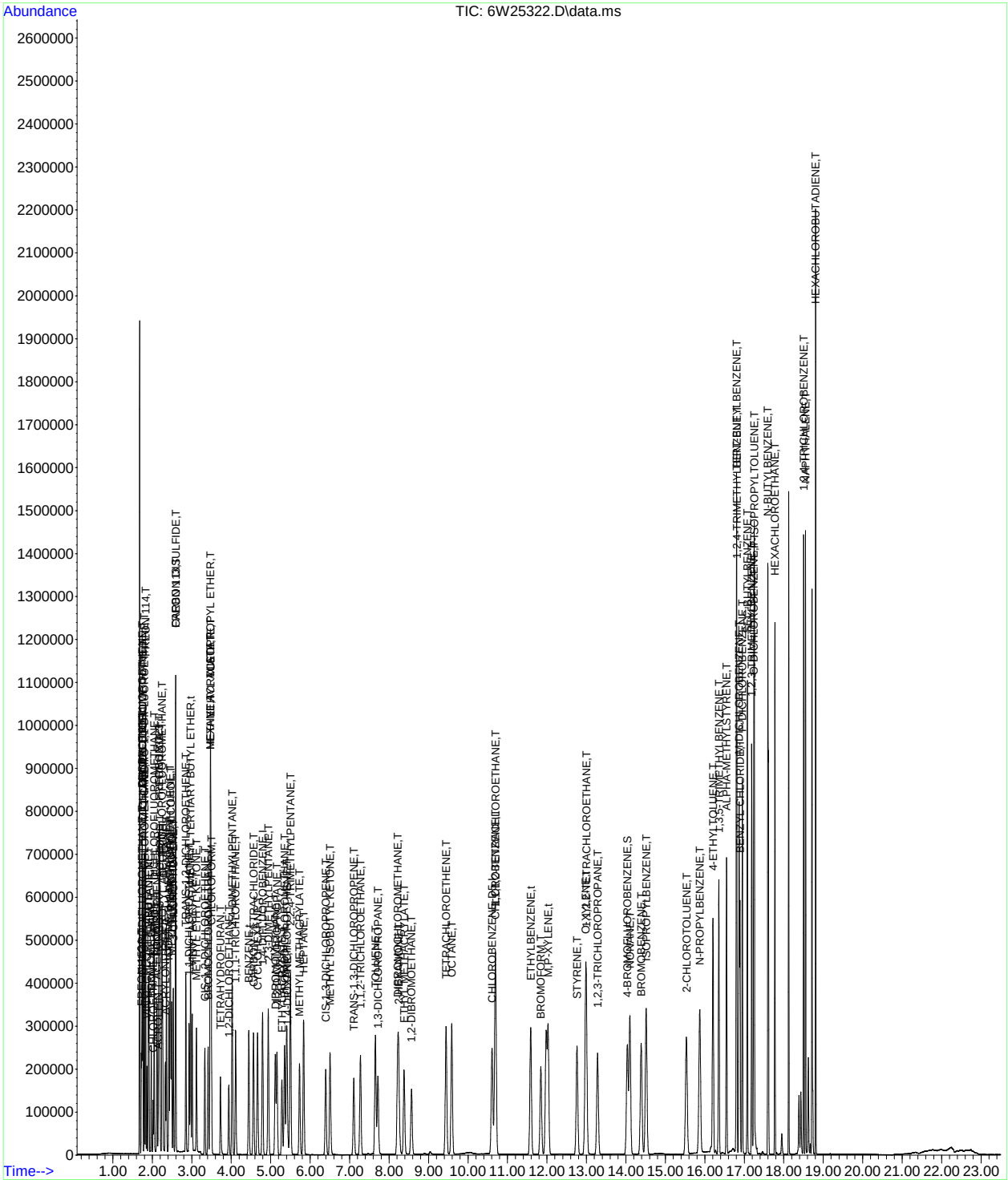
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
58)	ETHYL ACRYLATE	5.284	55	192549	10.55	PPBV		97
59)	BROMODICHLOROMETHANE	5.351	83	166474	10.13	PPBV		98
60)	2,2,4-TRIMETHYLPENTANE	5.499	57	384916	10.62	PPBV		97
61)	1,4-DIOXANE	5.422	88	51860	9.55	PPBV	#	84
62)	HEPTANE	5.833	43	145572	11.15	PPBV	#	80
63)	METHYL METHACRYLATE	5.730	69	84156	9.75	PPBV	#	64
64)	METHYL ISOBUTYL KETONE	6.502	58	75979	10.42	PPBV	#	70
65)	CIS-1,3-DICHLOROPROPENE	6.396	75	129426	9.92	PPBV	#	76
66)	TOLUENE	7.653	91	264569	9.69	PPBV		100
67)	1,3-DICHLOROPROPANE	7.714	76	137188	9.97	PPBV	#	97
68)	TRANS-1,3-DICHLOROPROPENE	7.103	75	118819	9.75	PPBV	#	78
69)	1,1,2-TRICHLOROETHANE	7.274	83	79724	9.78	PPBV		100
70)	2-HEXANONE	8.245	58	94153	10.41	PPBV	#	70
71)	ETHYL METHACRYLATE	8.380	69	135444	9.65	PPBV	#	76
72)	TETRACHLOROETHENE	9.444	164	98632	9.72	PPBV		96
73)	DIBROMOCHLOROMETHANE	8.216	129	162523	9.86	PPBV		100
74)	1,2-DIBROMOETHANE	8.566	107	145590	9.72	PPBV		100
75)	OCTANE	9.589	43	203279	11.21	PPBV	#	79
77)	1,1,1,2-TETRACHLOROETHANE	10.698	131	112918	9.58	PPBV		94
78)	CHLOROBENZENE	10.685	112	214640	9.56	PPBV		96
79)	ETHYLBENZENE	11.589	91	354193	9.64	PPBV		99
80)	M,P-XYLENE	12.029	91	548383m	19.35	PPBV		
81)	O-XYLENE	12.978	91	279711	9.78	PPBV		97
82)	STYRENE	12.762	104	211077	9.58	PPBV		97
83)	NONANE	14.103	43	218217	11.25	PPBV	#	78
84)	BROMOFORM	11.846	173	152974	10.04	PPBV		98
85)	1,1,2,2-TETRACHLOROETHANE	12.997	83	216387	9.82	PPBV		100
86)	1,2,3-TRICHLOROPROPANE	13.280	75	161976	9.85	PPBV		100
88)	ISOPROPYLBENZENE	14.511	120	108796	9.66	PPBV		88
89)	BROMOBENZENE	14.386	77	201246	9.72	PPBV		95
90)	2-CHLOROTOLUENE	15.537	126	97180	9.39	PPBV		99
91)	N-PROPYLBENZENE	15.868	120	110948	9.58	PPBV		94
92)	4-ETHYLTOLUENE	16.206	105	405879	9.62	PPBV		100
93)	1,3,5-TRIMETHYLBENZENE	16.354	105	328535	9.45	PPBV		99
94)	ALPHA-METHYLSTYRENE	16.550	118	167145	9.49	PPBV		98
95)	TERT-BUTYLBENZENE	16.801	134	84306	9.86	PPBV		99
96)	1,2,4-TRIMETHYLBENZENE	16.810	105	349884	9.70	PPBV		96
97)	BENZYL CHLORIDE	16.891	91	292815	9.28	PPBV		97
98)	M-DICHLOROBENZENE	16.868	146	231851	9.51	PPBV		98
99)	P-DICHLOROBENZENE	16.949	146	238398	9.56	PPBV		98
100)	O-DICHLOROBENZENE	17.238	146	224319	9.53	PPBV		99
101)	SEC-BUTYLBENZENE	17.077	134	101517	9.43	PPBV		99
102)	1,2,3-TRIMETHYLBENZENE	17.187	105	337663	9.68	PPBV	#	98
103)	P-ISOPROPYLTOLUENE	17.254	134	118147	9.83	PPBV		95
104)	N-BUTYLBENZENE	17.595	134	108867	9.49	PPBV		91
105)	HEXACHLOROETHANE	17.775	117	139921	9.89	PPBV		92
106)	HEXACHLOROBUTADIENE	18.807	225	191682	10.95	PPBV		99
107)	1,2,4-TRICHLOROBENZENE	18.505	180	231572	9.87	PPBV		99
108)	NAPHTHALENE	18.553	128	594992	9.65	PPBV		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W25322.D
Acq On : 4 Aug 2022 10:26 pm
Operator : thomash
Sample : icc1077-10
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 05 08:44:00 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration



Manual Integration Approval Summary

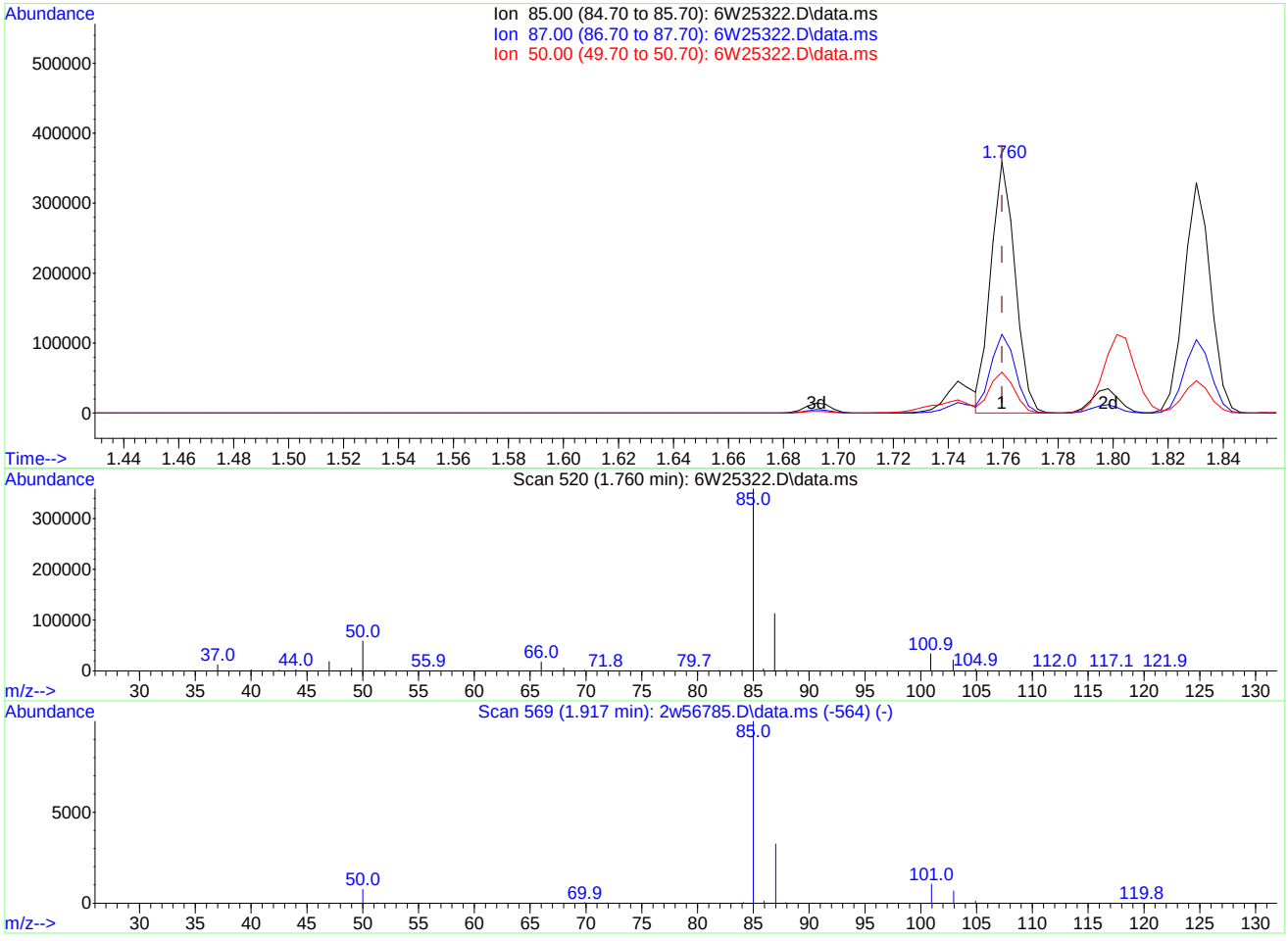
Sample Number:	V6W1077-ICC1077	**Method:**	TO-15
Lab FileID:	6W25322.D	**Analyst approved:**	08/05/22 10:02 Thomas Hilbig
Injection Time:	08/04/22 22:26	**Supervisor approved:**	08/08/22 10:23 Kanya Veerawat

Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.76	Overlapping peak
m,p-Xylene			12.03	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25322.D
Acq On : 4 Aug 2022 10:26 pm
Operator : thomash
Sample : icc1077-10
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 05 08:42:05 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration



TIC: 6W25322.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.760min (+0.000) 9.91PPBV m

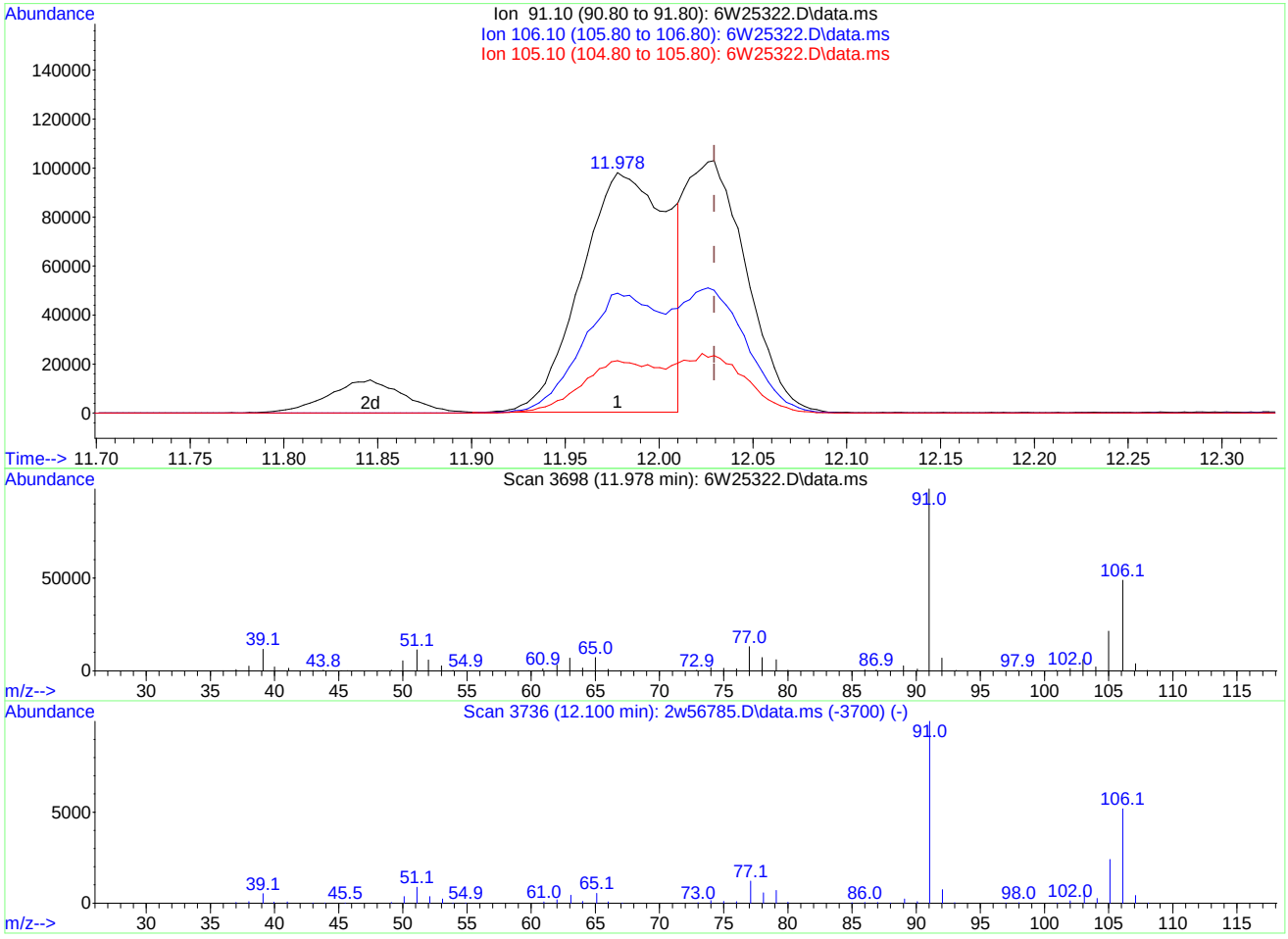
response 219494

Ion	Exp%	Act%
85.00	100	100
87.00	32.20	36.74
50.00	9.30	25.30#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25322.D
Acq On : 4 Aug 2022 10:26 pm
Operator : thomash
Sample : icc1077-10
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 05 08:42:05 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration



TIC: 6W25322.D\data.ms

(80) M,P-XYLENE (t)

11.978min (-0.051) 11.07PPBV

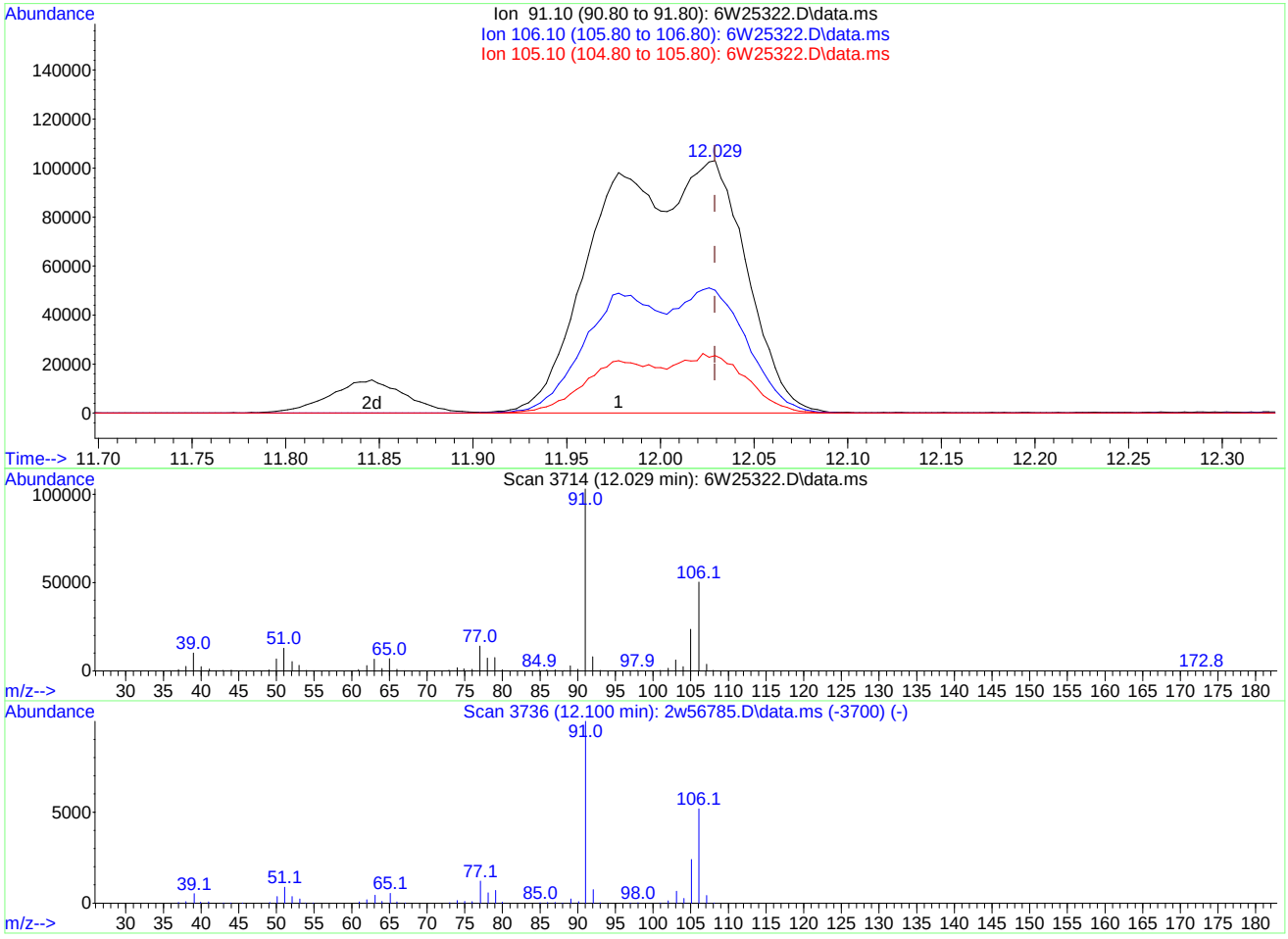
response 313719

Ion	Exp%	Act%
91.10	100	100
106.10	51.50	44.32
105.10	23.60	19.37
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25322.D
Acq On : 4 Aug 2022 10:26 pm
Operator : thomash
Sample : icc1077-10
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 05 08:42:05 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration



TIC: 6W25322.D\data.ms

(80) M,P-XYLENE (t)

12.029min (+0.000) 19.35PPBV m

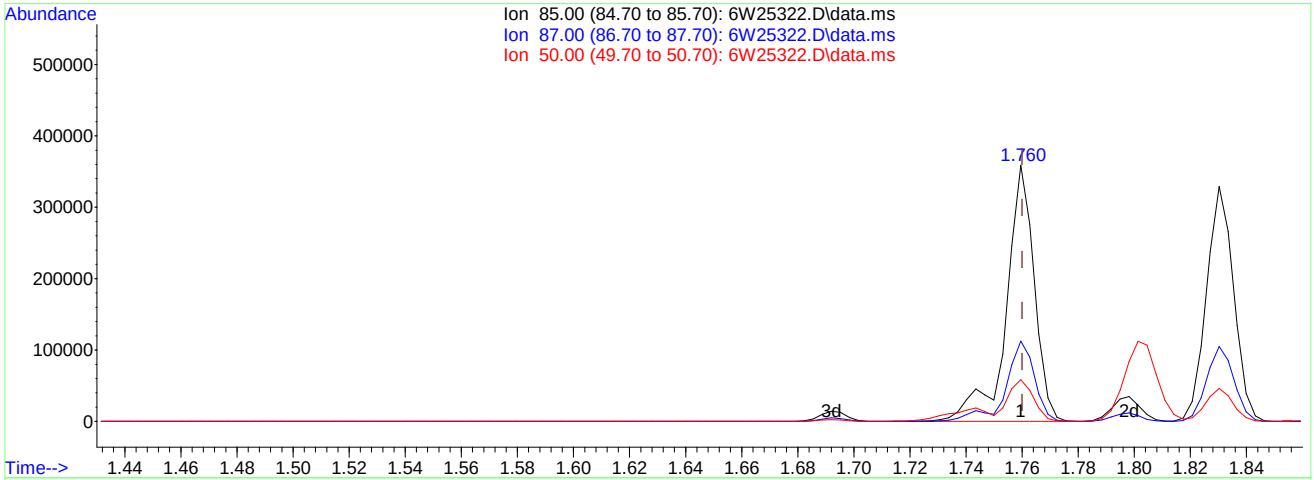
response 548383

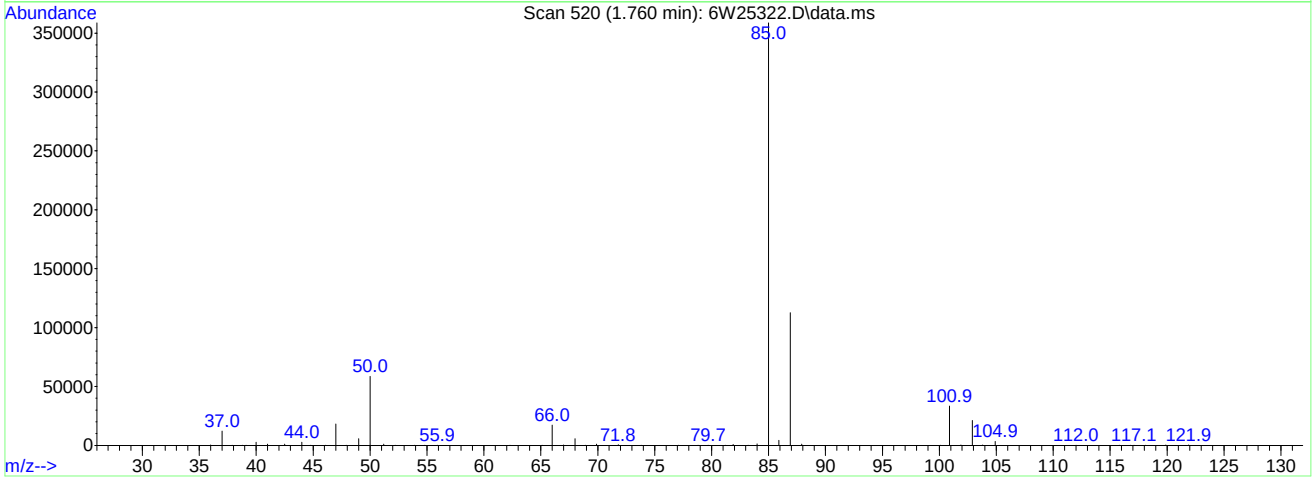
Ion	Exp%	Act%
91.10	100	100
106.10	51.50	25.36#
105.10	23.60	11.08
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\Raw Data\
Data File : 6W25322.D
Acq On : 4 Aug 2022 10:26 pm
Operator : thomash
Sample : icc1077-10
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 05 09:59:07 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 05 08:58:59 2022
Response via : Initial Calibration





TIC: 6W25322.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.760min (-0.000) 11.21PPBV

response 251374

Ion	Exp%	Act%
85.00	100	100
87.00	32.20	32.08
50.00	9.30	21.99#
0.00	0.00	0.00

6W25323.D

Manual Integrations APPROVED (compounds with "m" flag)

Kanya Veerawat 08/08/22 10:23

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W25323.D
Acq On : 4 Aug 2022 11:14 pm
Operator : thomash
Sample : ic1077-20
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 05 08:46:06 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.412	128	47197	10.00	PPBV	#	0.00
52) 1,4-DIFLUOROBENZENE	4.792	114	247829	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	10.605	117	218360	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	14.036	95	153142	10.00	PPBV		0.00
Target Compounds							Qvalue
3) FREON 152A	1.721	65	80142	20.58	PPBV	#	81
4) CHLORODIFLUOROMETHANE	1.731	67	36589	21.05	PPBV		96
5) CHLOROTRIFLUOROETHENE	1.744	116	176516	18.90	PPBV	#	100
6) DICHLORODIFLUOROMETHANE	1.760	85	424890m	19.01	PPBV		
7) PROPYLENE	1.740	41	116034	22.19	PPBV		98
8) 1-CHLORO-1,1-DIFLUOROE...	1.795	65	451242	21.85	PPBV	#	85
9) FREON 114	1.830	85	461804	20.63	PPBV		93
10) CHLOROMETHANE	1.801	52	56957	22.99	PPBV		93
11) VINYL CHLORIDE	1.863	62	194567	22.13	PPBV		97
12) 1,3-BUTADIENE	1.898	54	153442	22.71	PPBV	#	70
13) N-BUTANE	1.914	43	309712	24.15	PPBV	#	92
14) BROMOMETHANE	1.972	94	153442	20.36	PPBV		99
15) CHLOROETHANE	2.020	64	98448	22.06	PPBV		95
16) DICHLOROFLUOROMETHANE	2.046	67	409965	21.39	PPBV	#	95
17) ACETONITRILE	2.110	41	186787	24.27	PPBV		95
18) ACROLEIN	2.149	56	75132	22.51	PPBV		100
19) FREON 123	2.165	83	390500	20.27	PPBV		98
20) FREON 123A	2.181	117	214560	19.88	PPBV	#	73
21) TRICHLOROFLUOROMETHANE	2.245	101	460738	20.05	PPBV		100
22) ISOPROPYL ALCOHOL	2.261	45	426995	22.93	PPBV	#	97
23) ACETONE	2.187	58	111318	22.47	PPBV	#	54
24) PENTANE	2.358	42	218328	23.73	PPBV	#	93
25) IODOMETHANE	2.419	142	416538	19.59	PPBV	#	80
26) 1,1-DICHLOROETHYLENE	2.448	96	163521	19.93	PPBV	#	52
27) CARBON DISULFIDE	2.592	76	521364	20.93	PPBV	#	84
28) ETHANOL	2.049	45	95993	23.54	PPBV	#	96
29) BROMOETHENE	2.120	106	155107	19.83	PPBV	#	97
30) ACRYLONITRILE	2.329	52	146754	22.89	PPBV		96
31) METHYLENE CHLORIDE	2.486	84	152805	20.15	PPBV	#	53
32) 3-CHLOROPROPENE	2.531	76	87215	20.58	PPBV	#	1
33) FREON 113	2.589	151	277793	19.43	PPBV		87
34) TRANS-1,2-DICHLOROETHENE	2.846	96	179558	20.12	PPBV	#	75
35) TERTIARY BUTYL ALCOHOL	2.461	59	458757	21.24	PPBV	#	80
36) METHYL TERTIARY BUTYL ...	2.965	73	538778	20.28	PPBV	#	92
37) TETRAHYDROFURAN	3.721	72	71300	19.86	PPBV	#	64
38) HEXANE	3.467	57	253281	21.69	PPBV	#	77
39) VINYL ACETATE	3.010	86	50767	21.00	PPBV	#	1
40) 1,1-DICHLOROETHANE	2.930	63	355239	21.97	PPBV		99
41) METHYL ETHYL KETONE	3.116	72	94733	20.48	PPBV	#	5
42) CIS-1,2-DICHLOROETHENE	3.332	96	148217	19.32	PPBV	#	84
43) DIISOPROPYL ETHER	3.473	59	79319	22.05	PPBV		71
44) ETHYL ACETATE	3.480	61	54879	21.15	PPBV	#	44
45) METHYL ACRYLATE	3.467	55	329997	22.07	PPBV	#	97
46) CHLOROFORM	3.496	83	310401	20.01	PPBV	#	94
47) 2,4-DIMETHYLPENTANE	4.023	57	292598	21.44	PPBV		95
48) 1,1,1-TRICHLOROETHANE	4.110	97	307602	20.08	PPBV		96
49) CARBON TETRACHLORIDE	4.563	117	319846	20.42	PPBV		98
50) 1,2-DICHLOROETHANE	3.936	62	218485	21.25	PPBV	#	95
51) BENZENE	4.444	78	442215	19.66	PPBV		86
53) CYCLOHEXANE	4.666	84	193999	20.16	PPBV		85
54) 2,3-DIMETHYLPENTANE	4.940	71	101231	20.41	PPBV	#	68
55) TRICHLOROETHENE	5.403	95	199872	19.88	PPBV		98
56) 1,2-DICHLOROPROPANE	5.158	63	177997	21.52	PPBV		96
57) DIBROMOMETHANE	5.116	174	184490	20.28	PPBV		90

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W25323.D
Acq On : 4 Aug 2022 11:14 pm
Operator : thomash
Sample : ic1077-20
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 05 08:46:06 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration

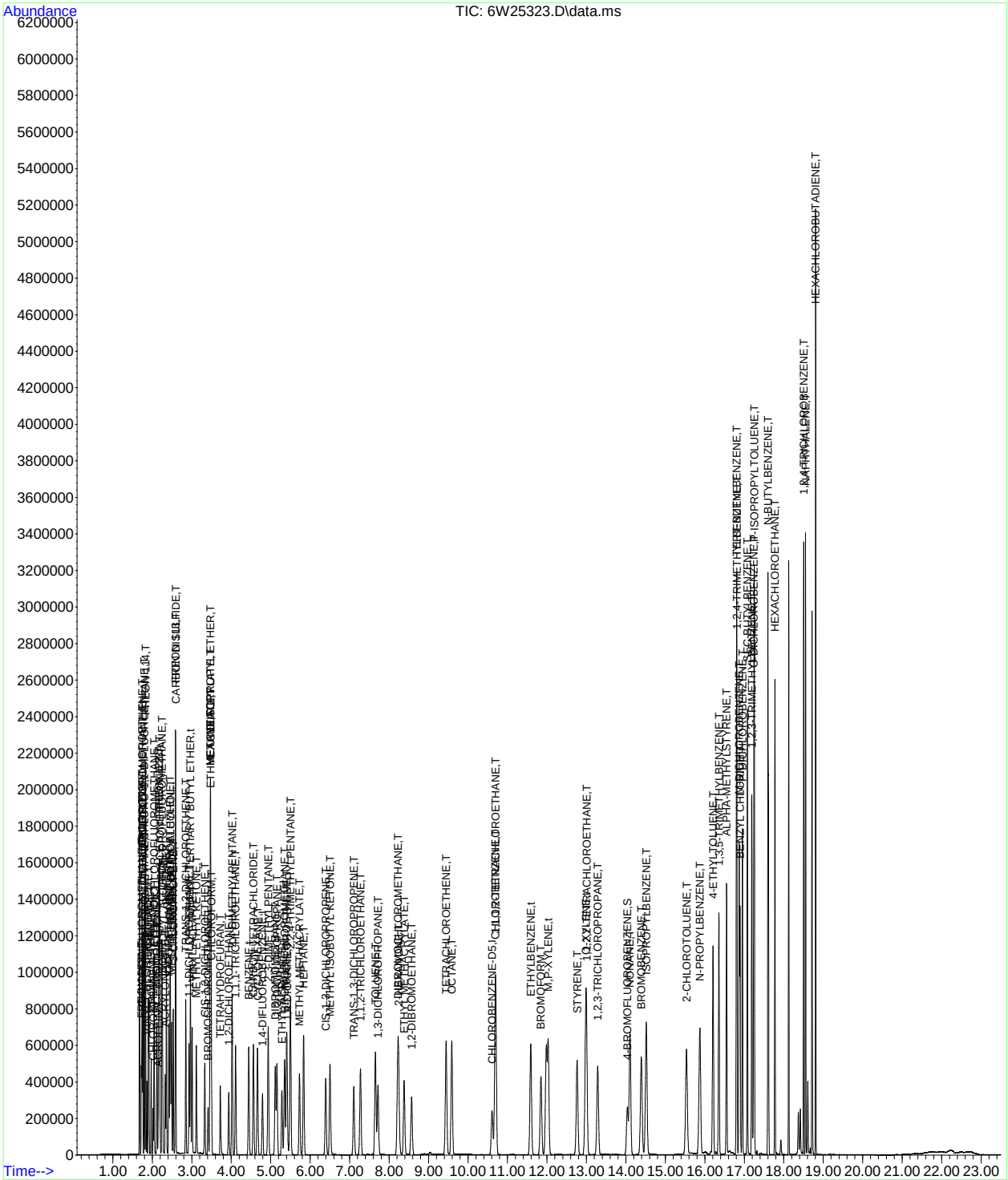
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
58)	ETHYL ACRYLATE	5.284	55	400515	21.99	PPBV		98
59)	BROMODICHLOROMETHANE	5.351	83	342541	20.89	PPBV		99
60)	2,2,4-TRIMETHYLPENTANE	5.499	57	793063	21.93	PPBV		97
61)	1,4-DIOXANE	5.419	88	105910	19.55	PPBV	#	86
62)	HEPTANE	5.833	43	300526	23.07	PPBV	#	80
63)	METHYL METHACRYLATE	5.727	69	177619	20.62	PPBV	#	65
64)	METHYL ISOBUTYL KETONE	6.502	58	157307	21.63	PPBV	#	70
65)	CIS-1,3-DICHLOROPROPENE	6.396	75	268944	20.65	PPBV	#	76
66)	TOLUENE	7.653	91	542713	19.91	PPBV		100
67)	1,3-DICHLOROPROPANE	7.718	76	280212	20.41	PPBV	#	98
68)	TRANS-1,3-DICHLOROPROPENE	7.107	75	253438	20.84	PPBV	#	78
69)	1,1,2-TRICHLOROETHANE	7.274	83	164824	20.25	PPBV		99
70)	2-HEXANONE	8.242	58	196570	21.79	PPBV	#	71
71)	ETHYL METHACRYLATE	8.383	69	282008	20.13	PPBV	#	76
72)	TETRACHLOROETHENE	9.444	164	202319	19.98	PPBV		95
73)	DIBROMOCHLOROMETHANE	8.219	129	343034	20.85	PPBV		99
74)	1,2-DIBROMOETHANE	8.570	107	302112	20.21	PPBV		100
75)	OCTANE	9.586	43	418277	23.13	PPBV	#	80
77)	1,1,1,2-TETRACHLOROETHANE	10.701	131	236743	20.24	PPBV		94
78)	CHLOROBENZENE	10.689	112	446149	20.04	PPBV		98
79)	ETHYLBENZENE	11.589	91	737010	20.22	PPBV		99
80)	M,P-XYLENE	12.029	91	1137198	40.45	PPBV	#	63
81)	O-XYLENE	12.981	91	575238	20.27	PPBV		98
82)	STYRENE	12.766	104	440587	20.16	PPBV		96
83)	NONANE	14.100	43	446282	23.19	PPBV	#	78
84)	BROMOFORM	11.846	173	326605	21.61	PPBV		98
85)	1,1,2,2-TETRACHLOROETHANE	13.004	83	450382	20.61	PPBV		100
86)	1,2,3-TRICHLOROPROPANE	13.290	75	336113	20.60	PPBV	#	100
88)	ISOPROPYLBENZENE	14.515	120	224152	20.06	PPBV		87
89)	BROMOBENZENE	14.389	77	421482	20.52	PPBV		94
90)	2-CHLOROTOLUENE	15.537	126	204927	19.97	PPBV		98
91)	N-PROPYLBENZENE	15.872	120	228812	19.92	PPBV		99
92)	4-ETHYLTOLUENE	16.209	105	848728	20.29	PPBV		100
93)	1,3,5-TRIMETHYLBENZENE	16.357	105	705951	20.47	PPBV		98
94)	ALPHA-METHYLSTYRENE	16.550	118	357819	20.48	PPBV		98
95)	TERT-BUTYLBENZENE	16.804	134	173048	20.41	PPBV		97
96)	1,2,4-TRIMETHYLBENZENE	16.814	105	748477	20.91	PPBV		93
97)	BENZYL CHLORIDE	16.894	91	660483	21.10	PPBV		97
98)	M-DICHLOROBENZENE	16.872	146	488346	20.20	PPBV		98
99)	P-DICHLOROBENZENE	16.952	146	501325	20.26	PPBV		99
100)	O-DICHLOROBENZENE	17.241	146	479793	20.55	PPBV		98
101)	SEC-BUTYLBENZENE	17.077	134	216837	20.31	PPBV		99
102)	1,2,3-TRIMETHYLBENZENE	17.190	105	725851	20.97	PPBV	#	98
103)	P-ISOPROPYLTOLUENE	17.254	134	255319	21.41	PPBV		95
104)	N-BUTYLBENZENE	17.598	134	240696	21.16	PPBV		93
105)	HEXACHLOROETHANE	17.778	117	310425	22.12	PPBV		92
106)	HEXACHLOROBUTADIENE	18.807	225	446278	25.69	PPBV		99
107)	1,2,4-TRICHLOROBENZENE	18.505	180	517715	22.24	PPBV		98
108)	NAPHTHALENE	18.553	128	1297725	21.21	PPBV		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W25323.D
Acq On : 4 Aug 2022 11:14 pm
Operator : thomash
Sample : ic1077-20
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 05 08:46:06 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration



Manual Integration Approval Summary

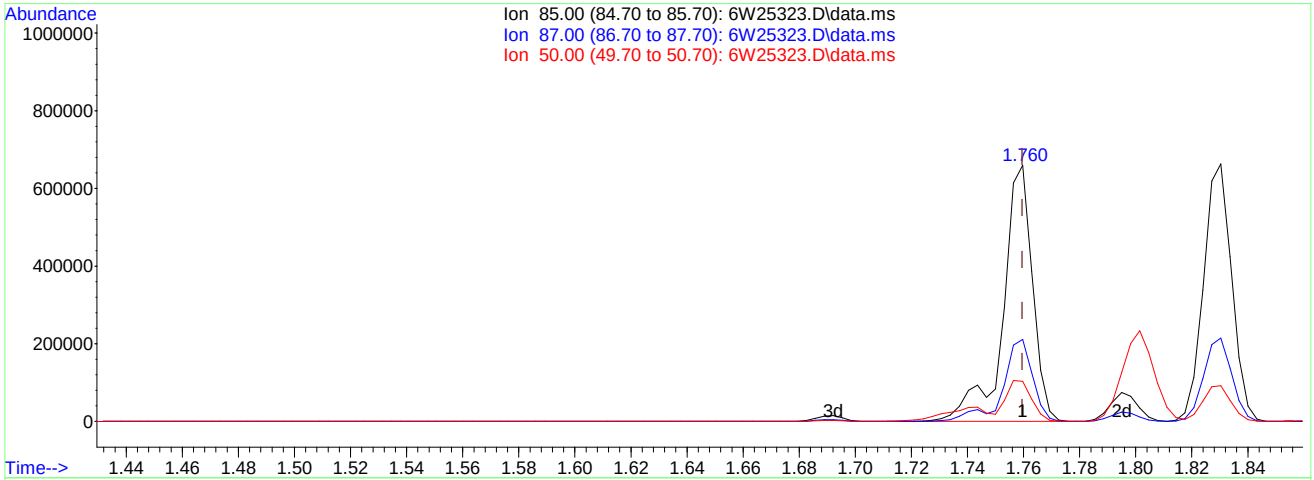
Sample Number:	V6W1077-IC1077	**Method:**	TO-15
Lab FileID:	6W25323.D	**Analyst approved:**	08/05/22 10:02 Thomas Hilbig
Injection Time:	08/04/22 23:14	**Supervisor approved:**	08/08/22 10:23 Kanya Veerawat

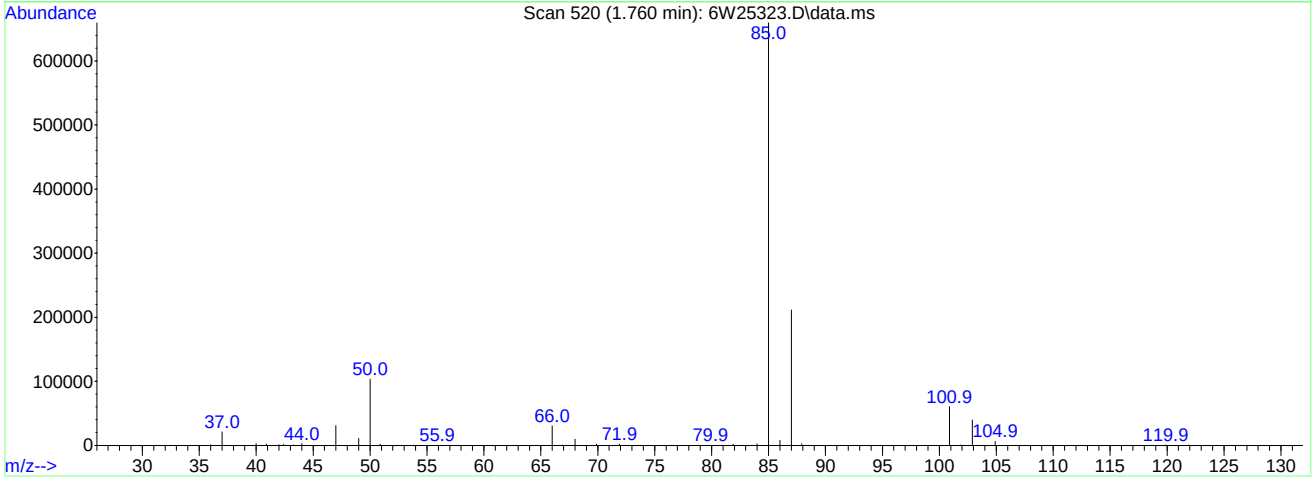
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.76	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25323.D
Acq On : 4 Aug 2022 11:14 pm
Operator : thomash
Sample : ic1077-20
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 05 08:45:32 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration





TIC: 6W25323.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.760min (+0.000) 21.64PPBV

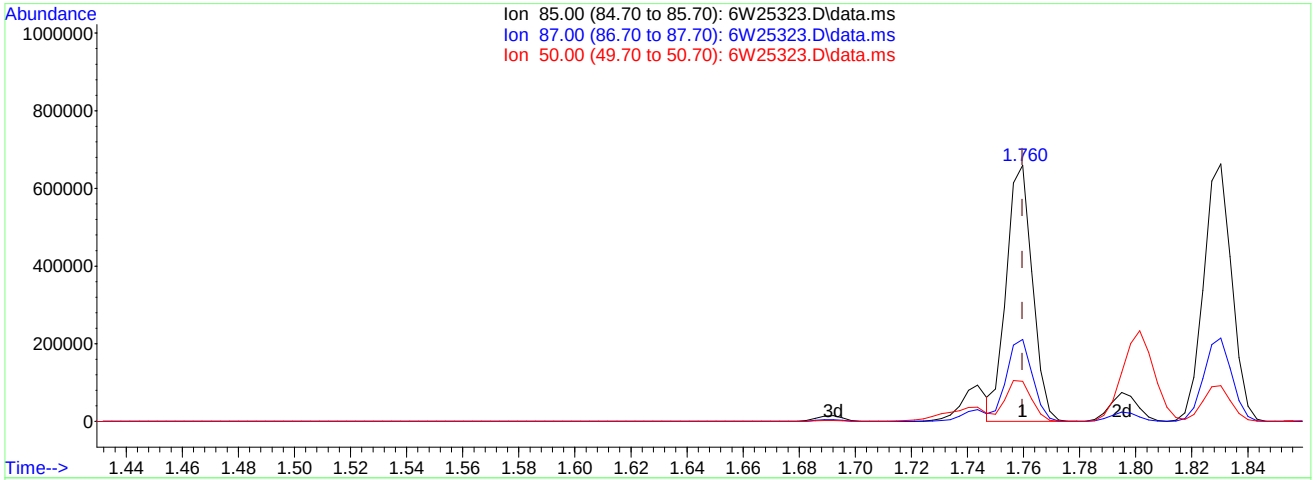
response 483552

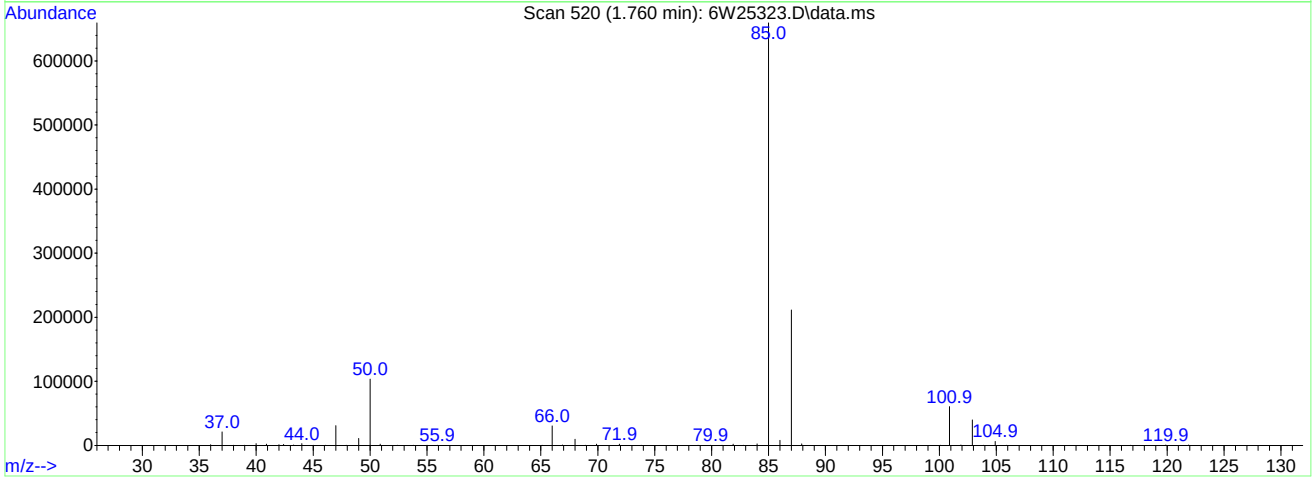
Ion	Exp%	Act%
85.00	100	100
87.00	32.20	32.23
50.00	9.30	22.06#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25323.D
Acq On : 4 Aug 2022 11:14 pm
Operator : thomash
Sample : ic1077-20
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 05 08:45:32 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration





TIC: 6W25323.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.760min (+0.000) 19.01PPBV m

response 424890

Ion	Exp%	Act%
85.00	100	100
87.00	32.20	36.69
50.00	9.30	25.11#
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/08/22 10:23

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W25324.D
Acq On : 5 Aug 2022 12:05 am
Operator : thomash
Sample : ic1077-40
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 05 08:48:25 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.415	128	51457	10.00	PPBV	#	0.00
52) 1,4-DIFLUOROBENZENE	4.791	114	252022	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	10.611	117	222394	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	14.035	95	159073	10.20	PPBV		0.00
Target Compounds							Qvalue
3) FREON 152A	1.721	65	167314m	39.41	PPBV		
4) CHLORODIFLUOROMETHANE	1.734	67	75640	39.92	PPBV		99
5) CHLOROTRIFLUOROETHENE	1.743	116	376941	37.02	PPBV	#	100
6) DICHLORODIFLUOROMETHANE	1.759	85	790122m	32.43	PPBV		
7) PROPYLENE	1.743	41	246106	43.17	PPBV		97
8) 1-CHLORO-1,1-DIFLUOROE...	1.798	65	941405	41.80	PPBV	#	86
9) FREON 114	1.830	85	980558	40.17	PPBV		93
10) CHLOROMETHANE	1.801	52	117596	43.53	PPBV		91
11) VINYL CHLORIDE	1.862	62	402312	41.97	PPBV		97
12) 1,3-BUTADIENE	1.901	54	320102	43.46	PPBV	#	70
13) N-BUTANE	1.914	43	643305	46.01	PPBV	#	92
14) BROMOMETHANE	1.975	94	318811	38.80	PPBV		100
15) CHLOROETHANE	2.020	64	206500	42.44	PPBV		97
16) DICHLOROFLUOROMETHANE	2.046	67	867466	41.51	PPBV	#	94
17) ACETONITRILE	2.113	41	389793	46.46	PPBV		97
18) ACROLEIN	2.152	56	154949	42.58	PPBV		98
19) FREON 123	2.168	83	825981	39.33	PPBV		99
20) FREON 123A	2.184	117	458263	38.95	PPBV	#	74
21) TRICHLOROFLUOROMETHANE	2.245	101	980200	39.13	PPBV		99
22) ISOPROPYL ALCOHOL	2.261	45	874592	43.08	PPBV	#	98
23) ACETONE	2.190	58	234733	43.45	PPBV	#	55
24) PENTANE	2.357	42	451730	45.04	PPBV	#	92
25) IODOMETHANE	2.422	142	885173	38.19	PPBV	#	80
26) 1,1-DICHLOROETHYLENE	2.447	96	344299	38.49	PPBV	#	50
27) CARBON DISULFIDE	2.592	76	1116880	41.12	PPBV	#	85
28) ETHANOL	2.049	45	197012	44.31	PPBV		97
29) BROMOETHENE	2.120	106	323066	37.89	PPBV	#	97
30) ACRYLONITRILE	2.332	52	303106	43.37	PPBV		96
31) METHYLENE CHLORIDE	2.489	84	320065	38.70	PPBV	#	55
32) 3-CHLOROPROPENE	2.531	76	184463	39.92	PPBV	#	1
33) FREON 113	2.592	151	595278	38.18	PPBV		86
34) TRANS-1,2-DICHLOROETHENE	2.849	96	380433	39.10	PPBV	#	76
35) TERTIARY BUTYL ALCOHOL	2.460	59	956482	40.62	PPBV	#	79
36) METHYL TERTIARY BUTYL ...	2.968	73	1138098	39.28	PPBV	#	91
37) TETRAHYDROFURAN	3.721	72	150264	38.38	PPBV	#	64
38) HEXANE	3.467	57	544217	42.75	PPBV	#	77
39) VINYL ACETATE	3.010	86	108110	41.02	PPBV	#	1
40) 1,1-DICHLOROETHANE	2.933	63	744076	42.21	PPBV		99
41) METHYL ETHYL KETONE	3.116	72	199462	39.54	PPBV	#	8
42) CIS-1,2-DICHLOROETHENE	3.332	96	393345	47.02	PPBV	#	74
43) DIISOPROPYL ETHER	3.476	59	168118	42.86	PPBV		67
44) ETHYL ACETATE	3.483	61	117652	41.58	PPBV	#	42
45) METHYL ACRYLATE	3.467	55	713783	43.79	PPBV	#	97
46) CHLOROFORM	3.499	83	660724	39.07	PPBV	#	95
47) 2,4-DIMETHYLPENTANE	4.023	57	621347	41.76	PPBV		95
48) 1,1,1-TRICHLOROETHANE	4.113	97	655640	39.26	PPBV		96
49) CARBON TETRACHLORIDE	4.566	117	679873	39.81	PPBV		99
50) 1,2-DICHLOROETHANE	3.939	62	462042	41.21	PPBV	#	95
51) BENZENE	4.447	78	940544	38.35	PPBV		86
53) CYCLOHEXANE	4.666	84	411471	42.04	PPBV		85
54) 2,3-DIMETHYLPENTANE	4.939	71	214295	42.48	PPBV	#	68
55) TRICHLOROETHENE	5.409	95	427263	41.80	PPBV		98
56) 1,2-DICHLOROPROPANE	5.161	63	375778	44.67	PPBV		96
57) DIBROMOMETHANE	5.119	174	393567	42.55	PPBV		90

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W25324.D
Acq On : 5 Aug 2022 12:05 am
Operator : thomash
Sample : ic1077-40
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 05 08:48:25 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration

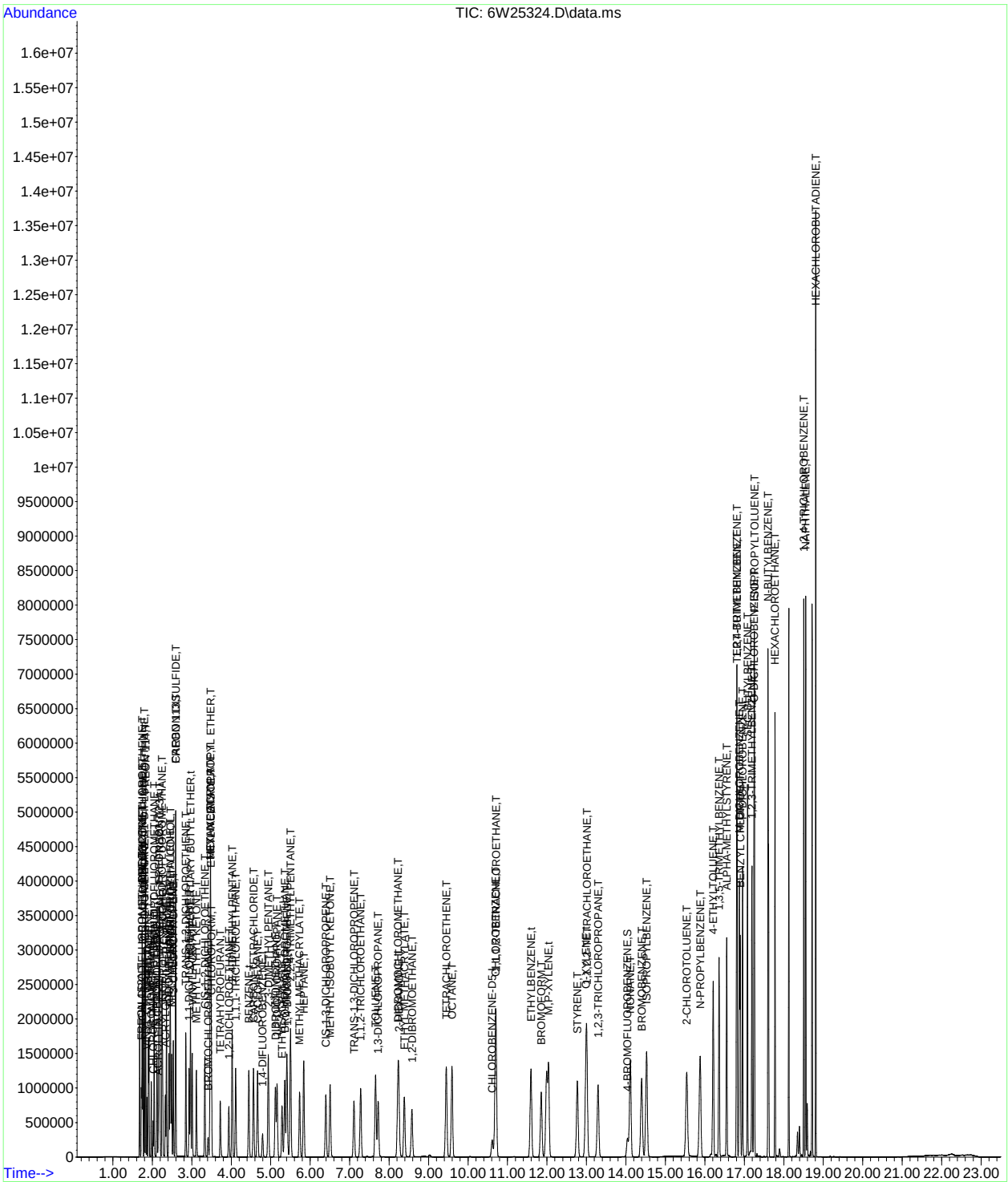
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
58) ETHYL ACRYLATE	5.287	55	852425	46.03	PPBV		98
59) BROMODICHLOROMETHANE	5.357	83	730804	43.83	PPBV		99
60) 2,2,4-TRIMETHYLPENTANE	5.502	57	1684543	45.81	PPBV		98
61) 1,4-DIOXANE	5.418	88	224773	40.81	PPBV	#	83
62) HEPTANE	5.836	43	632032	47.71	PPBV	#	81
63) METHYL METHACRYLATE	5.730	69	375452	42.86	PPBV	#	65
64) METHYL ISOBUTYL KETONE	6.505	58	331921	44.87	PPBV	#	71
65) CIS-1,3-DICHLOROPROPENE	6.396	75	578594	43.69	PPBV	#	76
66) TOLUENE	7.656	91	1155848	41.70	PPBV		100
67) 1,3-DICHLOROPROPANE	7.721	76	595322	42.63	PPBV	#	98
68) TRANS-1,3-DICHLOROPROPENE	7.110	75	548481	44.35	PPBV	#	79
69) 1,1,2-TRICHLOROETHANE	7.277	83	351605	42.49	PPBV		99
70) 2-HEXANONE	8.248	58	415747	45.32	PPBV	#	71
71) ETHYL METHACRYLATE	8.386	69	605237	42.48	PPBV	#	76
72) TETRACHLOROETHENE	9.447	164	433967	42.15	PPBV		96
73) DIBROMOCHLOROMETHANE	8.222	129	740322	44.24	PPBV		99
74) 1,2-DIBROMOETHANE	8.579	107	641800	42.23	PPBV		100
75) OCTANE	9.592	43	888077	48.28	PPBV	#	80
77) 1,1,1,2-TETRACHLOROETHANE	10.711	131	510561	42.86	PPBV		94
78) CHLOROBENZENE	10.695	112	954238	42.08	PPBV		98
79) ETHYLBENZENE	11.595	91	1569621	42.28	PPBV		99
80) M,P-XYLENE	12.036	91	2430231m	84.87	PPBV		
81) O-XYLENE	12.990	91	1230020	42.55	PPBV		97
82) STYRENE	12.769	104	943477	42.40	PPBV		96
83) NONANE	14.109	43	948852	48.41	PPBV	#	77
84) BROMOFORM	11.852	173	712871	46.31	PPBV		99
85) 1,1,2,2-TETRACHLOROETHANE	13.010	83	966564	43.42	PPBV		100
86) 1,2,3-TRICHLOROPROPANE	13.296	75	718280	43.22	PPBV	#	100
88) ISOPROPYLBENZENE	14.524	120	483235	42.47	PPBV		88
89) BROMOBENZENE	14.399	77	893556	42.71	PPBV		95
90) 2-CHLOROTOLUENE	15.540	126	437565	41.87	PPBV		99
91) N-PROPYLBENZENE	15.884	120	491467	42.01	PPBV		99
92) 4-ETHYLTOLUENE	16.212	105	1848091	43.38	PPBV		100
93) 1,3,5-TRIMETHYLBENZENE	16.360	105	1553812	44.24	PPBV		98
94) ALPHA-METHYLSTYRENE	16.556	118	784003	44.07	PPBV		98
95) TERT-BUTYLBENZENE	16.807	134	387015	44.82	PPBV		97
96) 1,2,4-TRIMETHYLBENZENE	16.817	105	1699626	46.62	PPBV		92
97) BENZYL CHLORIDE	16.897	91	1535145	48.15	PPBV	#	97
98) M-DICHLOROBENZENE	16.875	146	1077373	43.76	PPBV		98
99) P-DICHLOROBENZENE	16.955	146	1099820	43.64	PPBV		98
100) O-DICHLOROBENZENE	17.244	146	1088901	45.79	PPBV		98
101) SEC-BUTYLBENZENE	17.080	134	484541	44.55	PPBV		97
102) 1,2,3-TRIMETHYLBENZENE	17.193	105	1635987	46.40	PPBV	#	97
103) P-ISOPROPYLTOLUENE	17.257	134	561384	46.22	PPBV		97
104) N-BUTYLBENZENE	17.601	134	541860	46.78	PPBV		91
105) HEXACHLOROETHANE	17.778	117	736445	51.53	PPBV		92
106) HEXACHLOROBUTADIENE	18.810	225	1112623	62.89	PPBV		99
107) 1,2,4-TRICHLOROBENZENE	18.508	180	1241709	52.38	PPBV		98
108) NAPHTHALENE	18.556	128	3055760	49.04	PPBV		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W25324.D
Acq On : 5 Aug 2022 12:05 am
Operator : thomash
Sample : ic1077-40
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 05 08:48:25 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration



Manual Integration Approval Summary

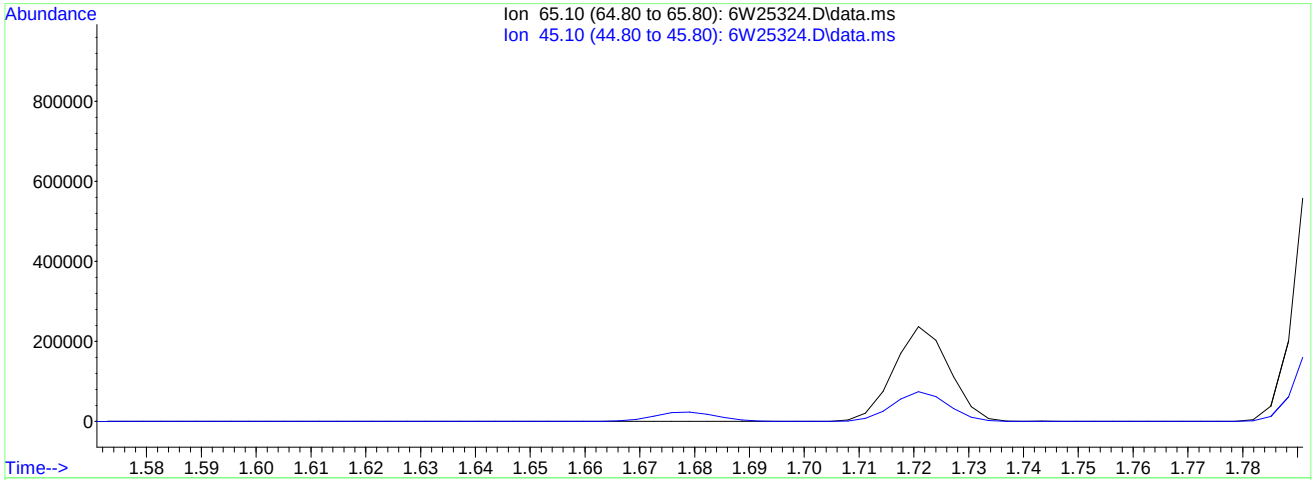
Sample Number: V6W1077-IC1077 **Method:** TO-15
Lab FileID: 6W25324.D **Analyst approved:** 08/05/22 10:02 Thomas Hilbig
Injection Time: 08/05/22 00:05 **Supervisor approved:** 08/08/22 10:23 Kanya Veerawat

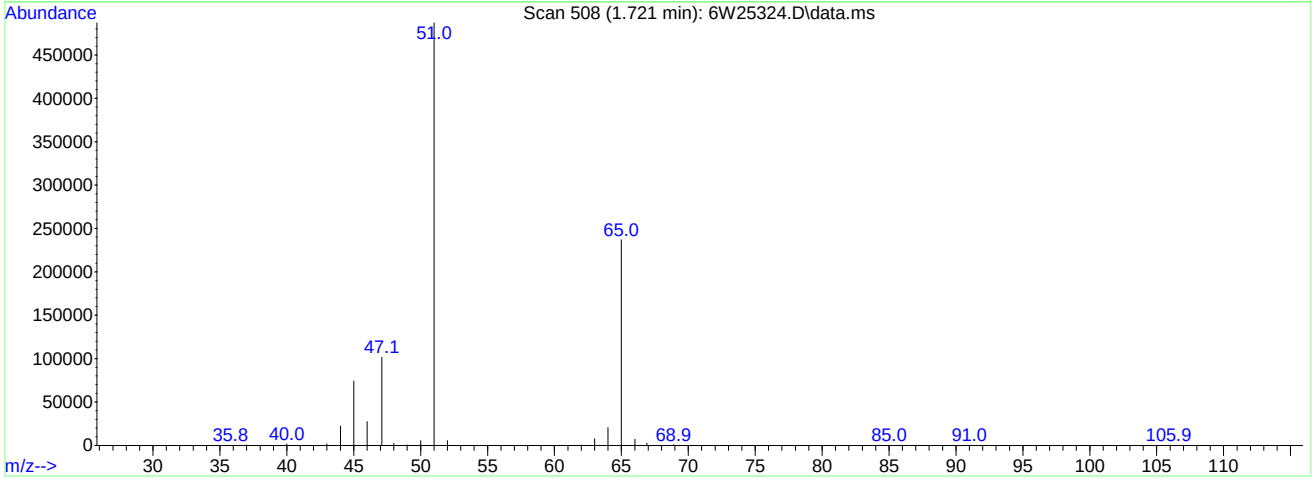
Parameter	CAS	Sig#	R.T. (min.)	Reason
Freon 152A	75-37-6		1.72	Missed peak
Dichlorodifluoromethane	75-71-8		1.76	Overlapping peak
m,p-Xylene			12.04	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25324.D
Acq On : 5 Aug 2022 12:05 am
Operator : thomash
Sample : ic1077-40
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 05 08:47:15 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration





TIC: 6W25324.D\data.ms

(3) FREON 152A (T)

1.721min (-1.721) 0.00PPBV

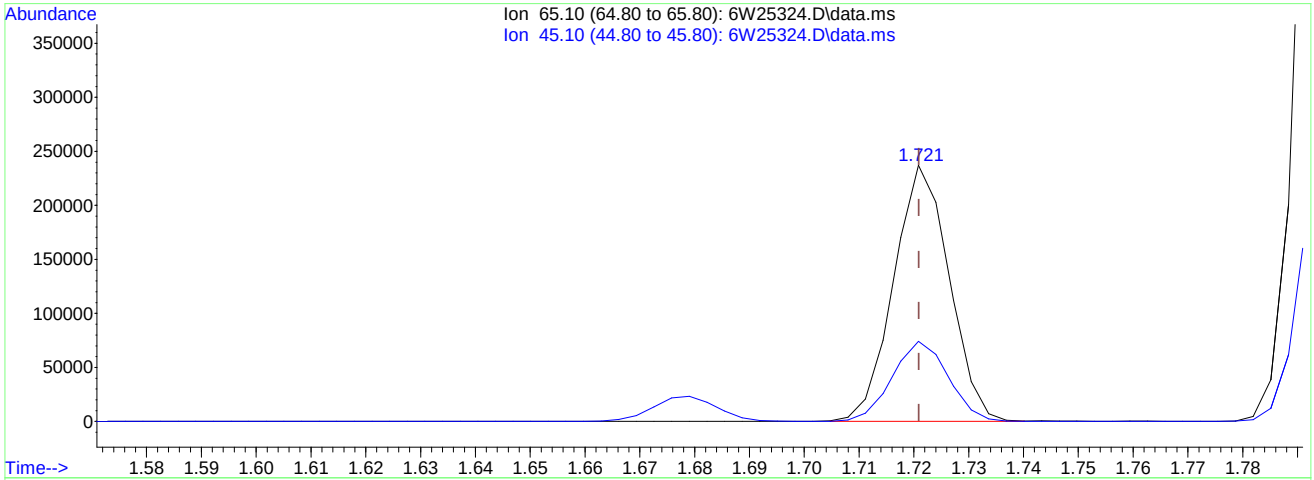
response 0

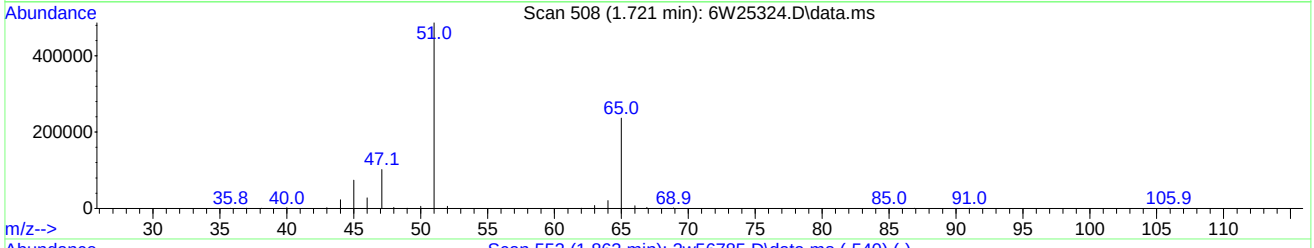
Ion	Exp%	Act%
65.10	100	0.00
45.10	22.90	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

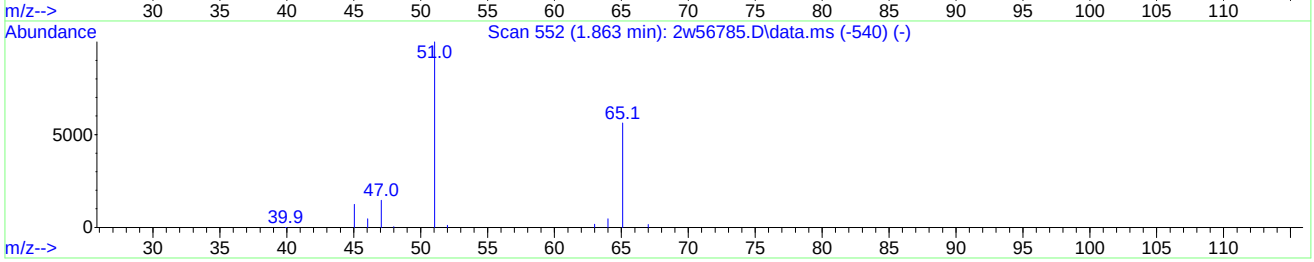
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25324.D
Acq On : 5 Aug 2022 12:05 am
Operator : thomash
Sample : ic1077-40
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 05 08:47:15 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration







TIC: 6W25324.D\data.ms

(3) FREON 152A (T)

1.721min (-0.000) 39.41PPBV m

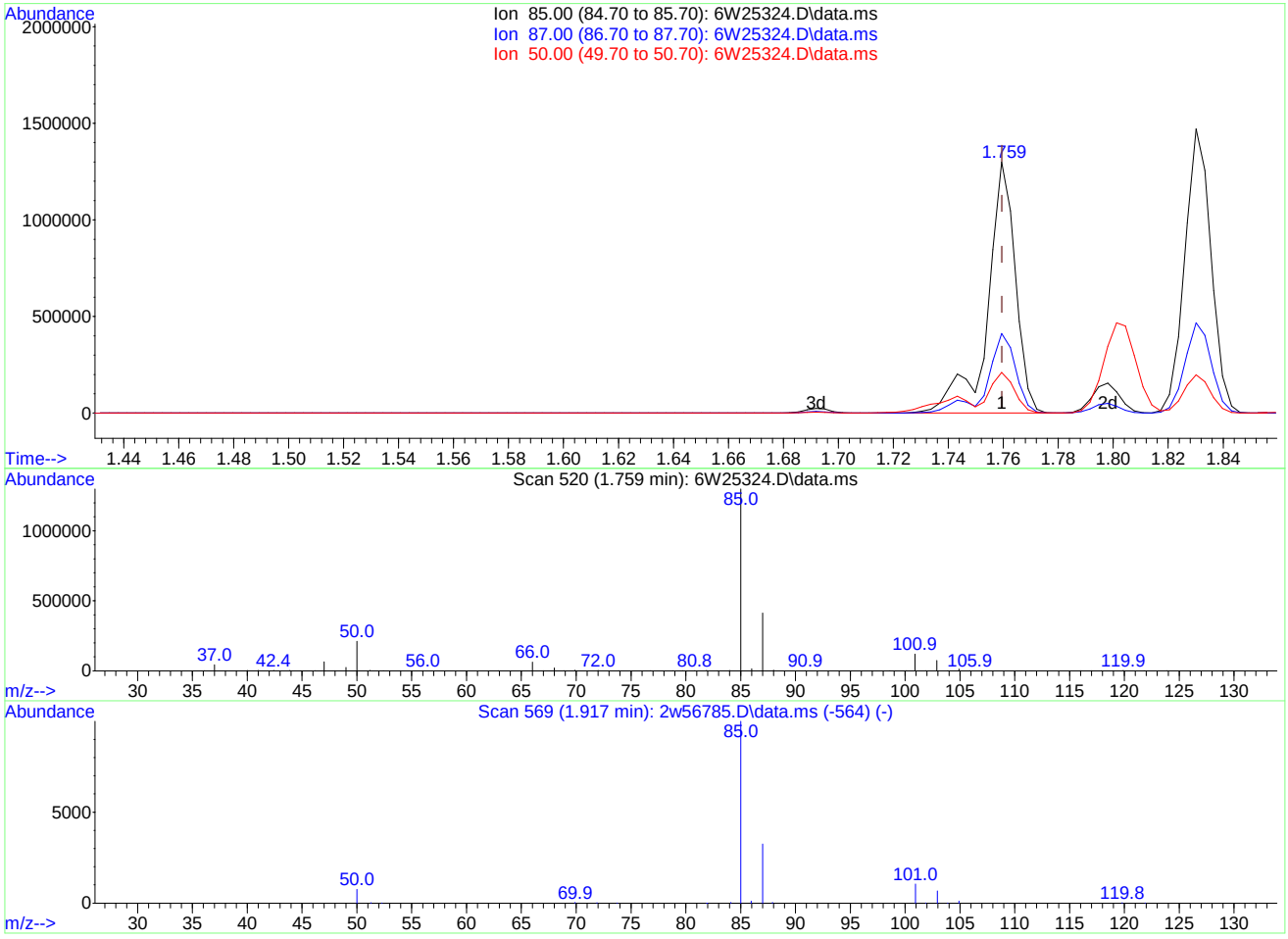
response 167314

Ion	Exp%	Act%
65.10	100	100
45.10	22.90	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25324.D
Acq On : 5 Aug 2022 12:05 am
Operator : thomash
Sample : ic1077-40
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 05 08:47:15 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration



TIC: 6W25324.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.759min (-0.000) 37.96PPBV

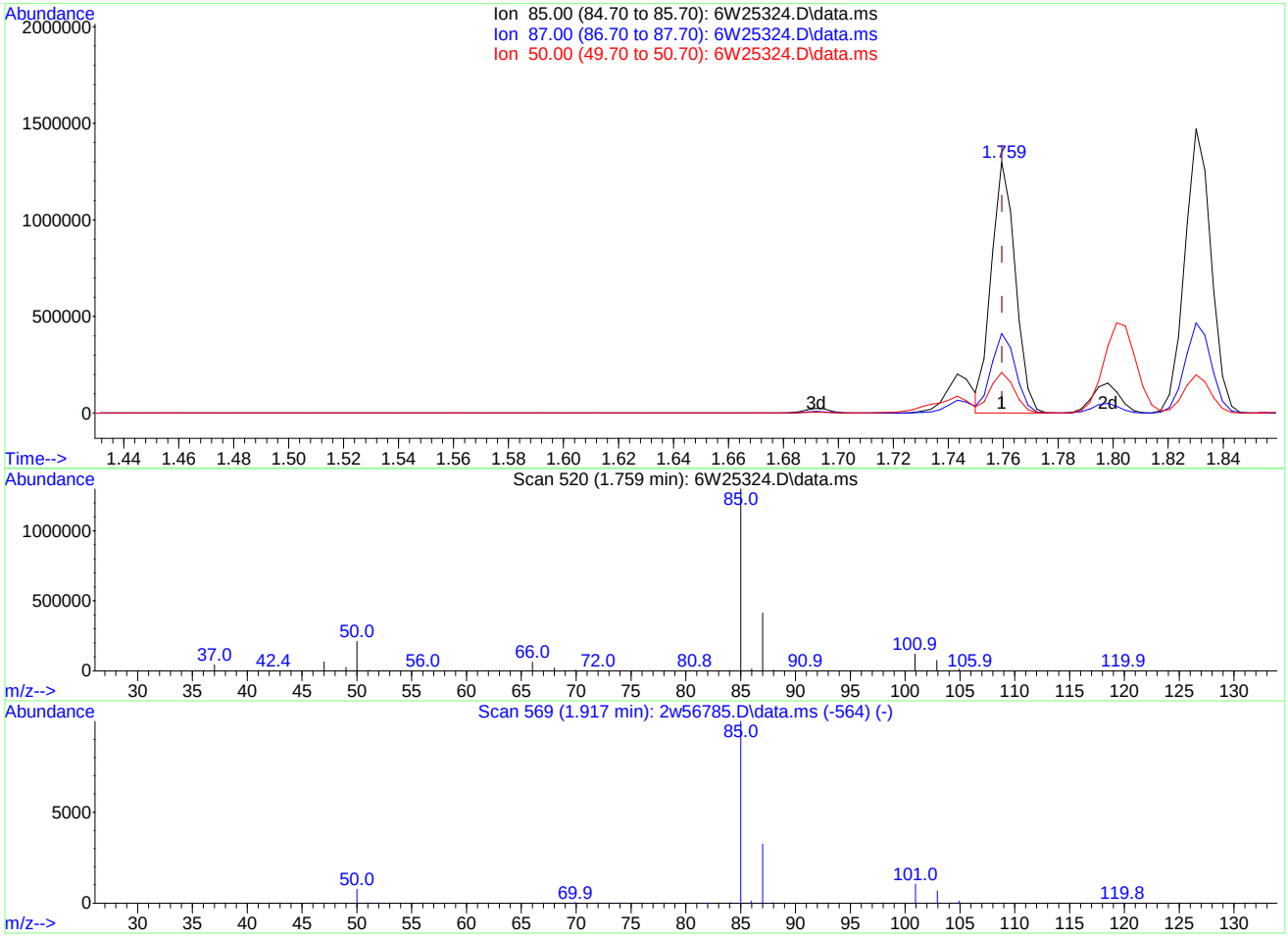
response 924885

Ion	Exp%	Act%
85.00	100	100
87.00	32.20	32.15
50.00	9.30	22.67#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25324.D
Acq On : 5 Aug 2022 12:05 am
Operator : thomash
Sample : ic1077-40
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 05 08:47:15 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration



TIC: 6W25324.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.759min (-0.000) 32.43PPBV m

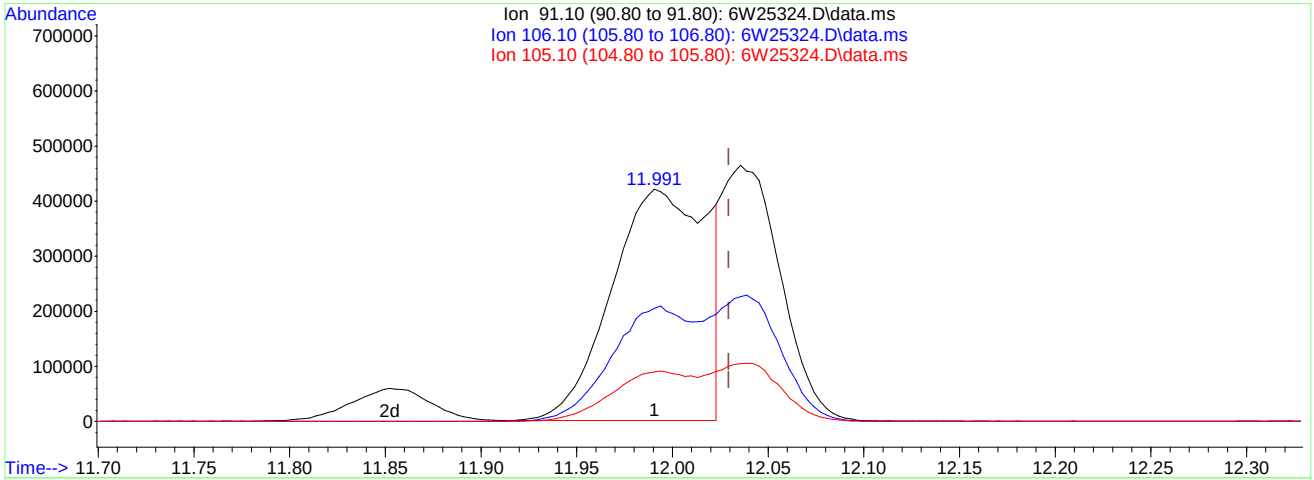
response 790122

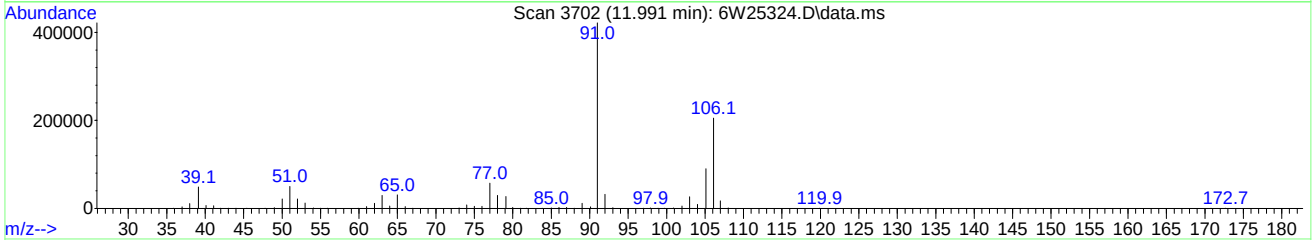
Ion	Exp%	Act%
85.00	100	100
87.00	32.20	37.64
50.00	9.30	26.53#
0.00	0.00	0.00

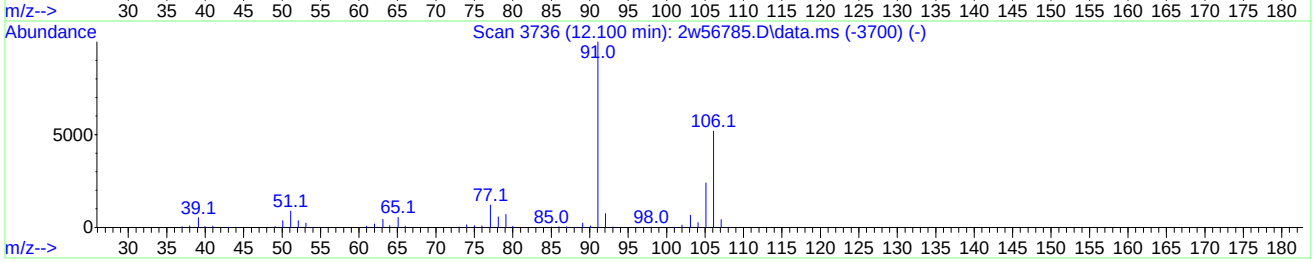
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25324.D
Acq On : 5 Aug 2022 12:05 am
Operator : thomash
Sample : ic1077-40
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 05 08:47:15 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration







TIC: 6W25324.D\data.ms

(80) M,P-XYLENE (t)

11.991min (-0.039) 50.48PPBV

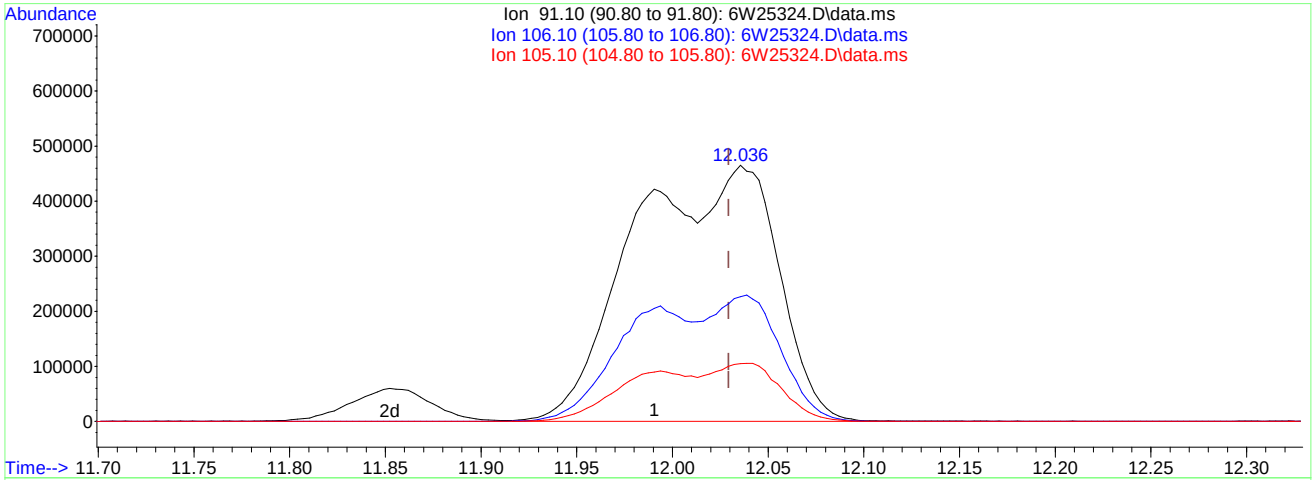
response 1445449

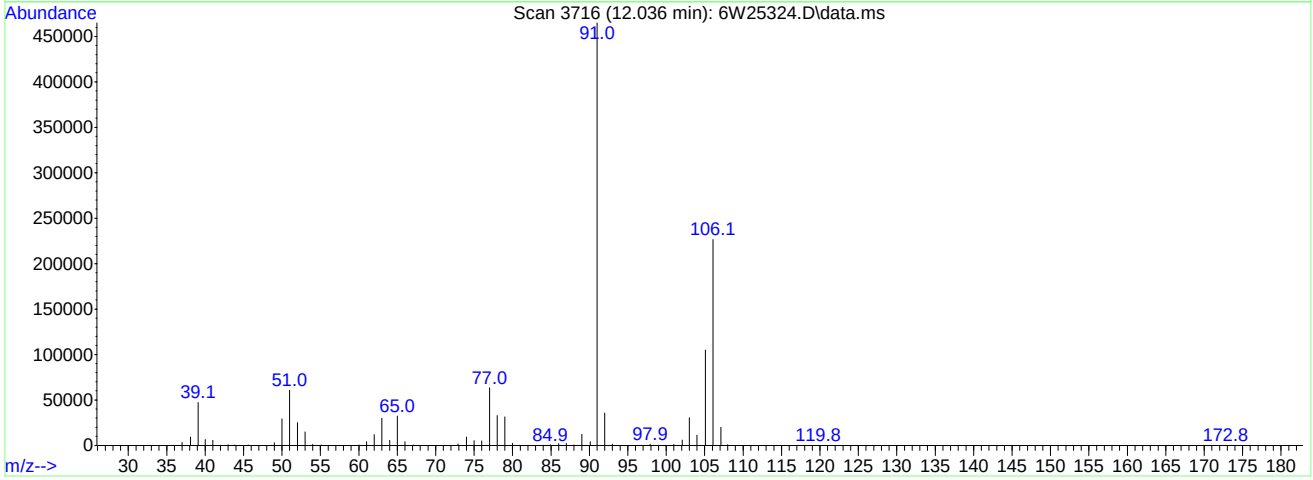
Ion	Exp%	Act%
91.10	100	100
106.10	51.50	39.44
105.10	23.60	17.43
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25324.D
Acq On : 5 Aug 2022 12:05 am
Operator : thomash
Sample : ic1077-40
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 05 08:48:25 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration





TIC: 6W25324.D\data.ms

(80) M,P-XYLENE (t)

12.036min (+0.006) 84.87PPBV m

response 2430231

Ion	Exp%	Act%
91.10	100	100
106.10	51.50	23.46#
105.10	23.60	10.37
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/08/22 10:23

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W25325.D
Acq On : 5 Aug 2022 12:59 am
Operator : thomash
Sample : ic1077-50
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 05 08:51:36 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.412	128	58685	10.00	PPBV	#	0.00
52) 1,4-DIFLUOROBENZENE	4.792	114	246613	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	10.611	117	217461	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	14.039	95	156658	10.27	PPBV		0.00
Target Compounds							Qvalue
3) FREON 152A	1.721	65	213475	44.09	PPBV	#	82
4) CHLORODIFLUOROMETHANE	1.731	67	96417	44.62	PPBV		97
5) CHLOROTRIFLUOROETHENE	1.743	116	483505	41.64	PPBV	#	100
6) DICHLORODIFLUOROMETHANE	1.759	85	983363m	35.39	PPBV		
7) PROPYLENE	1.740	41	311891	47.97	PPBV		97
8) 1-CHLORO-1,1-DIFLUOROE...	1.795	65	1193064	46.45	PPBV	#	86
9) FREON 114	1.830	85	1245801	44.75	PPBV		93
10) CHLOROMETHANE	1.801	52	149159	48.41	PPBV		94
11) VINYL CHLORIDE	1.859	62	507187	46.39	PPBV		97
12) 1,3-BUTADIENE	1.898	54	403159	47.99	PPBV	#	71
13) N-BUTANE	1.914	43	804324	50.44	PPBV	#	93
14) BROMOMETHANE	1.972	94	402363	42.94	PPBV		100
15) CHLOROETHANE	2.020	64	256713	46.26	PPBV		94
16) DICHLOROFLUOROMETHANE	2.046	67	1096156	45.99	PPBV	#	95
17) ACETONITRILE	2.110	41	489221	51.13	PPBV		97
18) ACROLEIN	2.149	56	196622	47.37	PPBV		99
19) FREON 123	2.165	83	1048575	43.78	PPBV		98
20) FREON 123A	2.181	117	578238	43.09	PPBV	#	73
21) TRICHLOROFLUOROMETHANE	2.242	101	1246110	43.62	PPBV		100
22) ISOPROPYL ALCOHOL	2.258	45	1123113	48.51	PPBV	#	97
23) ACETONE	2.187	58	294371	47.78	PPBV	#	54
24) PENTANE	2.358	42	567871	49.64	PPBV	#	92
25) IODOMETHANE	2.419	142	1124681	42.55	PPBV	#	80
26) 1,1-DICHLOROETHYLENE	2.448	96	435854	42.73	PPBV	#	50
27) CARBON DISULFIDE	2.589	76	1417074	45.74	PPBV	#	85
28) ETHANOL	2.049	45	250721	49.44	PPBV		98
29) BROMOETHENE	2.120	106	411976	42.37	PPBV	#	97
30) ACRYLONITRILE	2.329	52	381496	47.86	PPBV		97
31) METHYLENE CHLORIDE	2.486	84	400283	42.44	PPBV	#	54
32) 3-CHLOROPROPENE	2.531	76	231070	43.85	PPBV	#	1
33) FREON 113	2.589	151	759082	42.69	PPBV		87
34) TRANS-1,2-DICHLOROETHENE	2.846	96	480941	43.34	PPBV	#	76
35) TERTIARY BUTYL ALCOHOL	2.457	59	1227994	45.73	PPBV	#	79
36) METHYL TERTIARY BUTYL ...	2.965	73	1456314	44.08	PPBV	#	92
37) TETRAHYDROFURAN	3.721	72	189189	42.37	PPBV	#	63
38) HEXANE	3.467	57	753556	51.90	PPBV	#	76
39) VINYL ACETATE	3.010	86	138383	46.04	PPBV	#	1
40) 1,1-DICHLOROETHANE	2.933	63	934634	46.49	PPBV		99
41) METHYL ETHYL KETONE	3.113	72	251318	43.69	PPBV	#	8
42) CIS-1,2-DICHLOROETHENE	3.332	96	498177	52.22	PPBV	#	74
43) DIISOPROPYL ETHER	3.476	59	224437	50.17	PPBV		71
44) ETHYL ACETATE	3.483	61	152917	47.39	PPBV	#	37
45) METHYL ACRYLATE	3.467	55	990552	53.29	PPBV	#	97
46) CHLOROFORM	3.499	83	842698	43.69	PPBV	#	94
47) 2,4-DIMETHYLPENTANE	4.023	57	787000	46.38	PPBV		96
48) 1,1,1-TRICHLOROETHANE	4.110	97	835477	43.87	PPBV		96
49) CARBON TETRACHLORIDE	4.563	117	868396	44.58	PPBV		99
50) 1,2-DICHLOROETHANE	3.936	62	584945	45.75	PPBV	#	95
51) BENZENE	4.444	78	1190501	42.56	PPBV		86
53) CYCLOHEXANE	4.666	84	525910	54.91	PPBV		86
54) 2,3-DIMETHYLPENTANE	4.939	71	271195	54.94	PPBV	#	68
55) TRICHLOROETHENE	5.406	95	541690	54.15	PPBV		98
56) 1,2-DICHLOROPROPANE	5.161	63	479850	58.29	PPBV		96
57) DIBROMOMETHANE	5.119	174	500899	55.34	PPBV		90

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W25325.D
Acq On : 5 Aug 2022 12:59 am
Operator : thomash
Sample : ic1077-50
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 05 08:51:36 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration

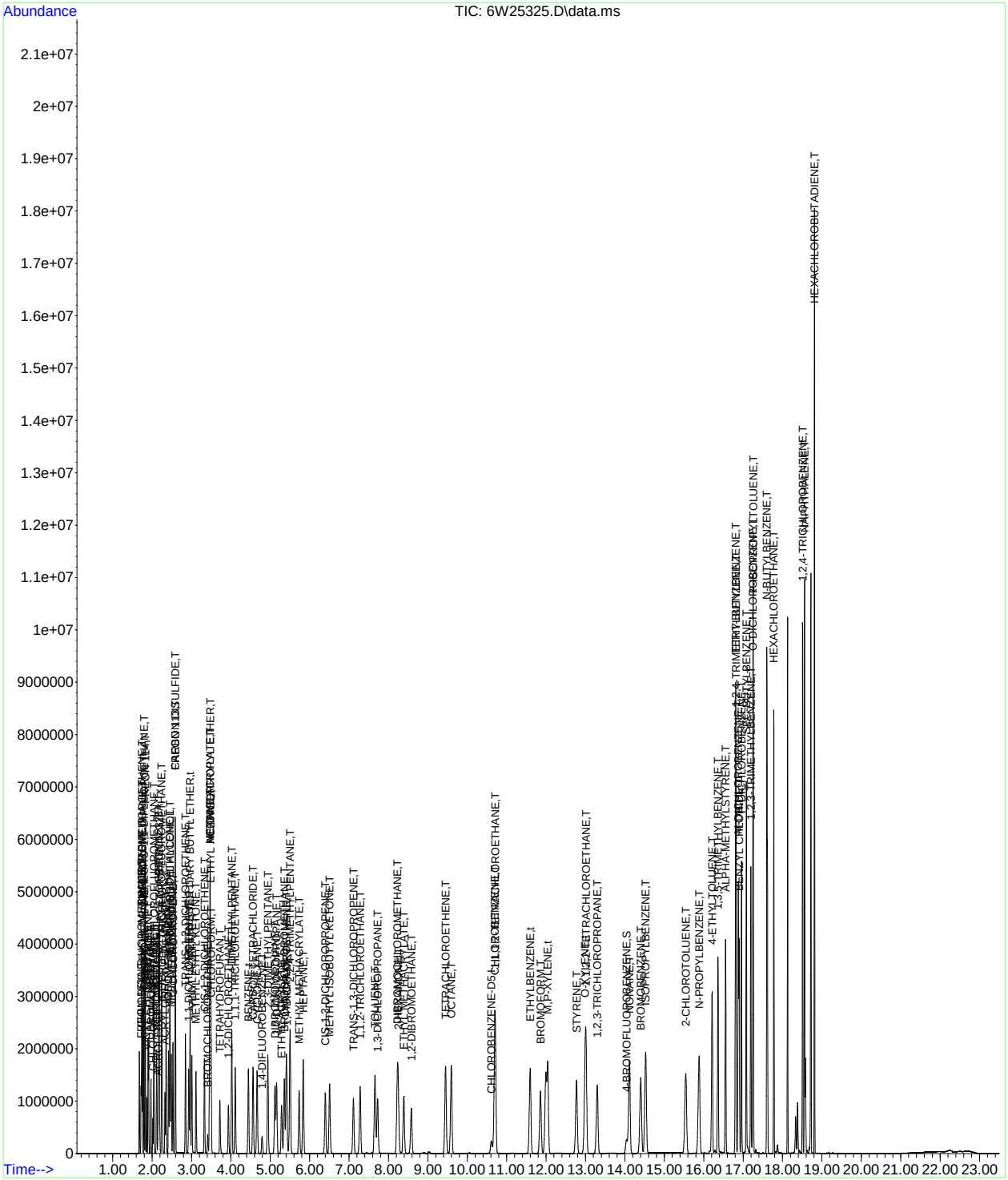
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
58)	ETHYL ACRYLATE	5.287	55	1082788	59.75	PPBV		98
59)	BROMODICHLOROMETHANE	5.357	83	929950	56.99	PPBV		100
60)	2,2,4-TRIMETHYLPENTANE	5.502	57	2137111	59.39	PPBV		98
61)	1,4-DIOXANE	5.418	88	289108	53.64	PPBV	#	84
62)	HEPTANE	5.836	43	801894	61.86	PPBV	#	80
63)	METHYL METHACRYLATE	5.734	69	475695	55.50	PPBV	#	65
64)	METHYL ISOBUTYL KETONE	6.505	58	422046	58.31	PPBV	#	71
65)	CIS-1,3-DICHLOROPROPENE	6.396	75	740894	57.17	PPBV	#	76
66)	TOLUENE	7.660	91	1466951	54.08	PPBV		100
67)	1,3-DICHLOROPROPANE	7.724	76	755452	55.28	PPBV		99
68)	TRANS-1,3-DICHLOROPROPENE	7.110	75	702340	58.04	PPBV	#	79
69)	1,1,2-TRICHLOROETHANE	7.280	83	443669	54.79	PPBV		98
70)	2-HEXANONE	8.248	58	529596	58.99	PPBV	#	72
71)	ETHYL METHACRYLATE	8.389	69	777839	55.80	PPBV	#	77
72)	TETRACHLOROETHENE	9.450	164	552866	54.88	PPBV		96
73)	DIBROMOCHLOROMETHANE	8.222	129	946022	57.78	PPBV		99
74)	1,2-DIBROMOETHANE	8.579	107	818185	55.01	PPBV		99
75)	OCTANE	9.592	43	1125874	62.55	PPBV	#	81
77)	1,1,1,2-TETRACHLOROETHANE	10.711	131	651904	55.96	PPBV		94
78)	CHLOROBENZENE	10.698	112	1215189	54.80	PPBV		98
79)	ETHYLBENZENE	11.595	91	1988171	54.76	PPBV		99
80)	M,P-XYLENE	12.039	91	3080290m	110.01	PPBV		
81)	O-XYLENE	12.991	91	1569123	55.51	PPBV		97
82)	STYRENE	12.772	104	1197406	55.03	PPBV		96
83)	NONANE	14.116	43	1200760	62.66	PPBV	#	78
84)	BROMOFORM	11.859	173	911191	60.54	PPBV		99
85)	1,1,2,2-TETRACHLOROETHANE	13.013	83	1230691	56.55	PPBV		100
86)	1,2,3-TRICHLOROPROPANE	13.299	75	911447	56.09	PPBV	#	100
88)	ISOPROPYLBENZENE	14.527	120	614760	55.25	PPBV		88
89)	BROMOBENZENE	14.402	77	1141875	55.81	PPBV		94
90)	2-CHLOROTOLUENE	15.547	126	554105	54.22	PPBV		99
91)	N-PROPYLBENZENE	15.884	120	626559	54.77	PPBV		98
92)	4-ETHYLTOLUENE	16.215	105	2352426	56.47	PPBV		100
93)	1,3,5-TRIMETHYLBENZENE	16.363	105	1964909	57.21	PPBV		98
94)	ALPHA-METHYLSTYRENE	16.553	118	1000007	57.48	PPBV		98
95)	TERT-BUTYLBENZENE	16.810	134	501843	59.43	PPBV		96
96)	1,2,4-TRIMETHYLBENZENE	16.820	105	2234022	62.67	PPBV		92
97)	BENZYL CHLORIDE	16.900	91	2027730	65.04	PPBV	#	97
98)	M-DICHLOROBENZENE	16.878	146	1393361	57.88	PPBV		98
99)	P-DICHLOROBENZENE	16.958	146	1435481	58.25	PPBV		98
100)	O-DICHLOROBENZENE	17.248	146	1431945	61.58	PPBV		97
101)	SEC-BUTYLBENZENE	17.080	134	635713	59.78	PPBV		99
102)	1,2,3-TRIMETHYLBENZENE	17.196	105	2096930	60.82	PPBV	#	97
103)	P-ISOPROPYLTOLUENE	17.257	134	743379	62.59	PPBV		97
104)	N-BUTYLBENZENE	17.601	134	715427	63.16	PPBV		90
105)	HEXACHLOROETHANE	17.778	117	977554	69.95	PPBV		92
106)	HEXACHLOROBUTADIENE	18.810	225	1496860	86.53	PPBV		98
107)	1,2,4-TRICHLOROBENZENE	18.511	180	1670997	72.09	PPBV		98
108)	NAPHTHALENE	18.559	128	4184654	68.67	PPBV		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W25325.D
Acq On : 5 Aug 2022 12:59 am
Operator : thomash
Sample : ic1077-50
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 05 08:51:36 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration



Manual Integration Approval Summary

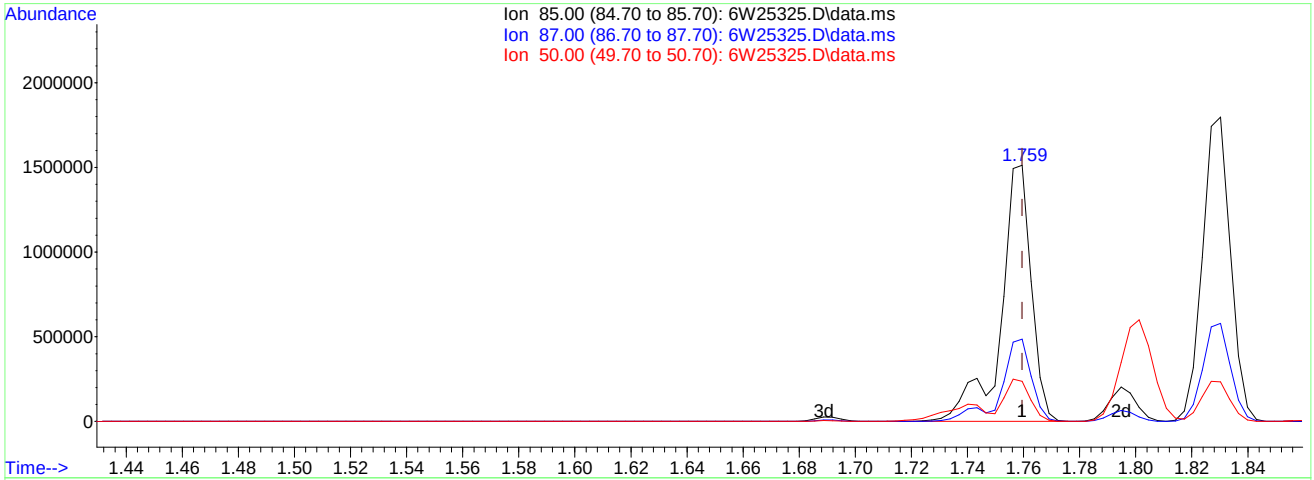
Sample Number:	V6W1077-IC1077	**Method:**	TO-15
Lab FileID:	6W25325.D	**Analyst approved:**	08/05/22 10:02 Thomas Hilbig
Injection Time:	08/05/22 00:59	**Supervisor approved:**	08/08/22 10:23 Kanya Veerawat

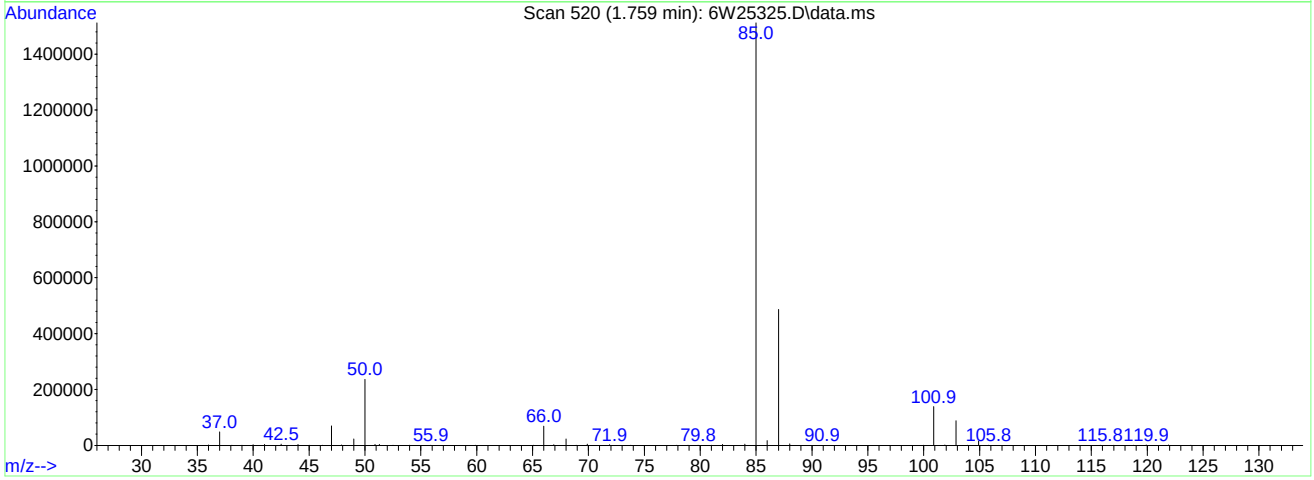
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.76	Overlapping peak
m,p-Xylene			12.04	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25325.D
Acq On : 5 Aug 2022 12:59 am
Operator : thomash
Sample : ic1077-50
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 05 08:50:26 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration





TIC: 6W25325.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.759min (-0.000) 41.17PPBV

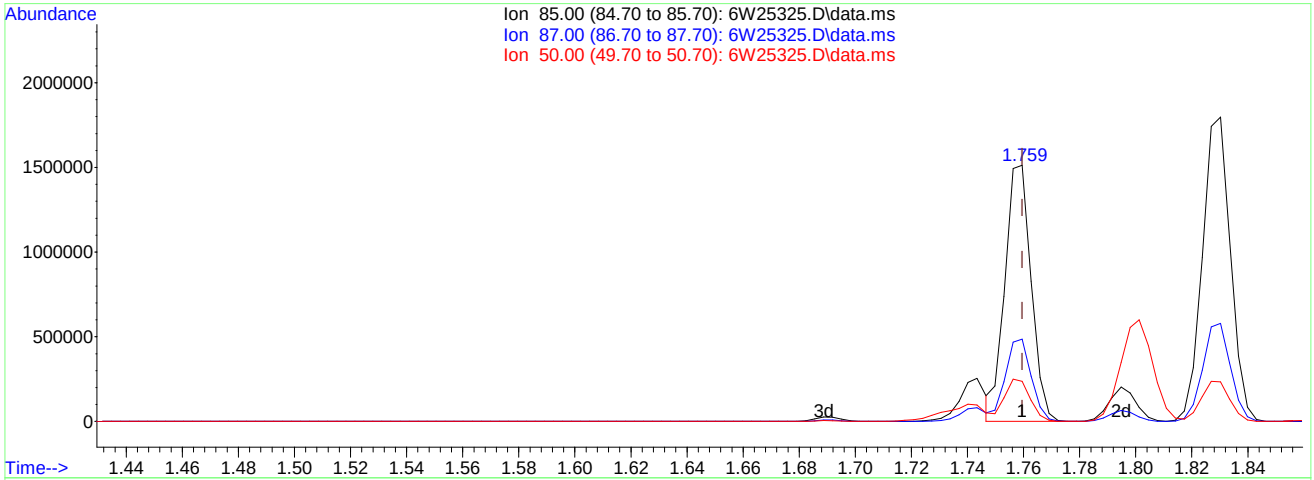
response 1143874

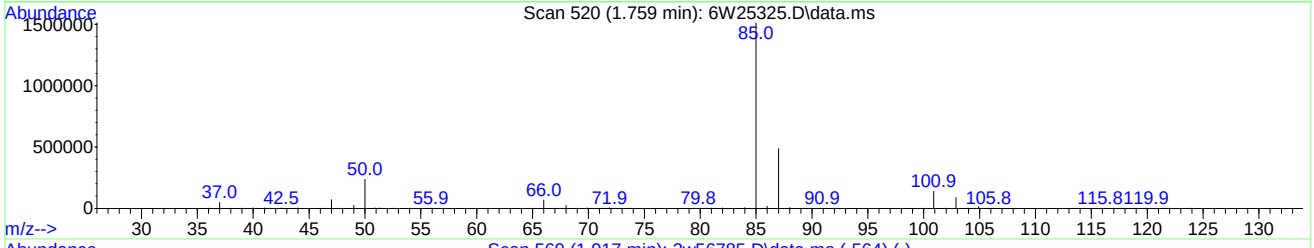
Ion	Exp%	Act%
85.00	100	100
87.00	32.20	32.01
50.00	9.30	22.87#
0.00	0.00	0.00

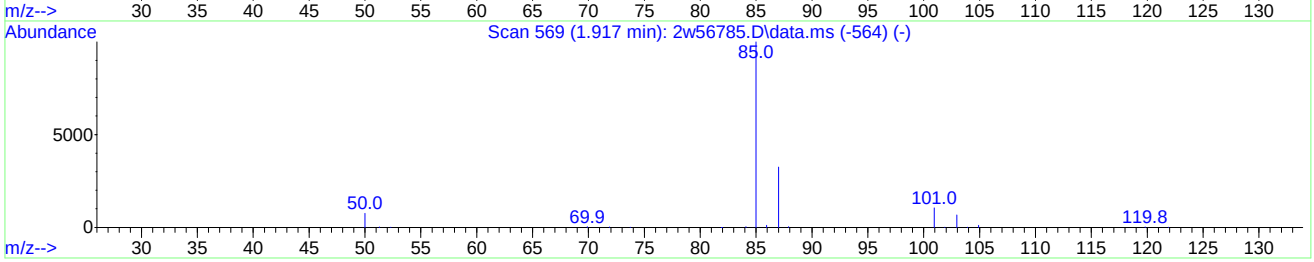
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25325.D
Acq On : 5 Aug 2022 12:59 am
Operator : thomash
Sample : ic1077-50
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 05 08:50:26 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration







TIC: 6W25325.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.759min (-0.000) 35.39PPBV m

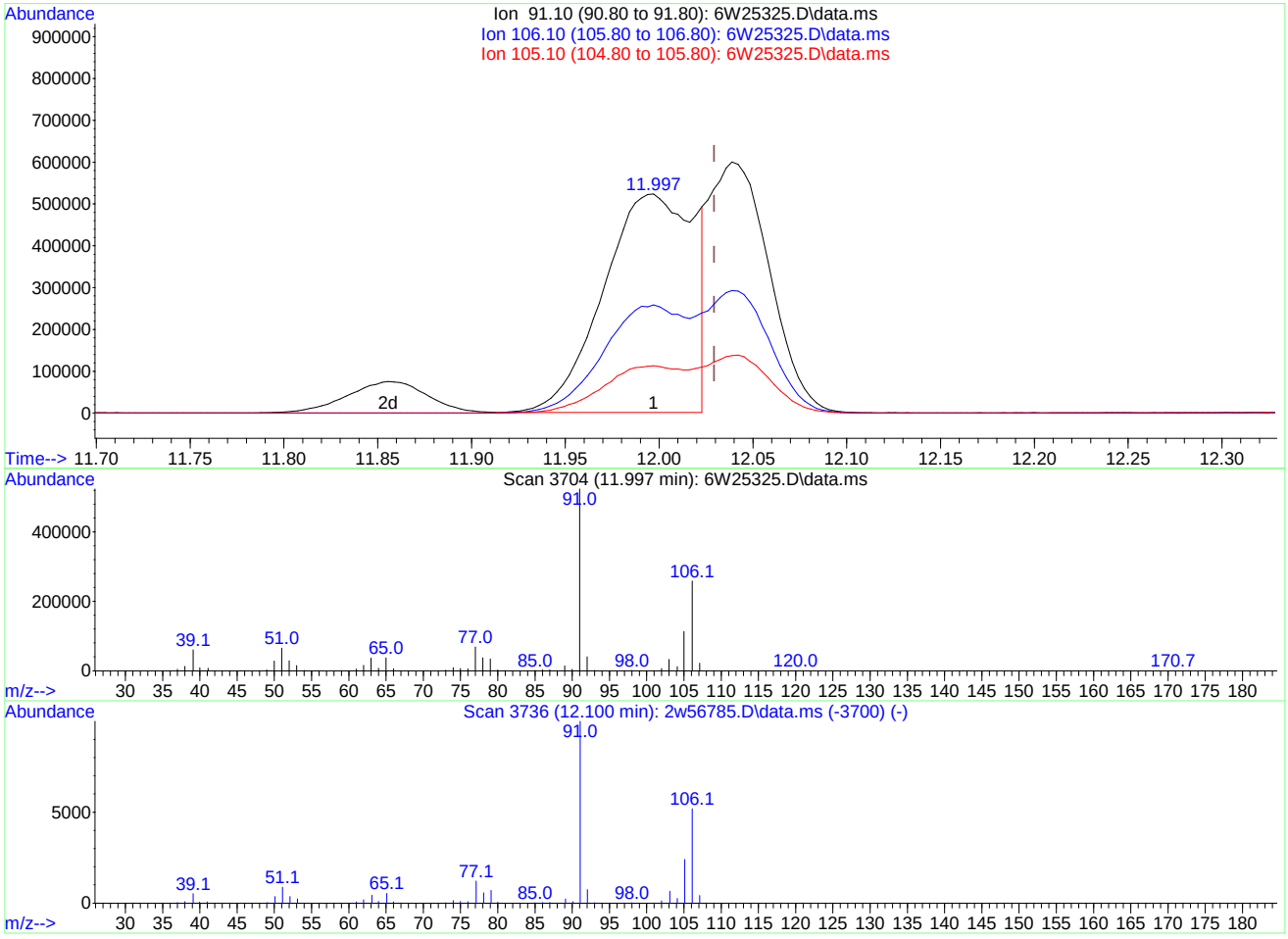
response 983363

Ion	Exp%	Act%
85.00	100	100
87.00	32.20	37.23
50.00	9.30	26.61#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25325.D
Acq On : 5 Aug 2022 12:59 am
Operator : thomash
Sample : ic1077-50
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 05 08:50:26 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration



TIC: 6W25325.D\data.ms

(80) M,P-XYLENE (t)

11.997min (-0.032) 62.71PPBV

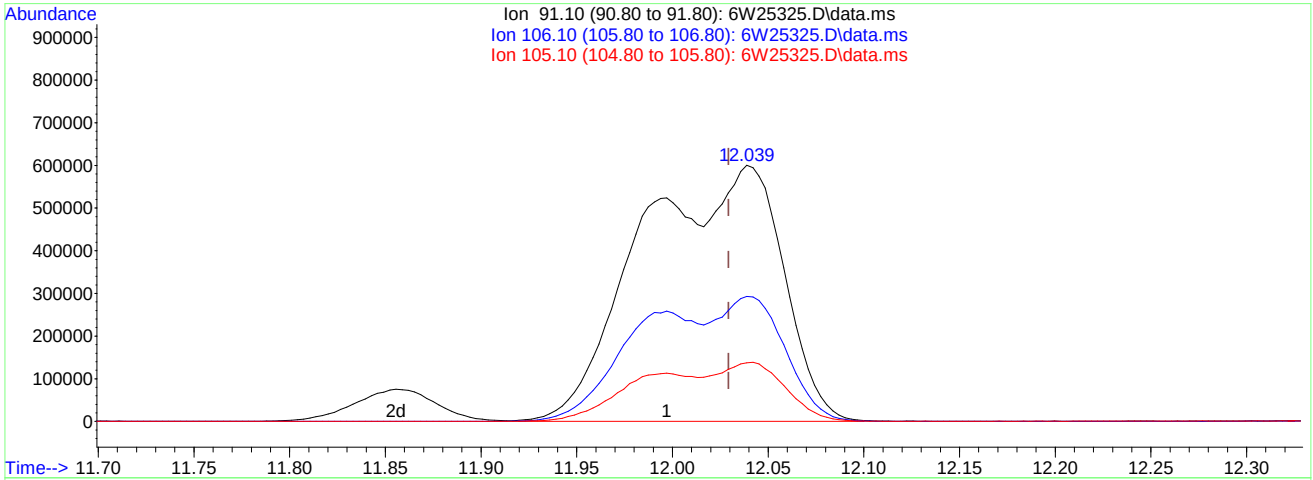
response 1755795

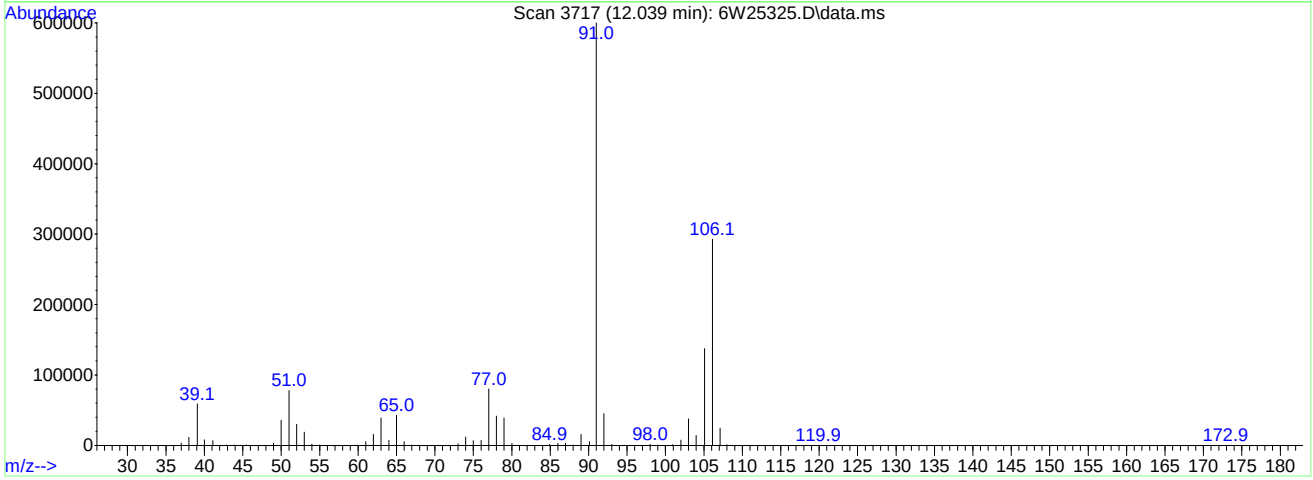
Ion	Exp%	Act%
91.10	100	100
106.10	51.50	44.27
105.10	23.60	19.55
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25325.D
Acq On : 5 Aug 2022 12:59 am
Operator : thomash
Sample : ic1077-50
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 05 08:51:36 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Aug 04 14:12:06 2022
Response via : Initial Calibration





TIC: 6W25325.D\data.ms

(80) M,P-XYLENE (t)

12.039min (+0.010) 110.01PPBV m

response 3080290

Ion	Exp%	Act%
91.10	100	100
106.10	51.50	25.24#
105.10	23.60	11.14
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/08/22 10:23

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W25328.D
Acq On : 5 Aug 2022 3:17 am
Operator : thomash
Sample : icv1077-10
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 05 09:00:41 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 05 08:58:59 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.412	128	46434	10.00	PPBV	#	0.00
52) 1,4-DIFLUOROBENZENE	4.792	114	243152	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	10.608	117	215434	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	14.032	95	151470	10.02	PPBV		0.00
Target Compounds							Qvalue
3) FREON 152A	1.721	65	39307	9.44	PPBV	#	81
4) CHLORODIFLUOROMETHANE	1.734	67	17560	9.38	PPBV		97
5) CHLOROTRIFLUOROETHENE	1.743	116	87800	9.68	PPBV	#	100
6) DICHLORODIFLUOROMETHANE	1.760	85	226980m	10.20	PPBV		
7) PROPYLENE	1.740	41	59308	9.60	PPBV		96
8) 1-CHLORO-1,1-DIFLUOROE...	1.795	65	223700	9.42	PPBV	#	85
9) FREON 114	1.830	85	229060	9.45	PPBV		92
10) CHLOROMETHANE	1.801	52	28615	10.01	PPBV		91
11) VINYL CHLORIDE	1.862	62	96113	9.21	PPBV		97
12) 1,3-BUTADIENE	1.898	54	76996	9.97	PPBV	#	72
13) N-BUTANE	1.914	43	153635	8.98	PPBV	#	90
14) BROMOMETHANE	1.972	94	75730	9.05	PPBV		99
15) CHLOROETHANE	2.020	64	49171	8.79	PPBV		95
16) DICHLOROFLUOROMETHANE	2.046	67	200514	9.30	PPBV	#	94
17) ACETONITRILE	2.113	41	89246	8.91	PPBV		96
18) ACROLEIN	2.149	56	18857	5.76	PPBV		100
19) FREON 123	2.165	83	198172	9.56	PPBV		97
20) FREON 123A	2.181	117	115754	10.08	PPBV	#	73
21) TRICHLOROFLUOROMETHANE	2.245	101	227237	9.46	PPBV		99
22) ISOPROPYL ALCOHOL	2.261	45	211909	9.70	PPBV	#	96
23) ACETONE	2.190	58	65448	10.85	PPBV		82
24) PENTANE	2.358	42	109935	9.80	PPBV	#	93
25) IODOMETHANE	2.419	142	204939	9.37	PPBV	#	82
26) 1,1-DICHLOROETHYLENE	2.448	96	81096	9.28	PPBV	#	51
27) CARBON DISULFIDE	2.592	76	237628	8.72	PPBV	#	83
28) ETHANOL	2.049	45	52692	10.73	PPBV	#	98
29) BROMOETHENE	2.120	106	76981	9.46	PPBV	#	96
30) ACRYLONITRILE	2.329	52	71309	9.39	PPBV		96
31) METHYLENE CHLORIDE	2.486	84	75226	9.12	PPBV	#	53
32) 3-CHLOROPROPENE	2.531	76	43624	9.10	PPBV	#	1
33) FREON 113	2.589	151	132347	9.24	PPBV		87
34) TRANS-1,2-DICHLOROETHENE	2.846	96	86913	8.84	PPBV	#	76
35) TERTIARY BUTYL ALCOHOL	2.461	59	204283	8.38	PPBV	#	81
36) METHYL TERTIARY BUTYL ...	2.965	73	264981	9.25	PPBV	#	91
37) TETRAHYDROFURAN	3.724	72	33517	9.99	PPBV	#	60
38) HEXANE	3.467	57	126103	9.40	PPBV	#	77
39) VINYL ACETATE	3.007	86	21789	9.06	PPBV	#	1
40) 1,1-DICHLOROETHANE	2.933	63	176319	9.42	PPBV		99
41) METHYL ETHYL KETONE	3.116	72	47615	10.08	PPBV	#	6
42) CIS-1,2-DICHLOROETHENE	3.329	96	73690	9.42	PPBV		86
43) DIISOPROPYL ETHER	3.473	59	38437	10.00	PPBV		68
44) ETHYL ACETATE	3.480	61	26517	10.24	PPBV	#	40
45) METHYL ACRYLATE	3.464	55	156201	9.50	PPBV	#	97
46) CHLOROFORM	3.496	83	149910	9.15	PPBV	#	94
47) 2,4-DIMETHYLPENTANE	4.023	57	144105	9.43	PPBV		94
48) 1,1,1-TRICHLOROETHANE	4.110	97	149590	9.41	PPBV		96
49) CARBON TETRACHLORIDE	4.560	117	151909	9.49	PPBV		100
50) 1,2-DICHLOROETHANE	3.933	62	108460	9.19	PPBV	#	94
51) BENZENE	4.444	78	217018	9.12	PPBV		85
53) CYCLOHEXANE	4.666	84	96140	9.60	PPBV		86
54) 2,3-DIMETHYLPENTANE	4.936	71	49904	9.77	PPBV	#	69
55) TRICHLOROETHENE	5.402	95	97913	9.46	PPBV		99
56) 1,2-DICHLOROPROPANE	5.158	63	86234	9.67	PPBV		97
57) DIBROMOMETHANE	5.116	174	91117	9.13	PPBV		90

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W25328.D
Acq On : 5 Aug 2022 3:17 am
Operator : thomash
Sample : icv1077-10
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 05 09:00:41 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 05 08:58:59 2022
Response via : Initial Calibration

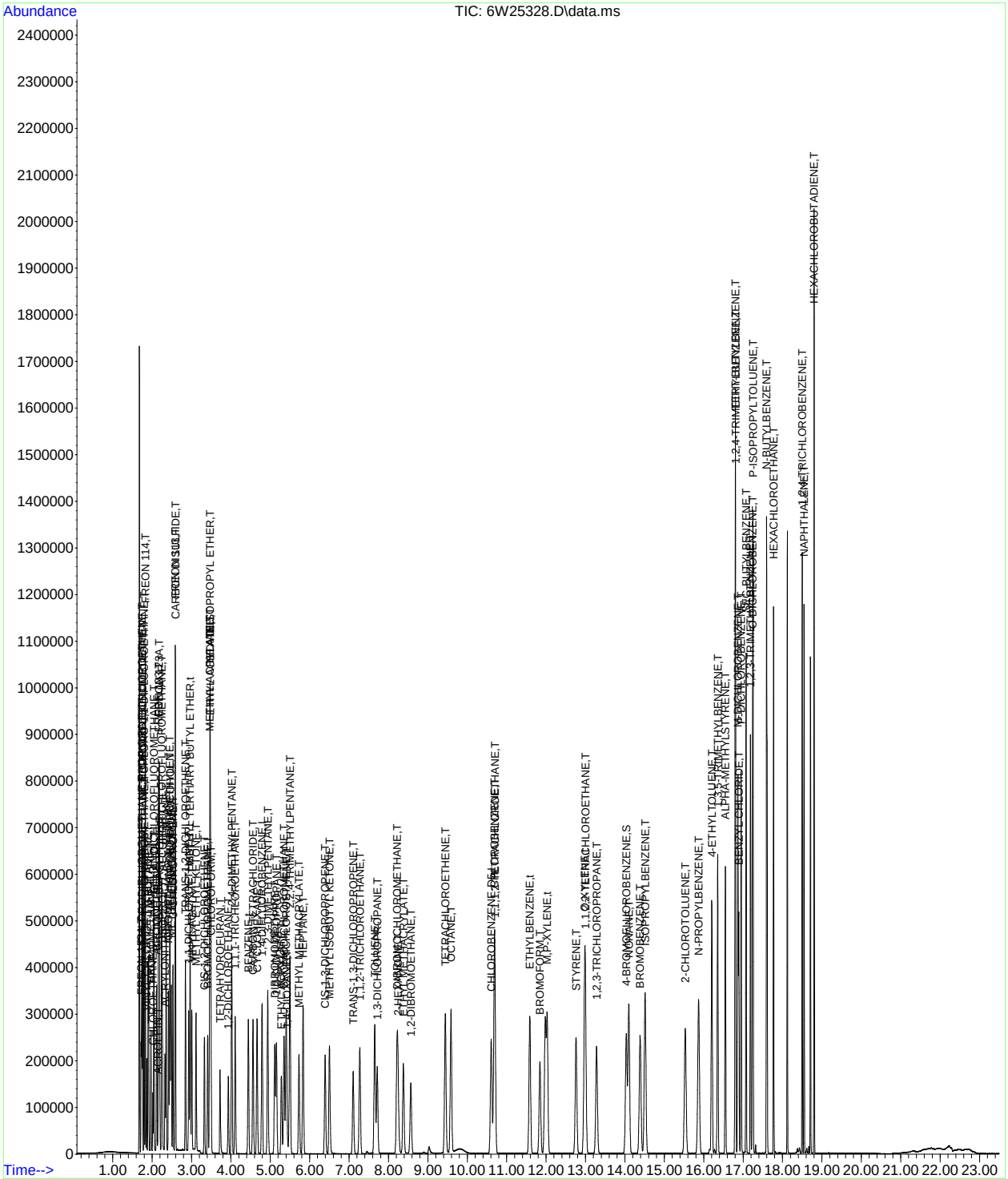
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
58) ETHYL ACRYLATE	5.280	55	188382	9.91	PPBV		98
59) BROMODICHLOROMETHANE	5.348	83	166374	9.71	PPBV		99
60) 2,2,4-TRIMETHYLPENTANE	5.499	57	392961	9.45	PPBV		98
61) 1,4-DIOXANE	5.422	88	51746	10.75	PPBV	#	87
62) HEPTANE	5.833	43	149474	9.49	PPBV	#	79
63) METHYL METHACRYLATE	5.727	69	83896	10.07	PPBV	#	64
64) METHYL ISOBUTYL KETONE	6.502	58	74149	10.13	PPBV	#	69
65) CIS-1,3-DICHLOROPROPENE	6.393	75	136926	10.26	PPBV	#	76
66) TOLUENE	7.653	91	266892	9.27	PPBV		100
67) 1,3-DICHLOROPROPANE	7.714	76	135235	9.23	PPBV		98
68) TRANS-1,3-DICHLOROPROPENE	7.103	75	117919	9.36	PPBV	#	78
69) 1,1,2-TRICHLOROETHANE	7.274	83	79549	9.27	PPBV		99
70) 2-HEXANONE	8.245	58	77282	9.65	PPBV	#	70
71) ETHYL METHACRYLATE	8.377	69	133986	10.58	PPBV	#	76
72) TETRACHLOROETHENE	9.444	164	99025	9.43	PPBV		95
73) DIBROMOCHLOROMETHANE	8.216	129	158772	9.75	PPBV		99
74) 1,2-DIBROMOETHANE	8.570	107	145848	9.43	PPBV		100
75) OCTANE	9.589	43	204638	9.38	PPBV	#	80
77) 1,1,1,2-TETRACHLOROETHANE	10.705	131	113457	9.64	PPBV		94
78) CHLOROBENZENE	10.688	112	217766	9.36	PPBV		98
79) ETHYLBENZENE	11.586	91	351665	9.15	PPBV		100
80) M,P-XYLENE	12.023	91	548844	18.87	PPBV	#	63
81) O-XYLENE	12.978	91	280095	9.32	PPBV		97
82) STYRENE	12.762	104	210543	9.95	PPBV		96
83) NONANE	14.103	43	217245	9.63	PPBV	#	77
84) BROMOFORM	11.843	173	147061	9.87	PPBV	#	99
85) 1,1,2,2-TETRACHLOROETHANE	13.000	83	216959	9.37	PPBV		100
86) 1,2,3-TRICHLOROPROPANE	13.283	75	160861	9.28	PPBV		100
88) ISOPROPYLBENZENE	14.511	120	111170	9.73	PPBV		88
89) BROMOBENZENE	14.383	77	199598	9.05	PPBV		94
90) 2-CHLOROTOLUENE	15.534	126	95671	9.55	PPBV		99
91) N-PROPYLBENZENE	15.872	120	110306	9.60	PPBV		100
92) 4-ETHYLTOLUENE	16.206	105	406395	9.75	PPBV		100
93) 1,3,5-TRIMETHYLBENZENE	16.354	105	333206	9.55	PPBV		98
94) ALPHA-METHYLSTYRENE	16.550	118	153871	9.47	PPBV		98
95) TERT-BUTYLBENZENE	16.801	134	81067	8.95	PPBV		98
96) 1,2,4-TRIMETHYLBENZENE	16.807	105	343869	9.33	PPBV		95
97) BENZYL CHLORIDE	16.891	91	244581	8.35	PPBV	#	97
98) M-DICHLOROBENZENE	16.868	146	227013	9.00	PPBV		99
99) P-DICHLOROBENZENE	16.949	146	231094	9.05	PPBV		99
100) O-DICHLOROBENZENE	17.238	146	218704	8.98	PPBV		98
101) SEC-BUTYLBENZENE	17.077	134	101784	9.30	PPBV		99
102) 1,2,3-TRIMETHYLBENZENE	17.187	105	329748	9.17	PPBV		99
103) P-ISOPROPYLTOLUENE	17.251	134	110776	8.94	PPBV		100
104) N-BUTYLBENZENE	17.595	134	107376	9.20	PPBV		91
105) HEXACHLOROETHANE	17.772	117	134052	9.33	PPBV		93
106) HEXACHLOROBUTADIENE	18.801	225	177049	8.28	PPBV		99
107) 1,2,4-TRICHLOROBENZENE	18.498	180	195626	7.82	PPBV		98
108) NAPHTHALENE	18.547	128	467004	7.51	PPBV		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W25328.D
Acq On : 5 Aug 2022 3:17 am
Operator : thomash
Sample : icv1077-10
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 05 09:00:41 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 05 08:58:59 2022
Response via : Initial Calibration



Manual Integration Approval Summary

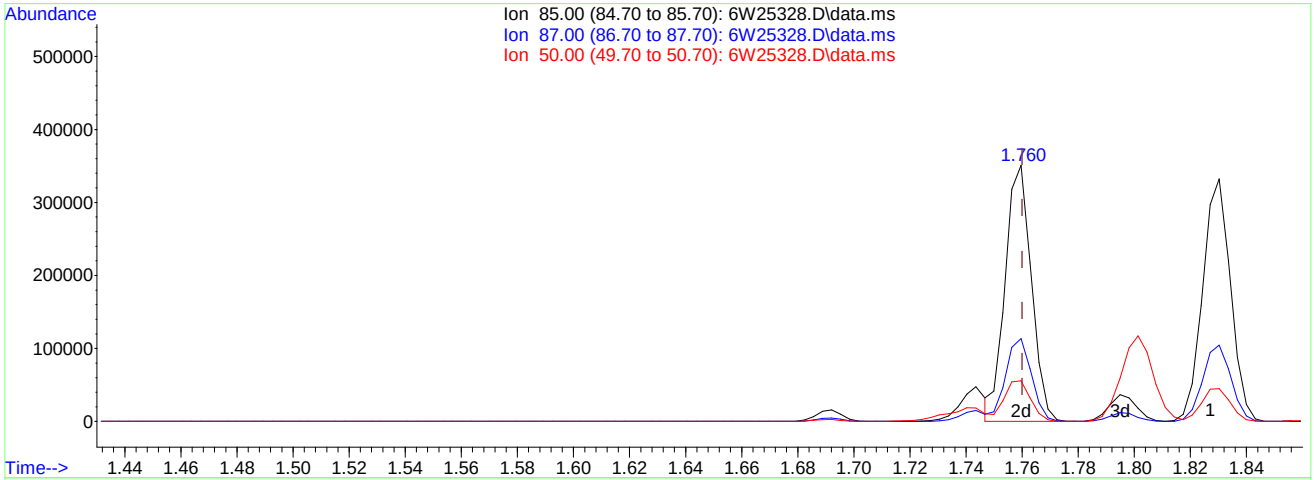
Sample Number:	V6W1077-ICV1077	**Method:**	TO-15
Lab FileID:	6W25328.D	**Analyst approved:**	08/05/22 10:02 Thomas Hilbig
Injection Time:	08/05/22 03:17	**Supervisor approved:**	08/08/22 10:23 Kanya Veerawat

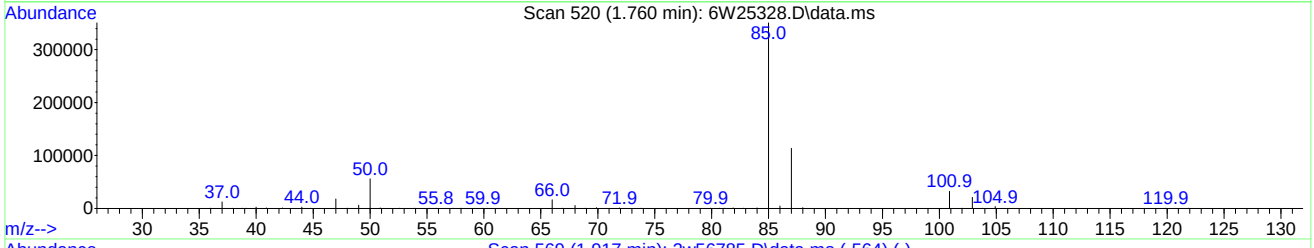
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.76	Overlapping peak

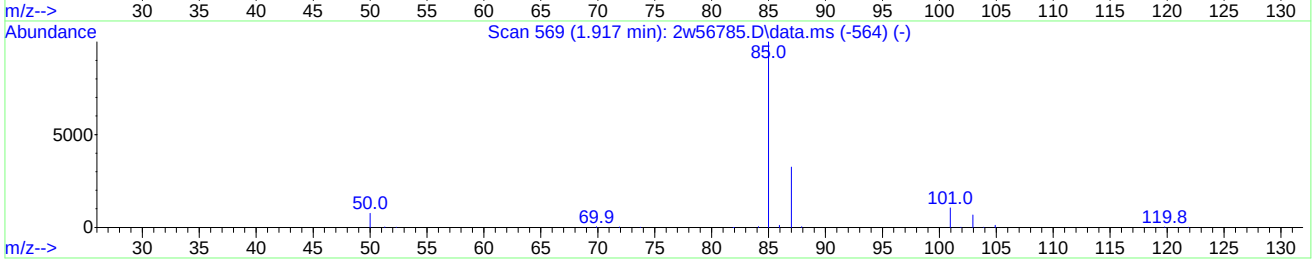
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25328.D
Acq On : 5 Aug 2022 3:17 am
Operator : thomash
Sample : icv1077-10
Misc : MS57063,V6W1077,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 05 08:59:52 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 05 08:58:59 2022
Response via : Initial Calibration







TIC: 6W25328.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.760min (-0.000) 10.20PPBV m

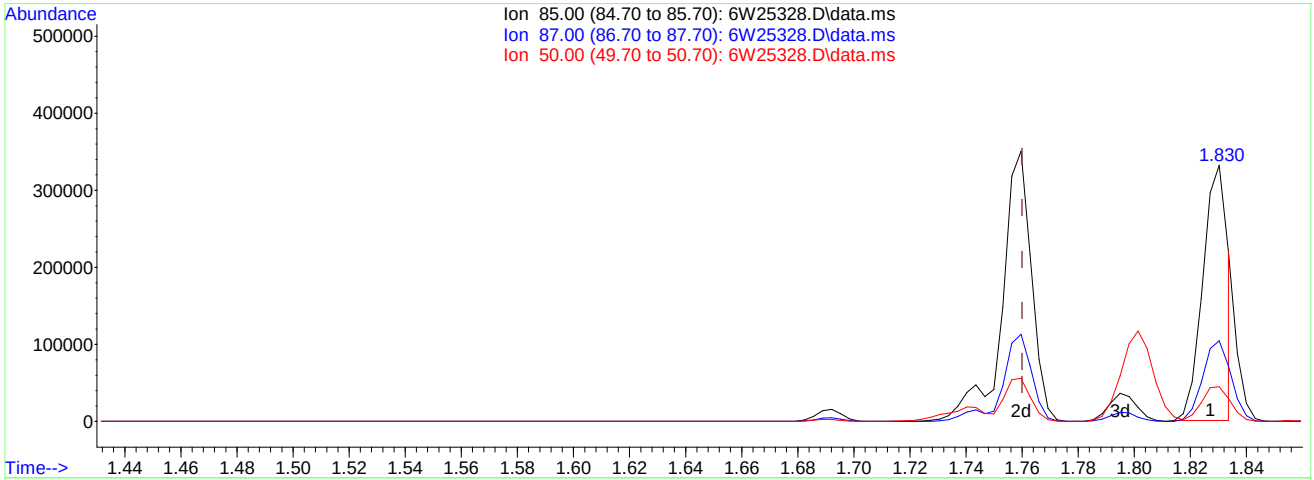
response 226980

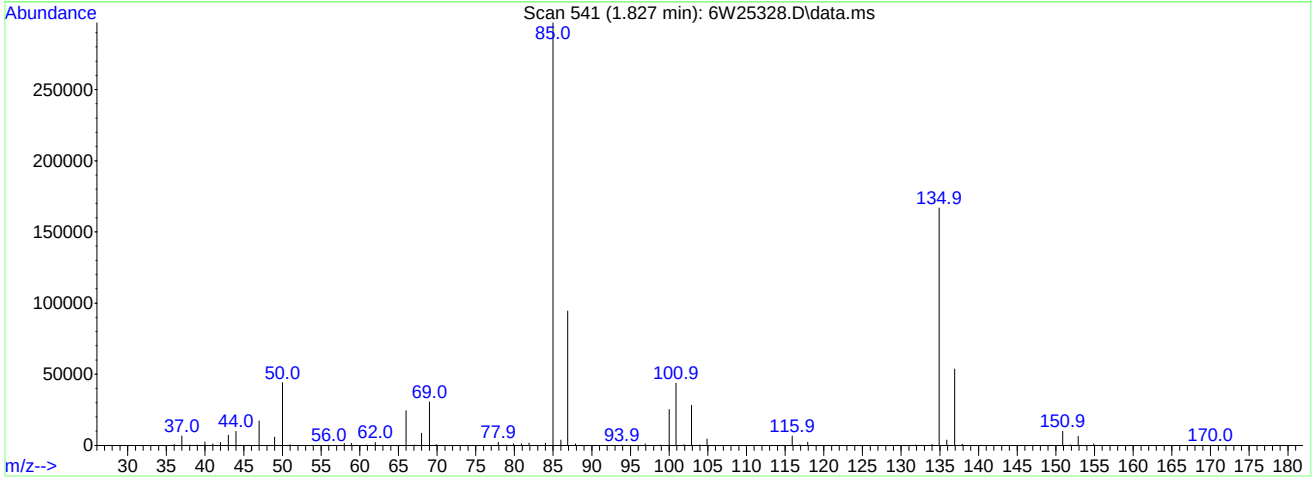
Ion	Exp%	Act%
85.00	100	100
87.00	32.20	28.89
50.00	9.30	10.07
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\Raw Data\
Data File : 6W25328.D
Acq On : 5 Aug 2022 3:17 am
Operator : thomash
Sample : icv1077-10
Misc : MS61009,V6W1077,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 05 10:02:44 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 05 08:58:59 2022
Response via : Initial Calibration





TIC: 6W25328.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.827min (+0.067) 9.23PPBV

response 205360

Ion	Exp%	Act%
85.00	100	100
87.00	32.20	31.93
50.00	9.30	11.13
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 08/16/22 00:18

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W25439.D
Acq On : 11 Aug 2022 8:20 am
Operator : thomash
Sample : cc1077-10
Misc : MS61233,V6W1083,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 11 14:24:49 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 05 08:58:59 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.415	128	58959	10.00	PPBV	#	0.00
52) 1,4-DIFLUOROBENZENE	4.791	114	301259	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	10.605	117	259233	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	14.032	95	174281	9.58	PPBV		0.00
Target Compounds							Qvalue
3) FREON 152A	1.721	65	45667m	8.64	PPBV		
4) CHLORODIFLUOROMETHANE	1.734	67	20998	8.84	PPBV		99
5) CHLOROTRIFLUOROETHENE	1.743	116	114878	9.98	PPBV	#	100
6) DICHLORODIFLUOROMETHANE	1.759	85	333979	11.82	PPBV	#	94
7) PROPYLENE	1.743	41	58110	7.41	PPBV		98
8) 1-CHLORO-1,1-DIFLUOROE...	1.795	65	265105	8.79	PPBV	#	89
9) FREON 114	1.830	85	309717	10.07	PPBV		97
10) CHLOROMETHANE	1.801	52	34051	9.39	PPBV		92
11) VINYL CHLORIDE	1.862	62	117347	8.86	PPBV		98
12) 1,3-BUTADIENE	1.901	54	92160	9.40	PPBV	#	78
13) N-BUTANE	1.914	43	175853	8.09	PPBV	#	94
14) BROMOMETHANE	1.972	94	103711	9.76	PPBV		100
15) CHLOROETHANE	2.020	64	60391	8.50	PPBV		99
16) DICHLOROFLUOROMETHANE	2.046	67	254416	9.30	PPBV	#	97
17) ACETONITRILE	2.113	41	103315	8.12	PPBV		96
18) ACROLEIN	2.152	56	42420	10.21	PPBV		98
19) FREON 123	2.164	83	255878	9.72	PPBV		97
20) FREON 123A	2.184	117	144886	9.93	PPBV		86
21) TRICHLOROFLUOROMETHANE	2.245	101	292536	9.59	PPBV		99
22) ISOPROPYL ALCOHOL	2.264	45	235834	8.50	PPBV	#	95
23) ACETONE	2.190	58	68038	8.88	PPBV	#	70
24) PENTANE	2.357	42	118166	8.30	PPBV		95
25) IODOMETHANE	2.418	142	295461	10.64	PPBV		89
26) 1,1-DICHLOROETHYLENE	2.447	96	106600	9.61	PPBV	#	66
27) CARBON DISULFIDE	2.592	76	340773	9.85	PPBV	#	89
28) ETHANOL	2.052	45	55197	8.86	PPBV	#	98
29) BROMOETHENE	2.119	106	104363	10.10	PPBV	#	97
30) ACRYLONITRILE	2.332	52	85701	8.89	PPBV		97
31) METHYLENE CHLORIDE	2.486	84	102419	9.78	PPBV	#	70
32) 3-CHLOROPROPENE	2.534	76	56351	9.25	PPBV	#	37
33) FREON 113	2.592	151	198190	10.90	PPBV		96
34) TRANS-1,2-DICHLOROETHENE	2.849	96	121019	9.70	PPBV		87
35) TERTIARY BUTYL ALCOHOL	2.464	59	250277	8.08	PPBV	#	82
36) METHYL TERTIARY BUTYL ...	2.968	73	327221	8.99	PPBV	#	94
37) TETRAHYDROFURAN	3.724	72	40654	9.55	PPBV	#	82
38) HEXANE	3.467	57	136652	8.02	PPBV	#	86
39) VINYL ACETATE	3.010	86	32445	10.63	PPBV	#	20
40) 1,1-DICHLOROETHANE	2.933	63	225645	9.49	PPBV		98
41) METHYL ETHYL KETONE	3.116	72	64445	10.75	PPBV	#	42
42) CIS-1,2-DICHLOROETHENE	3.328	96	89950	9.06	PPBV		93
43) DIISOPROPYL ETHER	3.476	59	41036	8.40	PPBV		80
44) ETHYL ACETATE	3.480	61	28844	8.77	PPBV		63
45) METHYL ACRYLATE	3.467	55	175079	8.39	PPBV	#	97
46) CHLOROFORM	3.496	83	191802	9.22	PPBV	#	96
47) 2,4-DIMETHYLPENTANE	4.023	57	157664	8.12	PPBV		96
48) 1,1,1-TRICHLOROETHANE	4.110	97	179059	8.87	PPBV		98
49) CARBON TETRACHLORIDE	4.563	117	188250	9.26	PPBV		100
50) 1,2-DICHLOROETHANE	3.936	62	120063	8.01	PPBV	#	95
51) BENZENE	4.441	78	262689	8.70	PPBV		91
53) CYCLOHEXANE	4.666	84	113460	9.15	PPBV		95
54) 2,3-DIMETHYLPENTANE	4.936	71	59214	9.35	PPBV		85
55) TRICHLOROETHENE	5.402	95	120476	9.40	PPBV		95
56) 1,2-DICHLOROPROPANE	5.158	63	101670	9.20	PPBV		95
57) DIBROMOMETHANE	5.116	174	125390	10.15	PPBV		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W25439.D
Acq On : 11 Aug 2022 8:20 am
Operator : thomash
Sample : cc1077-10
Misc : MS61233,V6W1083,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 11 14:24:49 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 05 08:58:59 2022
Response via : Initial Calibration

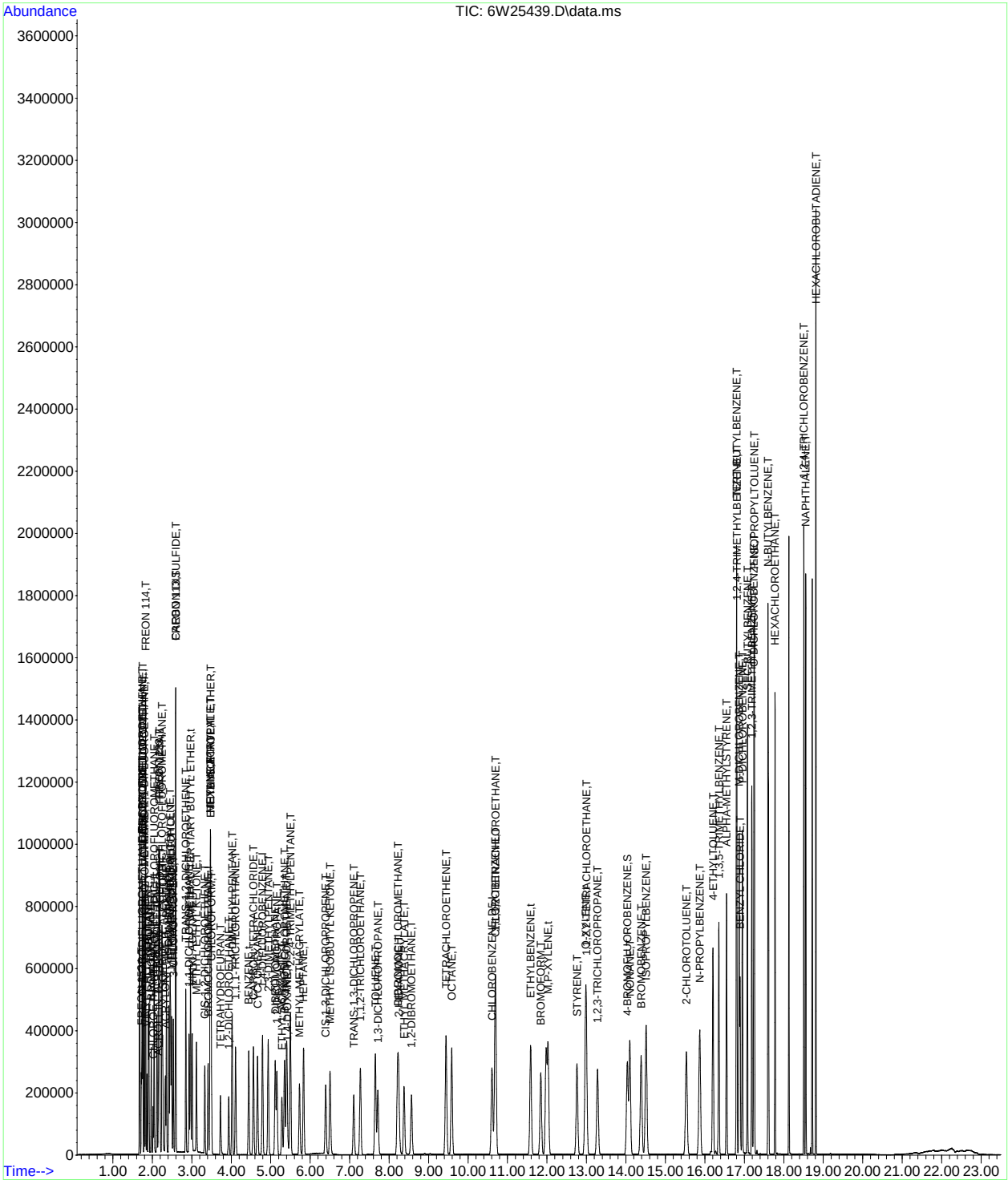
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
58) ETHYL ACRYLATE	5.283	55	208647	8.86	PPBV		99
59) BROMODICHLOROMETHANE	5.351	83	203368	9.58	PPBV		100
60) 2,2,4-TRIMETHYLPENTANE	5.499	57	431884	8.38	PPBV		99
61) 1,4-DIOXANE	5.422	88	65554	11.00	PPBV	#	94
62) HEPTANE	5.830	43	146922	7.53	PPBV		89
63) METHYL METHACRYLATE	5.730	69	97823	9.47	PPBV	#	80
64) METHYL ISOBUTYL KETONE	6.502	58	87406	9.63	PPBV		81
65) CIS-1,3-DICHLOROPROPENE	6.393	75	151648	9.17	PPBV	#	84
66) TOLUENE	7.653	91	318933	8.94	PPBV		100
67) 1,3-DICHLOROPROPANE	7.717	76	165511	9.12	PPBV		99
68) TRANS-1,3-DICHLOROPROPENE	7.103	75	134079	8.59	PPBV	#	85
69) 1,1,2-TRICHLOROETHANE	7.270	83	99869	9.39	PPBV		99
70) 2-HEXANONE	8.241	58	107185	10.80	PPBV	#	79
71) ETHYL METHACRYLATE	8.380	69	159900	10.19	PPBV	#	86
72) TETRACHLOROETHENE	9.444	164	134561	10.34	PPBV		98
73) DIBROMOCHLOROMETHANE	8.219	129	209145	10.37	PPBV		99
74) 1,2-DIBROMOETHANE	8.566	107	181541	9.48	PPBV		100
75) OCTANE	9.585	43	209645	7.76	PPBV	#	86
77) 1,1,1,2-TETRACHLOROETHANE	10.698	131	147901	10.44	PPBV		97
78) CHLOROBENZENE	10.685	112	269810	9.64	PPBV		100
79) ETHYLBENZENE	11.582	91	424446	9.18	PPBV		100
80) M,P-XYLENE	12.026	91	661063	18.89	PPBV	#	65
81) O-XYLENE	12.978	91	336395	9.30	PPBV		97
82) STYRENE	12.759	104	252837	9.93	PPBV		97
83) NONANE	14.103	43	226973	8.36	PPBV	#	84
84) BROMOFORM	11.843	173	205988	11.48	PPBV	#	98
85) 1,1,2,2-TETRACHLOROETHANE	12.997	83	272856	9.79	PPBV		100
86) 1,2,3-TRICHLOROPROPANE	13.277	75	198870	9.54	PPBV	#	100
88) ISOPROPYLBENZENE	14.508	120	136880	9.96	PPBV		92
89) BROMOBENZENE	14.386	77	242723	9.14	PPBV		96
90) 2-CHLOROTOLUENE	15.534	126	121530	10.08	PPBV		100
91) N-PROPYLBENZENE	15.871	120	138569	10.03	PPBV		99
92) 4-ETHYLTOLUENE	16.206	105	499358	9.95	PPBV		100
93) 1,3,5-TRIMETHYLBENZENE	16.354	105	413464	9.85	PPBV		99
94) ALPHA-METHYLSTYRENE	16.550	118	210649	10.77	PPBV		99
95) TERT-BUTYLBENZENE	16.804	134	109371	10.04	PPBV		92
96) 1,2,4-TRIMETHYLBENZENE	16.810	105	437575	9.87	PPBV		95
97) BENZYL CHLORIDE	16.894	91	281633	7.99	PPBV		98
98) M-DICHLOROBENZENE	16.868	146	314430	10.36	PPBV		100
99) P-DICHLOROBENZENE	16.952	146	319638	10.40	PPBV		100
100) O-DICHLOROBENZENE	17.241	146	309115	10.54	PPBV		100
101) SEC-BUTYLBENZENE	17.080	134	139499	10.59	PPBV		88
102) 1,2,3-TRIMETHYLBENZENE	17.190	105	431043	9.96	PPBV		98
103) P-ISOPROPYLTOLUENE	17.254	134	157813	10.59	PPBV		90
104) N-BUTYLBENZENE	17.598	134	149771	10.66	PPBV		96
105) HEXACHLOROETHANE	17.778	117	172917	10.01	PPBV		96
106) HEXACHLOROBUTADIENE	18.813	225	273362	10.62	PPBV		99
107) 1,2,4-TRICHLOROBENZENE	18.508	180	335628	11.15	PPBV		99
108) NAPHTHALENE	18.556	128	798498	10.67	PPBV		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W25439.D
Acq On : 11 Aug 2022 8:20 am
Operator : thomash
Sample : cc1077-10
Misc : MS61233,V6W1083,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 11 14:24:49 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 05 08:58:59 2022
Response via : Initial Calibration



Manual Integration Approval Summary

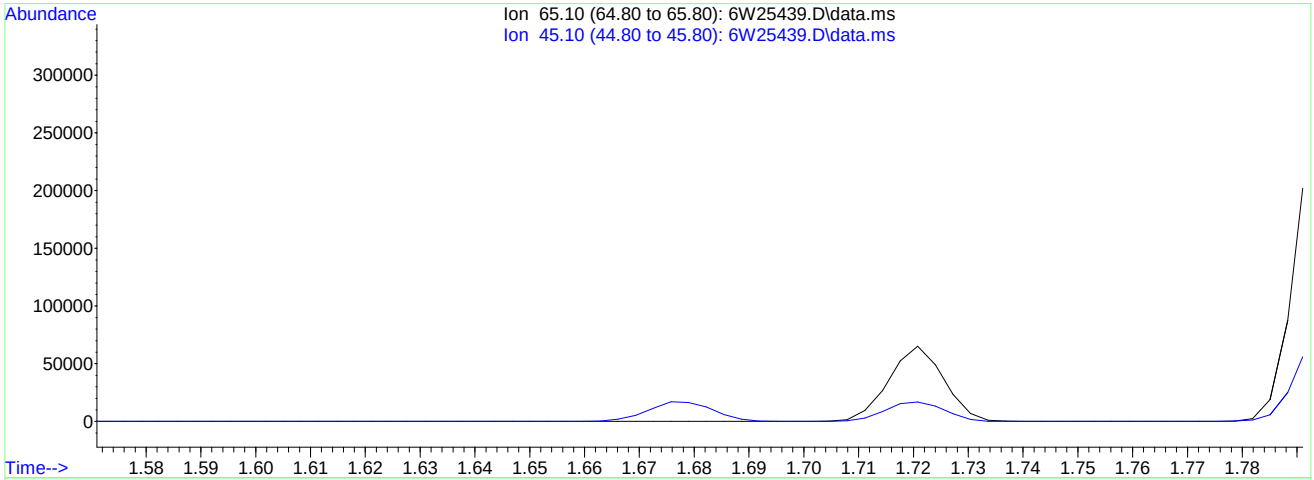
Sample Number:	V6W1083-CC1077	**Method:**	TO-15
Lab FileID:	6W25439.D	**Analyst approved:**	08/11/22 14:56 Thomas Hilbig
Injection Time:	08/11/22 08:20	**Supervisor approved:**	08/16/22 00:18 Kanya Veerawat

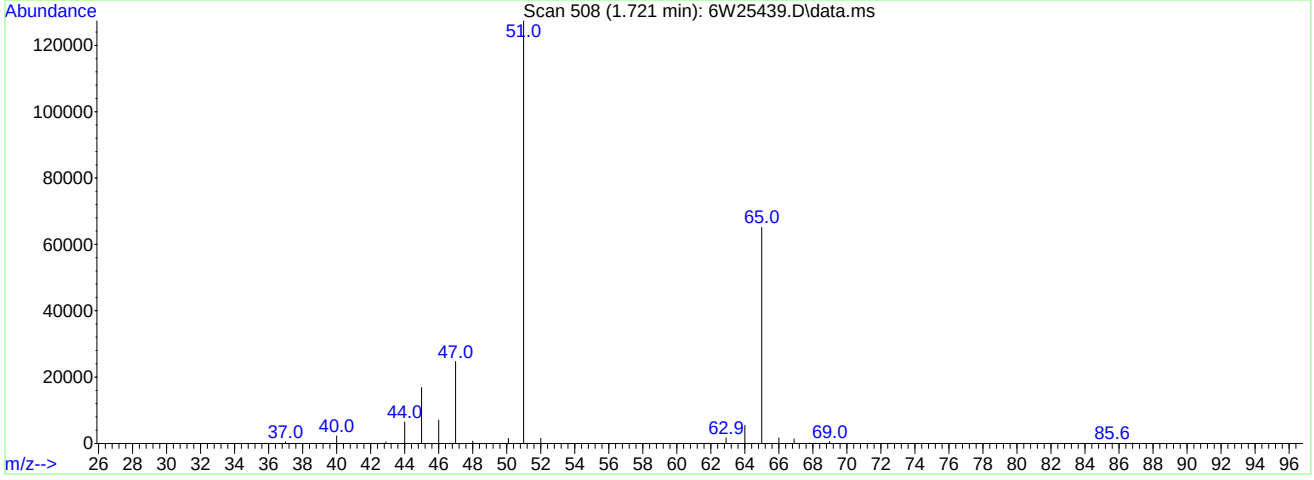
Parameter	CAS	Sig#	R.T. (min.)	Reason
Freon 152A	75-37-6		1.72	Missed peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25439.D
Acq On : 11 Aug 2022 8:20 am
Operator : thomash
Sample : cc1077-10
Misc : MS61233,V6W1083,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 11 08:48:34 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 05 08:58:59 2022
Response via : Initial Calibration





TIC: 6W25439.D\data.ms

(3) FREON 152A (T)

1.721min (-1.721) 0.00PPBV

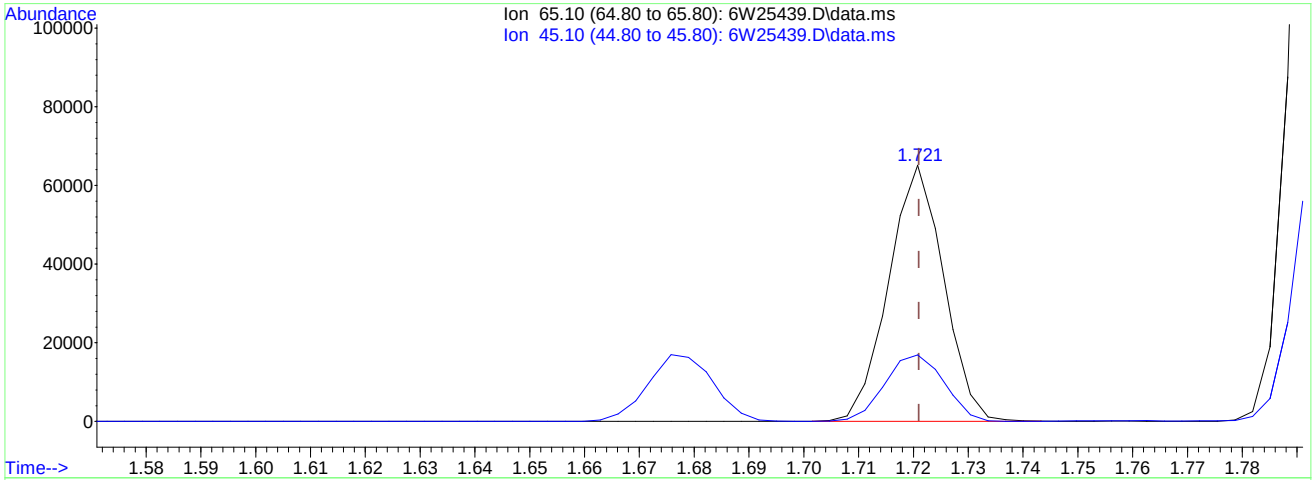
response 0

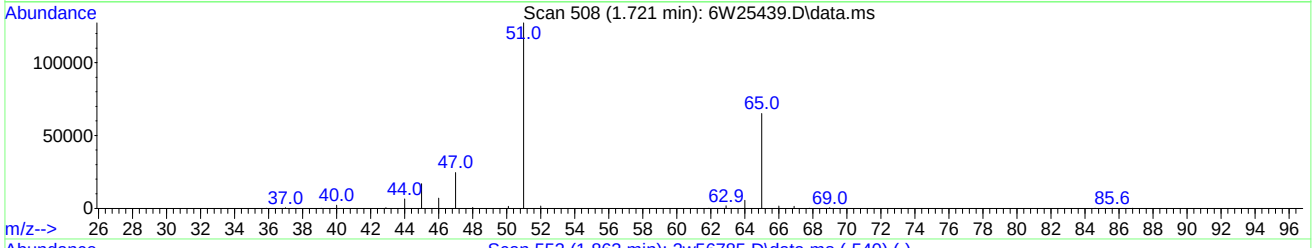
Ion	Exp%	Act%
65.10	100	0.00
45.10	22.90	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

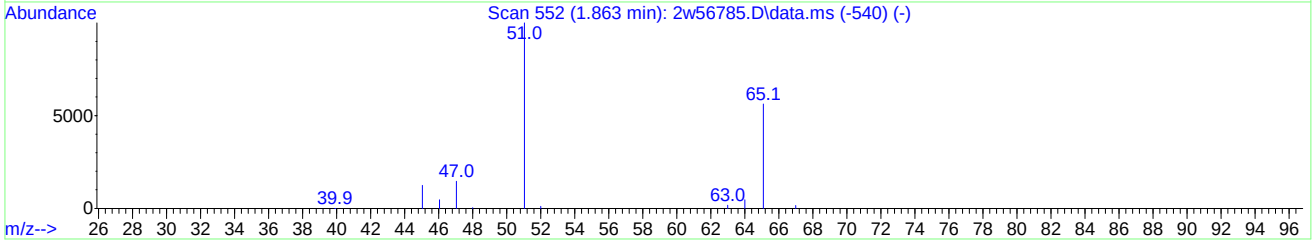
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W25439.D
Acq On : 11 Aug 2022 8:20 am
Operator : thomash
Sample : cc1077-10
Misc : MS61233,V6W1083,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 11 08:48:34 2022
Quant Method : C:\msdchem\1\methods\M6W1077.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Fri Aug 05 08:58:59 2022
Response via : Initial Calibration







TIC: 6W25439.D\data.ms

(3) FREON 152A (T)

1.721min (-0.000) 8.64PPBV m

response 45667

Ion	Exp%	Act%
65.10	100	100
45.10	22.90	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 10/20/22 12:15

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26448.D
Acq On : 19 Oct 2022 7:10 pm
Operator : thomash
Sample : ic1125-0.04
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 09:48:06 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration

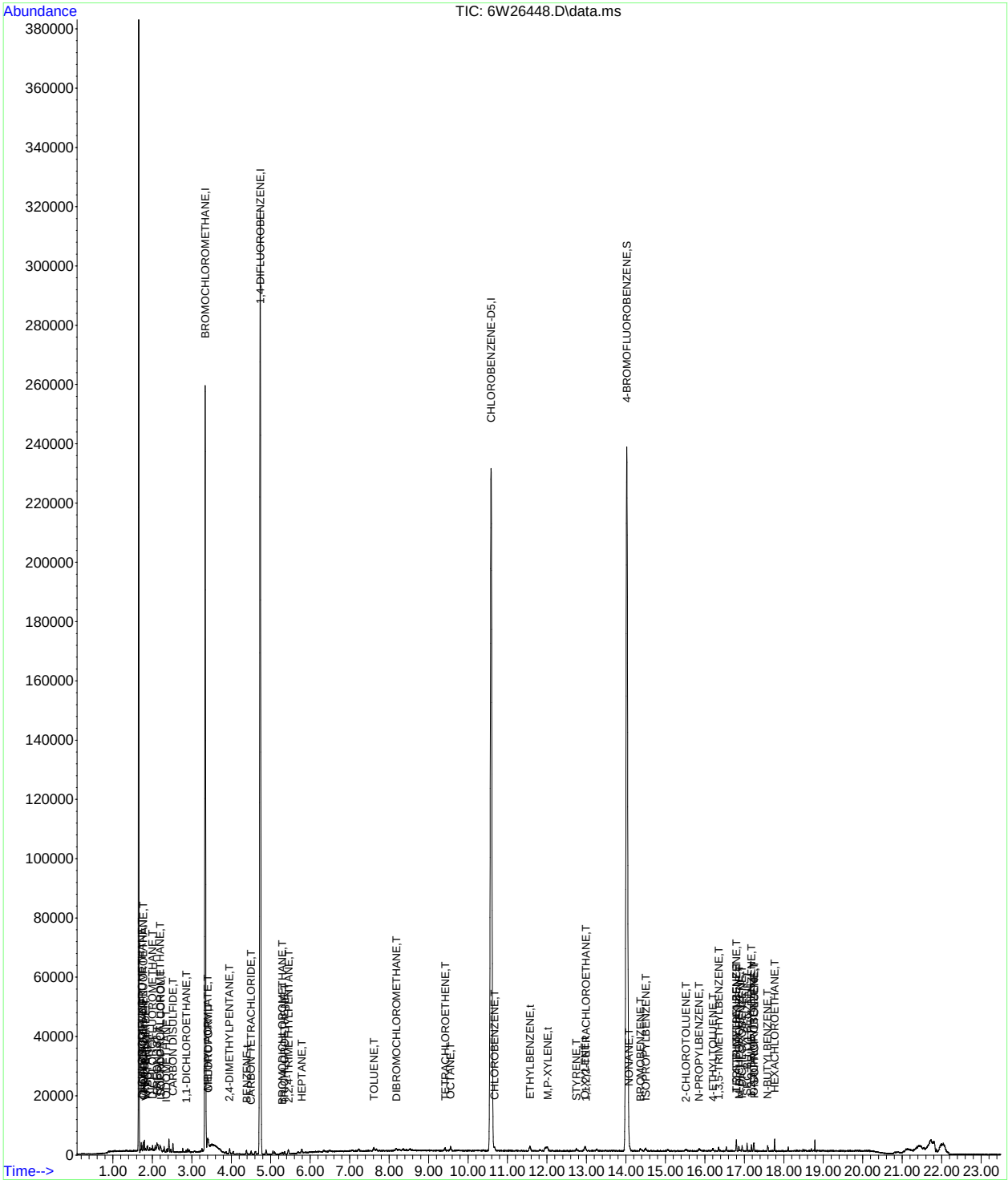
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.341	128	49562	10.00	PPBV	#	0.00
52) 1,4-DIFLUOROBENZENE	4.733	114	238408	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	10.585	117	206644	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	14.022	95	141592	9.68	PPBV		0.00
Target Compounds							Qvalue
6) DICHLORODIFLUOROMETHANE	1.734	85	578m	0.04	PPBV		
8) 1-CHLORO-1,1-DIFLUOROE...	1.769	65	563	0.04	PPBV	#	2
9) FREON 114	1.801	85	673	0.04	PPBV	#	24
10) CHLOROMETHANE	1.775	52	113m	0.06	PPBV		
11) VINYL CHLORIDE	1.830	62	269m	0.04	PPBV		
13) N-BUTANE	1.878	43	745	0.07	PPBV	#	65
16) DICHLOROFLUOROMETHANE	2.004	67	557	0.04	PPBV	#	49
19) FREON 123	2.116	83	508	0.04	PPBV	#	83
21) TRICHLOROFLUOROMETHANE	2.193	101	689	0.05	PPBV	#	25
22) ISOPROPYL ALCOHOL	2.216	45	815	0.06	PPBV	#	63
25) IODOMETHANE	2.357	142	562	0.04	PPBV	#	38
27) CARBON DISULFIDE	2.521	76	771	0.04	PPBV	#	73
40) 1,1-DICHLOROETHANE	2.856	63	522	0.04	PPBV	#	50
45) METHYL ACRYLATE	3.402	55	500	0.03	PPBV	#	65
46) CHLOROFORM	3.418	83	561	0.04	PPBV	#	18
47) 2,4-DIMETHYLPENTANE	3.955	57	563	0.04	PPBV	#	31
49) CARBON TETRACHLORIDE	4.499	117	548	0.04	PPBV	#	86
51) BENZENE	4.389	78	986	0.05	PPBV	#	66
55) TRICHLOROETHENE	5.344	95	322m	0.03	PPBV		
59) BROMODICHLOROMETHANE	5.290	83	595	0.04	PPBV	#	18
60) 2,2,4-TRIMETHYLPENTANE	5.450	57	1425	0.04	PPBV	#	48
62) HEPTANE	5.785	43	669	0.04	PPBV	#	15
66) TOLUENE	7.611	91	1324	0.05	PPBV		94
72) TETRACHLOROETHENE	9.421	164	234m	0.03	PPBV		
73) DIBROMOCHLOROMETHANE	8.180	129	522	0.03	PPBV	#	21
75) OCTANE	9.556	43	883	0.04	PPBV	#	23
78) CHLOROBENZENE	10.666	112	697	0.03	PPBV	#	30
79) ETHYLBENZENE	11.572	91	2155	0.07	PPBV		95
80) M,P-XYLENE	12.016	91	2929m	0.12	PPBV		
81) O-XYLENE	12.958	91	1490	0.06	PPBV	#	82
82) STYRENE	12.740	104	652	0.03	PPBV	#	33
83) NONANE	14.077	43	931	0.04	PPBV	#	45
85) 1,1,2,2-TETRACHLOROETHANE	12.984	83	634	0.03	PPBV	#	25
88) ISOPROPYLBENZENE	14.502	105	1396	0.04	PPBV	#	53
89) BROMOBENZENE	14.370	77	607	0.03	PPBV	#	17
90) 2-CHLOROTOLUENE	15.521	91	800	0.03	PPBV	#	47
91) N-PROPYLBENZENE	15.852	91	1361	0.03	PPBV	#	56
92) 4-ETHYLTOLUENE	16.199	105	937	0.03	PPBV	#	49
93) 1,3,5-TRIMETHYLBENZENE	16.350	105	883	0.03	PPBV	#	34
95) TERT-BUTYLBENZENE	16.797	119	984	0.03	PPBV	#	85
96) 1,2,4-TRIMETHYLBENZENE	16.797	105	846	0.03	PPBV	#	72
98) M-DICHLOROBENZENE	16.865	146	574	0.03	PPBV	#	25
99) P-DICHLOROBENZENE	16.942	146	609	0.03	PPBV	#	26
100) O-DICHLOROBENZENE	17.238	146	606	0.03	PPBV	#	25
101) SEC-BUTYLBENZENE	17.071	105	1170	0.03	PPBV	#	60
102) 1,2,3-TRIMETHYLBENZENE	17.180	105	809	0.03	PPBV	#	39
103) P-ISOPROPYLTOLUENE	17.251	119	921	0.02	PPBV	#	53
104) N-BUTYLBENZENE	17.585	91	731	0.02	PPBV	#	32
105) HEXACHLOROETHANE	17.765	117	506	0.04	PPBV	#	4

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26448.D
Acq On : 19 Oct 2022 7:10 pm
Operator : thomash
Sample : ic1125-0.04
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 09:48:06 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration



Manual Integration Approval Summary

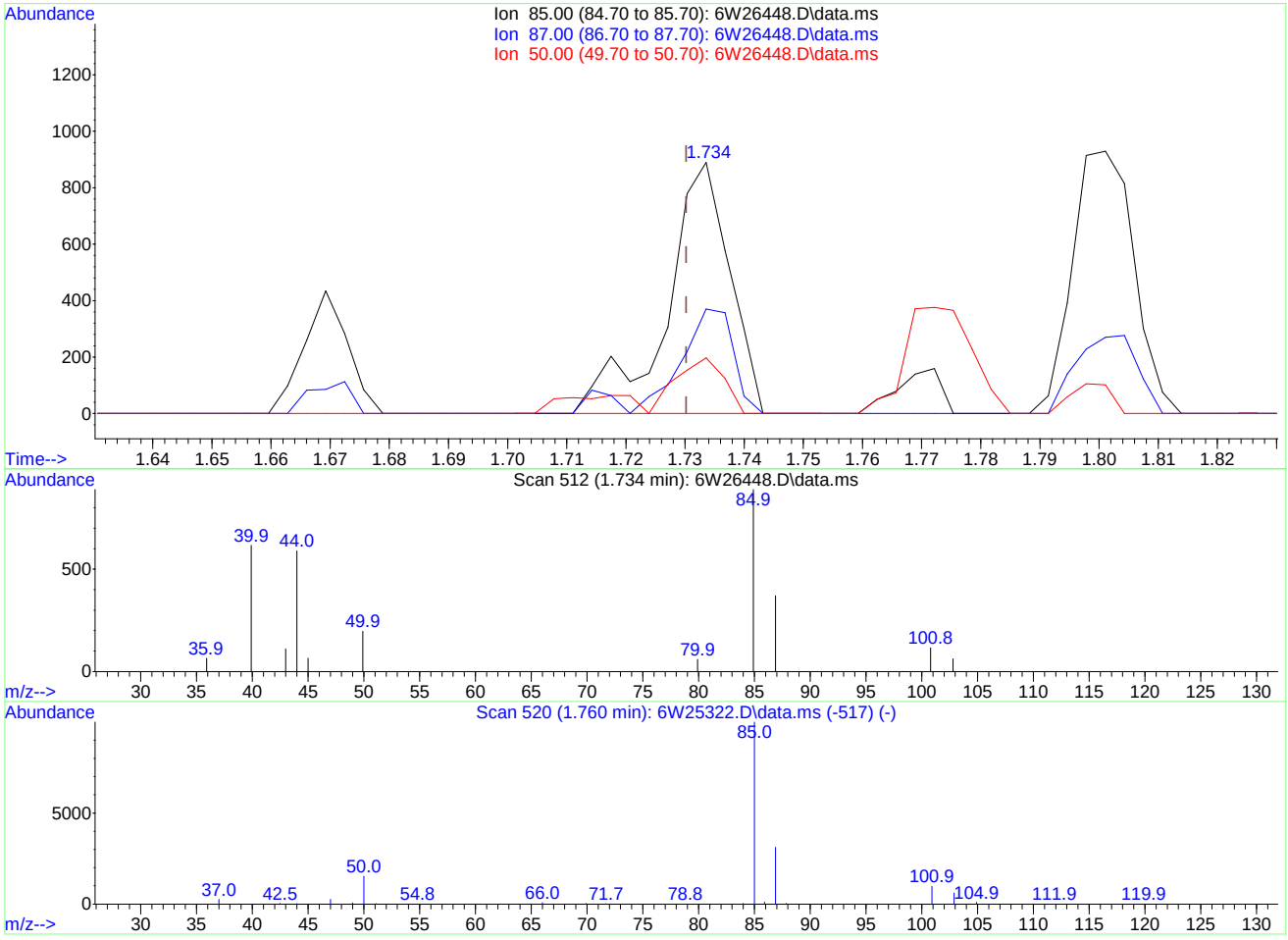
Sample Number: V6W1125-IC1125 **Method:** TO-15
Lab FileID: 6W26448.D **Analyst approved:** 10/20/22 10:04 Thomas Hilbig
Injection Time: 10/19/22 19:10 **Supervisor approved:** 10/20/22 12:15 Kanya Veerawat

Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.73	Overlapping peak
Chloromethane	74-87-3		1.78	Missed peak
Vinyl chloride	75-01-4		1.83	Missed peak
Trichloroethylene	79-01-6		5.34	Missed peak
Tetrachloroethylene	127-18-4		9.42	Missed peak
m,p-Xylene			12.02	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26448.D
Acq On : 19 Oct 2022 7:10 pm
Operator : thomash
Sample : ic1125-0.04
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 07:55:00 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration



TIC: 6W26448.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.734min (+0.003) 0.04PPBV

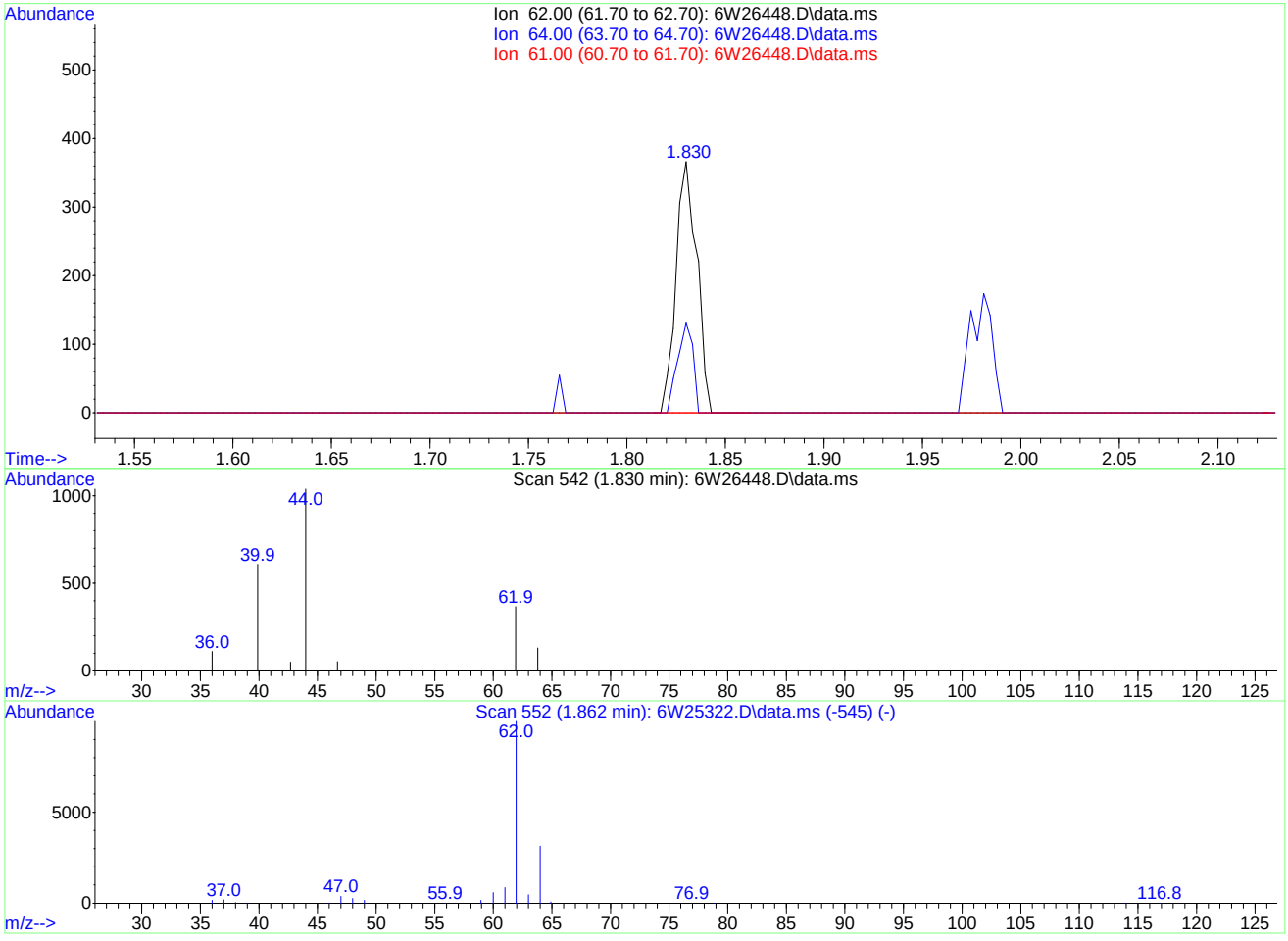
response 657

Ion	Exp%	Act%
85.00	100	100
87.00	32.20	0.00#
50.00	9.30	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26448.D
Acq On : 19 Oct 2022 7:10 pm
Operator : thomash
Sample : ic1125-0.04
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 07:55:00 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration



TIC: 6W26448.D\data.ms

(11) VINYL CHLORIDE (T)

1.830min (+0.000) 0.04PPBV m

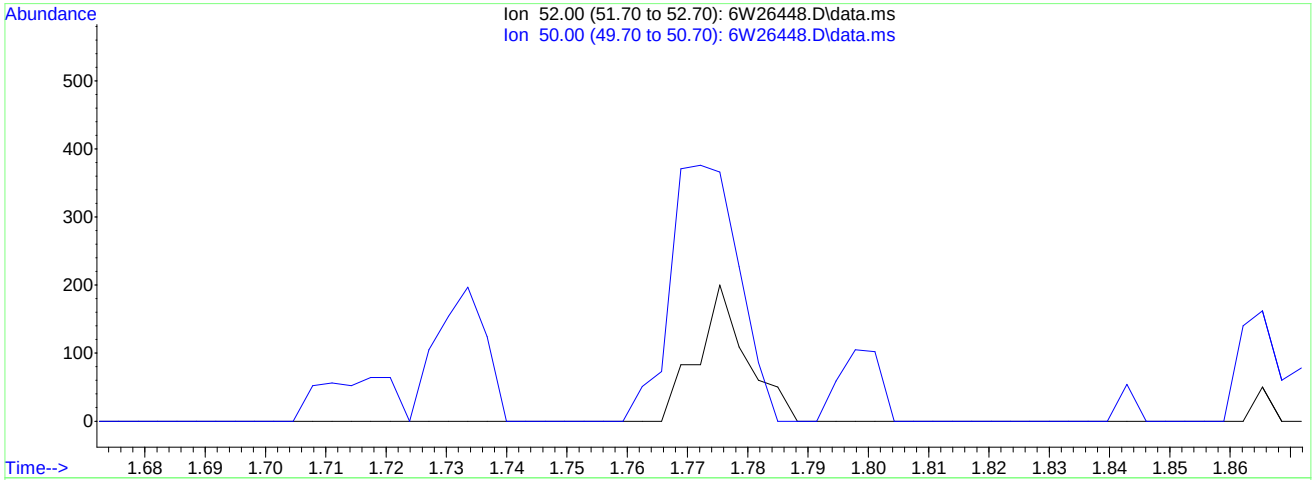
response 269

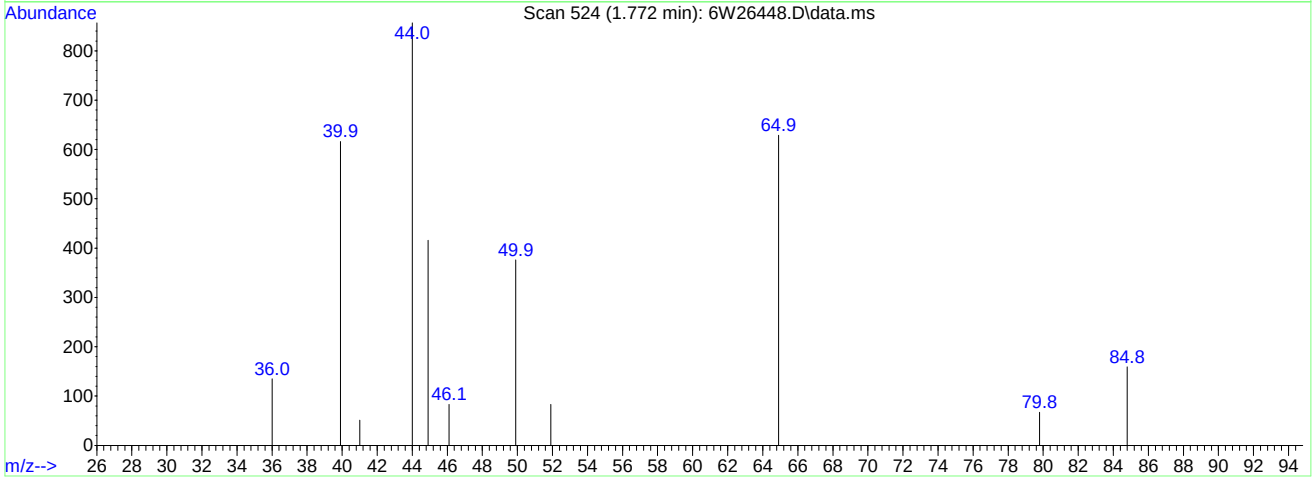
Ion	Exp%	Act%
62.00	100	100
64.00	32.10	0.00#
61.00	8.40	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26448.D
Acq On : 19 Oct 2022 7:10 pm
Operator : thomash
Sample : ic1125-0.04
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 07:55:00 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration





TIC: 6W26448.D\data.ms

(10) CHLOROMETHANE (T)

1.772min (-1.772) 0.00PPBV

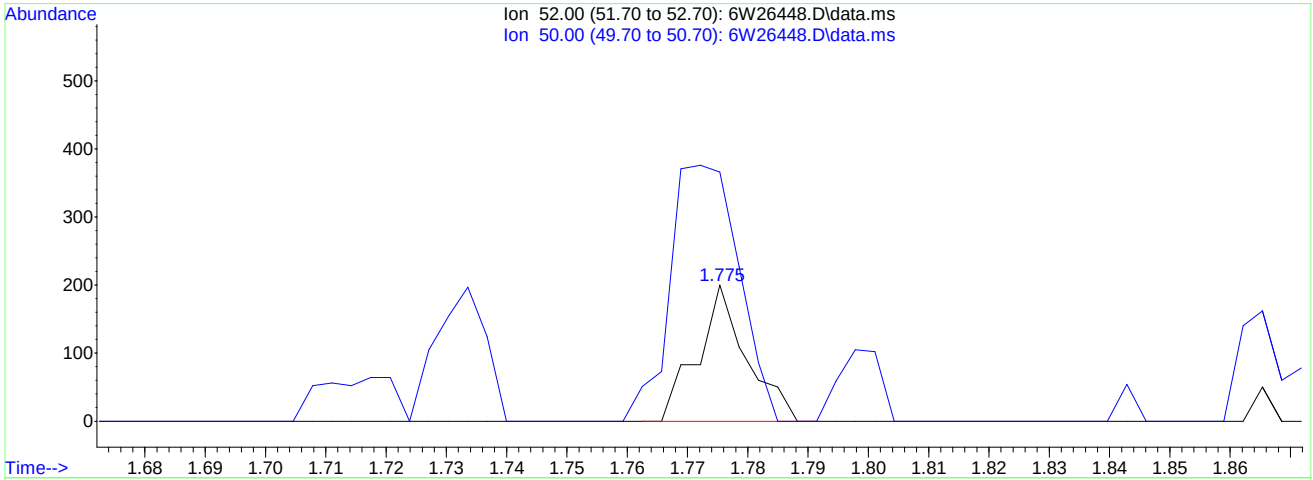
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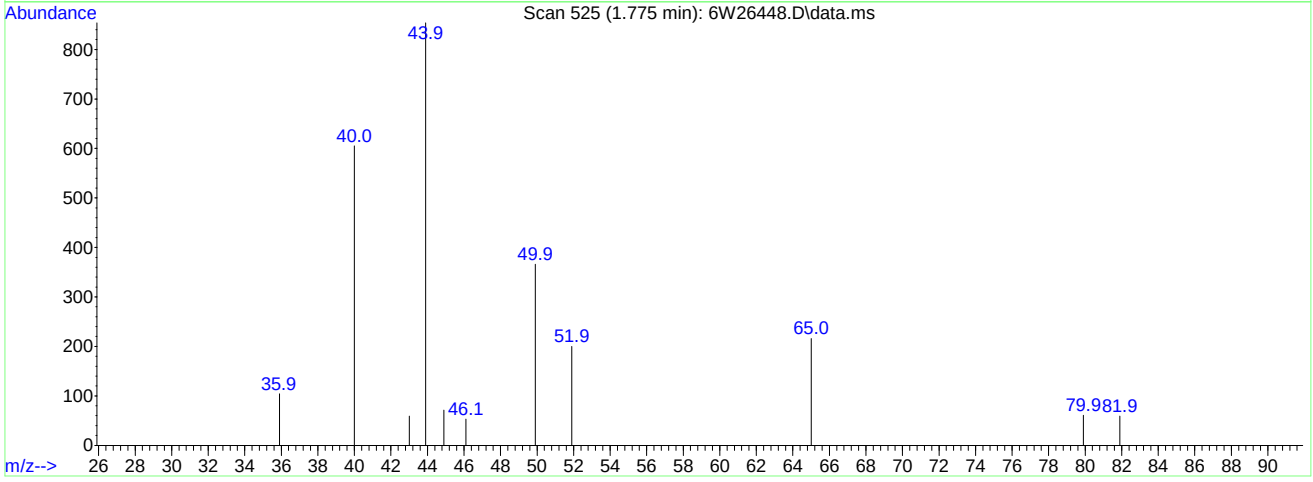
Ion	Exp%	Act%
52.00	100	0.00
50.00	310.20	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26448.D
Acq On : 19 Oct 2022 7:10 pm
Operator : thomash
Sample : ic1125-0.04
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 07:55:00 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration





TIC: 6W26448.D\data.ms

(10) CHLOROMETHANE (T)

1.775min (+0.003) 0.06PPBV m

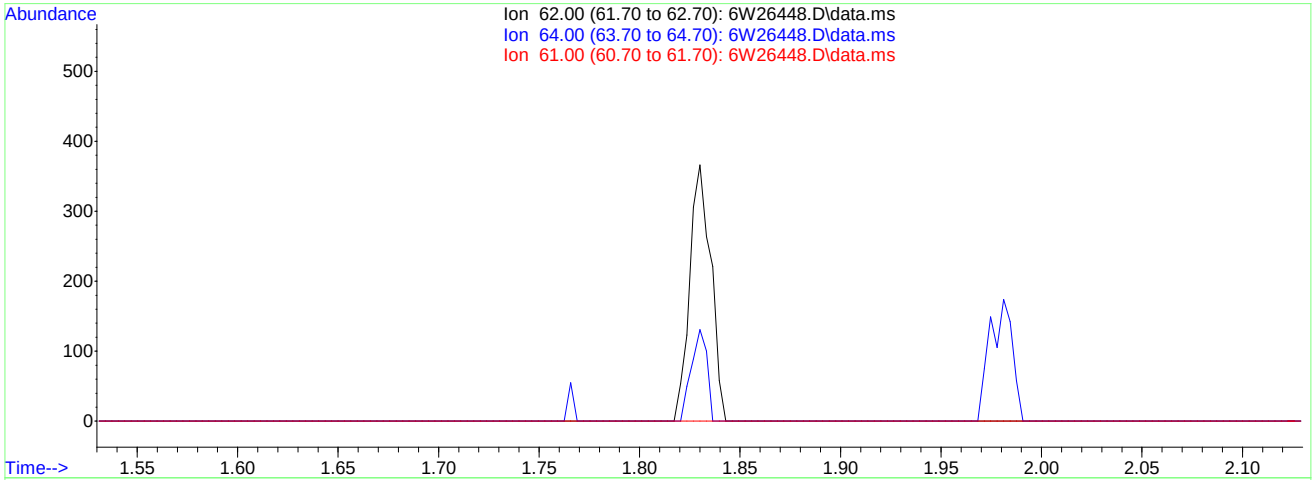
response 113

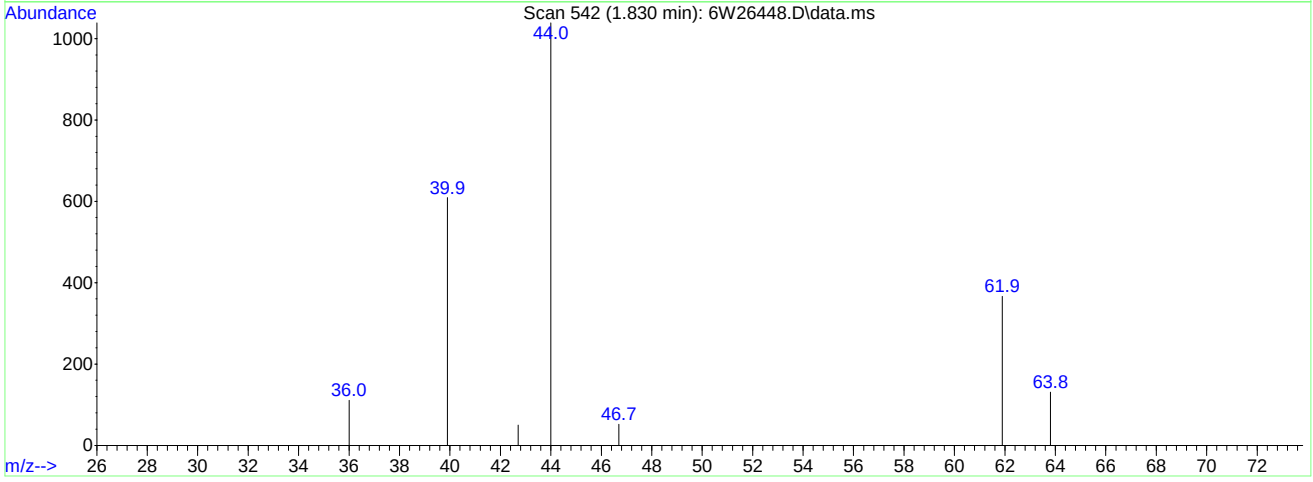
Ion	Exp%	Act%
52.00	100	100
50.00	310.20	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26448.D
Acq On : 19 Oct 2022 7:10 pm
Operator : thomash
Sample : ic1125-0.04
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 07:55:00 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration





TIC: 6W26448.D\data.ms

(11) VINYL CHLORIDE (T)

1.830min (-1.830) 0.00PPBV

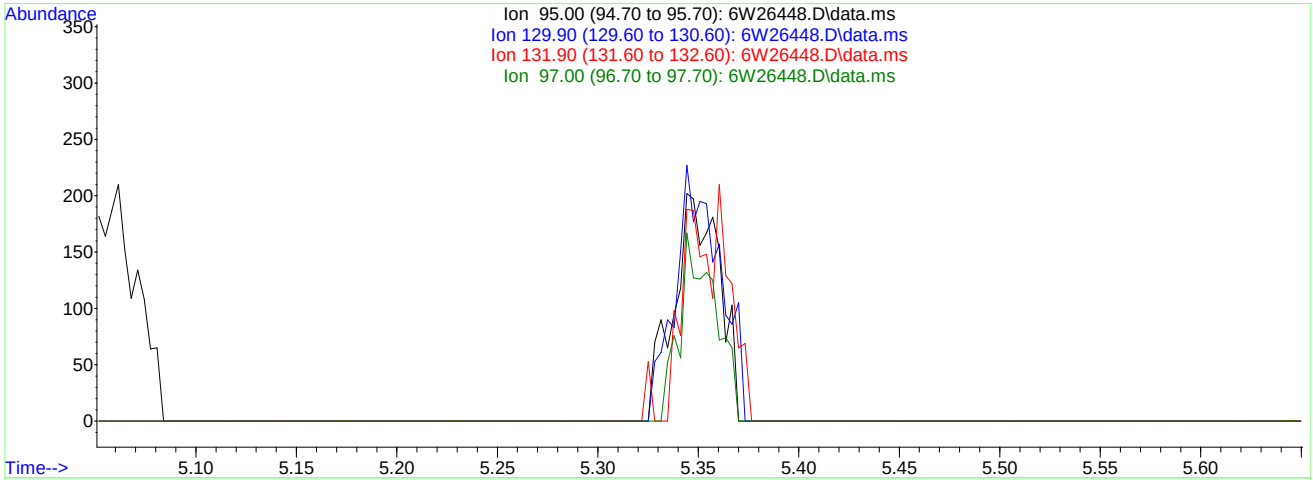
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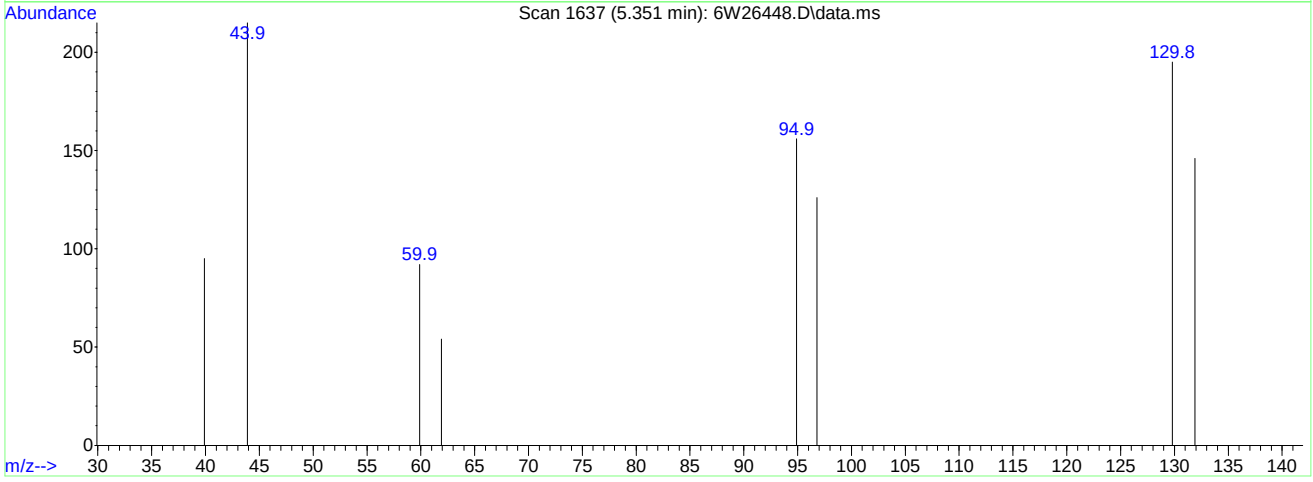
Ion	Exp%	Act%
62.00	100	0.00
64.00	32.10	0.00#
61.00	8.40	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26448.D
Acq On : 19 Oct 2022 7:10 pm
Operator : thomash
Sample : ic1125-0.04
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 07:55:00 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration





TIC: 6W26448.D\data.ms

(55) TRICHLOROETHENE (T)

5.351min (-5.351) 0.00PPBV

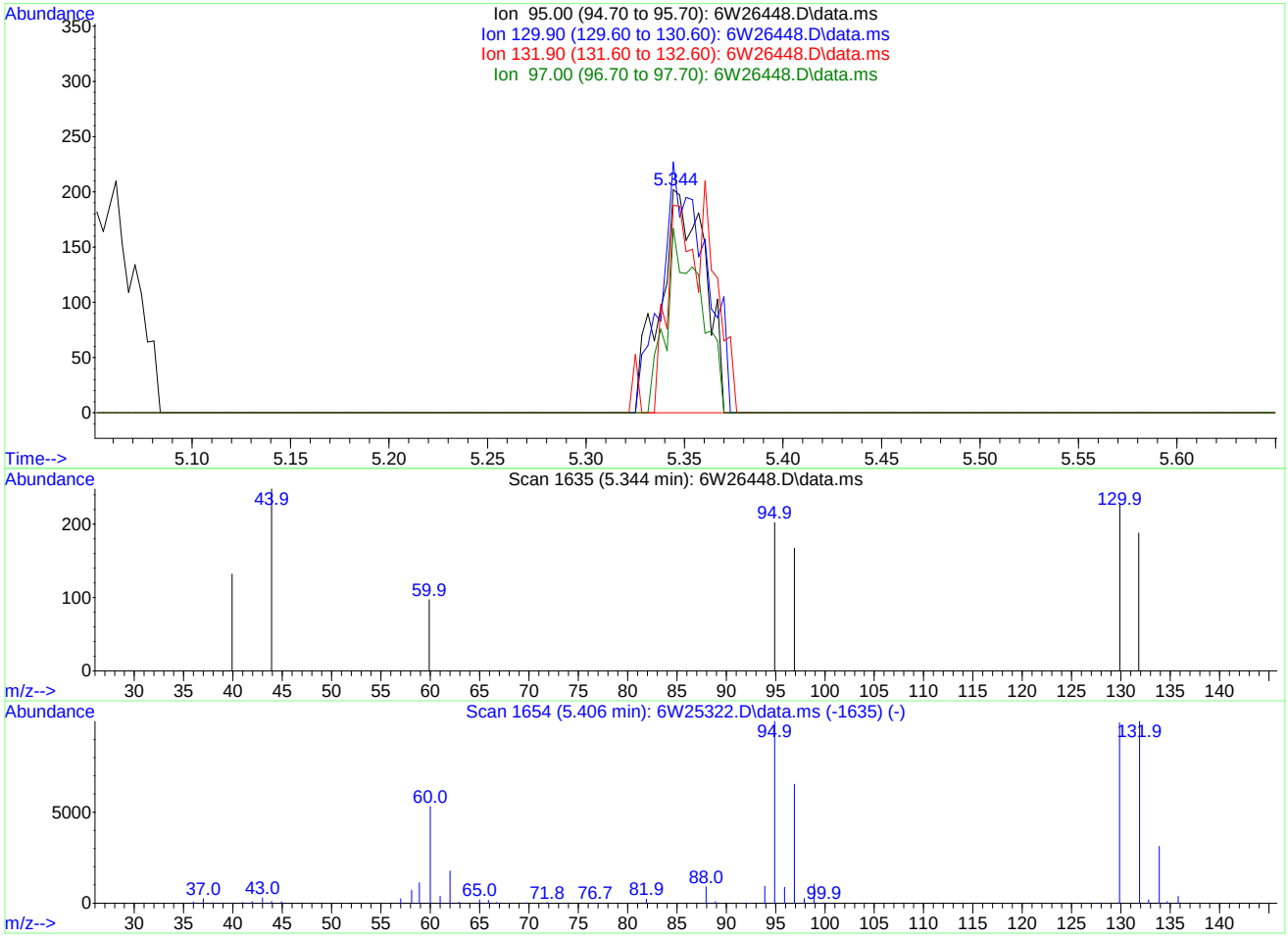
response 0

Ion	Exp%	Act%
95.00	100	0.00
129.90	104.00	0.00#
131.90	99.70	0.00#
97.00	64.10	0.00#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26448.D
Acq On : 19 Oct 2022 7:10 pm
Operator : thomash
Sample : ic1125-0.04
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 07:55:00 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration



TIC: 6W26448.D\data.ms

(55) TRICHLOROETHENE (T)

5.344min (-0.006) 0.03PPBV m

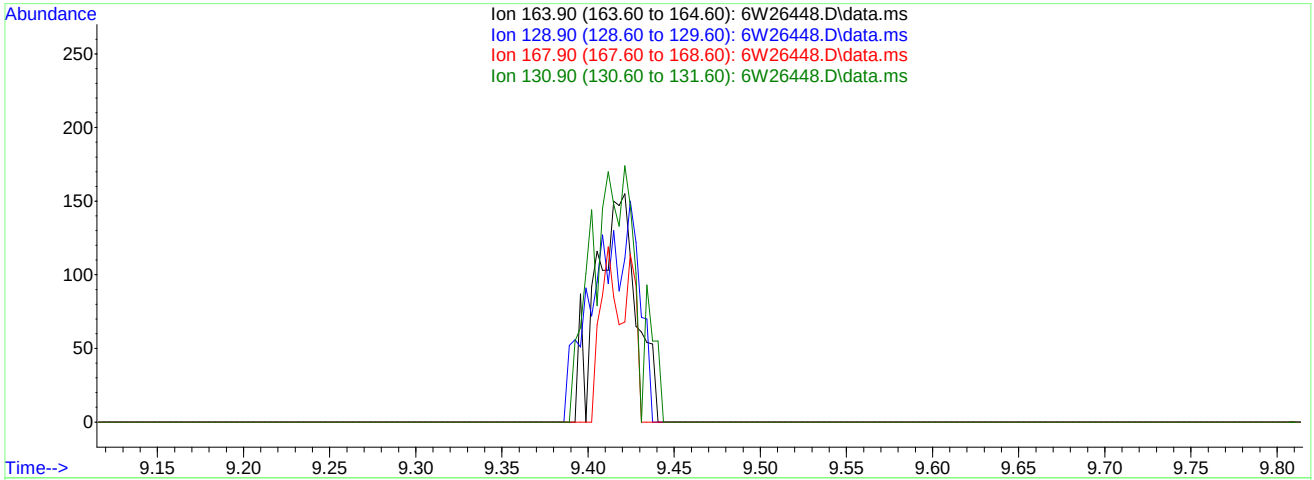
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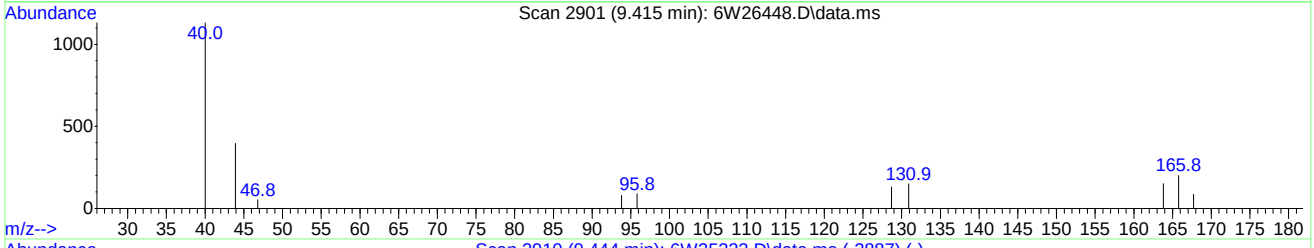
Ion	Exp%	Act%
95.00	100	100
129.90	104.00	0.00#
131.90	99.70	0.00#
97.00	64.10	0.00#

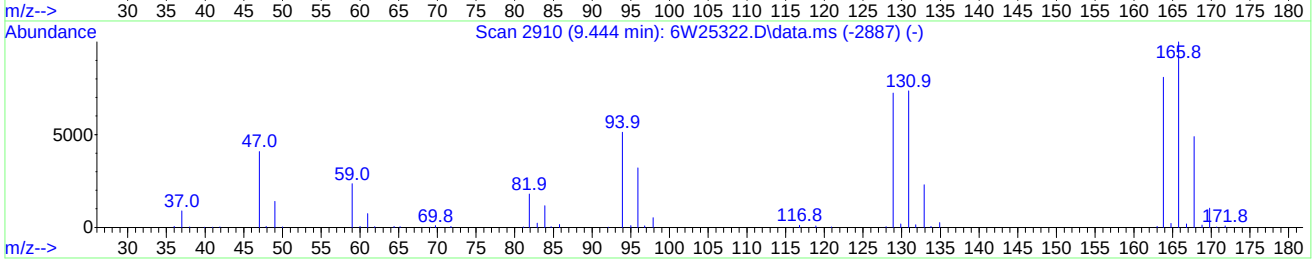
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26448.D
Acq On : 19 Oct 2022 7:10 pm
Operator : thomash
Sample : ic1125-0.04
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 07:55:00 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration







TIC: 6W26448.D\data.ms

(72) TETRACHLOROETHENE (T)

9.415min (-9.415) 0.00PPBV

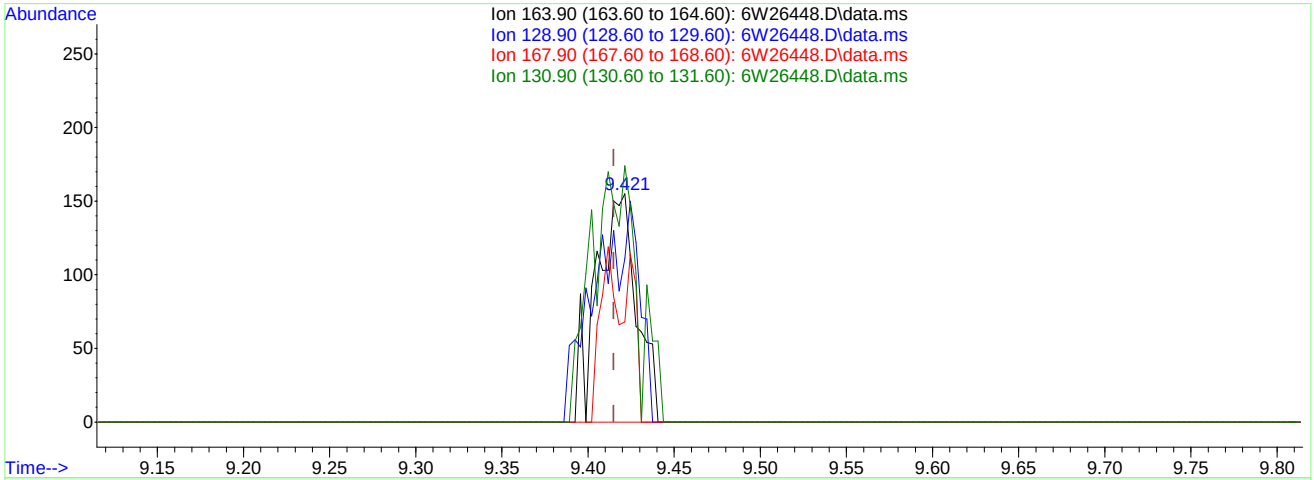
response 0

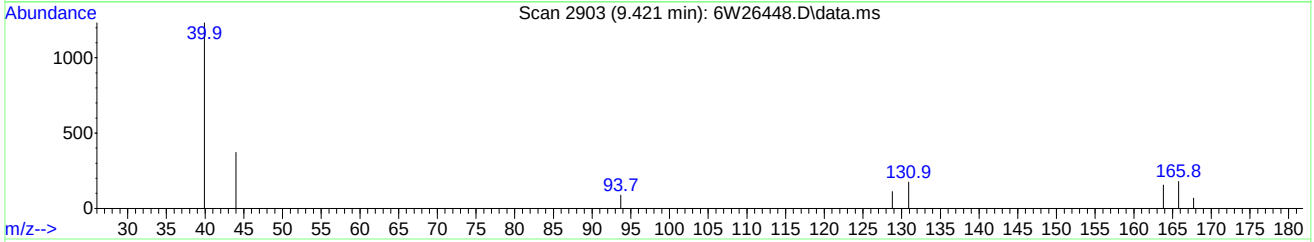
Ion	Exp%	Act%
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128.90	90.00	0.00#
167.90	60.70	0.00#
130.90	86.30	0.00#

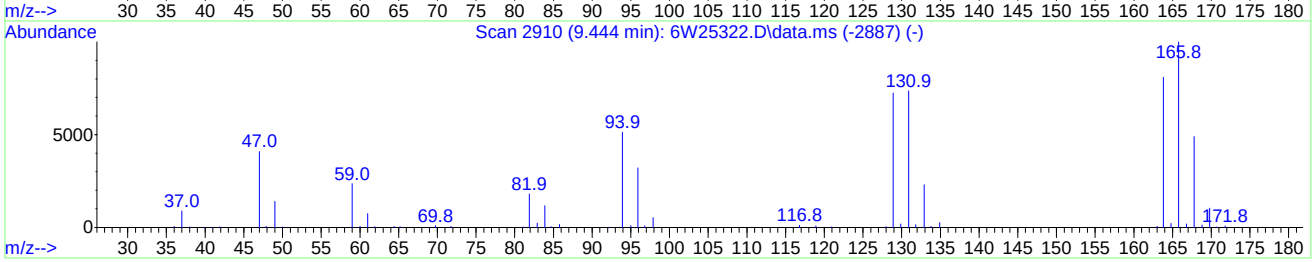
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26448.D
Acq On : 19 Oct 2022 7:10 pm
Operator : thomash
Sample : ic1125-0.04
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 07:55:00 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration







TIC: 6W26448.D\data.ms

(72) TETRACHLOROETHENE (T)

9.421min (+0.007) 0.03PPBV m

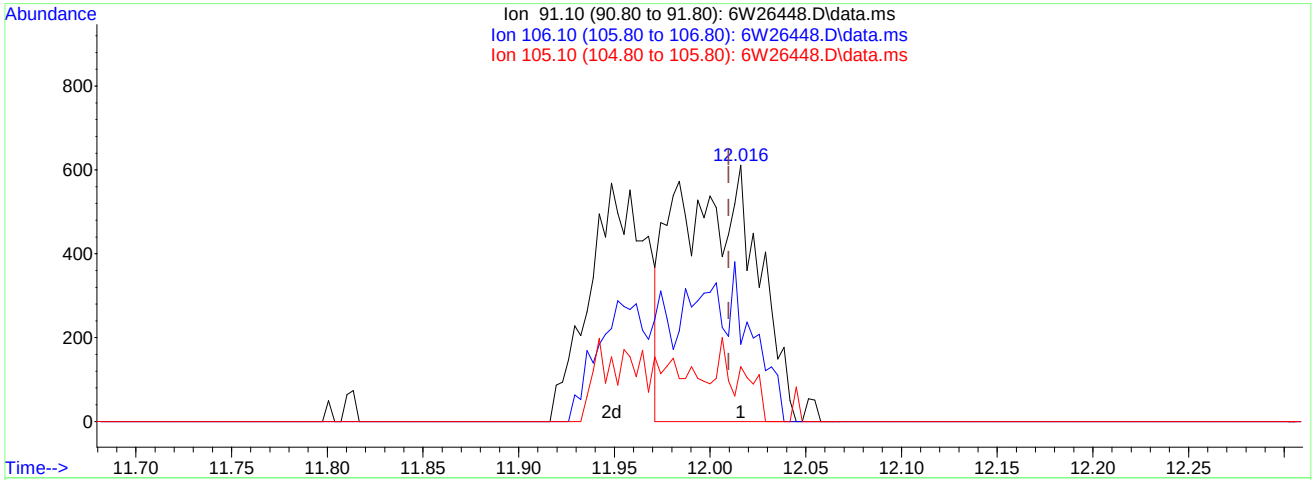
response 234

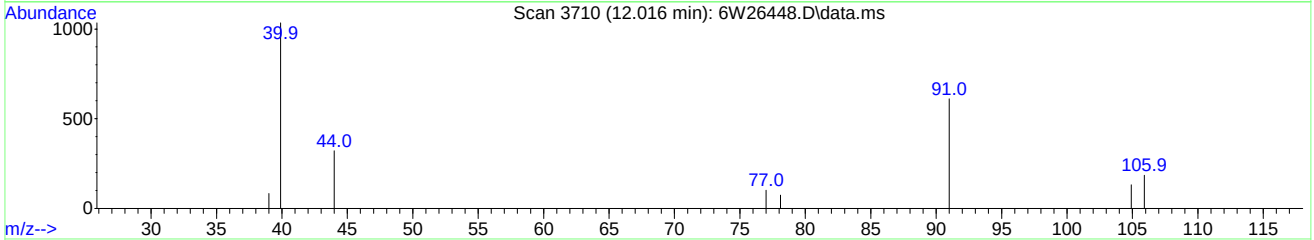
Ion	Exp%	Act%
163.90	100	100
128.90	90.00	0.00#
167.90	60.70	0.00#
130.90	86.30	0.00#

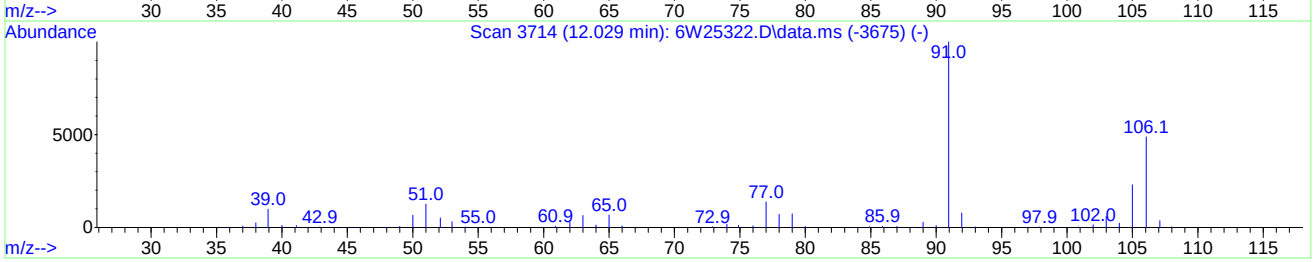
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26448.D
Acq On : 19 Oct 2022 7:10 pm
Operator : thomash
Sample : ic1125-0.04
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 07:55:00 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration







TIC: 6W26448.D\data.ms

(80) M,P-XYLENE (t)

12.016min (+0.007) 0.07PPBV

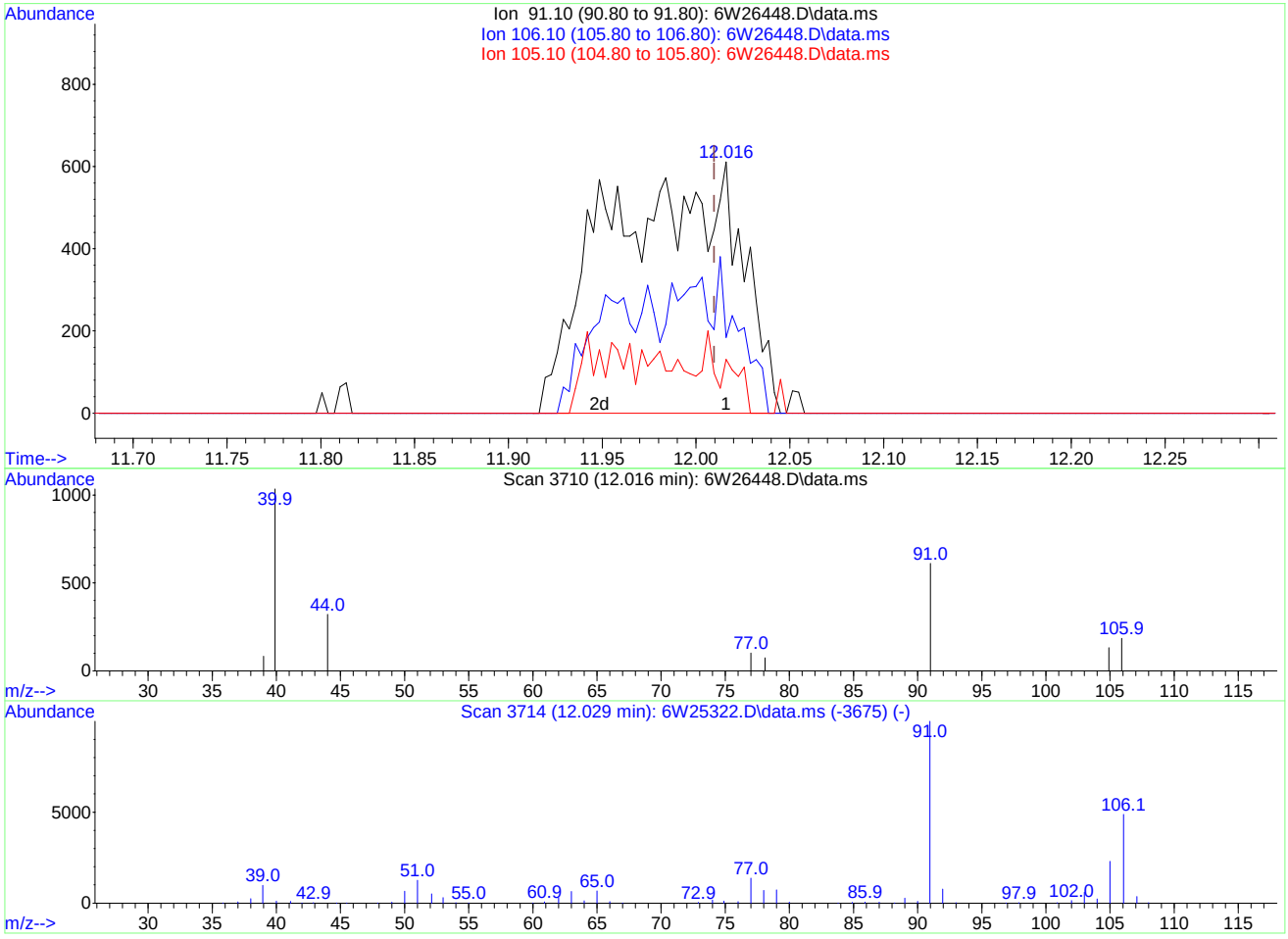
response 1786

Ion	Exp%	Act%
91.10	100	100
106.10	51.50	41.27
105.10	23.60	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26448.D
Acq On : 19 Oct 2022 7:10 pm
Operator : thomash
Sample : ic1125-0.04
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 07:55:00 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration



TIC: 6W26448.D\data.ms

(80) M,P-XYLENE (t)

12.016min (+0.007) 0.12PPBV m

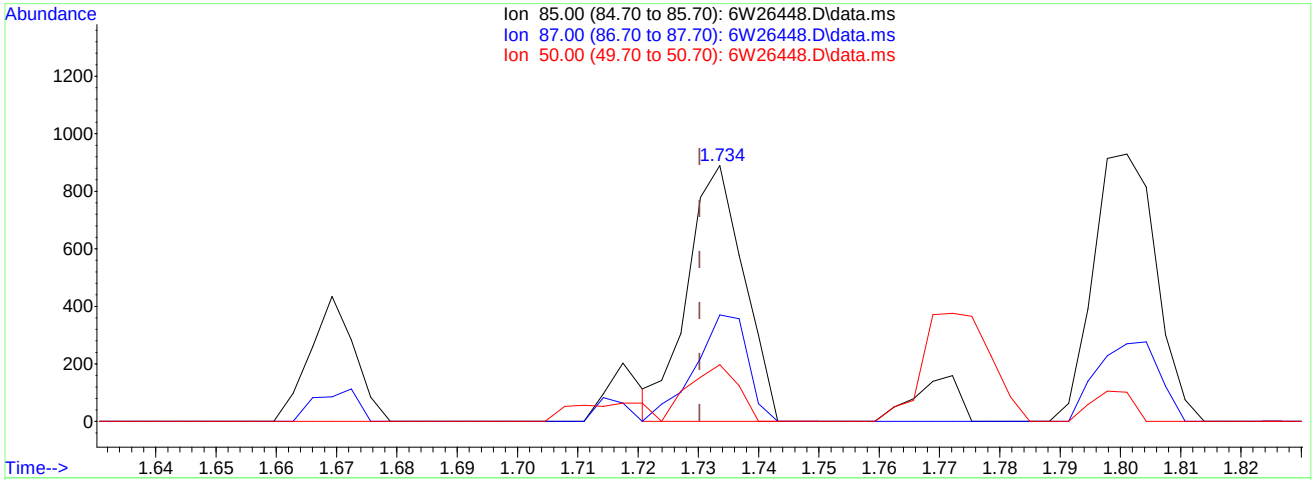
response 2929

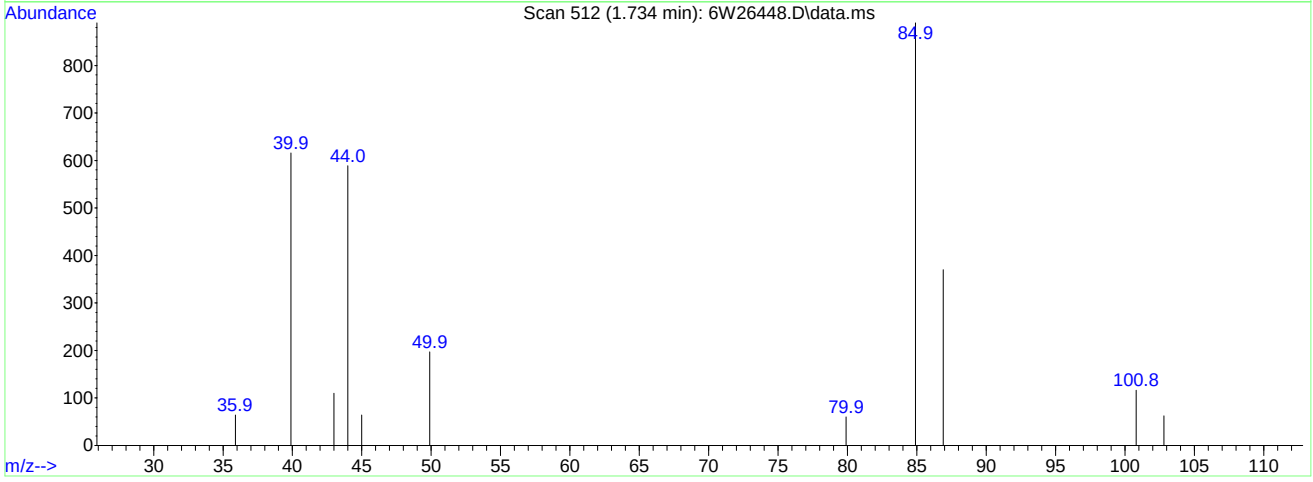
Ion	Exp%	Act%
91.10	100	100
106.10	51.50	25.16#
105.10	23.60	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26448.D
Acq On : 19 Oct 2022 7:10 pm
Operator : thomash
Sample : ic1125-0.04
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 09:48:06 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration





TIC: 6W26448.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.734min (+0.003) 0.04PPBV m

response 578

Ion	Exp%	Act%
85.00	100	100
87.00	32.20	0.00#
50.00	9.30	0.00#
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 10/20/22 12:15

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26449.D
Acq On : 19 Oct 2022 7:43 pm
Operator : thomash
Sample : ic1125-0.1
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 09:45:19 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.341	128	48898	10.00	PPBV	#	0.00
52) 1,4-DIFLUOROBENZENE	4.733	114	236998	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	10.582	117	208233	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	14.026	95	142510	9.67	PPBV		0.00
Target Compounds							Qvalue
5) CHLOROTRIFLUOROETHENE	1.717	116	964	0.11	PPBV	#	42
6) DICHLORODIFLUOROMETHANE	1.733	85	1546m	0.10	PPBV		
7) PROPYLENE	1.714	41	564	0.09	PPBV	#	44
8) 1-CHLORO-1,1-DIFLUOROE...	1.769	65	1371	0.10	PPBV	#	46
9) FREON 114	1.801	85	1620	0.11	PPBV	#	75
10) CHLOROMETHANE	1.775	52	200m	0.10	PPBV		
11) VINYL CHLORIDE	1.830	62	714	0.12	PPBV	#	50
12) 1,3-BUTADIENE	1.868	54	533	0.10	PPBV	#	27
13) N-BUTANE	1.881	43	1299	0.12	PPBV	#	65
14) BROMOMETHANE	1.936	94	505	0.10	PPBV	#	11
15) CHLOROETHANE	1.978	64	276m	0.09	PPBV		
16) DICHLOROFLUOROMETHANE	2.004	67	1283	0.10	PPBV	#	49
17) ACETONITRILE	2.068	41	834	0.13	PPBV	#	9
19) FREON 123	2.116	83	1302	0.11	PPBV	#	92
20) FREON 123A	2.135	117	742	0.10	PPBV		81
21) TRICHLOROFLUOROMETHANE	2.193	101	1509	0.10	PPBV	#	96
22) ISOPROPYL ALCOHOL	2.216	45	1750	0.13	PPBV	#	79
24) PENTANE	2.299	42	967	0.13	PPBV	#	78
25) IODOMETHANE	2.357	142	1546	0.11	PPBV		92
26) 1,1-DICHLOROETHYLENE	2.386	96	619	0.11	PPBV	#	56
27) CARBON DISULFIDE	2.524	76	1878	0.10	PPBV	#	50
29) BROMOETHENE	2.077	106	547	0.11	PPBV	#	86
30) ACRYLONITRILE	2.274	52	541	0.11	PPBV	#	76
33) FREON 113	2.521	151	989	0.09	PPBV	#	84
34) TRANS-1,2-DICHLOROETHENE	2.769	96	695	0.11	PPBV	#	61
35) TERTIARY BUTYL ALCOHOL	2.409	59	1337	0.11	PPBV	#	76
36) METHYL TERTIARY BUTYL ...	2.894	73	1479	0.09	PPBV	#	88
38) HEXANE	3.396	57	1241	0.10	PPBV	#	74
40) 1,1-DICHLOROETHANE	2.859	63	1221	0.10	PPBV	#	50
42) CIS-1,2-DICHLOROETHENE	3.254	96	740	0.11	PPBV	#	55
45) METHYL ACRYLATE	3.405	55	1651	0.11	PPBV	#	65
46) CHLOROFORM	3.421	83	1467	0.10	PPBV	#	91
47) 2,4-DIMETHYLPENTANE	3.955	57	1390	0.10	PPBV	#	71
48) 1,1,1-TRICHLOROETHANE	4.052	97	1457	0.11	PPBV		92
49) CARBON TETRACHLORIDE	4.495	117	1424	0.09	PPBV	#	78
50) 1,2-DICHLOROETHANE	3.868	62	1104	0.10	PPBV	#	49
51) BENZENE	4.380	78	2208	0.11	PPBV	#	66
53) CYCLOHEXANE	4.611	84	828	0.10	PPBV	#	58
55) TRICHLOROETHENE	5.347	95	922	0.10	PPBV		98
56) 1,2-DICHLOROPROPANE	5.100	63	821	0.10	PPBV	#	41
57) DIBROMOMETHANE	5.058	174	994	0.12	PPBV		91
58) ETHYL ACRYLATE	5.241	55	1502	0.08	PPBV	#	73
59) BROMODICHLOROMETHANE	5.290	83	1646	0.11	PPBV		97
60) 2,2,4-TRIMETHYLPENTANE	5.454	57	3736	0.10	PPBV	#	92
62) HEPTANE	5.791	43	1552	0.10	PPBV	#	72
63) METHYL METHACRYLATE	5.688	69	704	0.09	PPBV	#	40
64) METHYL ISOBUTYL KETONE	6.482	58	501	0.07	PPBV	#	47
65) CIS-1,3-DICHLOROPROPENE	6.351	75	1002	0.09	PPBV	#	37
66) TOLUENE	7.617	91	2732	0.11	PPBV		99
67) 1,3-DICHLOROPROPANE	7.685	76	1233	0.10	PPBV	#	49
68) TRANS-1,3-DICHLOROPROPENE	7.061	75	875	0.09	PPBV	#	42
69) 1,1,2-TRICHLOROETHANE	7.228	83	677	0.09	PPBV		89
71) ETHYL METHACRYLATE	8.363	69	864	0.07	PPBV	#	56
72) TETRACHLOROETHENE	9.415	164	911	0.10	PPBV	#	70

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26449.D
Acq On : 19 Oct 2022 7:43 pm
Operator : thomash
Sample : ic1125-0.1
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 09:45:19 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration

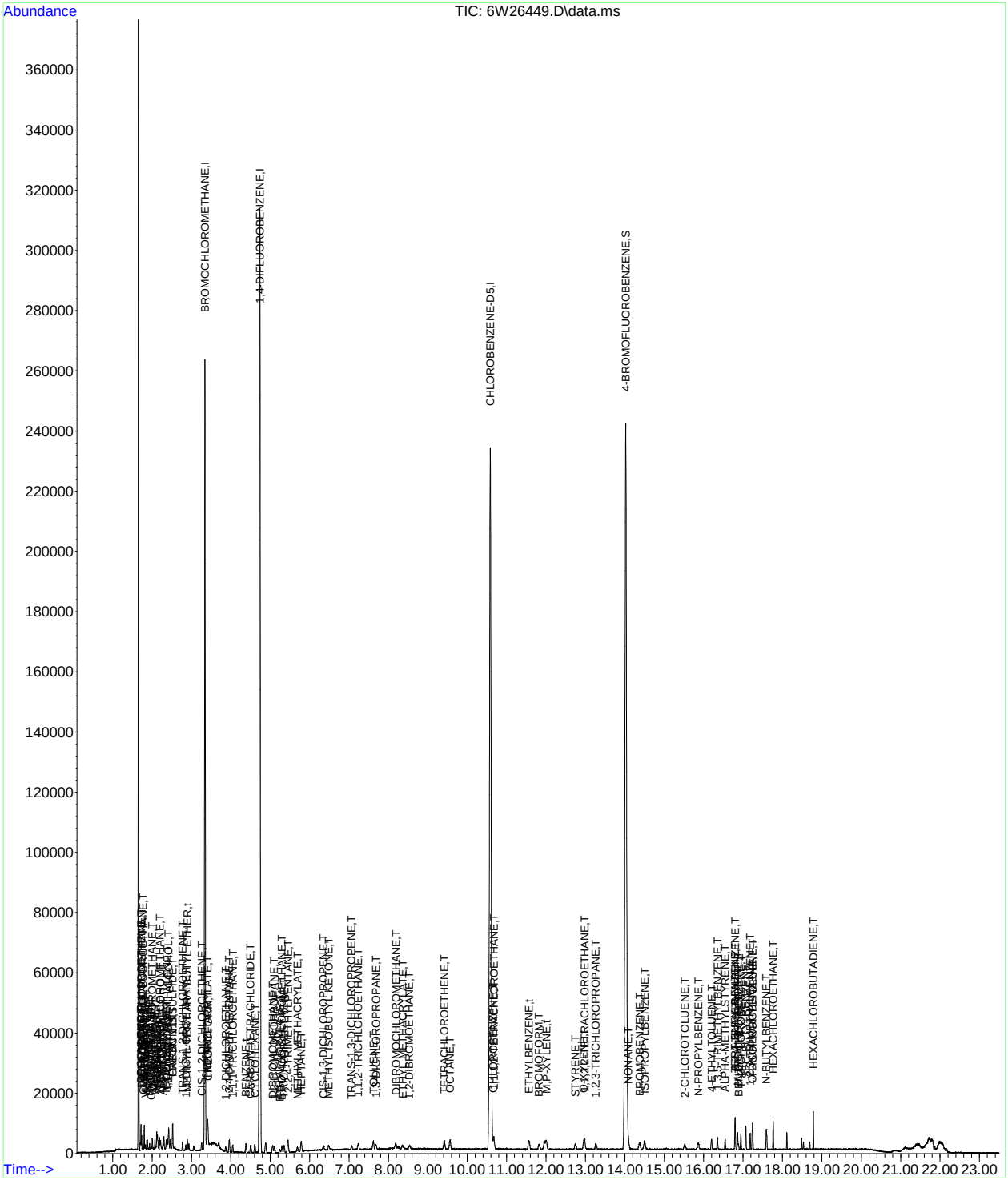
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
73)	DIBROMOCHLOROMETHANE	8.187	129	1596	0.10	PPBV	#	83
74)	1,2-DIBROMOETHANE	8.524	107	1316	0.10	PPBV	#	98
75)	OCTANE	9.563	43	1915	0.09	PPBV	#	70
77)	1,1,1,2-TETRACHLOROETHANE	10.675	131	1043	0.09	PPBV	#	39
78)	CHLOROBENZENE	10.656	112	1970	0.10	PPBV		98
79)	ETHYLBENZENE	11.563	91	3888	0.12	PPBV		95
80)	M,P-XYLENE	12.013	91	5763m	0.23	PPBV		
81)	O-XYLENE	12.955	91	2774	0.11	PPBV	#	87
82)	STYRENE	12.746	104	1561	0.08	PPBV		96
83)	NONANE	14.083	43	2448	0.11	PPBV	#	63
84)	BROMOFORM	11.820	173	1374	0.09	PPBV	#	83
85)	1,1,2,2-TETRACHLOROETHANE	12.981	83	1920	0.10	PPBV	#	94
86)	1,2,3-TRICHLOROPROPANE	13.254	75	1421	0.10	PPBV	#	41
88)	ISOPROPYLBENZENE	14.505	105	3516	0.09	PPBV	#	78
89)	BROMOBENZENE	14.376	77	1766	0.10	PPBV	#	87
90)	2-CHLOROTOLUENE	15.521	91	2168	0.08	PPBV	#	94
91)	N-PROPYLBENZENE	15.865	91	3399	0.08	PPBV	#	94
92)	4-ETHYLTOLUENE	16.202	105	2574	0.07	PPBV	#	97
93)	1,3,5-TRIMETHYLBENZENE	16.350	105	2163	0.07	PPBV	#	95
94)	ALPHA-METHYLSTYRENE	16.546	118	964	0.06	PPBV		95
95)	TERT-BUTYLBENZENE	16.794	119	2458	0.07	PPBV		95
96)	1,2,4-TRIMETHYLBENZENE	16.800	105	2237	0.07	PPBV		98
97)	BENZYL CHLORIDE	16.887	91	945	0.05	PPBV	#	60
98)	M-DICHLOROBENZENE	16.865	146	1725	0.08	PPBV		97
99)	P-DICHLOROBENZENE	16.945	146	1627	0.08	PPBV		93
100)	O-DICHLOROBENZENE	17.231	146	1588	0.08	PPBV		96
101)	SEC-BUTYLBENZENE	17.070	105	3423	0.07	PPBV		96
102)	1,2,3-TRIMETHYLBENZENE	17.180	105	2179	0.07	PPBV	#	93
103)	P-ISOPROPYLTOLUENE	17.244	119	2841	0.07	PPBV	#	94
104)	N-BUTYLBENZENE	17.585	91	2234	0.06	PPBV		94
105)	HEXACHLOROETHANE	17.765	117	1259	0.10	PPBV	#	87
106)	HEXACHLOROBUTADIENE	18.787	225	1045	0.07	PPBV		94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26449.D
Acq On : 19 Oct 2022 7:43 pm
Operator : thomash
Sample : ic1125-0.1
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 09:45:19 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration



Manual Integration Approval Summary

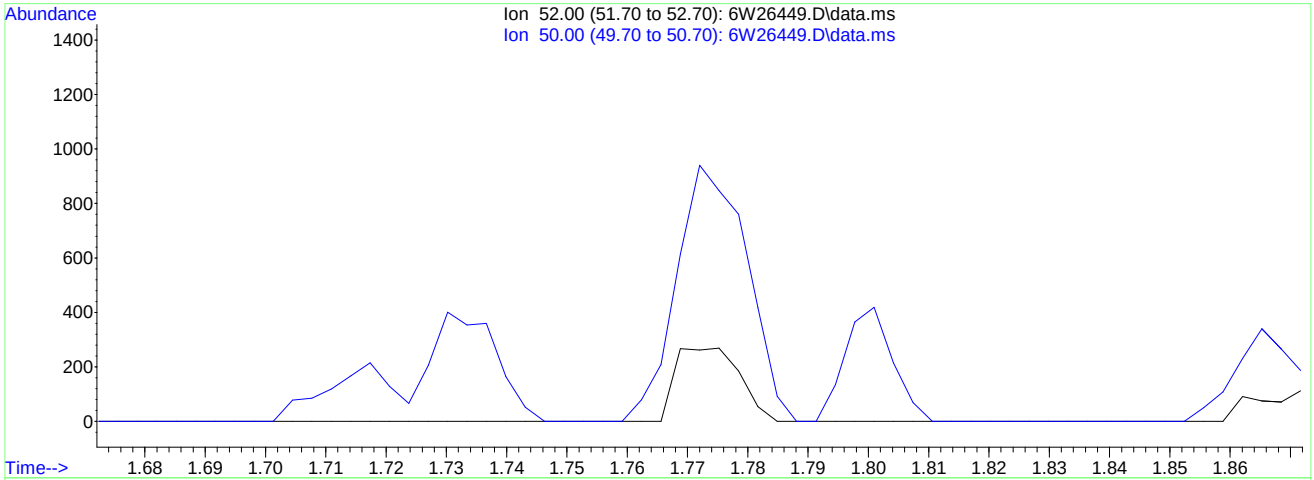
Sample Number: V6W1125-IC1125 **Method:** TO-15
Lab FileID: 6W26449.D **Analyst approved:** 10/20/22 10:04 Thomas Hilbig
Injection Time: 10/19/22 19:43 **Supervisor approved:** 10/20/22 12:15 Kanya Veerawat

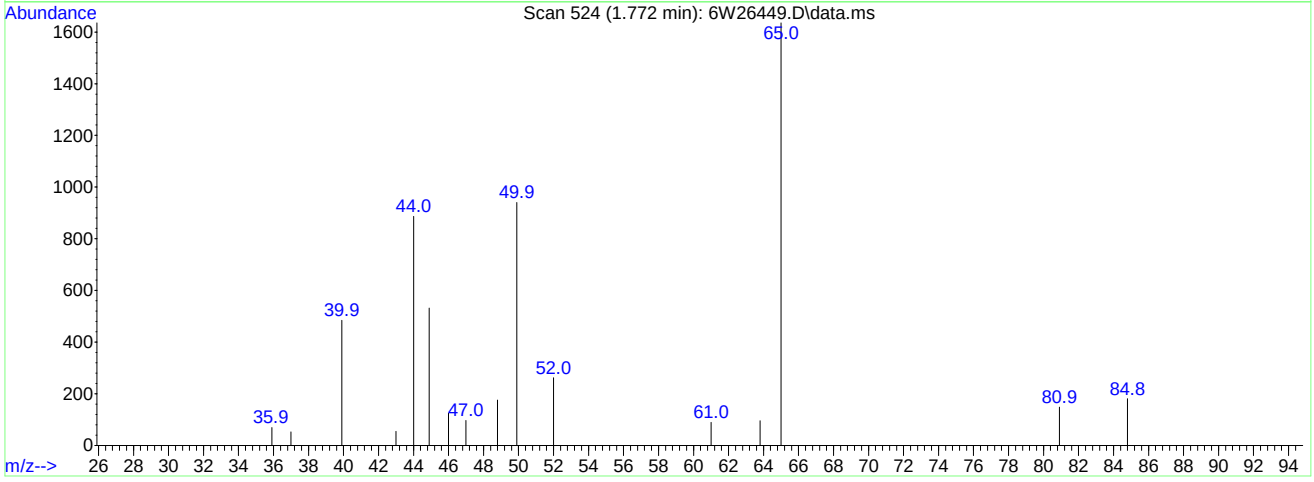
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.73	Overlapping peak
Chloromethane	74-87-3		1.78	Missed peak
Chloroethane	75-00-3		1.98	Missed peak
m,p-Xylene			12.01	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26449.D
Acq On : 19 Oct 2022 7:43 pm
Operator : thomash
Sample : ic1125-0.1
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 08:06:39 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration





TIC: 6W26449.D\data.ms

(10) CHLOROMETHANE (T)

1.772min (-1.772) 0.00PPBV

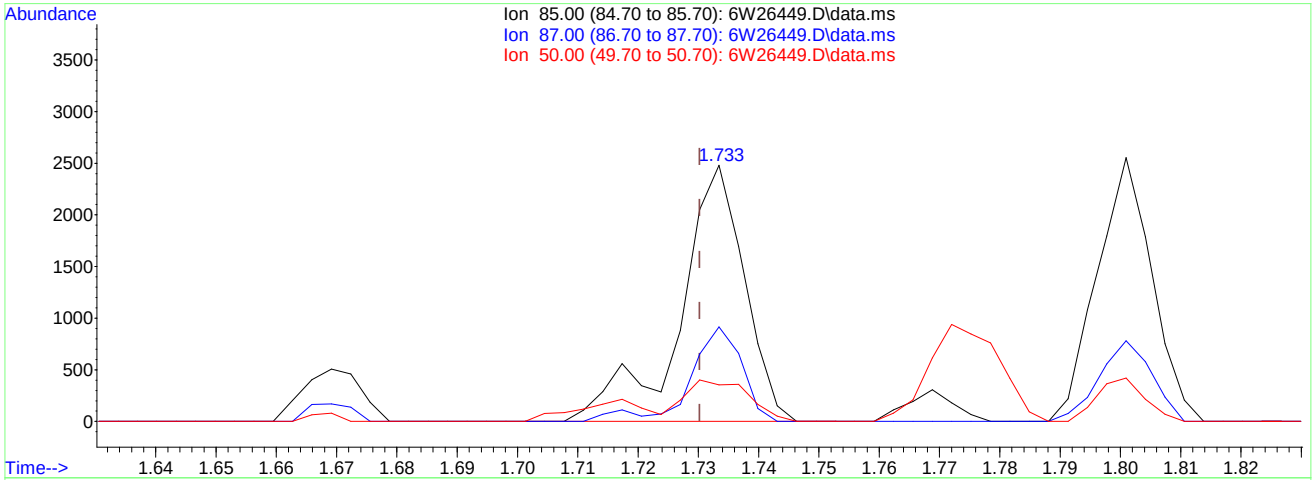
response 0

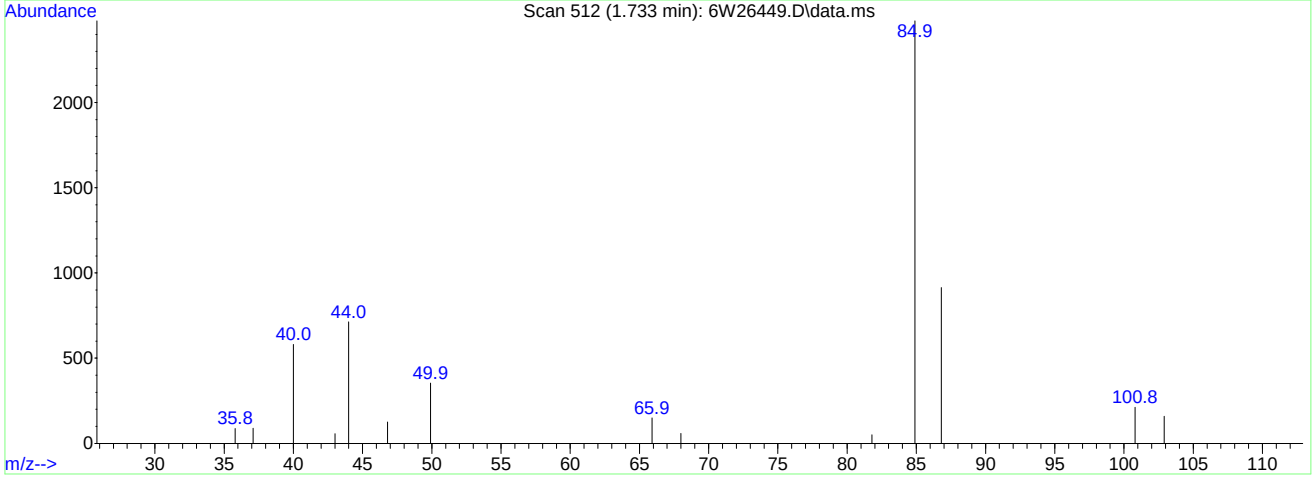
Ion	Exp%	Act%
52.00	100	0.00
50.00	310.20	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26449.D
Acq On : 19 Oct 2022 7:43 pm
Operator : thomash
Sample : ic1125-0.1
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 08:06:39 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration





TIC: 6W26449.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.733min (+0.003) 0.13PPBV

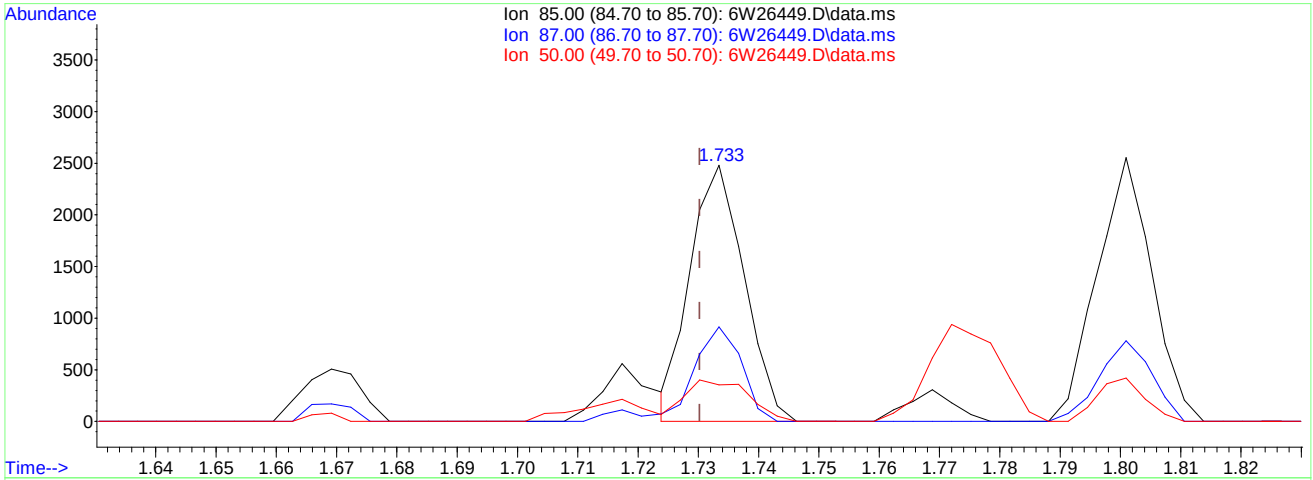
response 1852

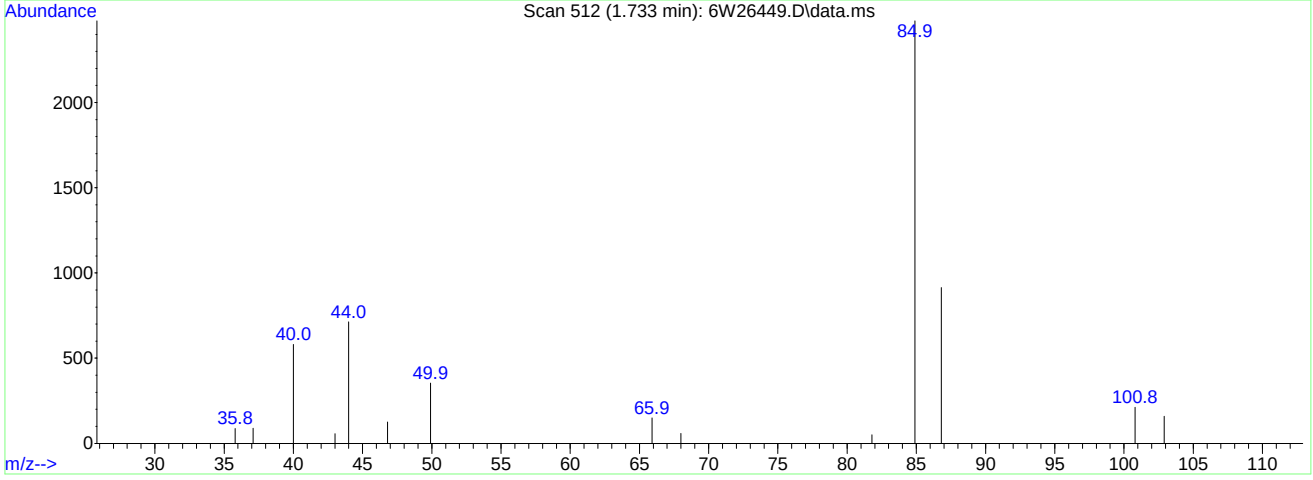
Ion	Exp%	Act%
85.00	100	100
87.00	32.20	29.37
50.00	9.30	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26449.D
Acq On : 19 Oct 2022 7:43 pm
Operator : thomash
Sample : ic1125-0.1
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 08:06:39 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration





TIC: 6W26449.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.733min (+0.003) 0.10PPBV m

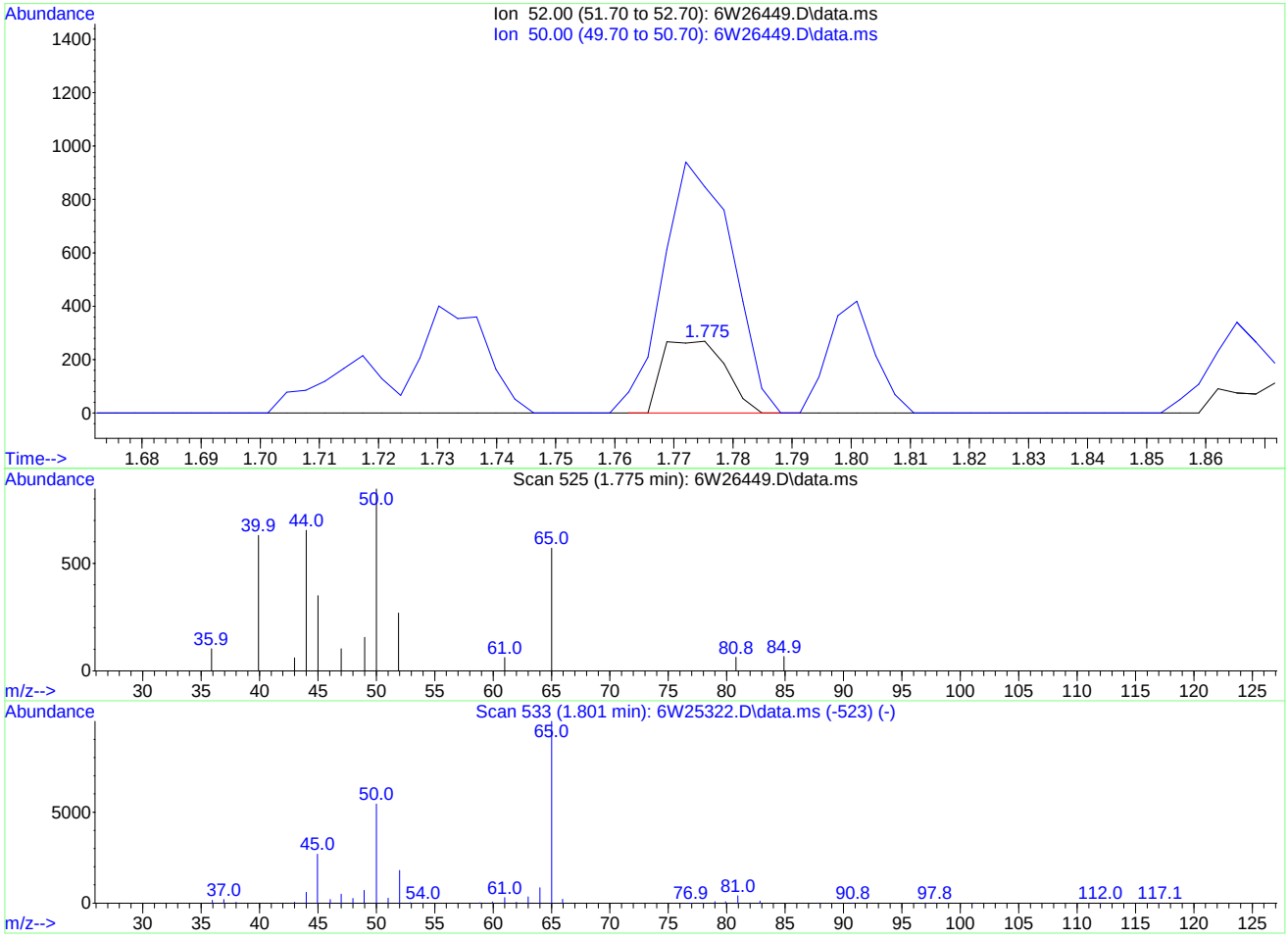
response 1546

Ion	Exp%	Act%
85.00	100	100
87.00	32.20	35.19
50.00	9.30	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26449.D
Acq On : 19 Oct 2022 7:43 pm
Operator : thomash
Sample : ic1125-0.1
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 08:06:39 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration



TIC: 6W26449.D\data.ms

(10) CHLOROMETHANE (T)

1.775min (+0.003) 0.10PPBV m

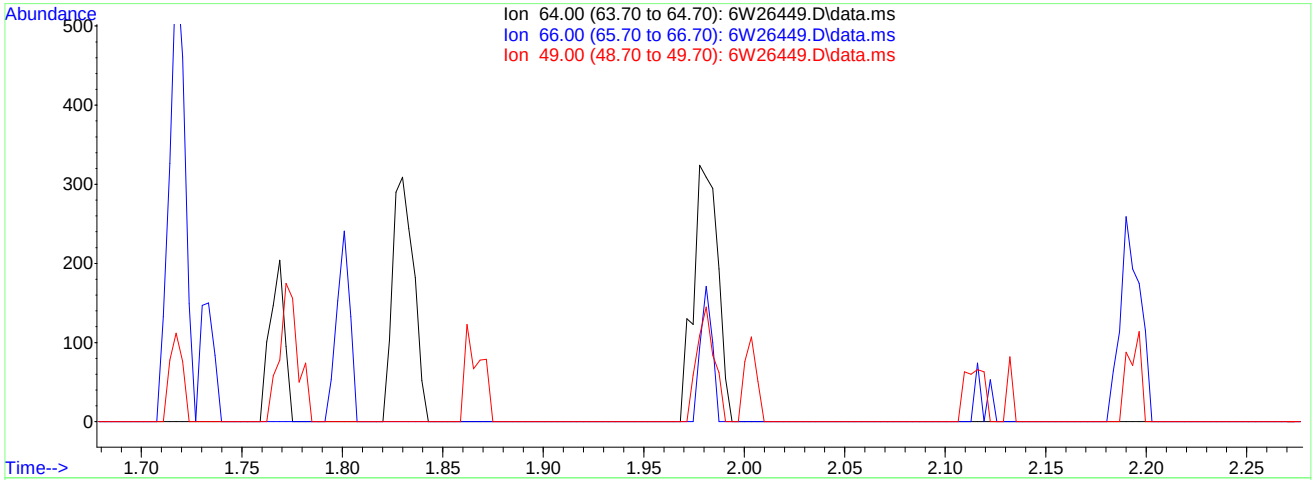
response 200

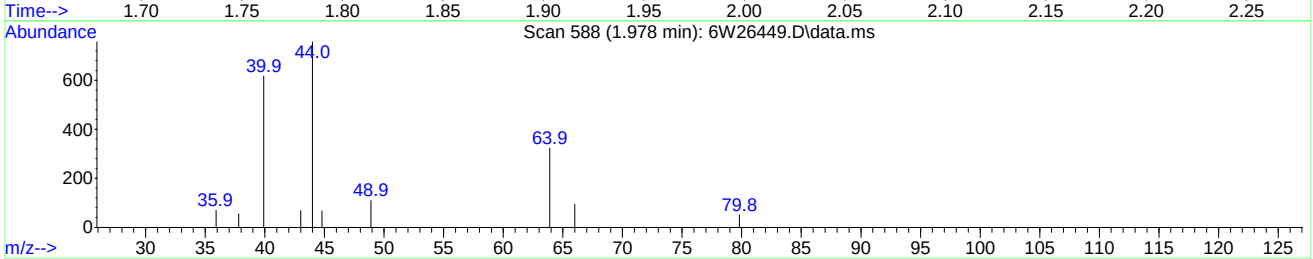
Ion	Exp%	Act%
52.00	100	100
50.00	310.20	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

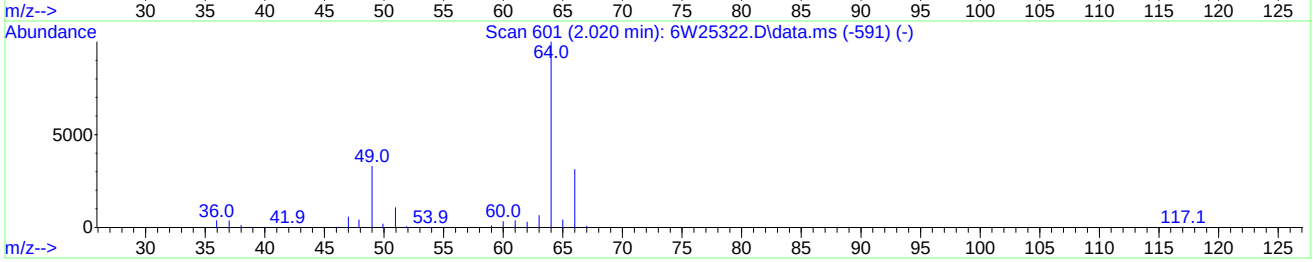
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26449.D
Acq On : 19 Oct 2022 7:43 pm
Operator : thomash
Sample : ic1125-0.1
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 08:06:39 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration







TIC: 6W26449.D\data.ms

(15) CHLOROETHANE (T)

1.978min (-1.978) 0.00PPBV

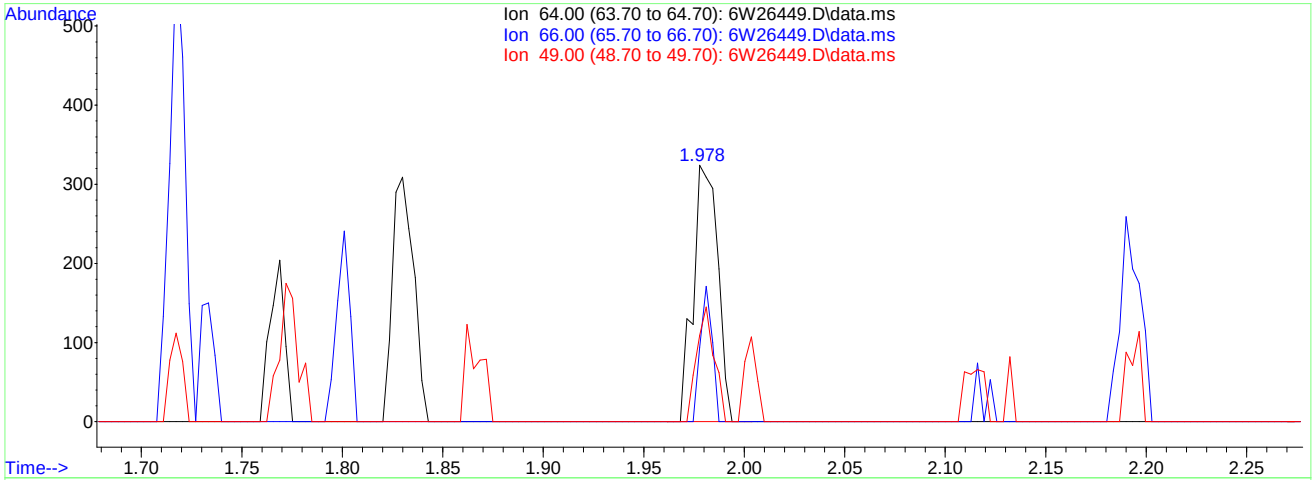
response 0

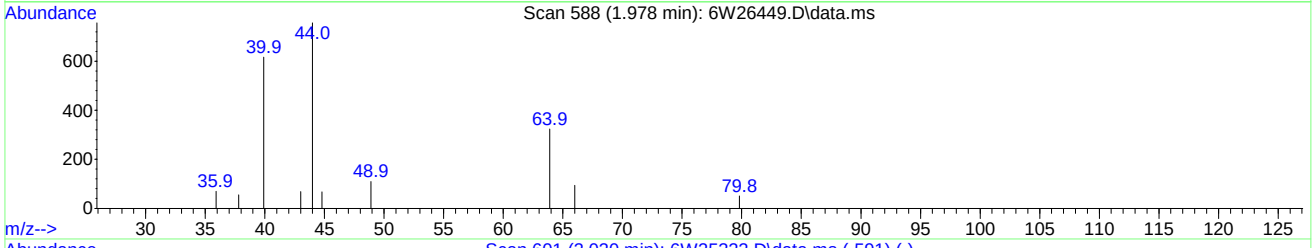
Ion	Exp%	Act%
64.00	100	0.00
66.00	33.90	0.00#
49.00	29.10	0.00#
0.00	0.00	0.00

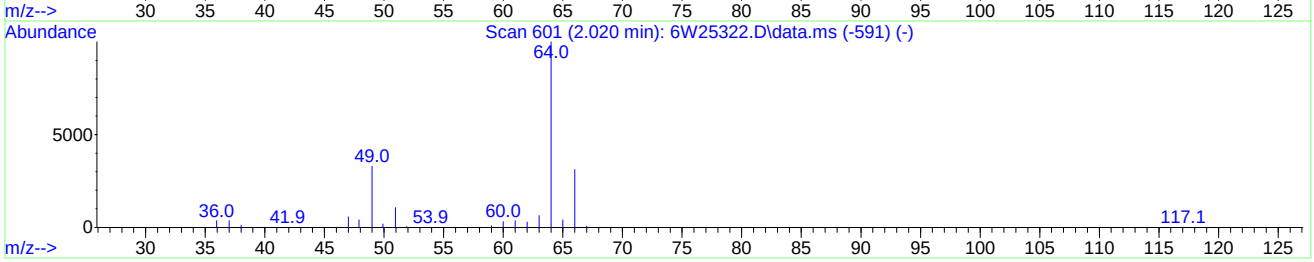
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26449.D
Acq On : 19 Oct 2022 7:43 pm
Operator : thomash
Sample : ic1125-0.1
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 08:06:39 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration







TIC: 6W26449.D\data.ms

(15) CHLOROETHANE (T)

1.978min (0.000) 0.09PPBV m

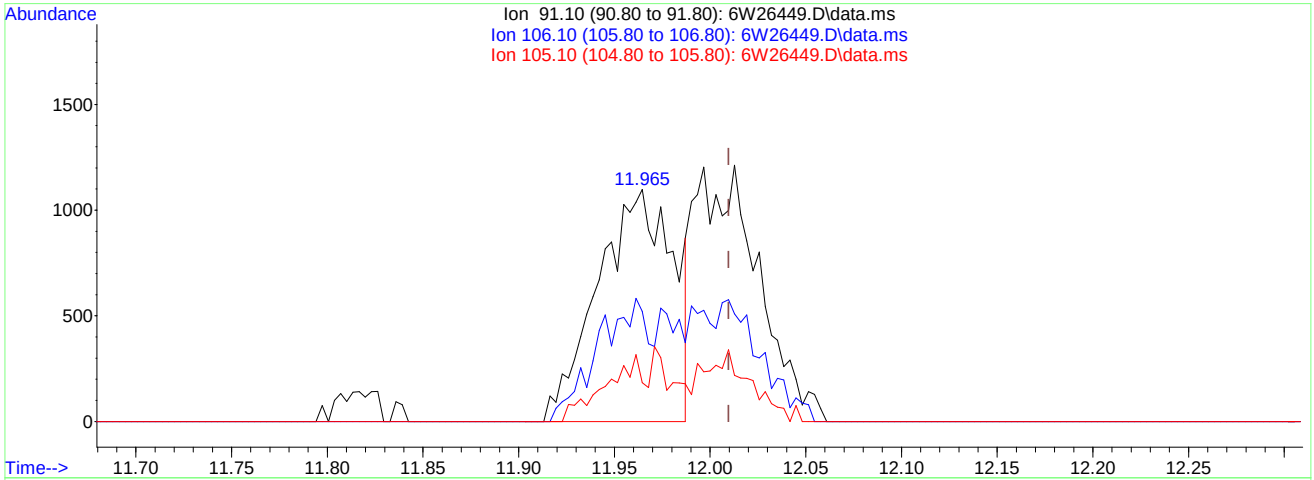
response 276

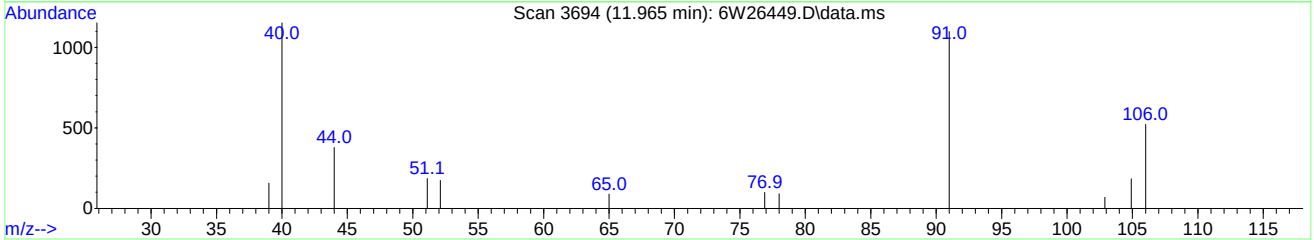
Ion	Exp%	Act%
64.00	100	100
66.00	33.90	0.00#
49.00	29.10	0.00#
0.00	0.00	0.00

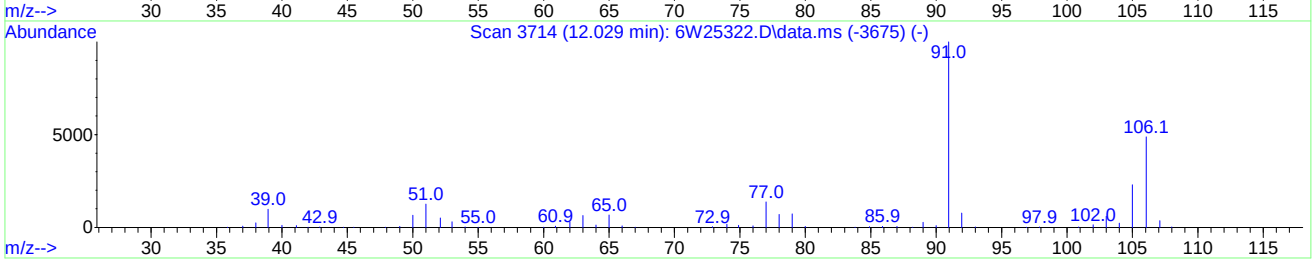
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26449.D
Acq On : 19 Oct 2022 7:43 pm
Operator : thomash
Sample : ic1125-0.1
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 08:06:39 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration







TIC: 6W26449.D\data.ms

(80) M,P-XYLENE (t)

11.965min (-0.045) 0.12PPBV

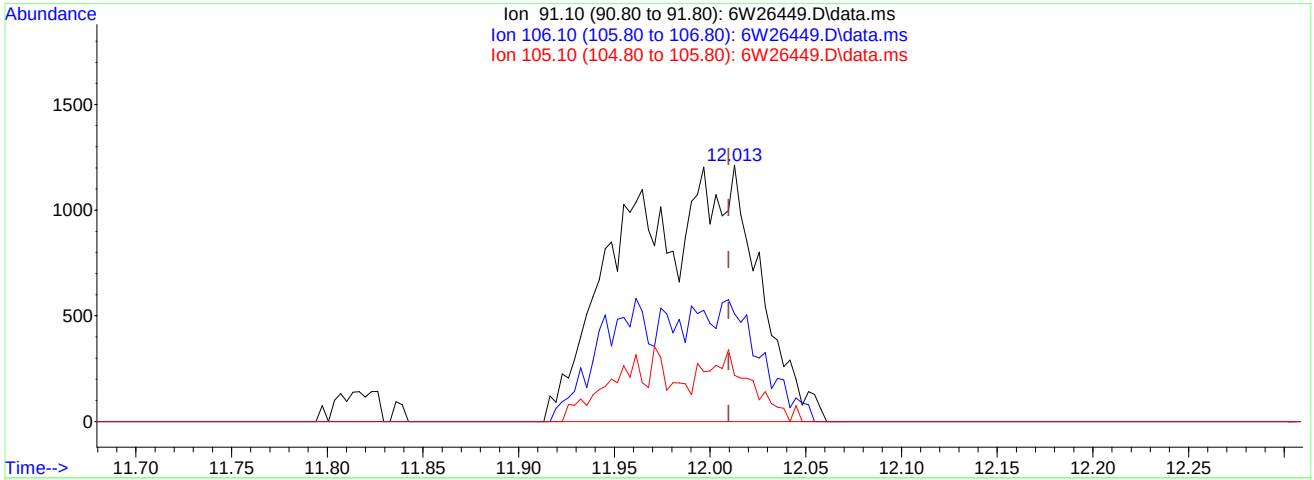
response 2993

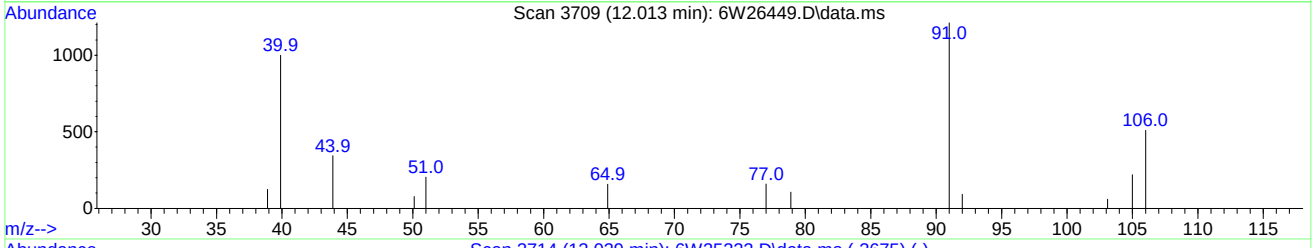
Ion	Exp%	Act%
91.10	100	100
106.10	51.50	51.45
105.10	23.60	23.52
0.00	0.00	0.00

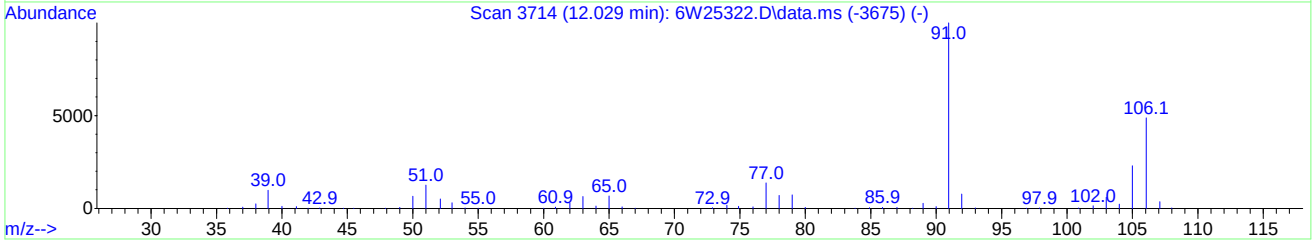
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26449.D
Acq On : 19 Oct 2022 7:43 pm
Operator : thomash
Sample : ic1125-0.1
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 08:06:39 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration







TIC: 6W26449.D\data.ms

(80) M,P-XYLENE (t)

12.013min (+0.003) 0.23PPBV m

response 5763

Ion	Exp%	Act%
91.10	100	100
106.10	51.50	26.72#
105.10	23.60	12.22
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 10/20/22 12:15

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26450.D
Acq On : 19 Oct 2022 8:15 pm
Operator : thomash
Sample : ic1125-0.2
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 08:22:22 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	3.338	128	46339	10.00	PPBV	# 0.00
52) 1,4-DIFLUOROBENZENE	4.733	114	232045	10.00	PPBV	0.00
76) CHLOROBENZENE-D5	10.582	117	202916	10.00	PPBV	0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	14.022	95	139177	9.69	PPBV	0.00
Target Compounds						Qvalue
3) FREON 152A	1.695	65	845	0.22	PPBV	# 53
4) CHLORODIFLUOROMETHANE	1.708	67	366m	0.21	PPBV	
5) CHLOROTRIFLUOROETHENE	1.718	116	1766	0.22	PPBV	# 97
6) DICHLORODIFLUOROMETHANE	1.734	85	2981m	0.21	PPBV	
7) PROPYLENE	1.714	41	1228	0.22	PPBV	# 91
8) 1-CHLORO-1,1-DIFLUOROE...	1.766	65	2661	0.21	PPBV	# 56
9) FREON 114	1.798	85	3047	0.22	PPBV	98
10) CHLOROMETHANE	1.772	52	410m	0.21	PPBV	
11) VINYL CHLORIDE	1.827	62	1315	0.22	PPBV	# 50
12) 1,3-BUTADIENE	1.865	54	1056	0.22	PPBV	# 60
13) N-BUTANE	1.878	43	2287	0.23	PPBV	# 65
14) BROMOMETHANE	1.933	94	1003	0.22	PPBV	# 91
15) CHLOROETHANE	1.981	64	656	0.23	PPBV	# 43
16) DICHLOROFLUOROMETHANE	2.004	67	2656	0.22	PPBV	# 92
17) ACETONITRILE	2.068	41	1438	0.24	PPBV	# 84
18) ACROLEIN	2.103	56	451m	0.16	PPBV	
19) FREON 123	2.113	83	2489	0.22	PPBV	98
20) FREON 123A	2.132	117	1440	0.21	PPBV	84
21) TRICHLOROFLUOROMETHANE	2.190	101	2941	0.21	PPBV	# 96
22) ISOPROPYL ALCOHOL	2.213	45	3020	0.23	PPBV	# 75
23) ACETONE	2.142	58	851	0.29	PPBV	# 39
24) PENTANE	2.296	42	1697	0.24	PPBV	# 79
25) IODOMETHANE	2.357	142	2871	0.21	PPBV	# 87
26) 1,1-DICHLOROETHYLENE	2.383	96	1152	0.21	PPBV	# 65
27) CARBON DISULFIDE	2.521	76	3734	0.21	PPBV	# 52
28) ETHANOL	2.007	45	896	0.31	PPBV	# 40
29) BROMOETHENE	2.074	106	1029	0.22	PPBV	# 96
30) ACRYLONITRILE	2.274	52	971	0.21	PPBV	# 78
31) METHYLENE CHLORIDE	2.422	84	1504	0.28	PPBV	# 39
32) 3-CHLOROPROPENE	2.463	76	526	0.19	PPBV	# 1
33) FREON 113	2.521	151	2113	0.21	PPBV	92
34) TRANS-1,2-DICHLOROETHENE	2.769	96	1281	0.21	PPBV	# 78
35) TERTIARY BUTYL ALCOHOL	2.406	59	2276	0.20	PPBV	# 79
36) METHYL TERTIARY BUTYL ...	2.894	73	3224	0.21	PPBV	# 88
37) TETRAHYDROFURAN	3.672	72	527	0.19	PPBV	# 1
38) HEXANE	3.389	57	2506	0.21	PPBV	# 77
39) VINYL ACETATE	2.933	86	339m	0.23	PPBV	
40) 1,1-DICHLOROETHANE	2.849	63	2466	0.21	PPBV	# 88
41) METHYL ETHYL KETONE	3.052	72	636	0.21	PPBV	# 1
42) CIS-1,2-DICHLOROETHENE	3.254	96	1388	0.22	PPBV	# 82
43) DIISOPROPYL ETHER	3.402	59	664	0.19	PPBV	# 31
44) ETHYL ACETATE	3.415	61	474m	0.20	PPBV	
45) METHYL ACRYLATE	3.396	55	3141	0.21	PPBV	# 65
46) CHLOROFORM	3.418	83	2846	0.21	PPBV	# 92
47) 2,4-DIMETHYLPENTANE	3.955	57	2721	0.20	PPBV	# 87
48) 1,1,1-TRICHLOROETHANE	4.049	97	2661	0.21	PPBV	# 92
49) CARBON TETRACHLORIDE	4.499	117	2945	0.20	PPBV	96
50) 1,2-DICHLOROETHANE	3.872	62	2146	0.21	PPBV	# 88
51) BENZENE	4.383	78	4330	0.23	PPBV	80
53) CYCLOHEXANE	4.605	84	1651	0.20	PPBV	# 77
54) 2,3-DIMETHYLPENTANE	4.885	71	956	0.21	PPBV	# 59
55) TRICHLOROETHENE	5.348	95	1872	0.21	PPBV	98
56) 1,2-DICHLOROPROPANE	5.103	63	1638	0.20	PPBV	# 72
57) DIBROMOMETHANE	5.055	174	1765	0.22	PPBV	90

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26450.D
Acq On : 19 Oct 2022 8:15 pm
Operator : thomash
Sample : ic1125-0.2
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 08:22:22 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration

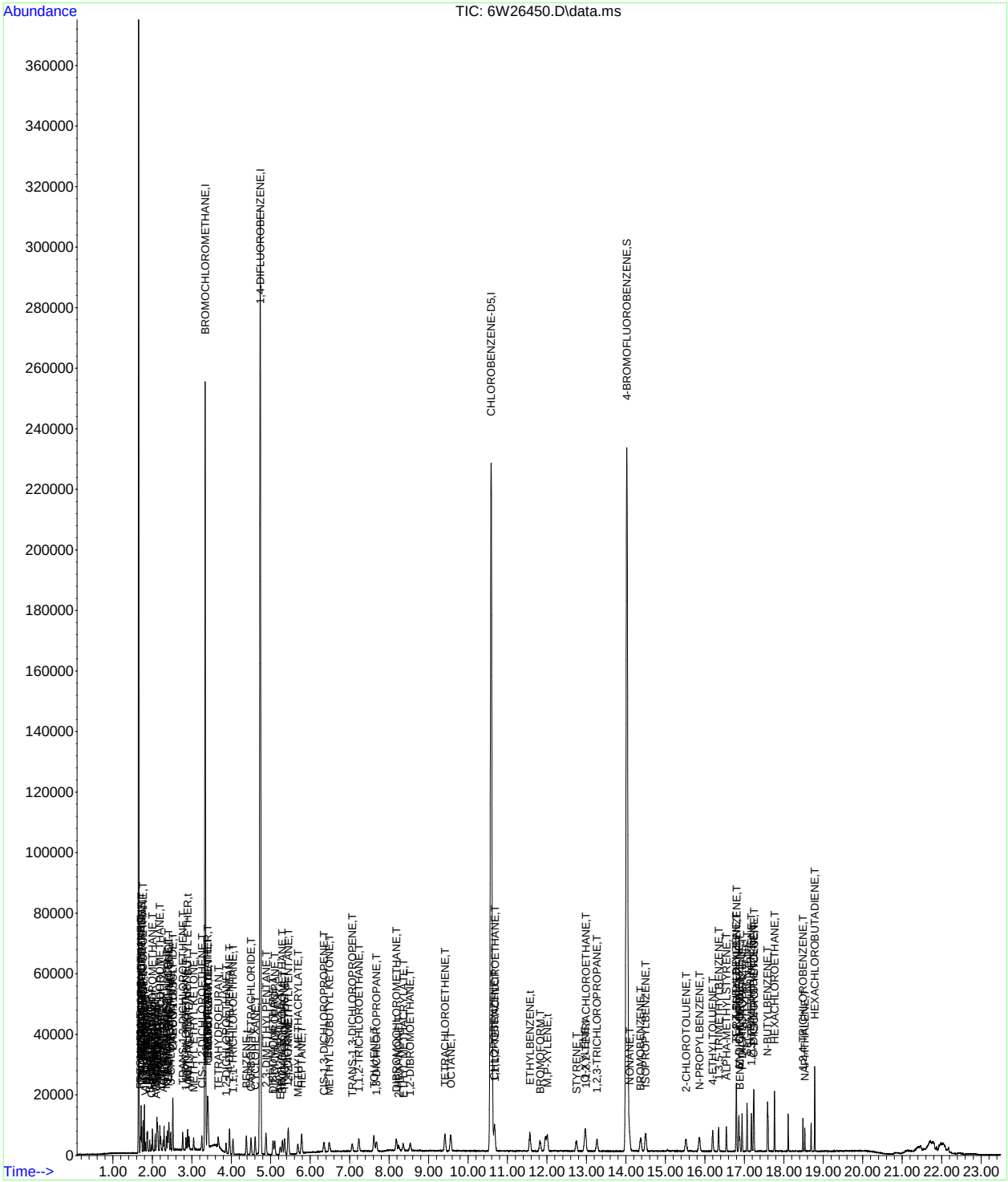
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
58) ETHYL ACRYLATE	5.241	55	3251	0.18	PPBV	#	73
59) BROMODICHLOROMETHANE	5.293	83	2997	0.20	PPBV		92
60) 2,2,4-TRIMETHYLPENTANE	5.447	57	7674	0.20	PPBV	#	97
61) 1,4-DIOXANE	5.434	88	650m	0.16	PPBV		
62) HEPTANE	5.788	43	2944	0.20	PPBV	#	75
63) METHYL METHACRYLATE	5.688	69	1358	0.18	PPBV	#	34
64) METHYL ISOBUTYL KETONE	6.483	58	954	0.14	PPBV	#	30
65) CIS-1,3-DICHLOROPROPENE	6.348	75	2021	0.18	PPBV	#	68
66) TOLUENE	7.621	91	5056	0.21	PPBV		95
67) 1,3-DICHLOROPROPANE	7.672	76	2398	0.20	PPBV	#	93
68) TRANS-1,3-DICHLOROPROPENE	7.065	75	1636	0.17	PPBV	#	68
69) 1,1,2-TRICHLOROETHANE	7.238	83	1464	0.21	PPBV		96
70) 2-HEXANONE	8.238	58	861	0.11	PPBV	#	45
71) ETHYL METHACRYLATE	8.367	69	1692	0.15	PPBV	#	54
72) TETRACHLOROETHENE	9.415	164	1798	0.20	PPBV		92
73) DIBROMOCHLOROMETHANE	8.180	129	3068	0.19	PPBV		99
74) 1,2-DIBROMOETHANE	8.534	107	2603	0.20	PPBV	#	99
75) OCTANE	9.563	43	3514	0.17	PPBV	#	73
77) 1,1,1,2-TETRACHLOROETHANE	10.682	131	2288	0.21	PPBV		96
78) CHLOROBENZENE	10.659	112	4059	0.21	PPBV		98
79) ETHYLBENZENE	11.566	91	6718	0.21	PPBV		97
80) M,P-XYLENE	12.010	91	9676	0.40	PPBV	#	67
81) O-XYLENE	12.958	91	4830	0.20	PPBV	#	88
82) STYRENE	12.752	104	2971	0.16	PPBV		97
83) NONANE	14.096	43	4410	0.20	PPBV	#	65
84) BROMOFORM	11.826	173	2719	0.19	PPBV	#	91
85) 1,1,2,2-TETRACHLOROETHANE	12.990	83	3781	0.20	PPBV	#	94
86) 1,2,3-TRICHLOROPROPANE	13.264	75	2723	0.19	PPBV		99
88) ISOPROPYLBENZENE	14.495	105	7179	0.20	PPBV		93
89) BROMOBENZENE	14.367	77	3434	0.19	PPBV		95
90) 2-CHLOROTOLUENE	15.524	91	4173	0.17	PPBV	#	92
91) N-PROPYLBENZENE	15.862	91	6867	0.16	PPBV	#	94
92) 4-ETHYLTOLUENE	16.196	105	5072	0.14	PPBV	#	99
93) 1,3,5-TRIMETHYLBENZENE	16.350	105	4453	0.15	PPBV	#	94
94) ALPHA-METHYLSTYRENE	16.546	118	2146	0.14	PPBV		95
95) TERT-BUTYLBENZENE	16.794	119	4944	0.15	PPBV		90
96) 1,2,4-TRIMETHYLBENZENE	16.800	105	4538	0.15	PPBV		96
97) BENZYL CHLORIDE	16.884	91	2169	0.12	PPBV	#	60
98) M-DICHLOROBENZENE	16.865	146	3704	0.18	PPBV		99
99) P-DICHLOROBENZENE	16.945	146	3555	0.17	PPBV		98
100) O-DICHLOROBENZENE	17.231	146	3596	0.18	PPBV		97
101) SEC-BUTYLBENZENE	17.071	105	7168	0.16	PPBV		98
102) 1,2,3-TRIMETHYLBENZENE	17.180	105	4563	0.15	PPBV	#	94
103) P-ISOPROPYLTOLUENE	17.244	119	5909	0.15	PPBV		95
104) N-BUTYLBENZENE	17.585	91	4838	0.13	PPBV		97
105) HEXACHLOROETHANE	17.765	117	2295	0.18	PPBV	#	87
106) HEXACHLOROBUTADIENE	18.784	225	2527	0.18	PPBV		97
107) 1,2,4-TRICHLOROBENZENE	18.485	180	1765	0.11	PPBV		100
108) NAPHTHALENE	18.534	128	3313	0.08	PPBV	#	69

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26450.D
Acq On : 19 Oct 2022 8:15 pm
Operator : thomash
Sample : ic1125-0.2
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 08:22:22 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration



Manual Integration Approval Summary

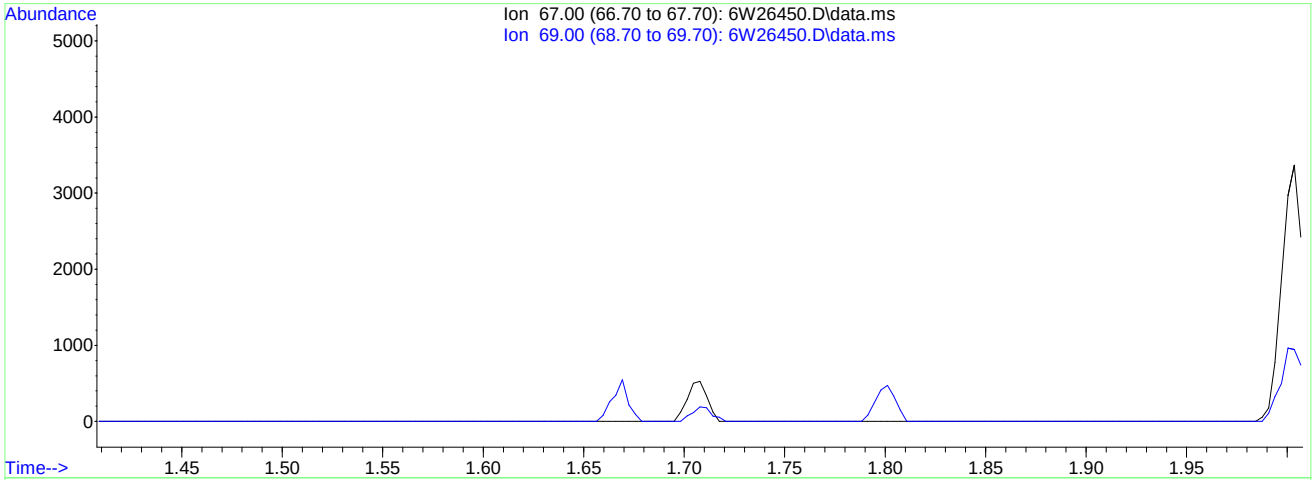
Sample Number: V6W1125-IC1125 **Method:** TO-15
Lab FileID: 6W26450.D **Analyst approved:** 10/20/22 10:04 Thomas Hilbig
Injection Time: 10/19/22 20:15 **Supervisor approved:** 10/20/22 12:15 Kanya Veerawat

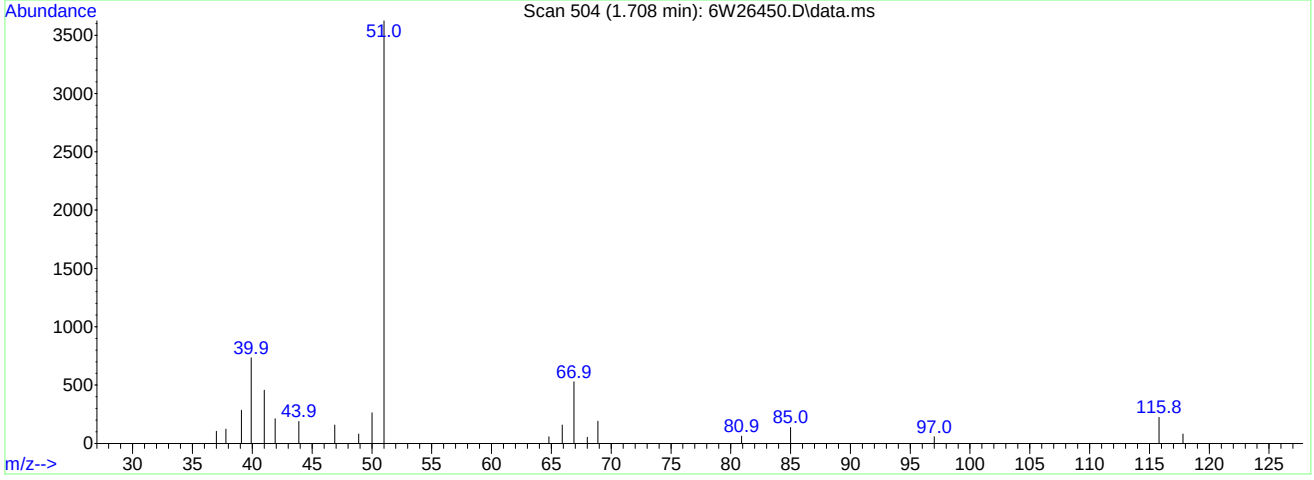
Parameter	CAS	Sig#	R.T. (min.)	Reason
Chlorodifluoromethane	75-45-6		1.71	Missed peak
Dichlorodifluoromethane	75-71-8		1.73	Overlapping peak
Chloromethane	74-87-3		1.77	Missed peak
Acrolein	107-02-8		2.10	Missed peak
Vinyl Acetate	108-05-4		2.93	Missed peak
Ethyl Acetate	141-78-6		3.42	Missed peak
1,4-Dioxane	123-91-1		5.43	Missed peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26450.D
Acq On : 19 Oct 2022 8:15 pm
Operator : thomash
Sample : ic1125-0.2
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 08:14:54 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration





TIC: 6W26450.D\data.ms

(4) CHLORODIFLUOROMETHANE (T)

1.708min (-1.708) 0.00PPBV

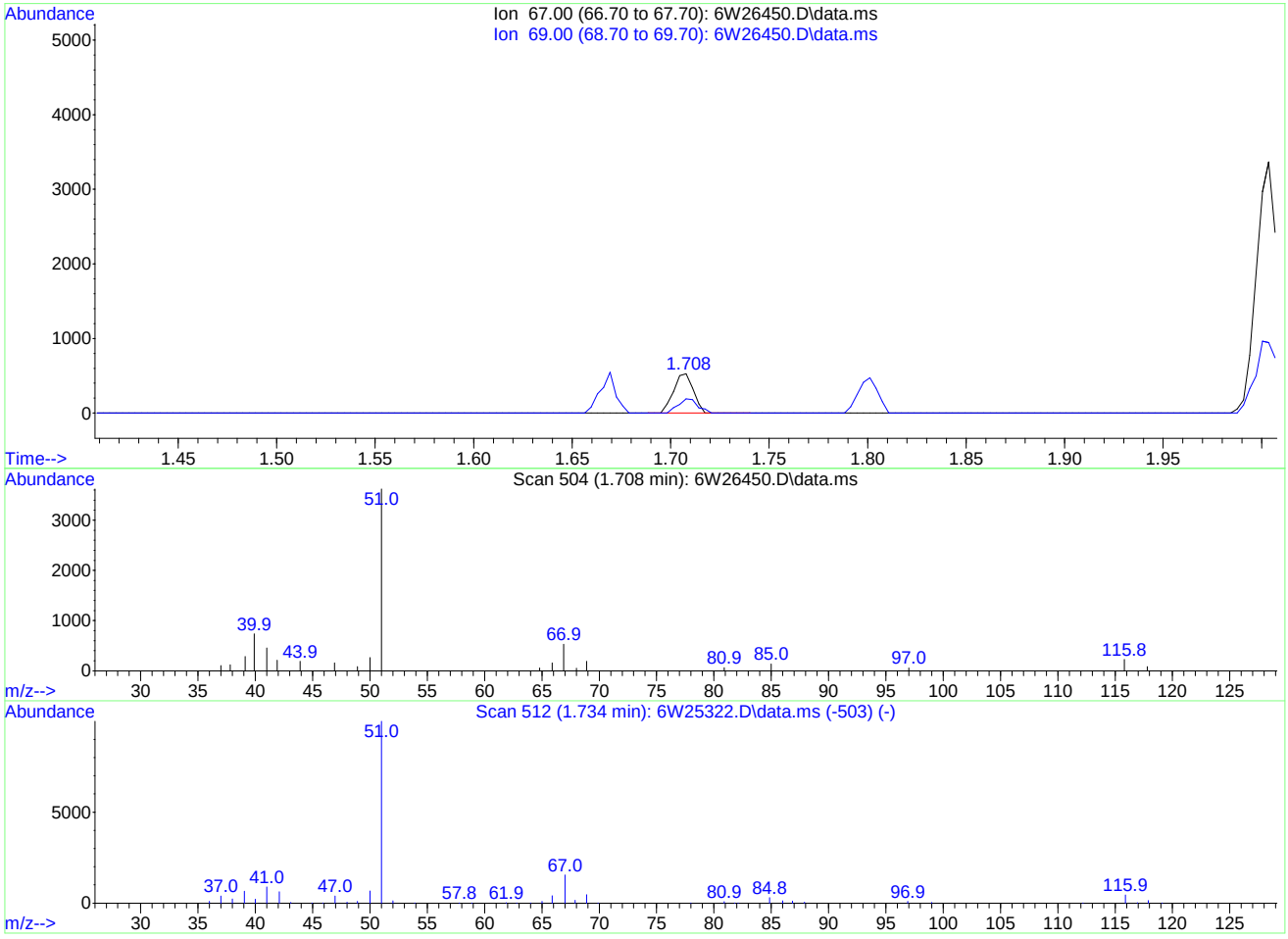
response 0

Ion	Exp%	Act%
67.00	100	0.00
69.00	36.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26450.D
Acq On : 19 Oct 2022 8:15 pm
Operator : thomash
Sample : ic1125-0.2
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 08:14:54 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration



TIC: 6W26450.D\data.ms

(4) CHLORODIFLUOROMETHANE (T)

1.708min (+0.000) 0.21PPBV m

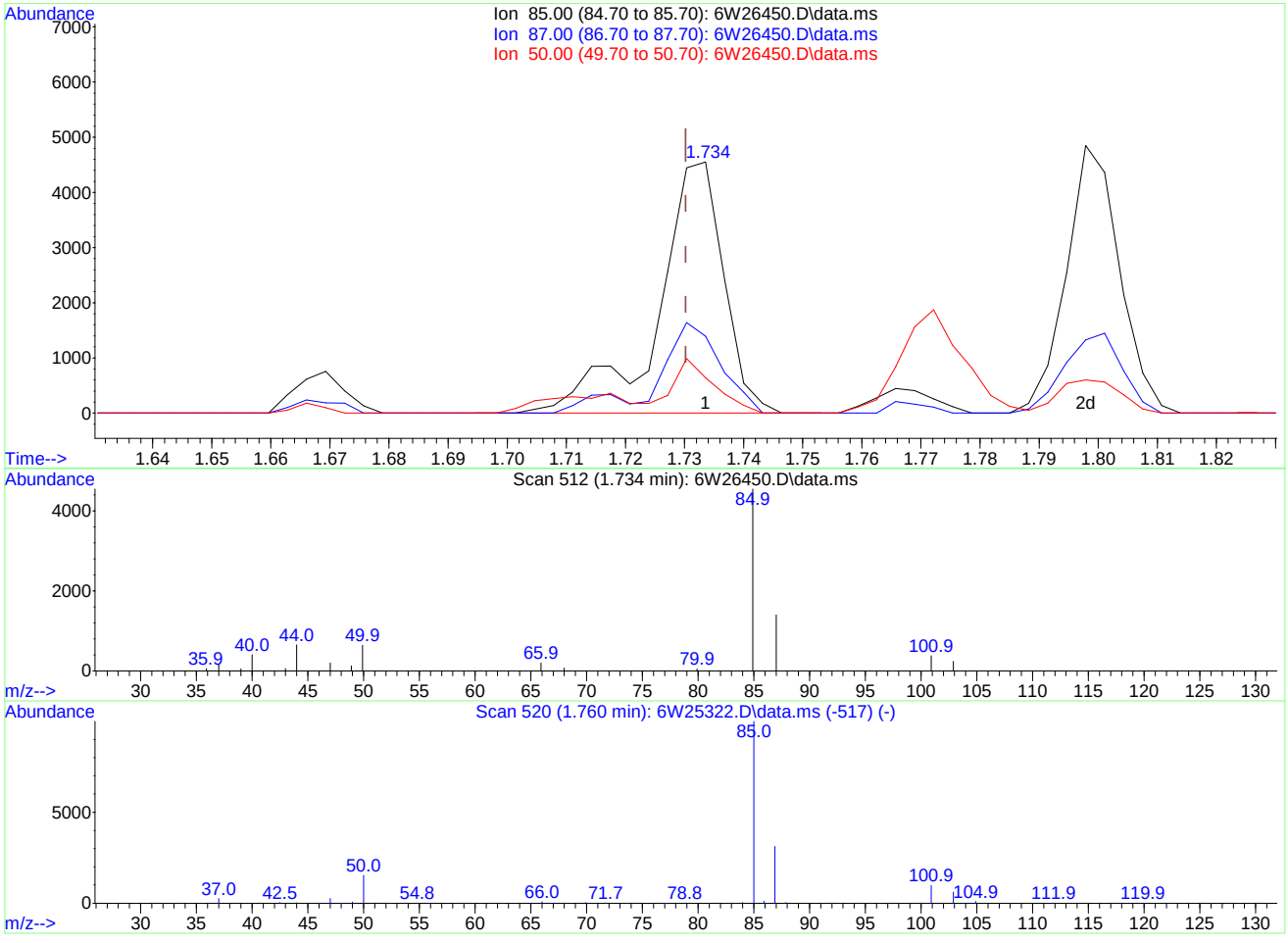
response 366

Ion	Exp%	Act%
67.00	100	100
69.00	36.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26450.D
Acq On : 19 Oct 2022 8:15 pm
Operator : thomash
Sample : ic1125-0.2
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 08:14:54 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration



TIC: 6W26450.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.734min (+0.003) 0.25PPBV

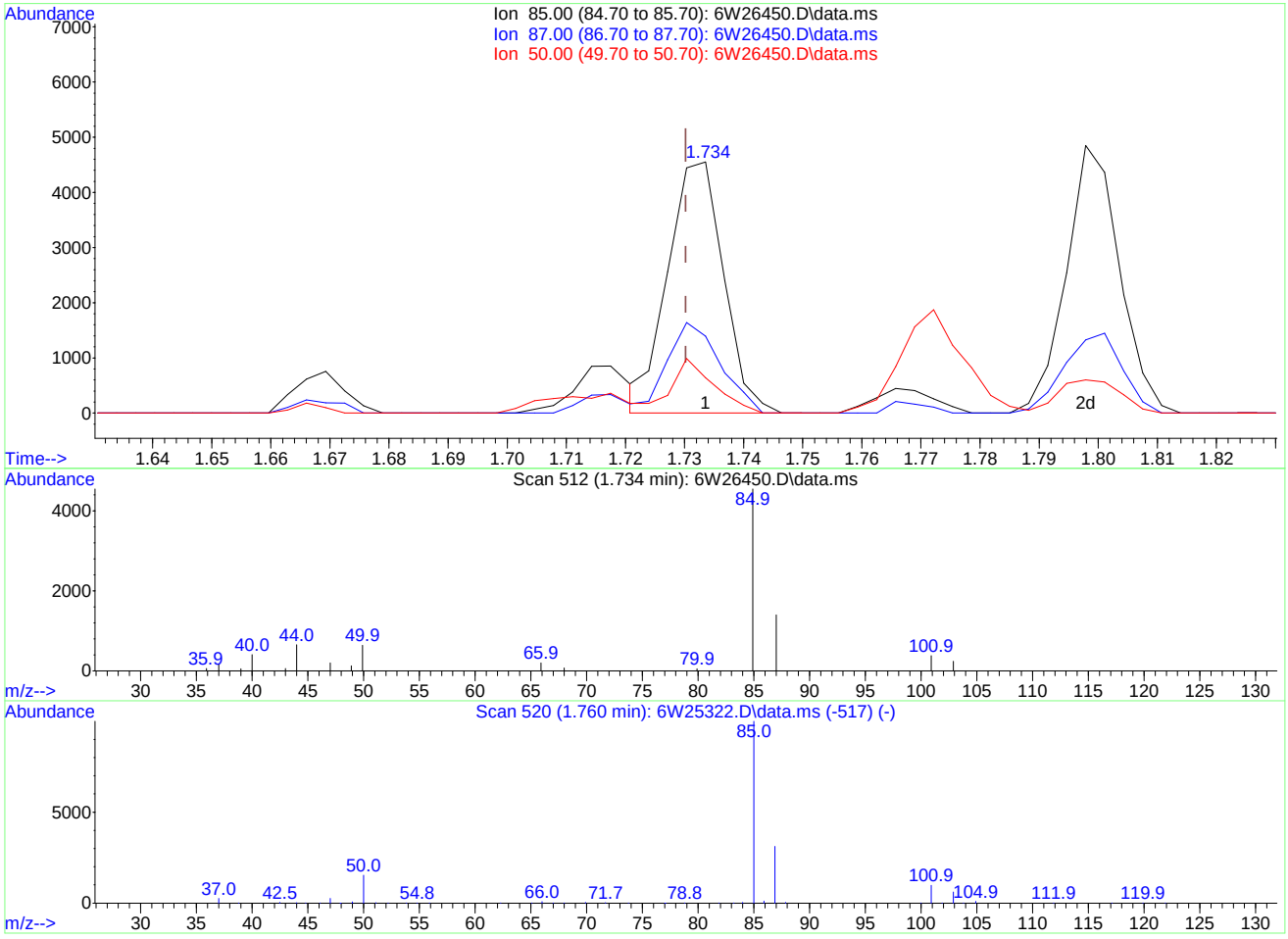
response 3525

Ion	Exp%	Act%
85.00	100	100
87.00	32.20	34.44
50.00	9.30	23.43#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26450.D
Acq On : 19 Oct 2022 8:15 pm
Operator : thomash
Sample : ic1125-0.2
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 08:14:54 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration



TIC: 6W26450.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.734min (+0.003) 0.21PPBV m

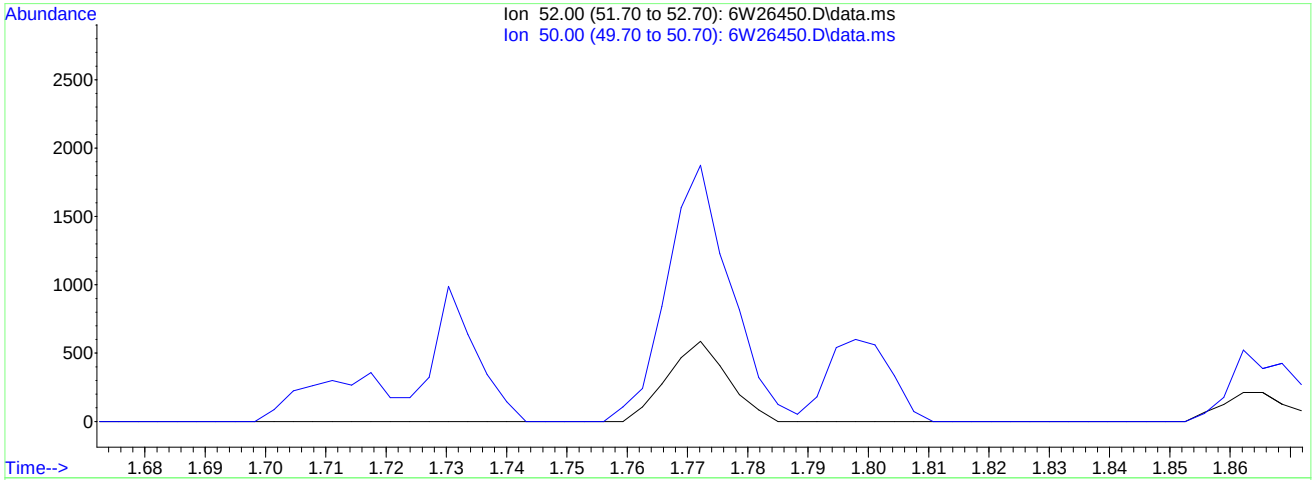
response 2981

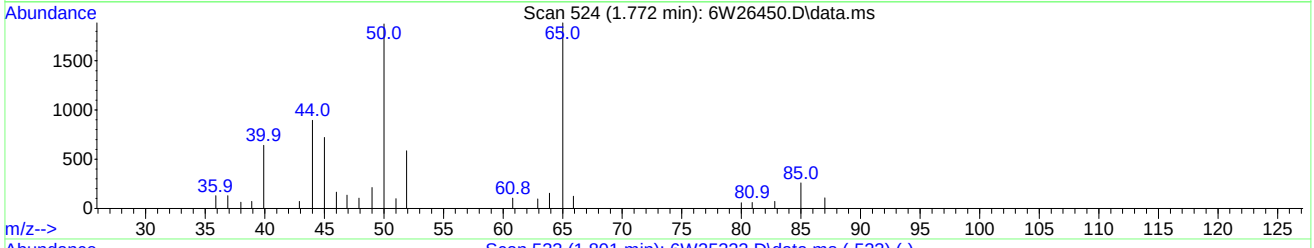
Ion	Exp%	Act%
85.00	100	100
87.00	32.20	40.72#
50.00	9.30	27.71#
0.00	0.00	0.00

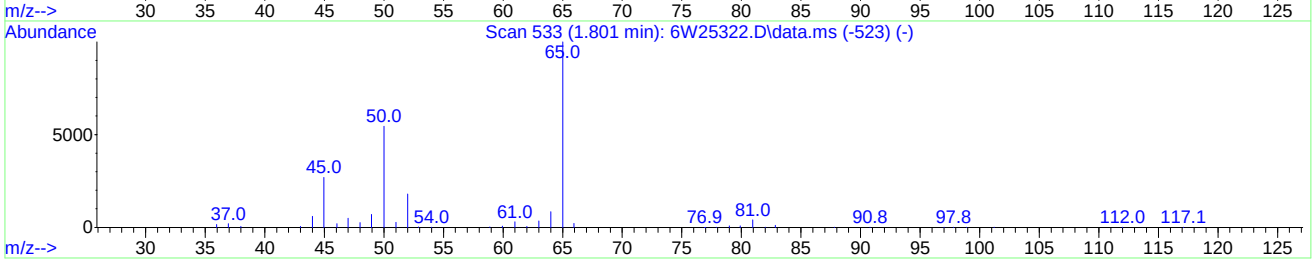
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26450.D
Acq On : 19 Oct 2022 8:15 pm
Operator : thomash
Sample : ic1125-0.2
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 08:14:54 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration







TIC: 6W26450.D\data.ms

(10) CHLOROMETHANE (T)

1.772min (-1.772) 0.00PPBV

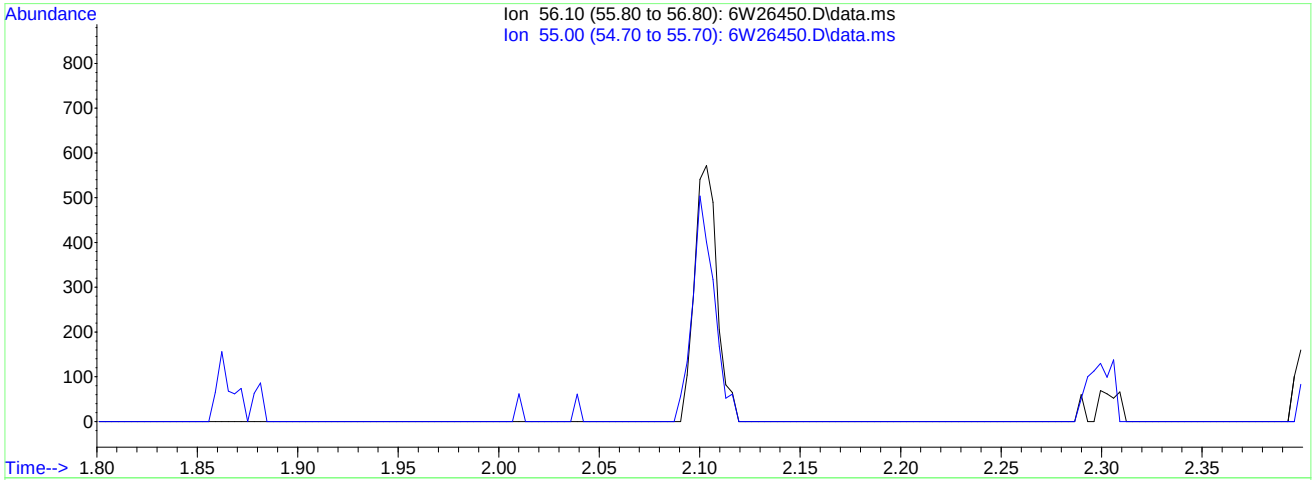
response 0

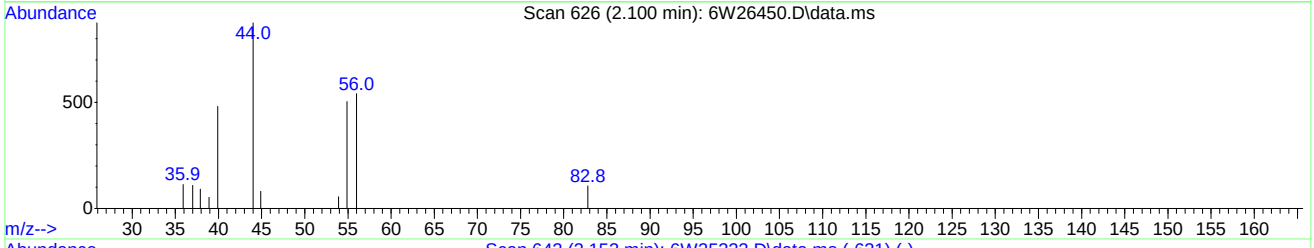
Ion	Exp%	Act%
52.00	100	0.00
50.00	310.20	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

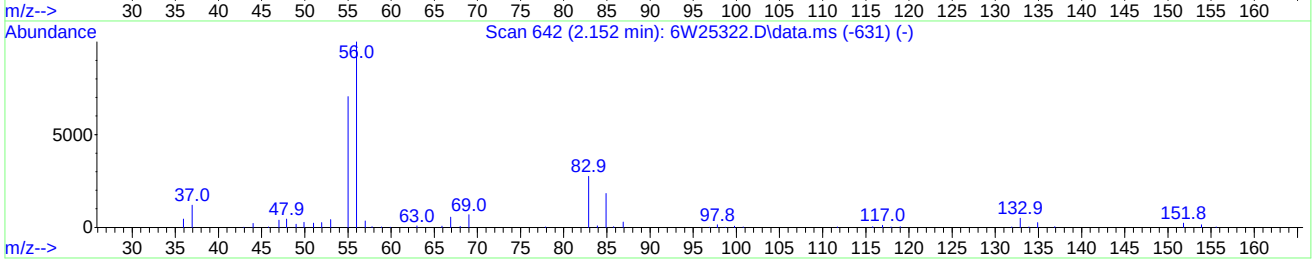
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26450.D
Acq On : 19 Oct 2022 8:15 pm
Operator : thomash
Sample : ic1125-0.2
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 08:14:54 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration







TIC: 6W26450.D\data.ms

(18) ACROLEIN (T)

2.100min (-2.100) 0.00PPBV

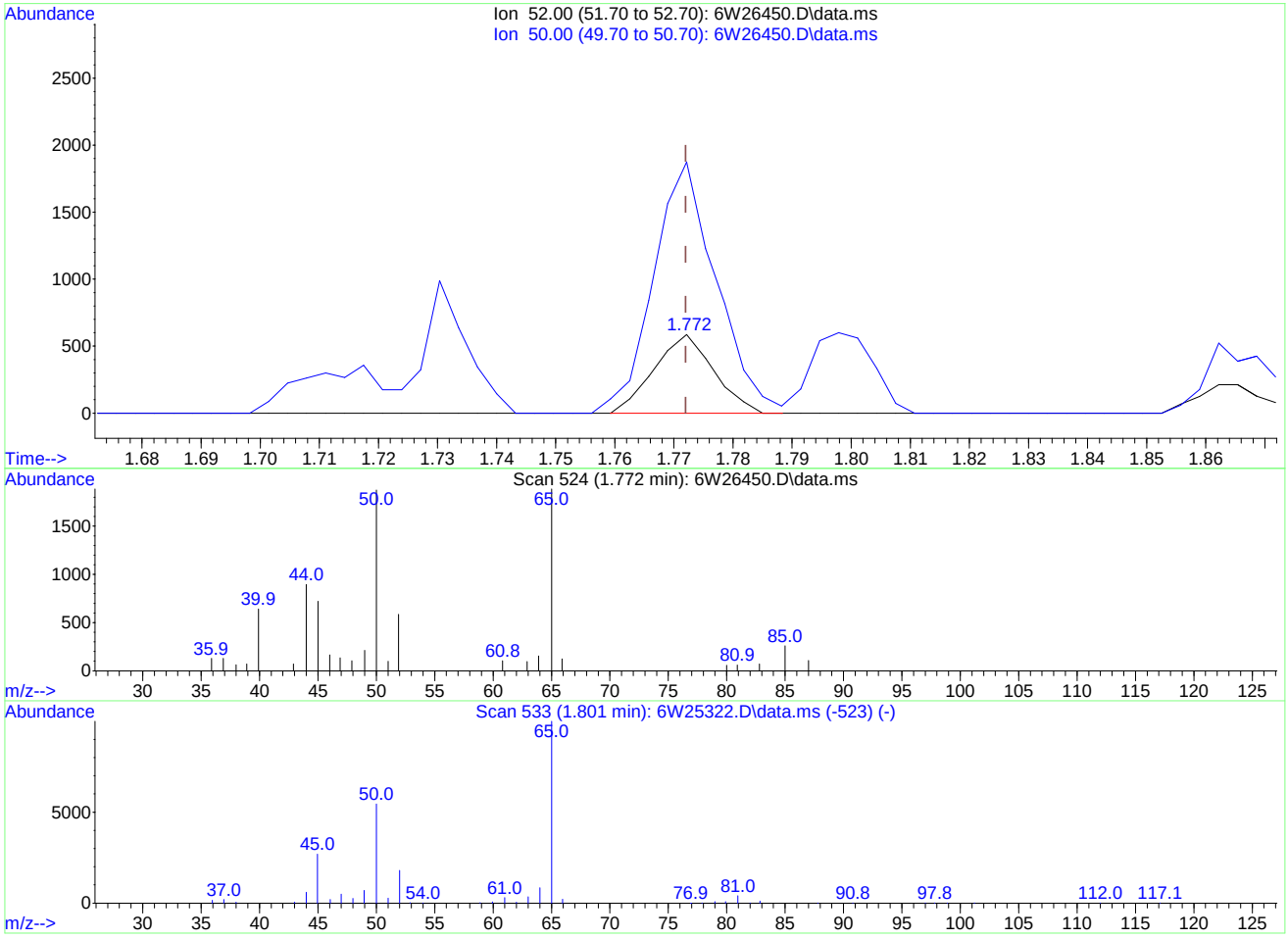
response 0

Ion	Exp%	Act%
56.10	100	0.00
55.00	70.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26450.D
Acq On : 19 Oct 2022 8:15 pm
Operator : thomash
Sample : ic1125-0.2
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 08:14:54 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration



TIC: 6W26450.D\data.ms

(10) CHLOROMETHANE (T)

1.772min (+0.000) 0.21PPBV m

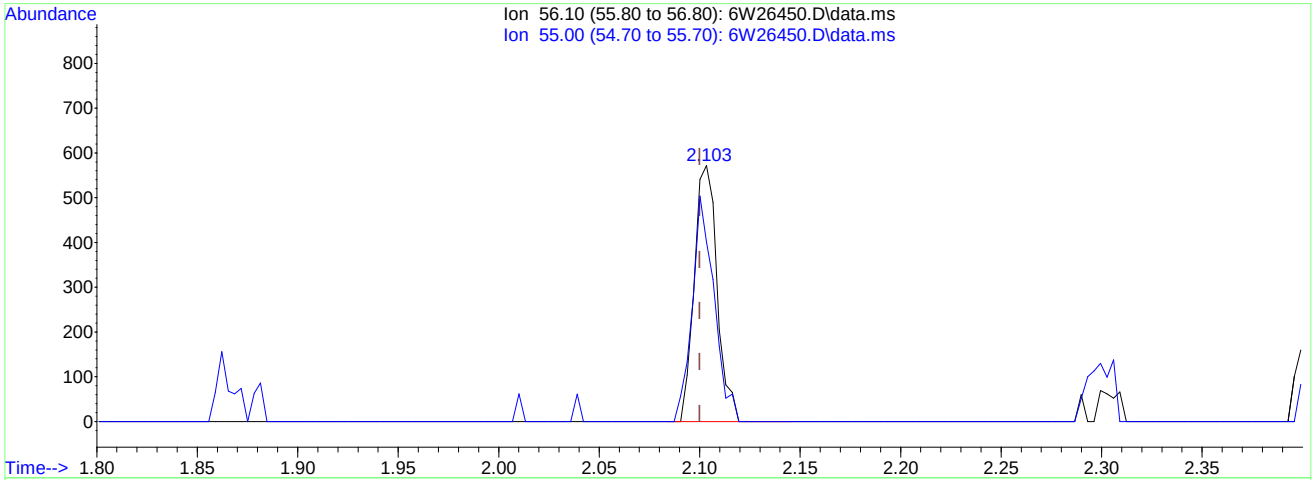
response 410

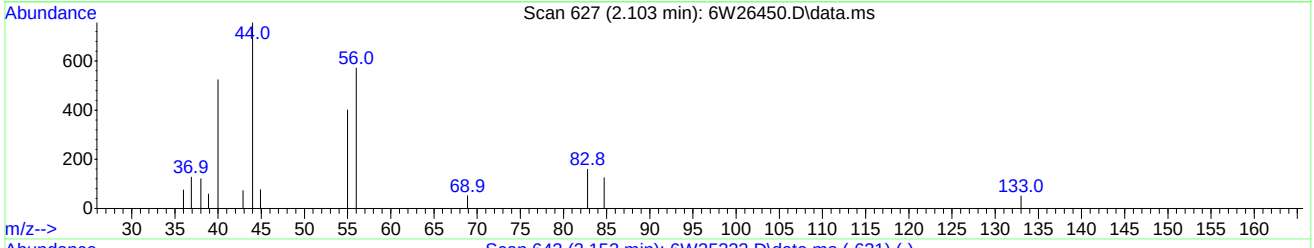
Ion	Exp%	Act%
52.00	100	100
50.00	310.20	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

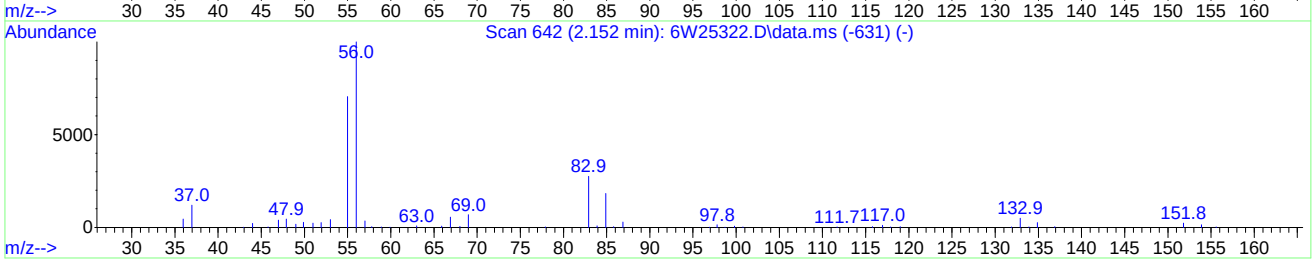
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26450.D
Acq On : 19 Oct 2022 8:15 pm
Operator : thomash
Sample : ic1125-0.2
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 08:14:54 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration







TIC: 6W26450.D\data.ms

(18) ACROLEIN (T)

2.103min (+0.003) 0.16PPBV m

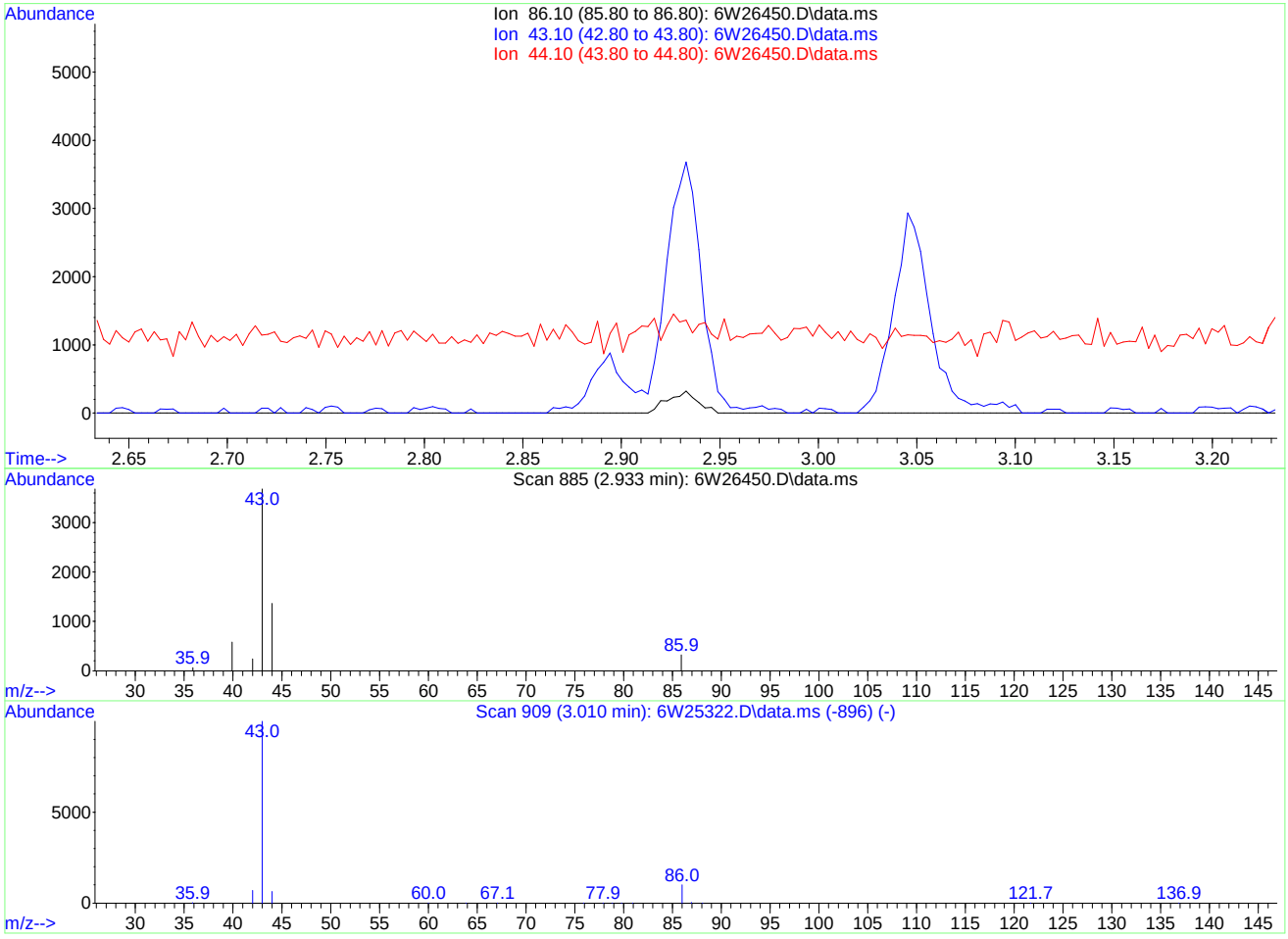
response 451

Ion	Exp%	Act%
56.10	100	100
55.00	70.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26450.D
Acq On : 19 Oct 2022 8:15 pm
Operator : thomash
Sample : ic1125-0.2
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 08:14:54 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration



TIC: 6W26450.D\data.ms

(39) VINYL ACETATE (T)

2.933min (-2.933) 0.00PPBV

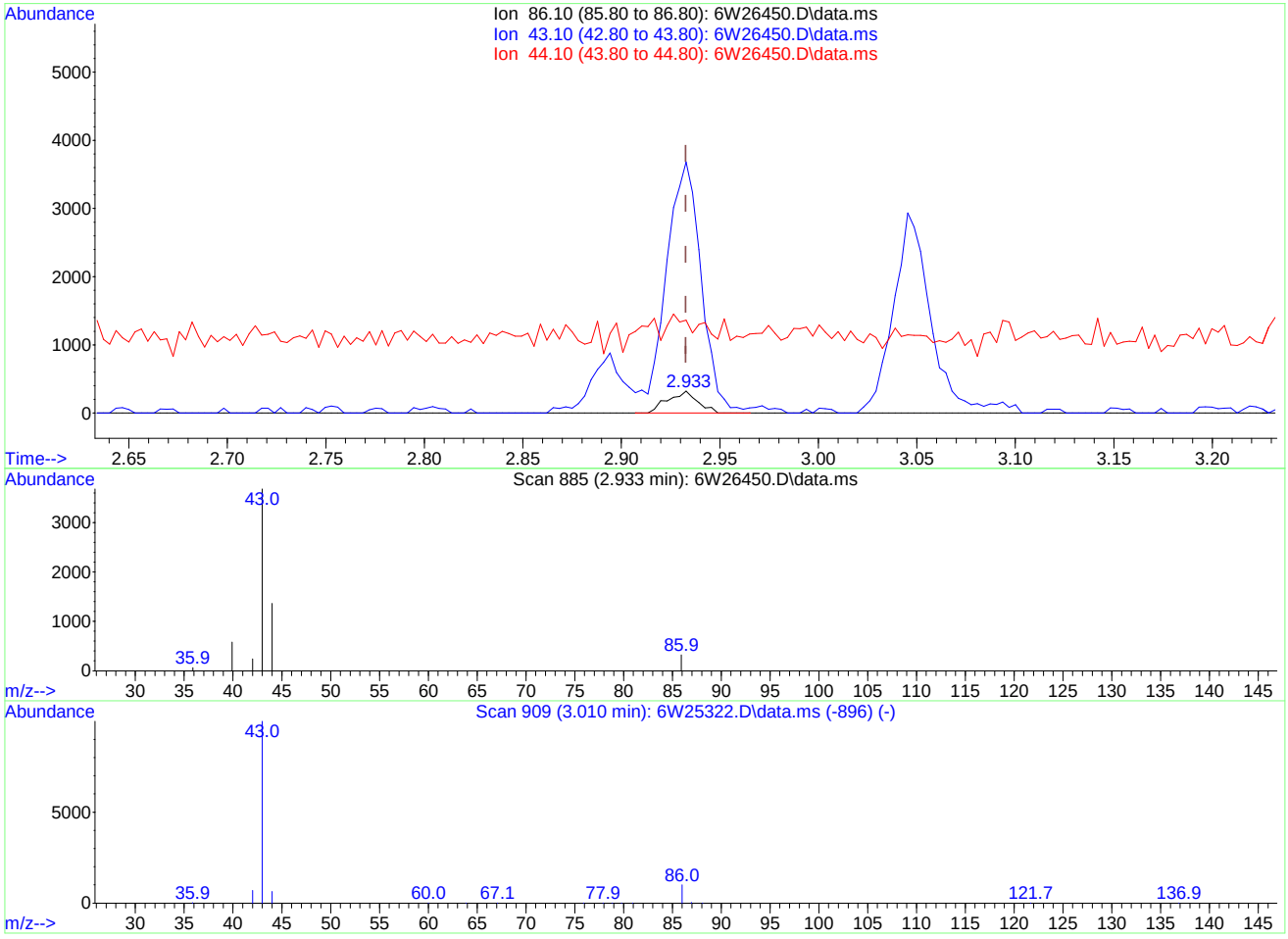
response 0

Ion	Exp%	Act%
86.10	100	0.00
43.10	782.90	0.00#
44.10	43.10	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26450.D
Acq On : 19 Oct 2022 8:15 pm
Operator : thomash
Sample : ic1125-0.2
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 08:14:54 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration



TIC: 6W26450.D\data.ms

(39) VINYL ACETATE (T)

2.933min (+0.000) 0.23PPBV m

response 339

Ion	Exp%	Act%
86.10	100	100
43.10	782.90	0.00#
44.10	43.10	0.00#
0.00	0.00	0.00

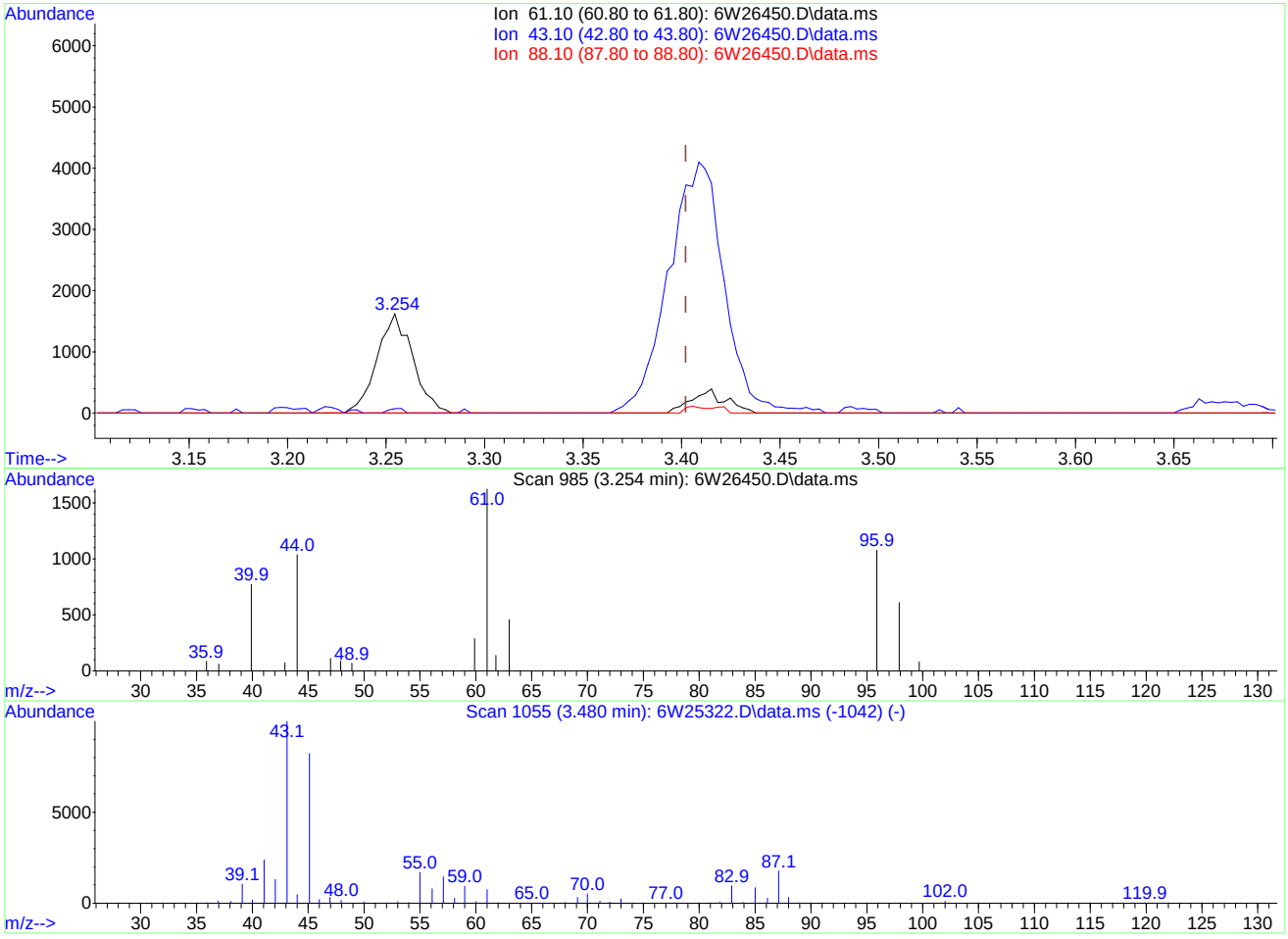
6W26450.D edits: VINYL ACETATE

JD54338

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26450.D
Acq On : 19 Oct 2022 8:15 pm
Operator : thomash
Sample : ic1125-0.2
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 08:14:54 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration



TIC: 6W26450.D\data.ms

(44) ETHYL ACETATE (T)

3.254min (-0.148) 0.87PPBV

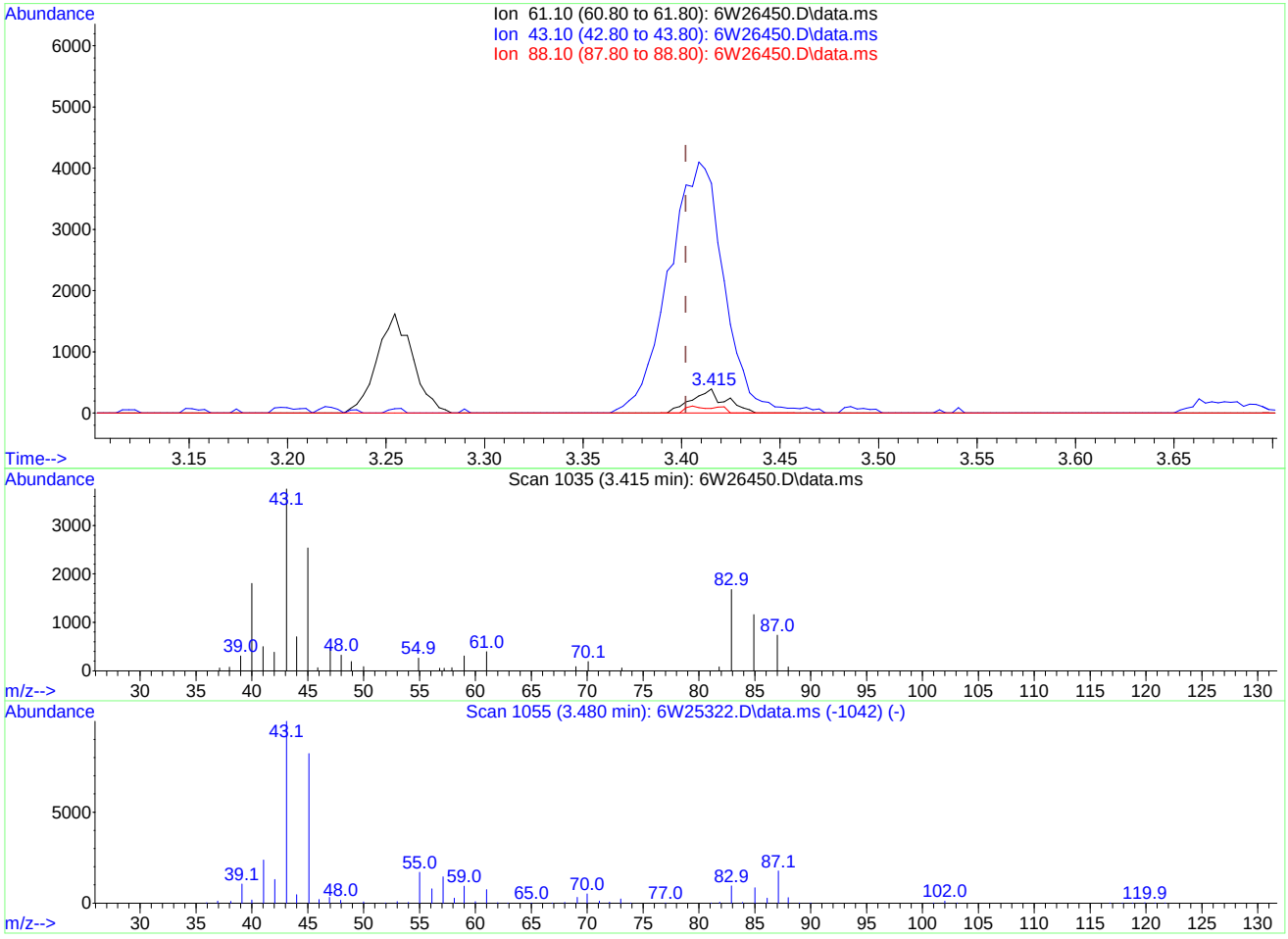
response 2040

Ion	Exp%	Act%
61.10	100	100
43.10	1232.70	0.00#
88.10	48.50	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26450.D
Acq On : 19 Oct 2022 8:15 pm
Operator : thomash
Sample : ic1125-0.2
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 08:14:54 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration



TIC: 6W26450.D\data.ms

(44) ETHYL ACETATE (T)

3.415min (+0.013) 0.20PPBV m

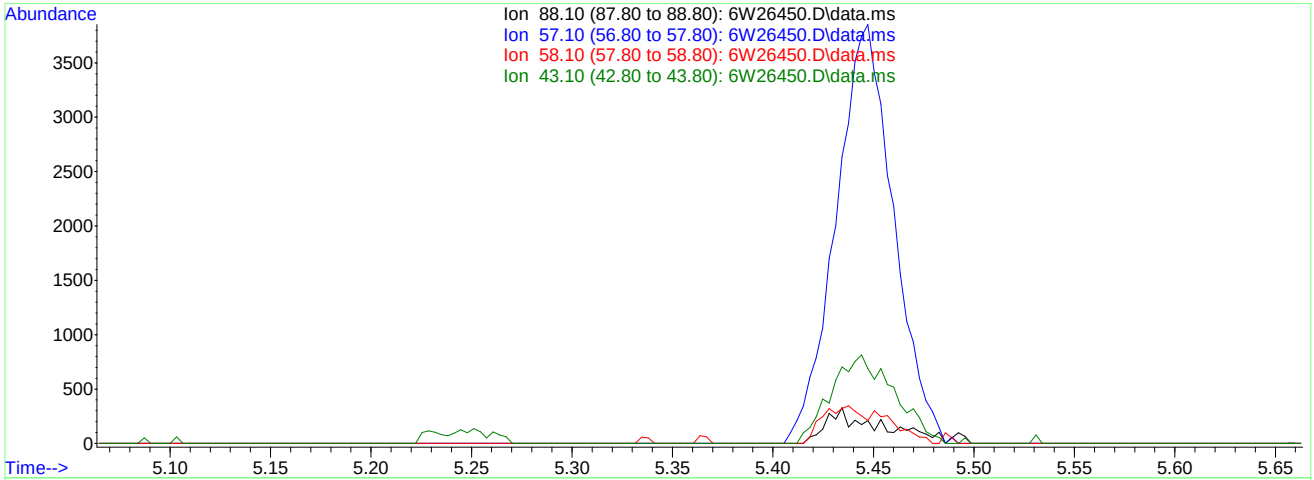
response 474

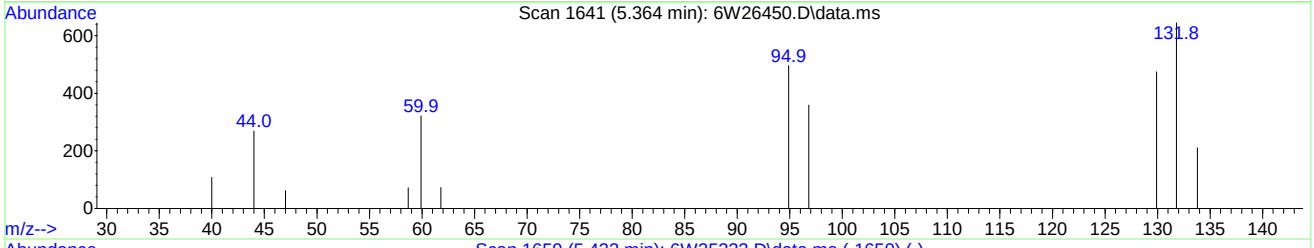
Ion	Exp%	Act%
61.10	100	100
43.10	1232.70	0.00#
88.10	48.50	0.00#
0.00	0.00	0.00

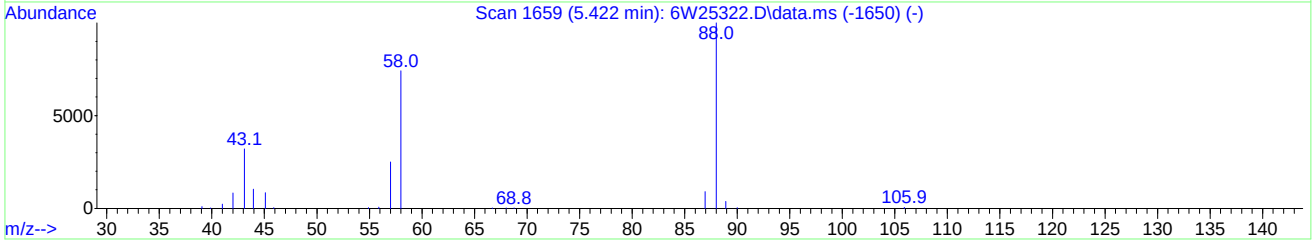
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26450.D
Acq On : 19 Oct 2022 8:15 pm
Operator : thomash
Sample : ic1125-0.2
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 08:14:54 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration







TIC: 6W26450.D\data.ms

(61) 1,4-DIOXANE (T)

5.364min (-5.364) 0.00PPBV

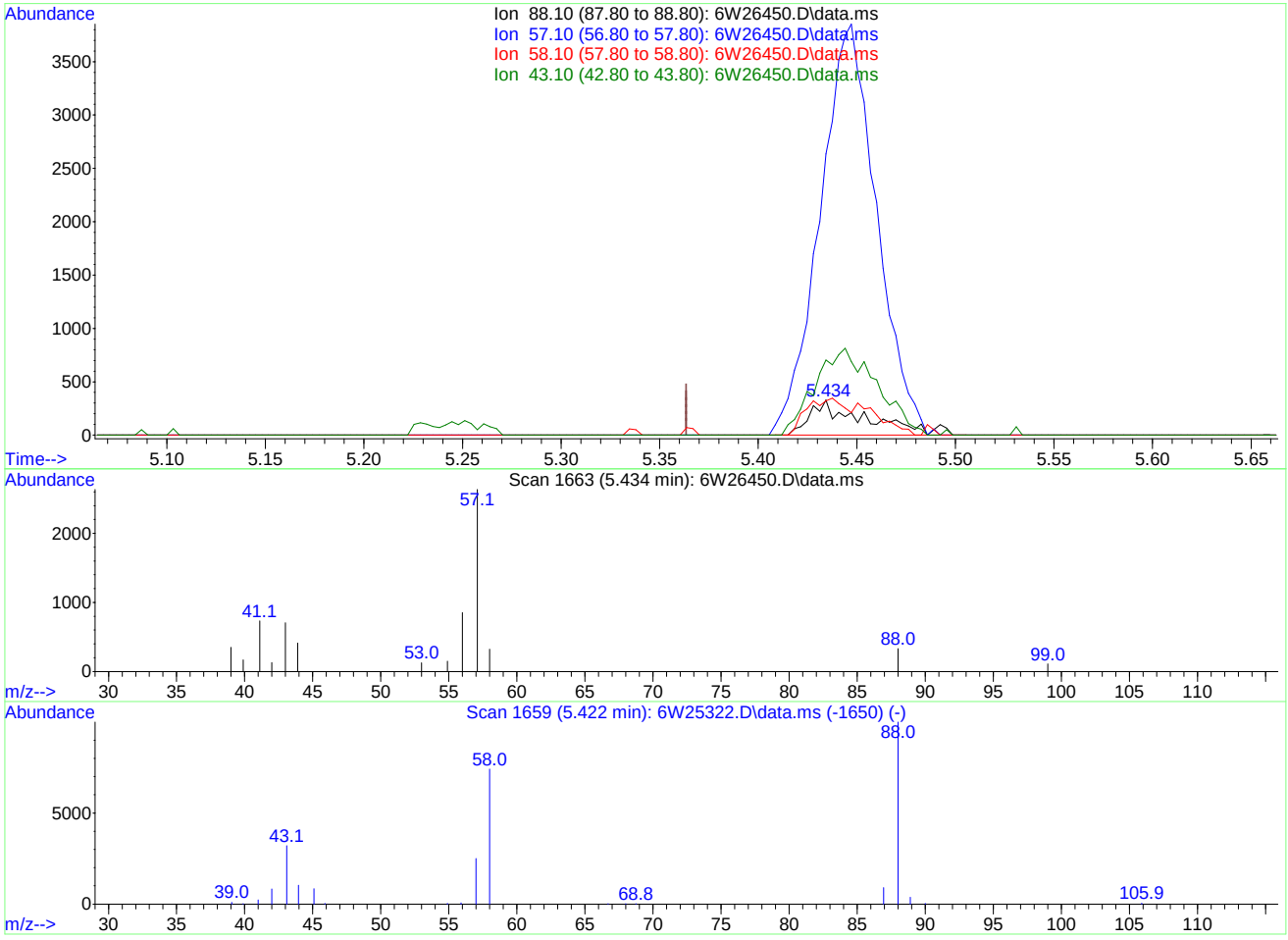
response 0

Ion	Exp%	Act%
88.10	100	0.00
57.10	18.70	0.00#
58.10	62.60	0.00#
43.10	19.20	0.00#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26450.D
Acq On : 19 Oct 2022 8:15 pm
Operator : thomash
Sample : ic1125-0.2
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 08:14:54 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration



TIC: 6W26450.D\data.ms

(61) 1,4-DIOXANE (T)

5.434min (+0.071) 0.16PPBV m

response 650

Ion	Exp%	Act%
88.10	100	100
57.10	18.70	0.00#
58.10	62.60	0.00#
43.10	19.20	0.00#

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 10/20/22 12:15

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26451.D
Acq On : 19 Oct 2022 8:47 pm
Operator : thomash
Sample : ic1125-0.5
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 08:25:54 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	3.338	128	43611	10.00	PPBV	# 0.00
52) 1,4-DIFLUOROBENZENE	4.733	114	212847	10.00	PPBV	0.00
76) CHLOROBENZENE-D5	10.588	117	201898	10.00	PPBV	0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	14.022	95	138007	9.66	PPBV	0.00
Target Compounds						Qvalue
3) FREON 152A	1.695	65	2036	0.58	PPBV	# 76
4) CHLORODIFLUOROMETHANE	1.708	67	916	0.57	PPBV	# 39
5) CHLOROTRIFLUOROETHENE	1.714	116	4273	0.56	PPBV	# 98
6) DICHLORODIFLUOROMETHANE	1.730	85	7321m	0.55	PPBV	
7) PROPYLENE	1.714	41	3257	0.61	PPBV	92
8) 1-CHLORO-1,1-DIFLUOROE...	1.766	65	6430	0.55	PPBV	# 78
9) FREON 114	1.798	85	7336	0.56	PPBV	94
10) CHLOROMETHANE	1.769	52	1073	0.60	PPBV	98
11) VINYL CHLORIDE	1.830	62	3210	0.58	PPBV	# 91
12) 1,3-BUTADIENE	1.862	54	2567	0.57	PPBV	# 68
13) N-BUTANE	1.878	43	5494	0.59	PPBV	# 87
14) BROMOMETHANE	1.933	94	2394	0.56	PPBV	# 93
15) CHLOROETHANE	1.978	64	1513	0.56	PPBV	# 62
16) DICHLOROFLUOROMETHANE	2.004	67	6298	0.56	PPBV	# 94
17) ACETONITRILE	2.068	41	3448	0.61	PPBV	# 87
18) ACROLEIN	2.100	56	1132	0.42	PPBV	95
19) FREON 123	2.116	83	6000	0.57	PPBV	96
20) FREON 123A	2.129	117	3693	0.57	PPBV	88
21) TRICHLOROFLUOROMETHANE	2.190	101	7363	0.57	PPBV	99
22) ISOPROPYL ALCOHOL	2.209	45	7092	0.58	PPBV	# 89
23) ACETONE	2.142	58	2039	0.74	PPBV	# 45
24) PENTANE	2.299	42	4085	0.61	PPBV	# 93
25) IODOMETHANE	2.354	142	7193	0.57	PPBV	# 83
26) 1,1-DICHLOROETHYLENE	2.383	96	2843	0.54	PPBV	# 55
27) CARBON DISULFIDE	2.521	76	8911	0.54	PPBV	# 78
28) ETHANOL	2.010	45	2191	0.80	PPBV	# 95
29) BROMOETHENE	2.071	106	2565	0.57	PPBV	# 97
30) ACRYLONITRILE	2.270	52	2722	0.62	PPBV	90
31) METHYLENE CHLORIDE	2.422	84	3163	0.63	PPBV	# 35
32) 3-CHLOROPROPENE	2.463	76	1418	0.54	PPBV	# 1
33) FREON 113	2.521	151	5014	0.53	PPBV	90
34) TRANS-1,2-DICHLOROETHENE	2.769	96	3094	0.53	PPBV	# 74
35) TERTIARY BUTYL ALCOHOL	2.402	59	6106	0.57	PPBV	# 88
36) METHYL TERTIARY BUTYL ...	2.891	73	7692	0.53	PPBV	# 84
37) TETRAHYDROFURAN	3.659	72	1425	0.54	PPBV	# 15
38) HEXANE	3.389	57	6333	0.57	PPBV	# 74
39) VINYL ACETATE	2.933	86	545	0.40	PPBV	# 1
40) 1,1-DICHLOROETHANE	2.852	63	6085	0.55	PPBV	97
41) METHYL ETHYL KETONE	3.045	72	1427	0.51	PPBV	# 1
42) CIS-1,2-DICHLOROETHENE	3.254	96	3326	0.55	PPBV	# 82
43) DIISOPROPYL ETHER	3.402	59	1703	0.53	PPBV	# 33
44) ETHYL ACETATE	3.412	61	1201	0.55	PPBV	# 1
45) METHYL ACRYLATE	3.393	55	7982	0.57	PPBV	# 98
46) CHLOROFORM	3.418	83	6839	0.55	PPBV	# 92
47) 2,4-DIMETHYLPENTANE	3.955	57	6927	0.53	PPBV	# 91
48) 1,1,1-TRICHLOROETHANE	4.042	97	6432	0.53	PPBV	# 90
49) CARBON TETRACHLORIDE	4.495	117	6798	0.50	PPBV	98
50) 1,2-DICHLOROETHANE	3.862	62	5168	0.55	PPBV	# 91
51) BENZENE	4.376	78	9500	0.53	PPBV	72
53) CYCLOHEXANE	4.601	84	4074	0.53	PPBV	# 70
54) 2,3-DIMETHYLPENTANE	4.868	71	2195	0.54	PPBV	# 42
55) TRICHLOROETHENE	5.344	95	4586	0.56	PPBV	98
56) 1,2-DICHLOROPROPANE	5.100	63	4155	0.55	PPBV	97
57) DIBROMOMETHANE	5.055	174	3857	0.51	PPBV	# 84

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26451.D
Acq On : 19 Oct 2022 8:47 pm
Operator : thomash
Sample : ic1125-0.5
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 08:25:54 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration

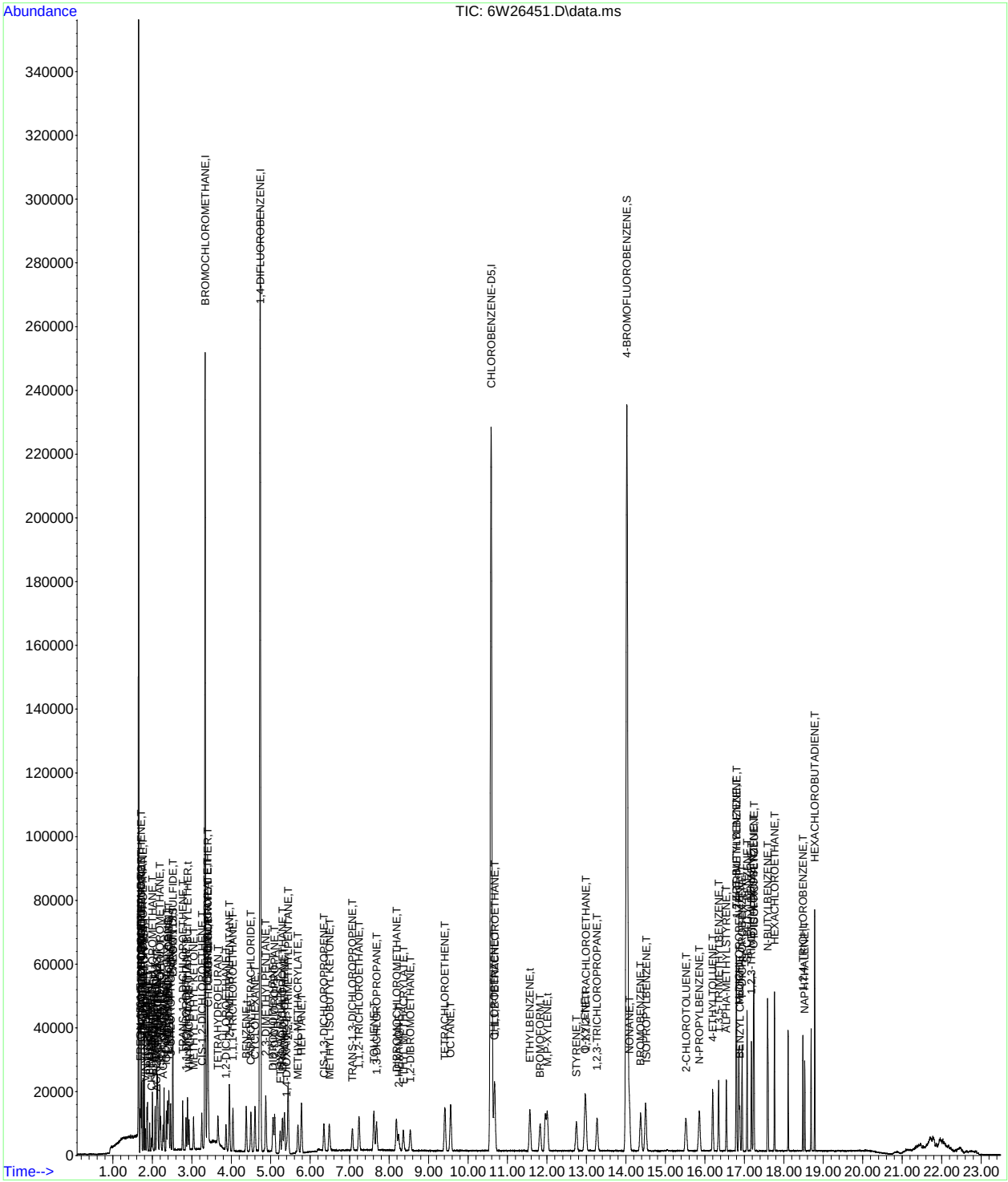
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
58)	ETHYL ACRYLATE	5.241	55	8223	0.51	PPBV	#	90
59)	BROMODICHLOROMETHANE	5.296	83	7543	0.55	PPBV		100
60)	2,2,4-TRIMETHYLPENTANE	5.441	57	18927	0.54	PPBV	#	98
61)	1,4-DIOXANE	5.402	88	1827	0.50	PPBV	#	69
62)	HEPTANE	5.778	43	7366	0.54	PPBV	#	74
63)	METHYL METHACRYLATE	5.685	69	3392	0.50	PPBV	#	46
64)	METHYL ISOBUTYL KETONE	6.489	58	2555	0.42	PPBV	#	44
65)	CIS-1,3-DICHLOROPROPENE	6.347	75	5324	0.53	PPBV	#	69
66)	TOLUENE	7.614	91	11850	0.55	PPBV		99
67)	1,3-DICHLOROPROPANE	7.685	76	5895	0.54	PPBV	#	97
68)	TRANS-1,3-DICHLOROPROPENE	7.064	75	4397	0.49	PPBV	#	70
69)	1,1,2-TRICHLOROETHANE	7.238	83	3813	0.58	PPBV		93
70)	2-HEXANONE	8.241	58	2442	0.35	PPBV	#	39
71)	ETHYL METHACRYLATE	8.363	69	4486	0.42	PPBV	#	65
72)	TETRACHLOROETHENE	9.412	164	4552	0.55	PPBV		92
73)	DIBROMOCHLOROMETHANE	8.187	129	7719	0.53	PPBV		100
74)	1,2-DIBROMOETHANE	8.537	107	6461	0.54	PPBV	#	99
75)	OCTANE	9.553	43	9456	0.50	PPBV	#	71
77)	1,1,1,2-TETRACHLOROETHANE	10.675	131	5101	0.47	PPBV		96
78)	CHLOROBENZENE	10.662	112	9881	0.50	PPBV		98
79)	ETHYLBENZENE	11.563	91	14798	0.47	PPBV		99
80)	M,P-XYLENE	12.010	91	22467m	0.93	PPBV		
81)	O-XYLENE	12.961	91	11051	0.45	PPBV	#	91
82)	STYRENE	12.736	104	7540	0.40	PPBV		97
83)	NONANE	14.090	43	11183	0.51	PPBV	#	71
84)	BROMOFORM	11.823	173	6708	0.47	PPBV	#	90
85)	1,1,2,2-TETRACHLOROETHANE	12.984	83	9811	0.53	PPBV		98
86)	1,2,3-TRICHLOROPROPANE	13.267	75	7550	0.53	PPBV		97
88)	ISOPROPYLBENZENE	14.511	105	16923	0.47	PPBV		94
89)	BROMOBENZENE	14.373	77	8531	0.49	PPBV		97
90)	2-CHLOROTOLUENE	15.524	91	10727	0.43	PPBV		98
91)	N-PROPYLBENZENE	15.858	91	17614	0.41	PPBV	#	96
92)	4-ETHYLTOLUENE	16.196	105	13852	0.38	PPBV	#	99
93)	1,3,5-TRIMETHYLBENZENE	16.350	105	11943	0.40	PPBV		97
94)	ALPHA-METHYLSTYRENE	16.543	118	5514	0.37	PPBV		99
95)	TERT-BUTYLBENZENE	16.797	119	13389	0.40	PPBV		94
96)	1,2,4-TRIMETHYLBENZENE	16.800	105	12326	0.40	PPBV		97
97)	BENZYL CHLORIDE	16.887	91	6681	0.38	PPBV		96
98)	M-DICHLOROBENZENE	16.865	146	9596	0.47	PPBV		97
99)	P-DICHLOROBENZENE	16.942	146	9486	0.47	PPBV		98
100)	O-DICHLOROBENZENE	17.234	146	9520	0.49	PPBV		98
101)	SEC-BUTYLBENZENE	17.070	105	19173	0.42	PPBV		97
102)	1,2,3-TRIMETHYLBENZENE	17.180	105	12666	0.42	PPBV	#	96
103)	P-ISOPROPYLTOLUENE	17.244	119	16473	0.41	PPBV		95
104)	N-BUTYLBENZENE	17.588	91	13519	0.37	PPBV		98
105)	HEXACHLOROETHANE	17.765	117	5837	0.46	PPBV	#	87
106)	HEXACHLOROBUTADIENE	18.784	225	6322	0.46	PPBV		100
107)	1,2,4-TRICHLOROBENZENE	18.485	180	5667	0.36	PPBV		99
108)	NAPHTHALENE	18.530	128	12011	0.30	PPBV		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26451.D
Acq On : 19 Oct 2022 8:47 pm
Operator : thomash
Sample : ic1125-0.5
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 08:25:54 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration



Manual Integration Approval Summary

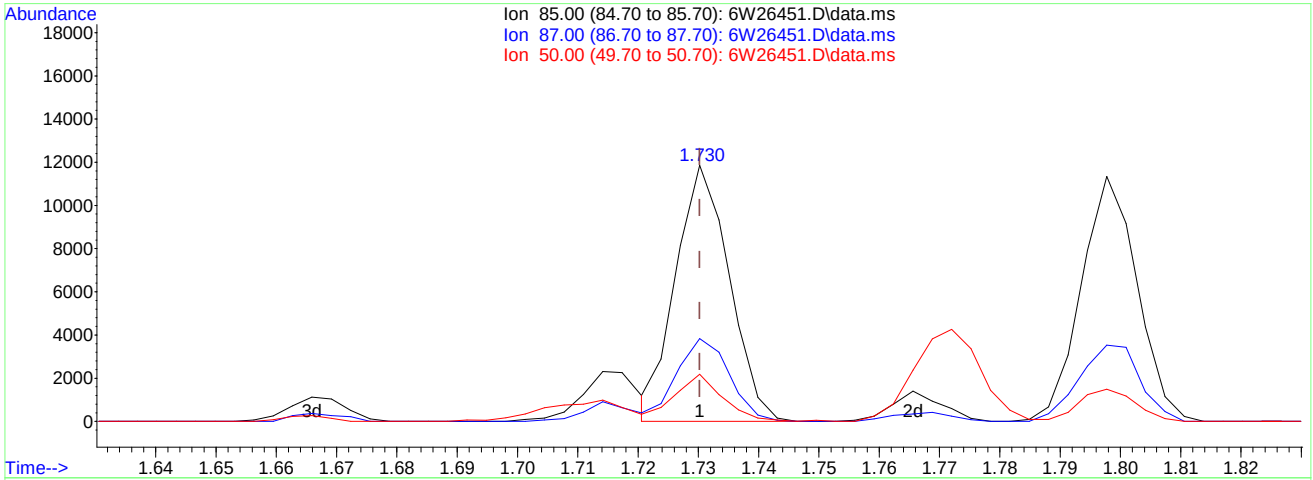
Sample Number:	V6W1125-IC1125	**Method:**	TO-15
Lab FileID:	6W26451.D	**Analyst approved:**	10/20/22 10:04 Thomas Hilbig
Injection Time:	10/19/22 20:47	**Supervisor approved:**	10/20/22 12:15 Kanya Veerawat

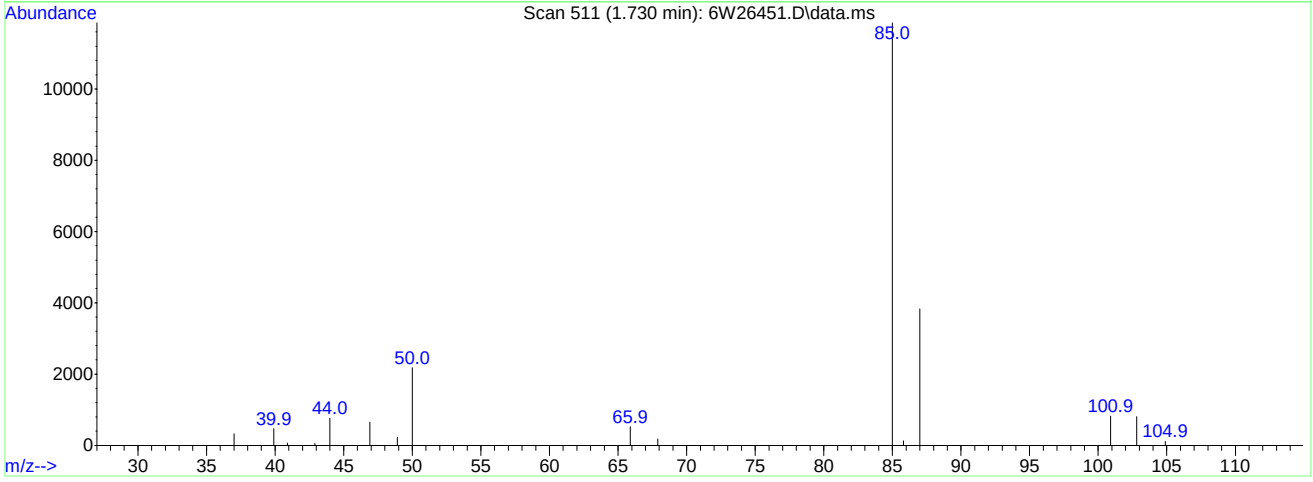
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.73	Overlapping peak
m,p-Xylene			12.01	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26451.D
Acq On : 19 Oct 2022 8:47 pm
Operator : thomash
Sample : ic1125-0.5
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 08:23:56 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration





TIC: 6W26451.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.730min (0.000) 0.55PPBV m

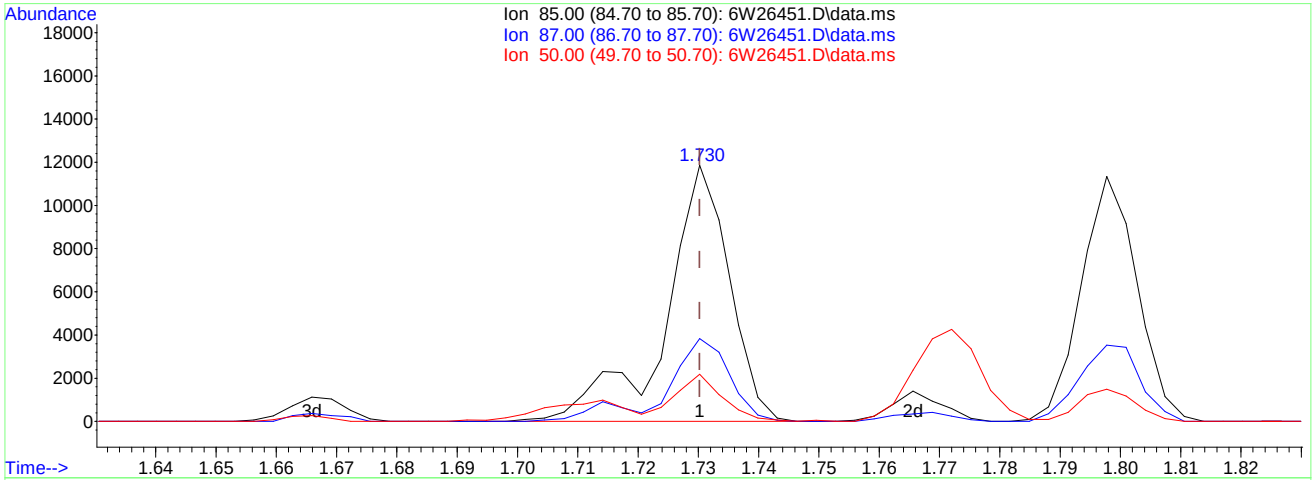
response 7321

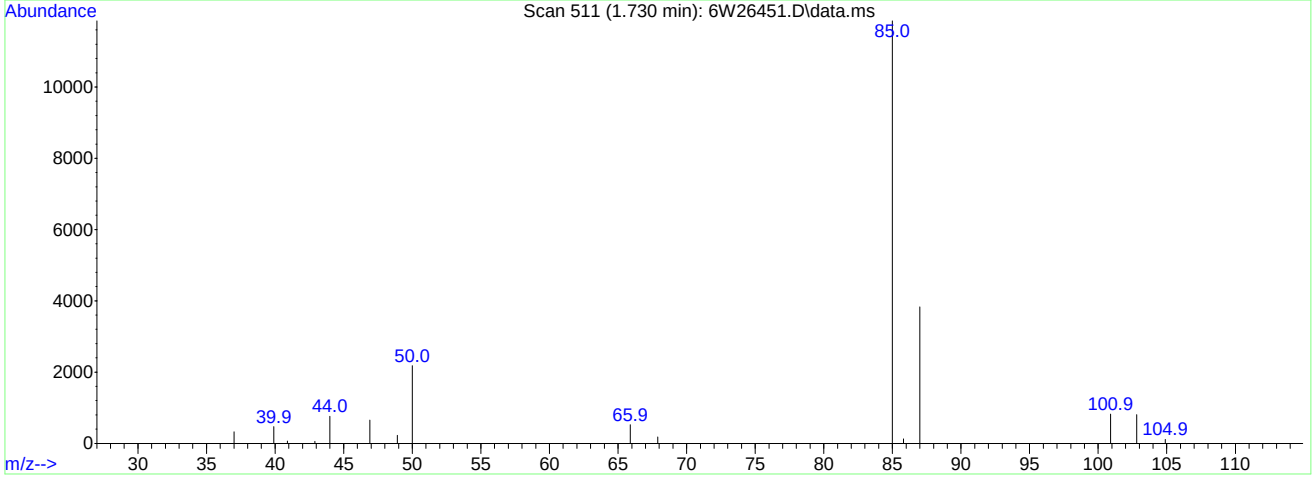
Ion	Exp%	Act%
85.00	100	100
87.00	32.20	38.64#
50.00	9.30	29.12#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26451.D
Acq On : 19 Oct 2022 8:47 pm
Operator : thomash
Sample : ic1125-0.5
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 08:23:56 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration





TIC: 6W26451.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.730min (0.000) 0.67PPBV

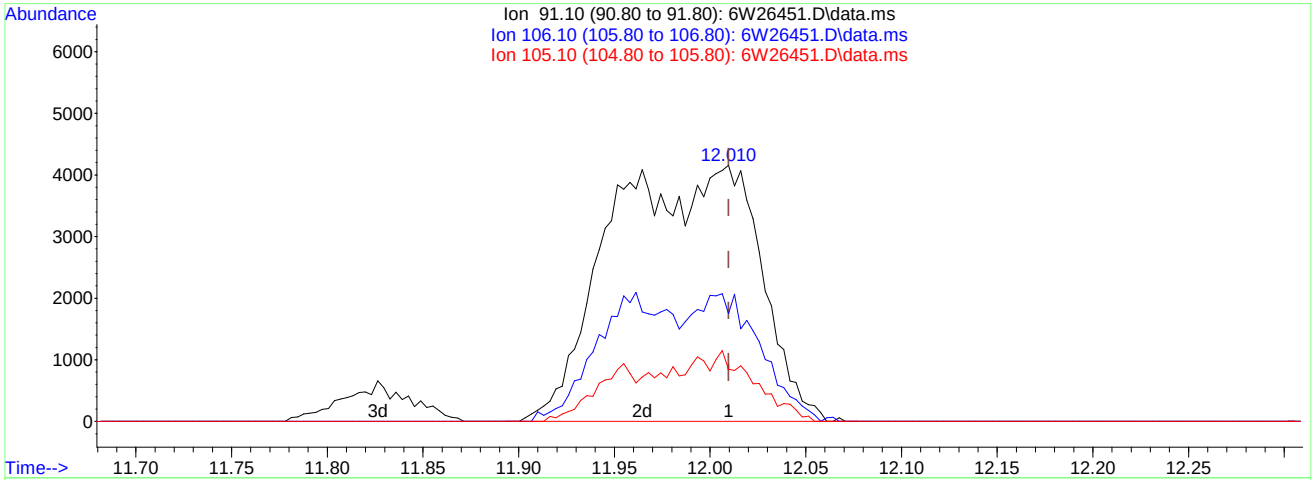
response 8806

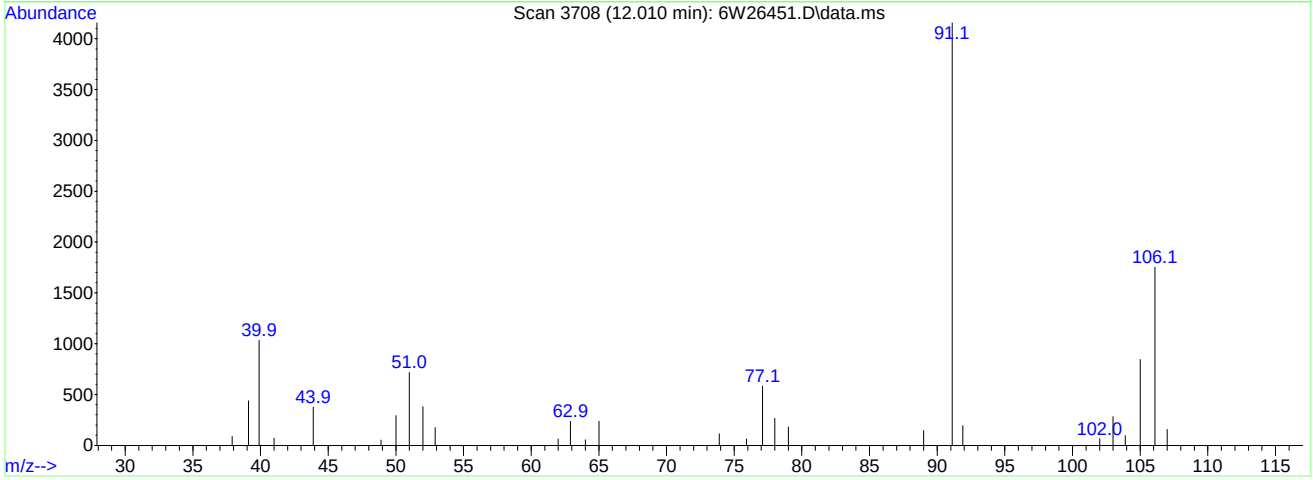
Ion	Exp%	Act%
85.00	100	100
87.00	32.20	32.13
50.00	9.30	24.21#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26451.D
Acq On : 19 Oct 2022 8:47 pm
Operator : thomash
Sample : ic1125-0.5
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 08:23:56 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration





TIC: 6W26451.D\data.ms

(80) M,P-XYLENE (t)

12.010min (0.000) 0.93PPBV m

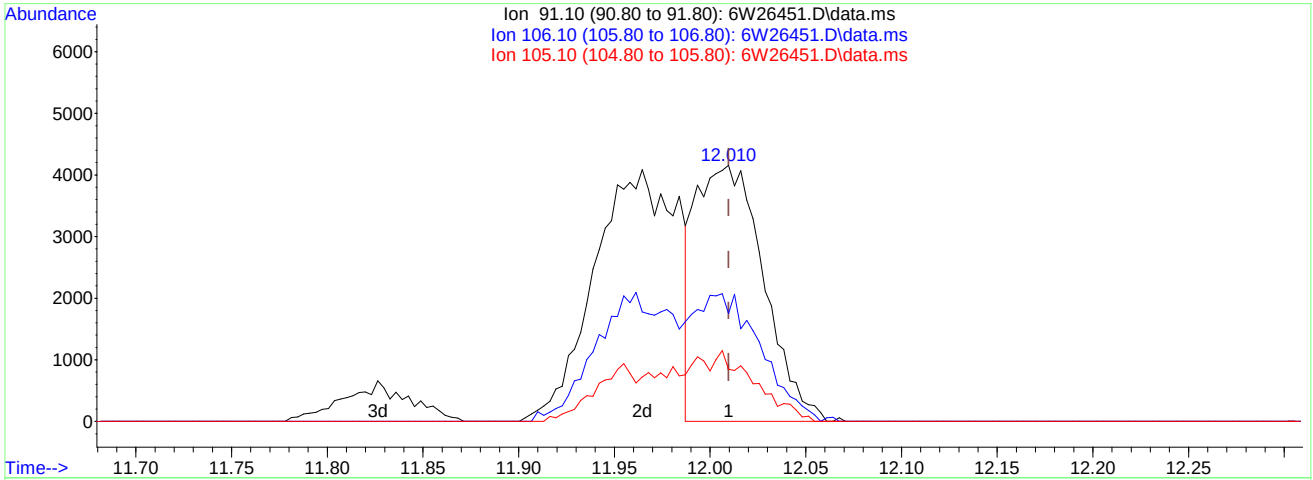
response 22467

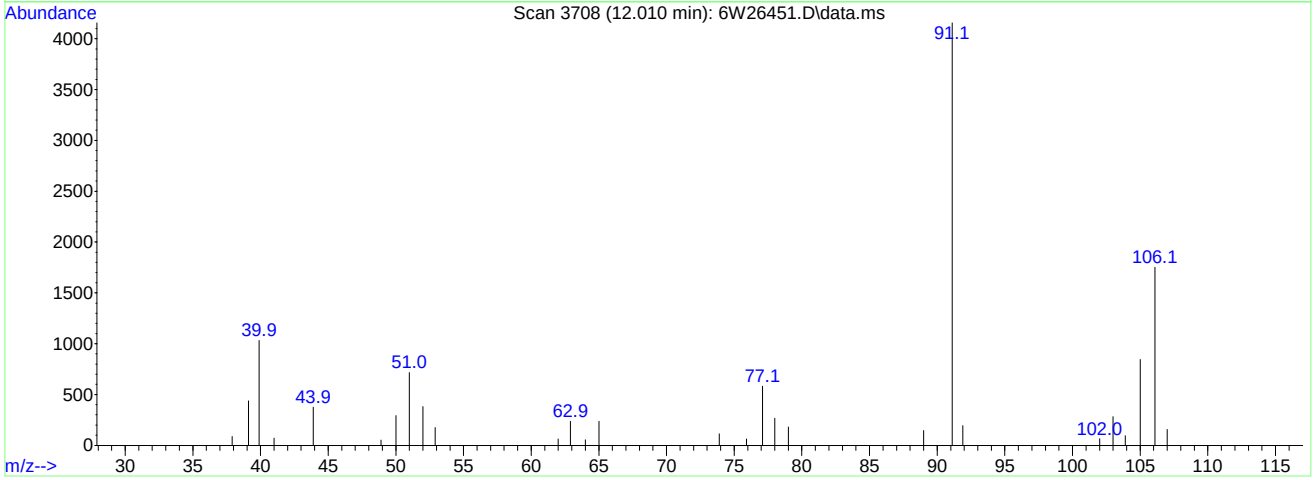
Ion	Exp%	Act%
91.10	100	100
106.10	51.50	22.10#
105.10	23.60	16.03
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\Raw Data\
Data File : 6W26451.D
Acq On : 19 Oct 2022 8:47 pm
Operator : thomash
Sample : ic1125-0.5
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 20 10:02:04 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration





TIC: 6W26451.D\data.ms

(80) M,P-XYLENE (t)

12.010min (0.000) 0.40PPBV

response 10308

Ion	Exp%	Act%
91.10	100	100
106.10	51.50	48.18
105.10	23.60	34.93
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 10/20/22 12:15

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26453.D
Acq On : 19 Oct 2022 9:52 pm
Operator : thomash
Sample : ic1125-5
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 08:28:12 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:27:42 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.338	128	48052	10.00	PPBV	#	0.00
52) 1,4-DIFLUOROBENZENE	4.733	114	238668	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	10.582	117	209355	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	14.022	95	146090	10.19	PPBV		0.00
Target Compounds							Qvalue
3) FREON 152A	1.695	65	19907	2.65	PPBV	#	74
4) CHLORODIFLUOROMETHANE	1.705	67	9181	4.69	PPBV		97
5) CHLOROTRIFLUOROETHENE	1.714	116	43331	4.64	PPBV	#	99
6) DICHLORODIFLUOROMETHANE	1.730	85	73368m	4.83	PPBV		
7) PROPYLENE	1.714	41	29308	4.61	PPBV		96
8) 1-CHLORO-1,1-DIFLUOROE...	1.766	65	65971	4.79	PPBV	#	85
9) FREON 114	1.798	85	72621	4.52	PPBV		97
10) CHLOROMETHANE	1.772	52	10071	4.38	PPBV		91
11) VINYL CHLORIDE	1.827	62	30710	4.48	PPBV		97
12) 1,3-BUTADIENE	1.865	54	25561	4.68	PPBV	#	68
13) N-BUTANE	1.878	43	53529	3.91	PPBV	#	91
14) BROMOMETHANE	1.933	94	24626	4.79	PPBV		97
15) CHLOROETHANE	1.978	64	15370	4.88	PPBV		92
16) DICHLOROFLUOROMETHANE	2.000	67	63935	4.76	PPBV	#	94
17) ACETONITRILE	2.065	41	32753	4.23	PPBV		96
18) ACROLEIN	2.100	56	15089	6.24	PPBV		100
19) FREON 123	2.116	83	58941	4.60	PPBV		94
20) FREON 123A	2.132	117	36017	4.72	PPBV		85
21) TRICHLOROFLUOROMETHANE	2.190	101	81701	5.19	PPBV		100
22) ISOPROPYL ALCOHOL	2.209	45	70608	4.14	PPBV	#	93
23) ACETONE	2.139	58	14329	3.22	PPBV	#	20
24) PENTANE	2.299	42	42306	4.65	PPBV	#	93
25) IODOMETHANE	2.357	142	81476	5.47	PPBV	#	85
26) 1,1-DICHLOROETHYLENE	2.383	96	30944	5.07	PPBV	#	60
27) CARBON DISULFIDE	2.521	76	94990	4.99	PPBV	#	88
28) ETHANOL	2.007	45	15267	3.22	PPBV	#	96
29) BROMOETHENE	2.071	106	24699	4.53	PPBV	#	95
30) ACRYLONITRILE	2.274	52	27837	5.11	PPBV		95
31) METHYLENE CHLORIDE	2.422	84	29001	3.93	PPBV	#	51
32) 3-CHLOROPROPENE	2.463	76	14916	1.84	PPBV	#	1
33) FREON 113	2.521	151	54753	5.18	PPBV		91
34) TRANS-1,2-DICHLOROETHENE	2.769	96	33613	4.97	PPBV	#	81
35) TERTIARY BUTYL ALCOHOL	2.396	59	57315	4.48	PPBV	#	93
36) METHYL TERTIARY BUTYL ...	2.888	73	78884	4.91	PPBV	#	92
37) TETRAHYDROFURAN	3.653	72	15076	5.13	PPBV	#	44
38) HEXANE	3.396	57	63277	4.85	PPBV	#	77
39) VINYL ACETATE	2.930	86	7142	4.83	PPBV	#	1
40) 1,1-DICHLOROETHANE	2.852	63	63853	5.02	PPBV		98
41) METHYL ETHYL KETONE	3.036	72	15342	4.76	PPBV	#	1
42) CIS-1,2-DICHLOROETHENE	3.254	96	34169	4.70	PPBV	#	80
43) DIISOPROPYL ETHER	3.396	59	18288	5.08	PPBV	#	51
44) ETHYL ACETATE	3.402	61	12164	4.77	PPBV	#	13
45) METHYL ACRYLATE	3.389	55	77002	4.95	PPBV	#	98
46) CHLOROFORM	3.418	83	70989	4.91	PPBV	#	93
47) 2,4-DIMETHYLPENTANE	3.958	57	72717	5.13	PPBV		92
48) 1,1,1-TRICHLOROETHANE	4.045	97	67185	4.77	PPBV	#	90
49) CARBON TETRACHLORIDE	4.502	117	74873	5.21	PPBV		100
50) 1,2-DICHLOROETHANE	3.868	62	53248	4.79	PPBV	#	94
51) BENZENE	4.383	78	101339	4.56	PPBV		79
53) CYCLOHEXANE	4.605	84	42608	4.92	PPBV	#	73
54) 2,3-DIMETHYLPENTANE	4.881	71	23101	4.70	PPBV	#	54
55) TRICHLOROETHENE	5.347	95	47636	5.11	PPBV		98
56) 1,2-DICHLOROPROPANE	5.100	63	43029	4.96	PPBV		97
57) DIBROMOMETHANE	5.058	174	42656	4.61	PPBV		90

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26453.D
Acq On : 19 Oct 2022 9:52 pm
Operator : thomash
Sample : ic1125-5
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 08:28:12 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:27:42 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
58) ETHYL ACRYLATE	5.225	55	89611	5.35	PPBV #	96
59) BROMODICHLOROMETHANE	5.293	83	78333	4.91	PPBV	99
60) 2,2,4-TRIMETHYLPENTANE	5.447	57	200710	5.17	PPBV #	98
61) 1,4-DIOXANE	5.370	88	19670	5.29	PPBV #	85
62) HEPTANE	5.785	43	79722	4.98	PPBV #	73
63) METHYL METHACRYLATE	5.675	69	37067	5.13	PPBV #	50
64) METHYL ISOBUTYL KETONE	6.457	58	33688	6.44	PPBV #	62
65) CIS-1,3-DICHLOROPROPENE	6.347	75	55063	5.09	PPBV #	71
66) TOLUENE	7.617	91	120813	4.27	PPBV	99
67) 1,3-DICHLOROPROPANE	7.679	76	63315	5.00	PPBV	99
68) TRANS-1,3-DICHLOROPROPENE	7.064	75	47715	5.28	PPBV #	74
69) 1,1,2-TRICHLOROETHANE	7.235	83	37548	4.92	PPBV	98
70) 2-HEXANONE	8.212	58	34192	6.90	PPBV #	56
71) ETHYL METHACRYLATE	8.347	69	57397	6.27	PPBV #	69
72) TETRACHLOROETHENE	9.421	164	46844	5.43	PPBV	92
73) DIBROMOCHLOROMETHANE	8.180	129	82147	5.28	PPBV	99
74) 1,2-DIBROMOETHANE	8.531	107	67572	4.93	PPBV	99
75) OCTANE	9.566	43	105512	5.23	PPBV #	74
77) 1,1,1,2-TETRACHLOROETHANE	10.675	131	55973	5.11	PPBV	97
78) CHLOROBENZENE	10.662	112	102291	5.19	PPBV	100
79) ETHYLBENZENE	11.569	91	159993	4.02	PPBV	99
80) M,P-XYLENE	12.006	91	250224	8.76	PPBV #	68
81) O-XYLENE	12.958	91	126171	4.45	PPBV	99
82) STYRENE	12.746	104	92962	5.89	PPBV	97
83) NONANE	14.087	43	115009	4.89	PPBV #	75
84) BROMOFORM	11.823	173	72574	5.21	PPBV #	97
85) 1,1,2,2-TETRACHLOROETHANE	12.981	83	96502	5.13	PPBV	98
86) 1,2,3-TRICHLOROPROPANE	13.264	75	75375	5.14	PPBV	99
88) ISOPROPYLBENZENE	14.501	105	185523	5.20	PPBV #	94
89) BROMOBENZENE	14.373	77	90723	5.29	PPBV	96
90) 2-CHLOROTOLUENE	15.521	91	127993	5.96	PPBV	99
91) N-PROPYLBENZENE	15.861	91	218987	6.23	PPBV #	97
92) 4-ETHYLTOLUENE	16.199	105	184676	7.07	PPBV	100
93) 1,3,5-TRIMETHYLBENZENE	16.350	105	152452	6.64	PPBV	99
94) ALPHA-METHYLSTYRENE	16.546	118	75375	7.02	PPBV	99
95) TERT-BUTYLBENZENE	16.797	119	171850	6.68	PPBV	98
96) 1,2,4-TRIMETHYLBENZENE	16.804	105	160966	6.93	PPBV	95
97) BENZYL CHLORIDE	16.887	91	79996	6.95	PPBV	98
98) M-DICHLOROBENZENE	16.861	146	105031	5.93	PPBV	98
99) P-DICHLOROBENZENE	16.945	146	104393	5.98	PPBV	98
100) O-DICHLOROBENZENE	17.234	146	102199	5.87	PPBV	99
101) SEC-BUTYLBENZENE	17.070	105	234846	6.67	PPBV	99
102) 1,2,3-TRIMETHYLBENZENE	17.180	105	154554	6.70	PPBV	99
103) P-ISOPROPYLTOLUENE	17.247	119	201910	6.93	PPBV	97
104) N-BUTYLBENZENE	17.588	91	185283	7.89	PPBV	98
105) HEXACHLOROETHANE	17.765	117	63914	5.17	PPBV #	88
106) HEXACHLOROBUTADIENE	18.784	225	68032	5.57	PPBV	100
107) 1,2,4-TRICHLOROBENZENE	18.485	180	72353	7.80	PPBV	97
108) NAPHTHALENE	18.533	128	175017	9.54	PPBV	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

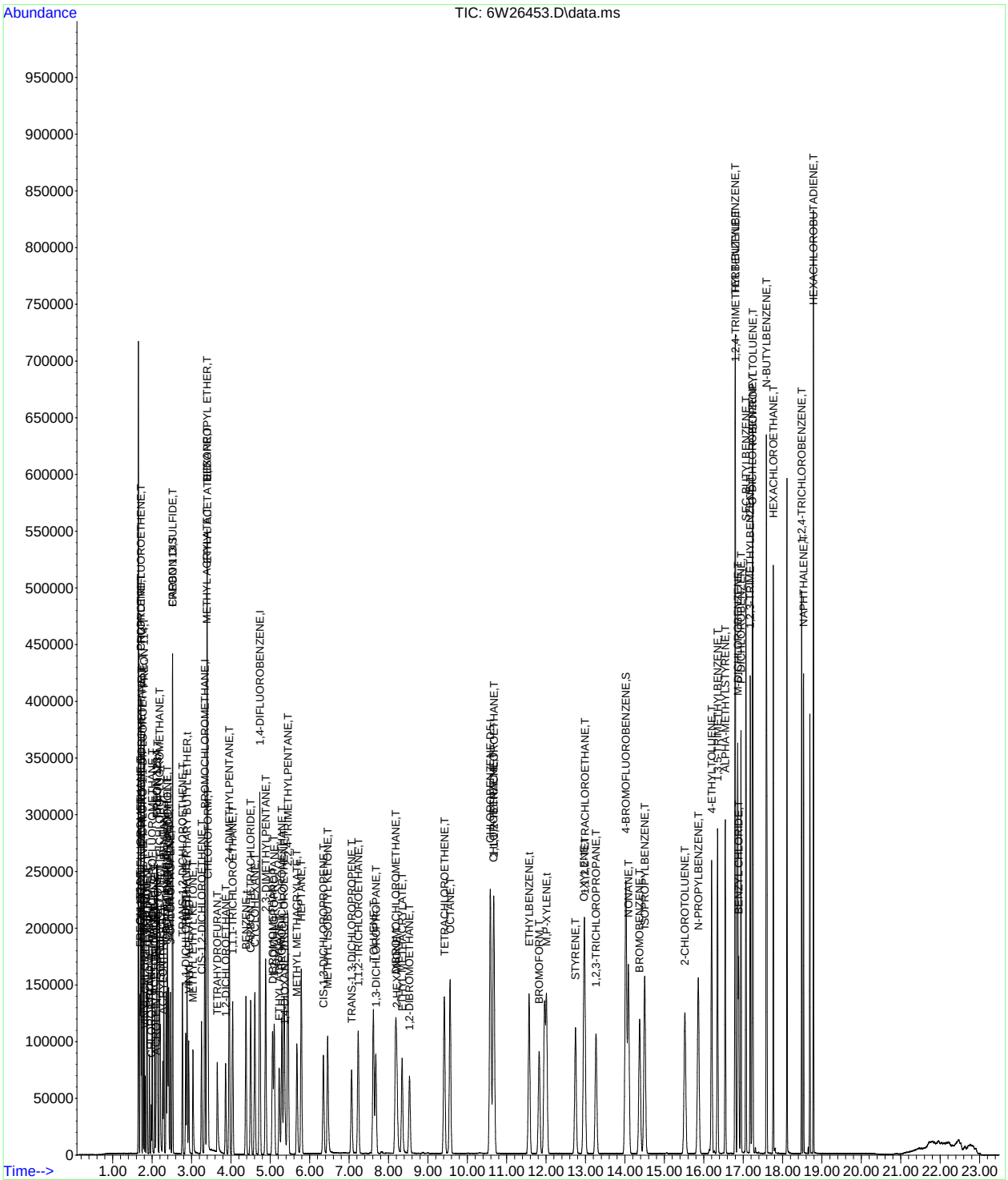
7.7.27

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26453.D
Acq On : 19 Oct 2022 9:52 pm
Operator : thomash
Sample : ic1125-5
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 08:28:12 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:27:42 2022
Response via : Initial Calibration



Manual Integration Approval Summary

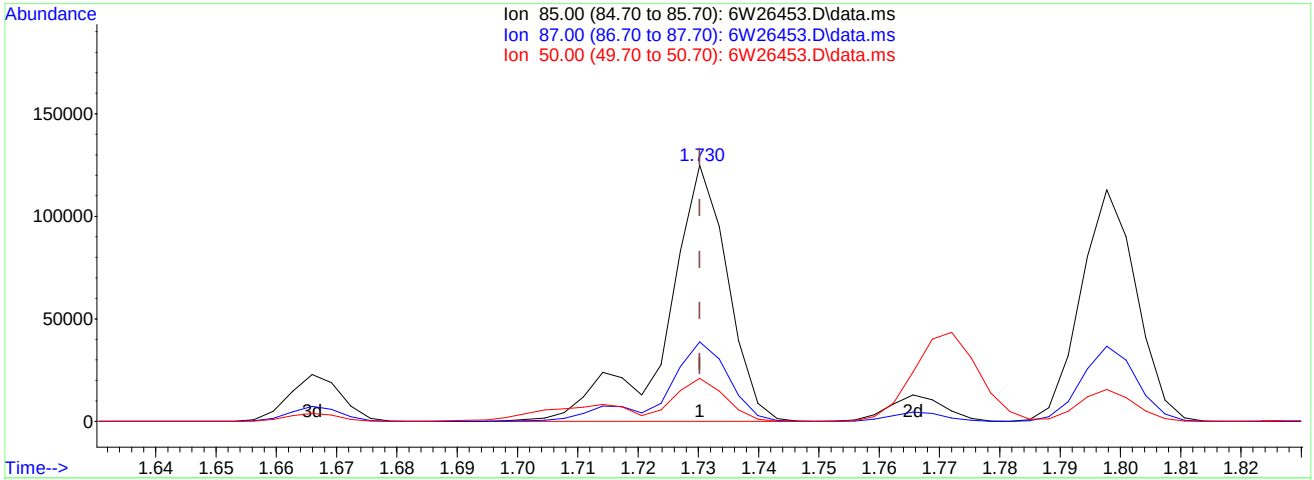
Sample Number:	V6W1125-IC1125	**Method:**	TO-15
Lab FileID:	6W26453.D	**Analyst approved:**	10/20/22 10:04 Thomas Hilbig
Injection Time:	10/19/22 21:52	**Supervisor approved:**	10/20/22 12:15 Kanya Veerawat

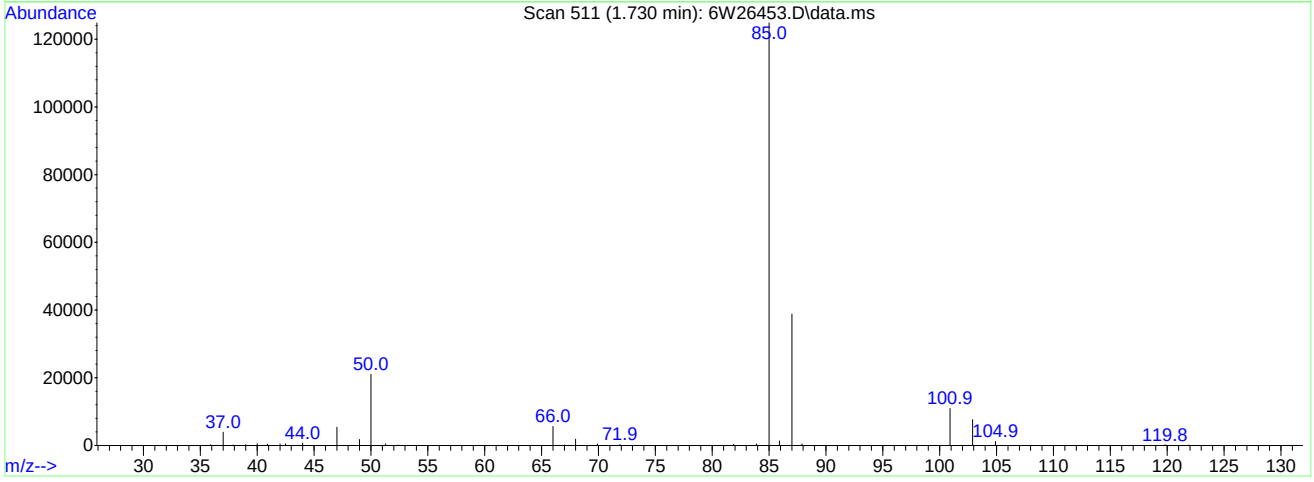
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.73	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26453.D
Acq On : 19 Oct 2022 9:52 pm
Operator : thomash
Sample : ic1125-5
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 08:27:56 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:27:42 2022
Response via : Initial Calibration





TIC: 6W26453.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.730min (+0.000) 5.81PPBV

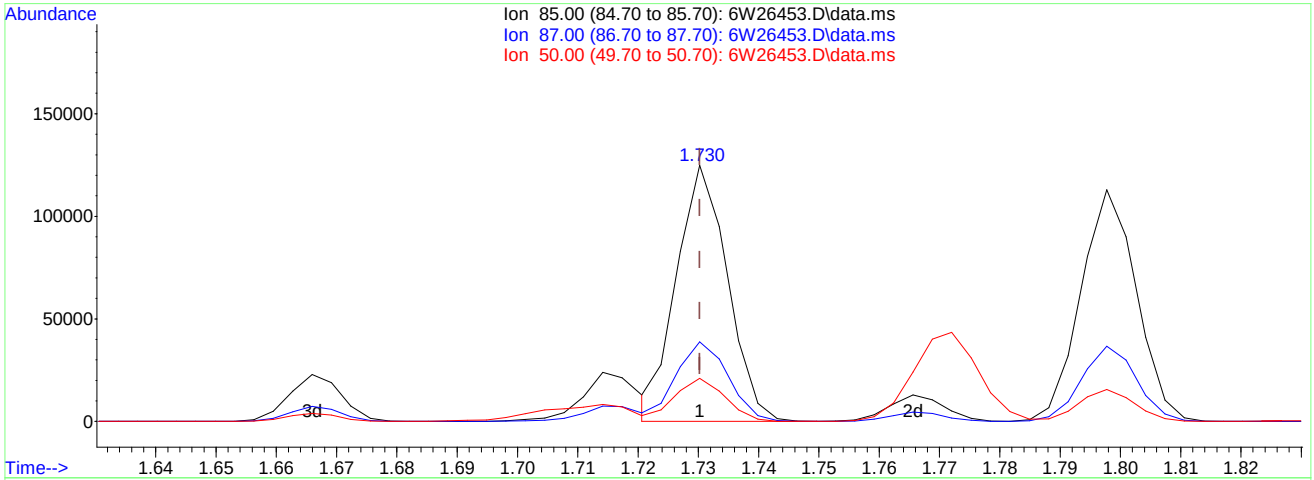
response 88251

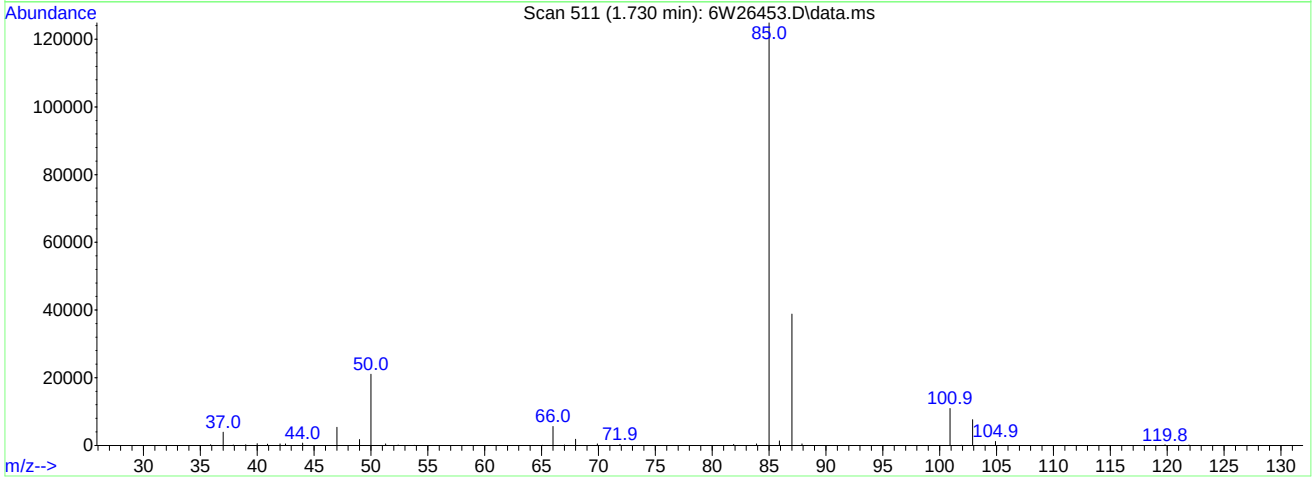
Ion	Exp%	Act%
85.00	100	100
87.00	32.20	31.94
50.00	9.30	23.58#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26453.D
Acq On : 19 Oct 2022 9:52 pm
Operator : thomash
Sample : ic1125-5
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 08:27:56 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:27:42 2022
Response via : Initial Calibration





TIC: 6W26453.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.730min (+0.000) 4.83PPBV m

response 73368

Ion	Exp%	Act%
85.00	100	100
87.00	32.20	38.42
50.00	9.30	28.36#
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 10/20/22 12:15

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26454.D
Acq On : 19 Oct 2022 10:25 pm
Operator : thomash
Sample : icc1125-10
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 07:46:44 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.338	128	50236	10.00	PPBV	#	0.00
52) 1,4-DIFLUOROBENZENE	4.733	114	248131	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	10.588	117	216051	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	14.019	95	152864	10.00	PPBV		0.00
Target Compounds							Qvalue
3) FREON 152A	1.695	65	40766	10.00	PPBV	#	76
4) CHLORODIFLUOROMETHANE	1.708	67	18586	10.00	PPBV		97
5) CHLOROTRIFLUOROETHENE	1.717	116	88306	10.00	PPBV	#	100
6) DICHLORODIFLUOROMETHANE	1.730	85	152018m	10.00	PPBV		
7) PROPYLENE	1.714	41	61296	10.00	PPBV		96
8) 1-CHLORO-1,1-DIFLUOROE...	1.766	65	135235	10.00	PPBV	#	86
9) FREON 114	1.798	85	152030	10.00	PPBV		97
10) CHLOROMETHANE	1.772	52	20678	10.00	PPBV		93
11) VINYL CHLORIDE	1.830	62	63489	10.00	PPBV		96
12) 1,3-BUTADIENE	1.865	54	52245	10.00	PPBV	#	72
13) N-BUTANE	1.878	43	107971	10.00	PPBV	#	90
14) BROMOMETHANE	1.933	94	49482	10.00	PPBV		98
15) CHLOROETHANE	1.978	64	31300	10.00	PPBV		93
16) DICHLOROFLUOROMETHANE	2.004	67	129761	10.00	PPBV	#	95
17) ACETONITRILE	2.065	41	65598	10.00	PPBV		96
18) ACROLEIN	2.100	56	30940	10.00	PPBV		99
19) FREON 123	2.116	83	121214	10.00	PPBV		95
20) FREON 123A	2.132	117	74375	10.00	PPBV		86
21) TRICHLOROFLUOROMETHANE	2.190	101	148677	10.00	PPBV		100
22) ISOPROPYL ALCOHOL	2.206	45	141893	10.00	PPBV	#	95
23) ACETONE	2.139	58	31578	10.00	PPBV	#	21
24) PENTANE	2.299	42	77159	10.00	PPBV	#	93
25) IODOMETHANE	2.357	142	145923	10.00	PPBV	#	84
26) 1,1-DICHLOROETHYLENE	2.383	96	60120	10.00	PPBV	#	57
27) CARBON DISULFIDE	2.521	76	189741	10.00	PPBV	#	88
28) ETHANOL	2.007	45	31409	10.00	PPBV	#	95
29) BROMOETHENE	2.074	106	51820	10.00	PPBV	#	98
30) ACRYLONITRILE	2.270	52	50315	10.00	PPBV		95
31) METHYLENE CHLORIDE	2.422	84	57394	10.00	PPBV	#	53
32) 3-CHLOROPROPENE	2.463	76	30196	10.00	PPBV	#	1
33) FREON 113	2.521	151	109383	10.00	PPBV		91
34) TRANS-1,2-DICHLOROETHENE	2.769	96	67461	10.00	PPBV	#	80
35) TERTIARY BUTYL ALCOHOL	2.396	59	122603	10.00	PPBV	#	96
36) METHYL TERTIARY BUTYL ...	2.888	73	165919	10.00	PPBV	#	92
37) TETRAHYDROFURAN	3.653	72	30407	10.00	PPBV	#	39
38) HEXANE	3.396	57	128093	10.00	PPBV	#	77
39) VINYL ACETATE	2.933	86	15763	10.00	PPBV	#	1
40) 1,1-DICHLOROETHANE	2.852	63	127587	10.00	PPBV		98
41) METHYL ETHYL KETONE	3.036	72	32369	10.00	PPBV	#	1
42) CIS-1,2-DICHLOROETHENE	3.254	96	69388	10.00	PPBV	#	80
43) DIISOPROPYL ETHER	3.396	59	37294	10.00	PPBV	#	48
44) ETHYL ACETATE	3.402	61	25284	10.00	PPBV	#	17
45) METHYL ACRYLATE	3.389	55	160871	10.00	PPBV	#	97
46) CHLOROFORM	3.421	83	144284	10.00	PPBV	#	93
47) 2,4-DIMETHYLPENTANE	3.958	57	149307	10.00	PPBV	#	93
48) 1,1,1-TRICHLOROETHANE	4.045	97	139532	10.00	PPBV	#	93
49) CARBON TETRACHLORIDE	4.505	117	155756	10.00	PPBV		99
50) 1,2-DICHLOROETHANE	3.868	62	108219	10.00	PPBV	#	94
51) BENZENE	4.383	78	206141	10.00	PPBV		79
53) CYCLOHEXANE	4.608	84	89028	10.00	PPBV	#	75
54) 2,3-DIMETHYLPENTANE	4.884	71	47700	10.00	PPBV	#	54
55) TRICHLOROETHENE	5.351	95	95859	10.00	PPBV		97
56) 1,2-DICHLOROPROPANE	5.100	63	87652	10.00	PPBV		97
57) DIBROMOMETHANE	5.058	174	87533	10.00	PPBV		92

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26454.D
Acq On : 19 Oct 2022 10:25 pm
Operator : thomash
Sample : icc1125-10
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 07:46:44 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration

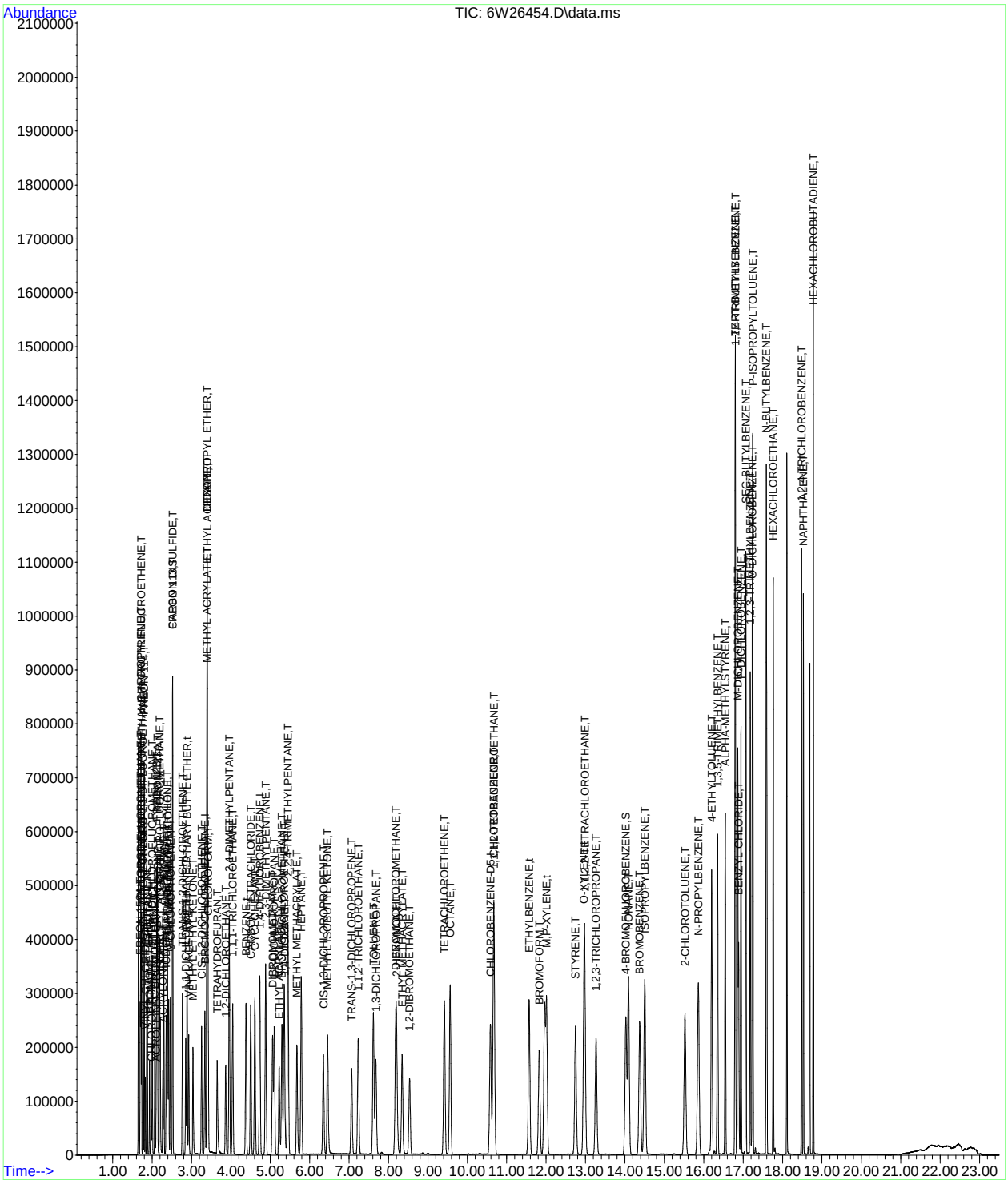
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
58) ETHYL ACRYLATE	5.225	55	189495	10.00	PPBV	#	96
59) BROMODICHLOROMETHANE	5.293	83	160365	10.00	PPBV		98
60) 2,2,4-TRIMETHYLPENTANE	5.447	57	408278	10.00	PPBV	#	98
61) 1,4-DIOXANE	5.364	88	42438	10.00	PPBV	#	79
62) HEPTANE	5.788	43	160426	10.00	PPBV	#	74
63) METHYL METHACRYLATE	5.675	69	78547	10.00	PPBV	#	51
64) METHYL ISOBUTYL KETONE	6.450	58	71179	10.00	PPBV	#	64
65) CIS-1,3-DICHLOROPROPENE	6.351	75	117430	10.00	PPBV	#	72
66) TOLUENE	7.617	91	251686	10.00	PPBV		100
67) 1,3-DICHLOROPROPANE	7.679	76	128382	10.00	PPBV	#	98
68) TRANS-1,3-DICHLOROPROPENE	7.064	75	104079	10.00	PPBV	#	75
69) 1,1,2-TRICHLOROETHANE	7.232	83	76257	10.00	PPBV		98
70) 2-HEXANONE	8.206	58	80744	10.00	PPBV	#	61
71) ETHYL METHACRYLATE	8.344	69	123552	10.00	PPBV	#	68
72) TETRACHLOROETHENE	9.415	164	96515	10.00	PPBV		92
73) DIBROMOCHLOROMETHANE	8.180	129	169421	10.00	PPBV		99
74) 1,2-DIBROMOETHANE	8.534	107	139318	10.00	PPBV		100
75) OCTANE	9.563	43	219399	10.00	PPBV	#	75
77) 1,1,1,2-TETRACHLOROETHANE	10.678	131	115919	10.00	PPBV		97
78) CHLOROBENZENE	10.669	112	209525	10.00	PPBV		100
79) ETHYLBENZENE	11.569	91	335086	10.00	PPBV		100
80) M,P-XYLENE	12.010	91	518412	20.00	PPBV	#	66
81) O-XYLENE	12.961	91	261863	10.00	PPBV		98
82) STYRENE	12.746	104	199893	10.00	PPBV		98
83) NONANE	14.090	43	234816	10.00	PPBV	#	75
84) BROMOFORM	11.826	173	151696	10.00	PPBV	#	97
85) 1,1,2,2-TETRACHLOROETHANE	12.981	83	198246	10.00	PPBV		98
86) 1,2,3-TRICHLOROPROPANE	13.267	75	153573	10.00	PPBV		99
88) ISOPROPYLBENZENE	14.501	105	388762	10.00	PPBV	#	94
89) BROMOBENZENE	14.373	77	187543	10.00	PPBV		97
90) 2-CHLOROTOLUENE	15.524	91	266209	10.00	PPBV		99
91) N-PROPYLBENZENE	15.861	91	458661	10.00	PPBV	#	97
92) 4-ETHYLTOLUENE	16.199	105	389486	10.00	PPBV		100
93) 1,3,5-TRIMETHYLBENZENE	16.350	105	317114	10.00	PPBV		99
94) ALPHA-METHYLSTYRENE	16.546	118	158288	10.00	PPBV		99
95) TERT-BUTYLBENZENE	16.797	119	357976	10.00	PPBV		98
96) 1,2,4-TRIMETHYLBENZENE	16.804	105	332506	10.00	PPBV		96
97) BENZYL CHLORIDE	16.887	91	185883	10.00	PPBV		98
98) M-DICHLOROBENZENE	16.865	146	218815	10.00	PPBV		99
99) P-DICHLOROBENZENE	16.945	146	218232	10.00	PPBV		99
100) O-DICHLOROBENZENE	17.231	146	209883	10.00	PPBV		99
101) SEC-BUTYLBENZENE	17.070	105	488617	10.00	PPBV		99
102) 1,2,3-TRIMETHYLBENZENE	17.180	105	323807	10.00	PPBV		99
103) P-ISOPROPYLTOLUENE	17.244	119	424958	10.00	PPBV		97
104) N-BUTYLBENZENE	17.585	91	389723	10.00	PPBV		98
105) HEXACHLOROETHANE	17.762	117	135061	10.00	PPBV	#	88
106) HEXACHLOROBUTADIENE	18.781	225	147086	10.00	PPBV		100
107) 1,2,4-TRICHLOROBENZENE	18.482	180	170601	10.00	PPBV		98
108) NAPHTHALENE	18.530	128	427473	10.00	PPBV		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26454.D
Acq On : 19 Oct 2022 10:25 pm
Operator : thomash
Sample : icc1125-10
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 07:46:44 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration



Manual Integration Approval Summary

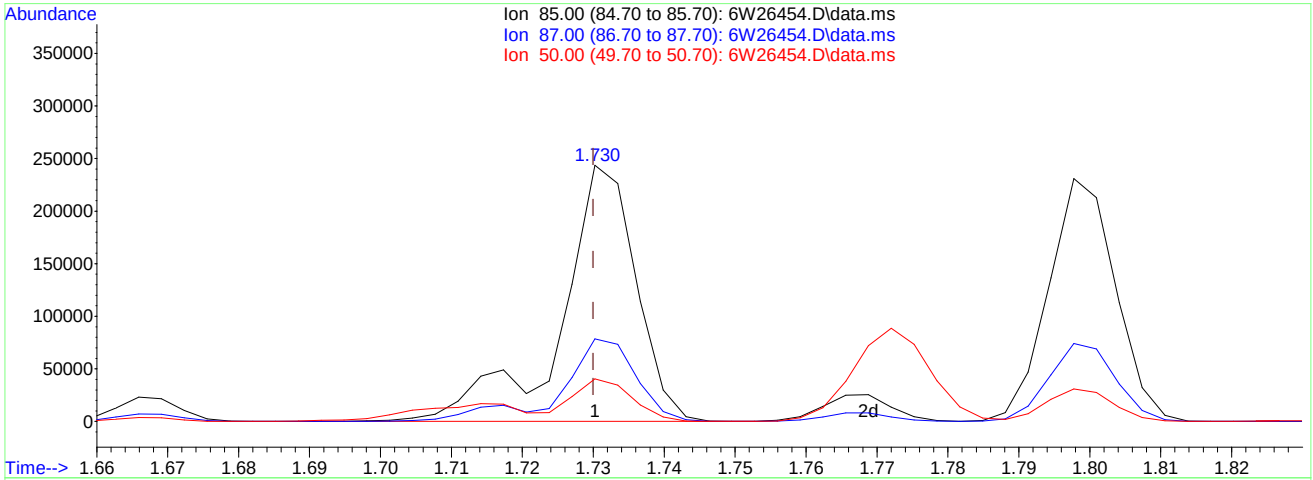
Sample Number:	V6W1125-ICC1125	**Method:**	TO-15
Lab FileID:	6W26454.D	**Analyst approved:**	10/20/22 10:04 Thomas Hilbig
Injection Time:	10/19/22 22:25	**Supervisor approved:**	10/20/22 12:15 Kanya Veerawat

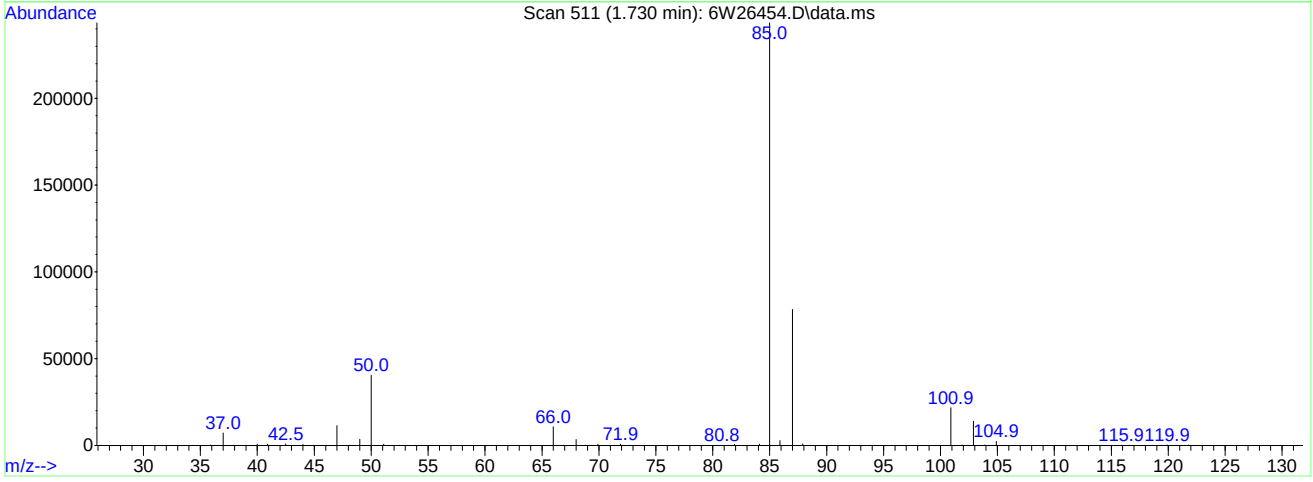
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.73	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26454.D
Acq On : 19 Oct 2022 10:25 pm
Operator : thomash
Sample : icc1125-10
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 07:32:14 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Wed Sep 21 12:48:04 2022
Response via : Initial Calibration





TIC: 6W26454.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.730min (+0.000) 7.75PPBV

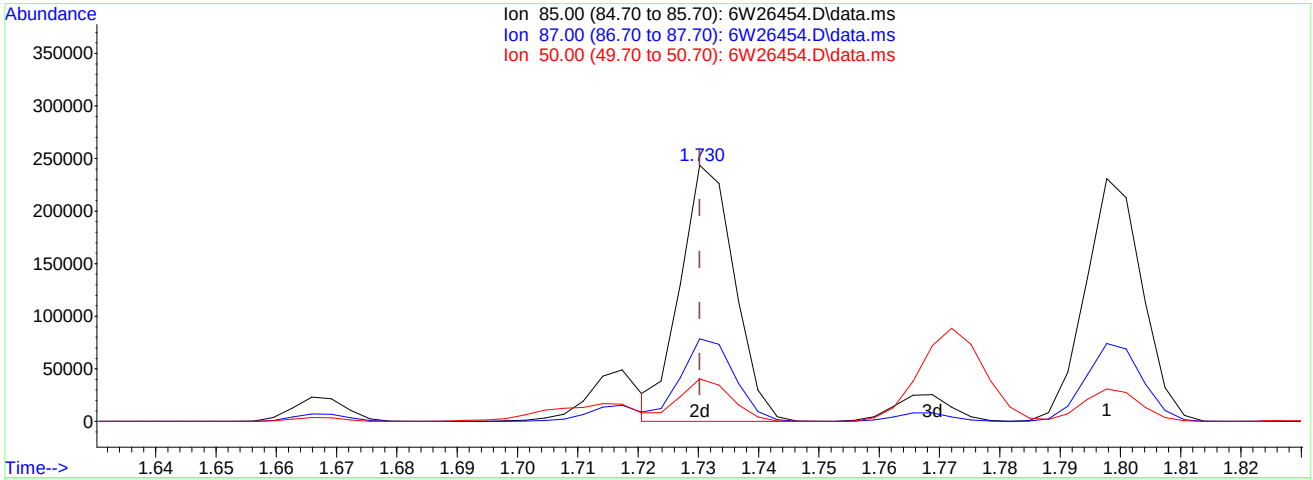
response 181010

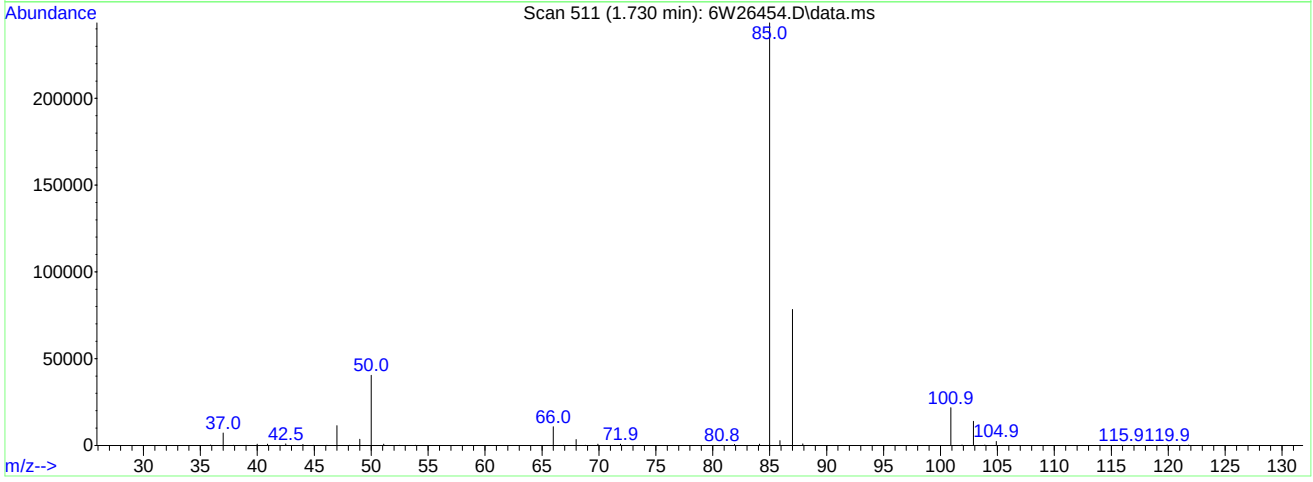
Ion	Exp%	Act%
85.00	100	100
87.00	32.20	32.08
50.00	9.30	23.20#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26454.D
Acq On : 19 Oct 2022 10:25 pm
Operator : thomash
Sample : icc1125-10
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 07:46:44 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration





TIC: 6W26454.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.730min (0.000) 10.00PPBV m

response 152018

Ion	Exp%	Act%
85.00	100	100
87.00	32.20	30.24
50.00	9.30	8.09
0.00	0.00	0.00

6W26455.D

Manual Integrations APPROVED (compounds with "m" flag)

Kanya Veerawat 10/20/22 12:15

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26455.D
Acq On : 19 Oct 2022 10:57 pm
Operator : thomash
Sample : ic1125-20
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 07:48:06 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.341	128	49377	10.00	PPBV	#	0.00
52) 1,4-DIFLUOROBENZENE	4.737	114	249392	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	10.589	117	219656	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	14.026	95	157260	10.12	PPBV		0.00
Target Compounds							Qvalue
3) FREON 152A	1.695	65	81708	20.39	PPBV	#	74
4) CHLORODIFLUOROMETHANE	1.708	67	37113	20.32	PPBV		98
5) CHLOROTRIFLUOROETHENE	1.717	116	179947	20.73	PPBV	#	100
6) DICHLORODIFLUOROMETHANE	1.734	85	300113m	20.08	PPBV		
7) PROPYLENE	1.714	41	123567	20.51	PPBV		97
8) 1-CHLORO-1,1-DIFLUOROE...	1.769	65	278726	20.97	PPBV	#	86
9) FREON 114	1.801	85	313198	20.96	PPBV		97
10) CHLOROMETHANE	1.772	52	41351	20.35	PPBV		92
11) VINYL CHLORIDE	1.830	62	130827	20.96	PPBV		97
12) 1,3-BUTADIENE	1.865	54	108336	21.10	PPBV	#	73
13) N-BUTANE	1.878	43	219713	20.70	PPBV	#	90
14) BROMOMETHANE	1.936	94	101473	20.86	PPBV		99
15) CHLOROETHANE	1.981	64	63936	20.78	PPBV		93
16) DICHLOROFLUOROMETHANE	2.004	67	267942	21.01	PPBV	#	95
17) ACETONITRILE	2.068	41	134828	20.91	PPBV		96
18) ACROLEIN	2.103	56	62598	20.58	PPBV		98
19) FREON 123	2.116	83	253873	21.31	PPBV		95
20) FREON 123A	2.132	117	153590	21.01	PPBV		84
21) TRICHLOROFLUOROMETHANE	2.190	101	307551	21.05	PPBV		100
22) ISOPROPYL ALCOHOL	2.206	45	293937	21.08	PPBV	#	96
23) ACETONE	2.139	58	65338	21.05	PPBV	#	23
24) PENTANE	2.299	42	156002	20.57	PPBV	#	93
25) IODOMETHANE	2.357	142	288300	20.10	PPBV	#	84
26) 1,1-DICHLOROETHYLENE	2.383	96	108698	18.39	PPBV	#	52
27) CARBON DISULFIDE	2.521	76	355957	19.09	PPBV	#	86
28) ETHANOL	2.007	45	65286	21.15	PPBV		96
29) BROMOETHENE	2.074	106	106499	20.91	PPBV	#	98
30) ACRYLONITRILE	2.274	52	101996	20.62	PPBV		95
31) METHYLENE CHLORIDE	2.422	84	99743	17.68	PPBV	#	45
32) 3-CHLOROPROPENE	2.463	76	54273	18.29	PPBV	#	1
33) FREON 113	2.521	151	197048	18.33	PPBV		88
34) TRANS-1,2-DICHLOROETHENE	2.772	96	128675	19.41	PPBV	#	78
35) TERTIARY BUTYL ALCOHOL	2.396	59	254046	21.08	PPBV	#	93
36) METHYL TERTIARY BUTYL ...	2.888	73	342029	20.97	PPBV	#	92
37) TETRAHYDROFURAN	3.653	72	64103	21.45	PPBV	#	43
38) HEXANE	3.396	57	260116	20.66	PPBV	#	77
39) VINYL ACETATE	2.930	86	34002	21.95	PPBV	#	1
40) 1,1-DICHLOROETHANE	2.856	63	252325	20.12	PPBV		99
41) METHYL ETHYL KETONE	3.039	72	66263	20.83	PPBV	#	1
42) CIS-1,2-DICHLOROETHENE	3.258	96	140062	20.54	PPBV	#	80
43) DIISOPROPYL ETHER	3.399	59	76459	20.86	PPBV	#	47
44) ETHYL ACETATE	3.406	61	52127	20.98	PPBV	#	17
45) METHYL ACRYLATE	3.393	55	333930	21.12	PPBV	#	96
46) CHLOROFORM	3.425	83	292725	20.64	PPBV	#	93
47) 2,4-DIMETHYLPENTANE	3.959	57	305149	20.79	PPBV	#	94
48) 1,1,1-TRICHLOROETHANE	4.045	97	286273	20.87	PPBV	#	93
49) CARBON TETRACHLORIDE	4.505	117	317238	20.72	PPBV		99
50) 1,2-DICHLOROETHANE	3.869	62	217638	20.46	PPBV	#	95
51) BENZENE	4.383	78	419451	20.70	PPBV		80
53) CYCLOHEXANE	4.608	84	183360	20.49	PPBV	#	76
54) 2,3-DIMETHYLPENTANE	4.885	71	96958	20.22	PPBV	#	56
55) TRICHLOROETHENE	5.354	95	195262	20.27	PPBV		97
56) 1,2-DICHLOROPROPANE	5.103	63	178229	20.23	PPBV		97
57) DIBROMOMETHANE	5.061	174	178772	20.32	PPBV		93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26455.D
Acq On : 19 Oct 2022 10:57 pm
Operator : thomash
Sample : ic1125-20
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 07:48:06 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration

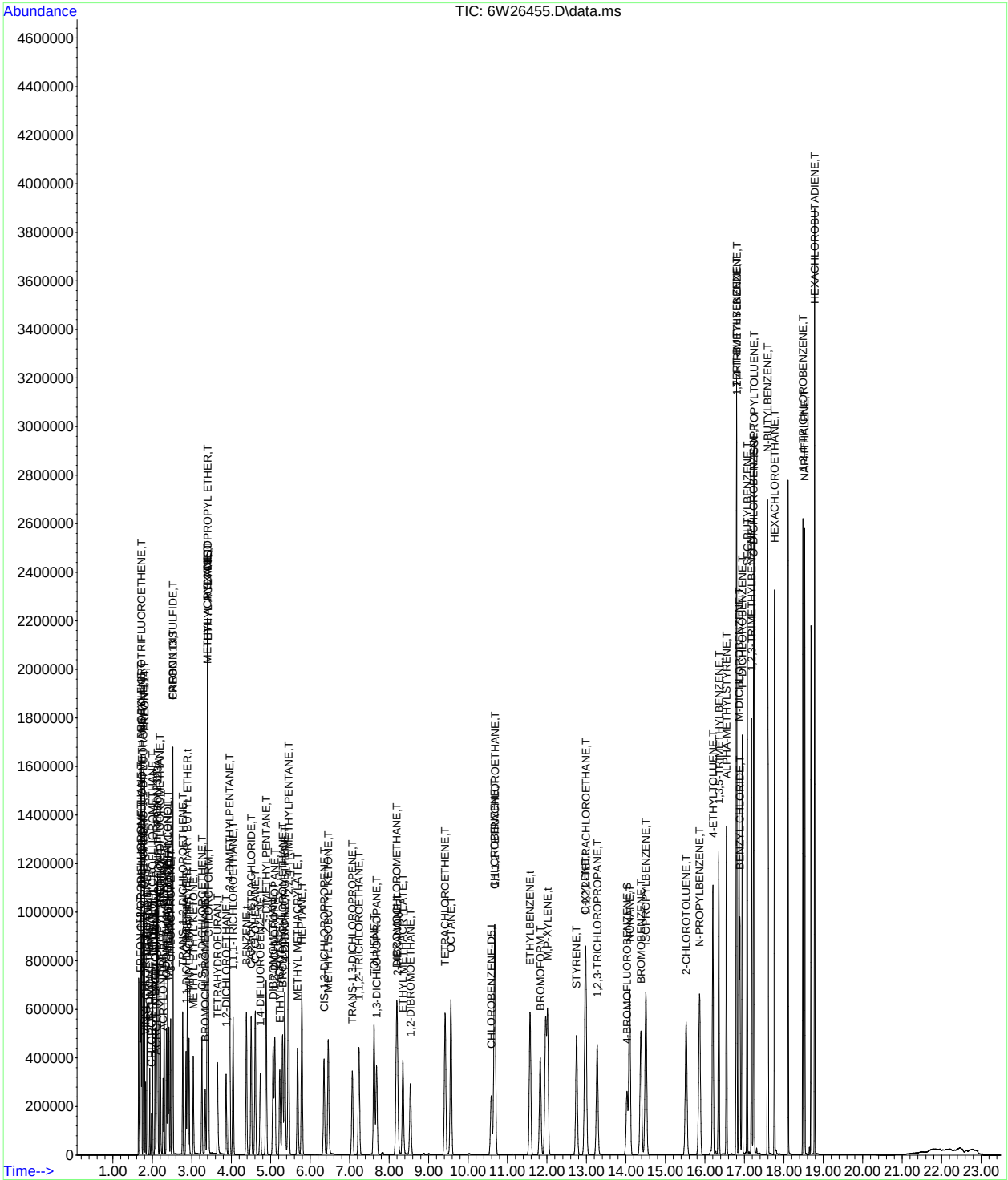
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
58) ETHYL ACRYLATE	5.229	55	400306	21.02	PPBV	#	97
59) BROMODICHLOROMETHANE	5.299	83	324106	20.11	PPBV		98
60) 2,2,4-TRIMETHYLPENTANE	5.450	57	833535	20.31	PPBV	#	99
61) 1,4-DIOXANE	5.364	88	90098	21.12	PPBV	#	78
62) HEPTANE	5.788	43	329247	20.42	PPBV	#	74
63) METHYL METHACRYLATE	5.679	69	164347	20.82	PPBV	#	50
64) METHYL ISOBUTYL KETONE	6.457	58	151905	21.23	PPBV	#	64
65) CIS-1,3-DICHLOROPROPENE	6.351	75	245846	20.83	PPBV	#	73
66) TOLUENE	7.621	91	517544	20.46	PPBV		100
67) 1,3-DICHLOROPROPANE	7.682	76	266301	20.64	PPBV	#	98
68) TRANS-1,3-DICHLOROPROPENE	7.068	75	225877	21.59	PPBV	#	76
69) 1,1,2-TRICHLOROETHANE	7.235	83	155471	20.28	PPBV		98
70) 2-HEXANONE	8.209	58	185953	22.91	PPBV	#	62
71) ETHYL METHACRYLATE	8.347	69	263702	21.24	PPBV	#	68
72) TETRACHLOROETHENE	9.418	164	197298	20.34	PPBV		92
73) DIBROMOCHLOROMETHANE	8.187	129	350108	20.56	PPBV		99
74) 1,2-DIBROMOETHANE	8.540	107	289296	20.66	PPBV		99
75) OCTANE	9.563	43	458487	20.79	PPBV	#	75
77) 1,1,1,2-TETRACHLOROETHANE	10.682	131	238370	20.23	PPBV		97
78) CHLOROBENZENE	10.669	112	433066	20.33	PPBV		99
79) ETHYLBENZENE	11.572	91	699055	20.52	PPBV		100
80) M,P-XYLENE	12.013	91	1079066	40.95	PPBV	#	67
81) O-XYLENE	12.968	91	544844	20.46	PPBV		99
82) STYRENE	12.746	104	421198	20.73	PPBV		98
83) NONANE	14.093	43	482472	20.21	PPBV	#	74
84) BROMOFORM	11.830	173	319790	20.73	PPBV	#	97
85) 1,1,2,2-TETRACHLOROETHANE	12.987	83	406520	20.17	PPBV		98
86) 1,2,3-TRICHLOROPROPANE	13.273	75	318990	20.43	PPBV		99
88) ISOPROPYLBENZENE	14.505	105	810979	20.52	PPBV	#	93
89) BROMOBENZENE	14.379	77	392588	20.59	PPBV		96
90) 2-CHLOROTOLUENE	15.524	91	560685	20.72	PPBV		99
91) N-PROPYLBENZENE	15.865	91	962567	20.64	PPBV	#	97
92) 4-ETHYLTOLUENE	16.206	105	818293	20.66	PPBV		100
93) 1,3,5-TRIMETHYLBENZENE	16.354	105	675844	20.96	PPBV		99
94) ALPHA-METHYLSTYRENE	16.546	118	339449	21.09	PPBV		99
95) TERT-BUTYLBENZENE	16.800	119	759425	20.87	PPBV		98
96) 1,2,4-TRIMETHYLBENZENE	16.807	105	703276	20.80	PPBV		96
97) BENZYL CHLORIDE	16.887	91	451364	23.88	PPBV		98
98) M-DICHLOROBENZENE	16.868	146	464681	20.89	PPBV		99
99) P-DICHLOROBENZENE	16.945	146	464922	20.95	PPBV		99
100) O-DICHLOROBENZENE	17.235	146	450179	21.10	PPBV		99
101) SEC-BUTYLBENZENE	17.074	105	1034528	20.83	PPBV		99
102) 1,2,3-TRIMETHYLBENZENE	17.183	105	688211	20.90	PPBV		99
103) P-ISOPROPYLTOLUENE	17.247	119	899797	20.83	PPBV		97
104) N-BUTYLBENZENE	17.588	91	845271	21.33	PPBV		98
105) HEXACHLOROETHANE	17.765	117	298884	21.77	PPBV	#	89
106) HEXACHLOROBUTADIENE	18.781	225	325753	21.78	PPBV		99
107) 1,2,4-TRICHLOROBENZENE	18.482	180	396784	22.88	PPBV		98
108) NAPHTHALENE	18.530	128	1024136	23.56	PPBV		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26455.D
Acq On : 19 Oct 2022 10:57 pm
Operator : thomash
Sample : ic1125-20
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 07:48:06 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration



Manual Integration Approval Summary

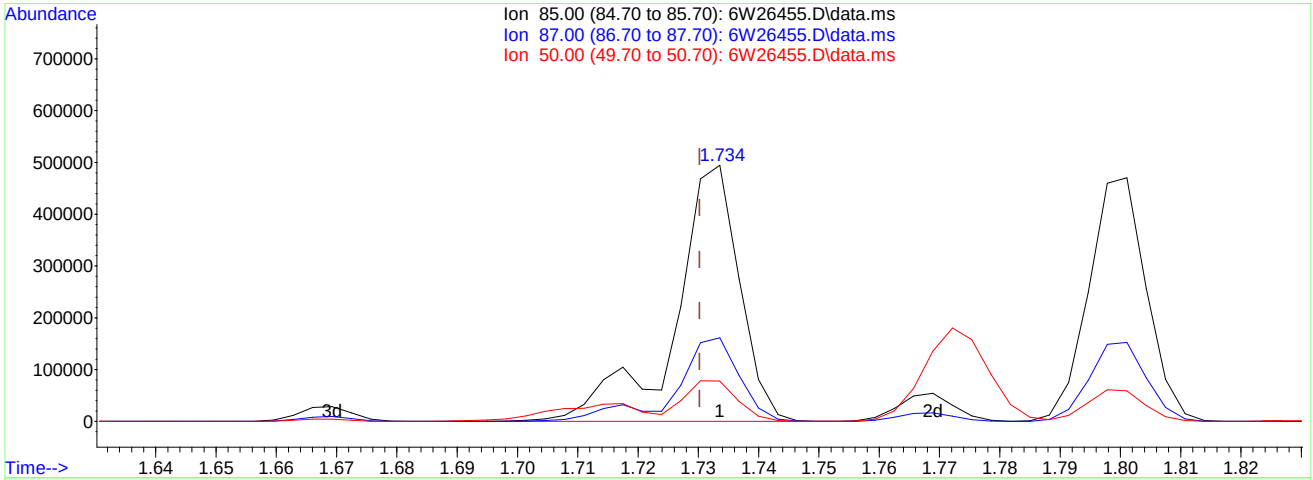
Sample Number: V6W1125-IC1125
Lab FileID: 6W26455.D
Injection Time: 10/19/22 22:57
Method: TO-15
Analyst approved: 10/20/22 10:04 Thomas Hilbig
Supervisor approved: 10/20/22 12:15 Kanya Veerawat

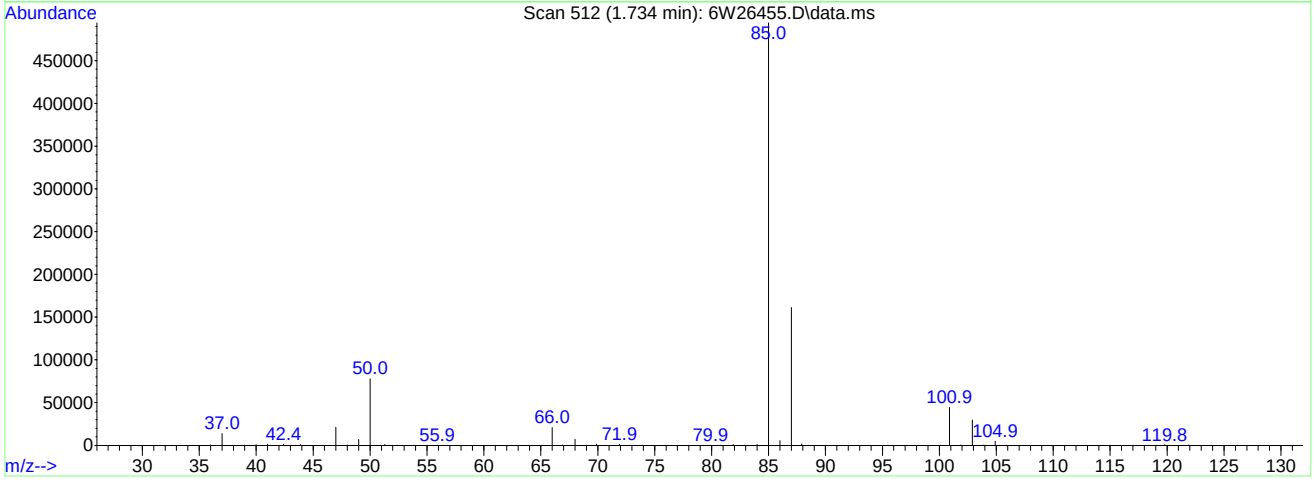
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.73	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26455.D
Acq On : 19 Oct 2022 10:57 pm
Operator : thomash
Sample : ic1125-20
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 07:47:41 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration





TIC: 6W26455.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.734min (+0.003) 24.73PPBV

response 369647

Ion	Exp%	Act%
85.00	100	100
87.00	32.20	32.23
50.00	9.30	22.85#
0.00	0.00	0.00

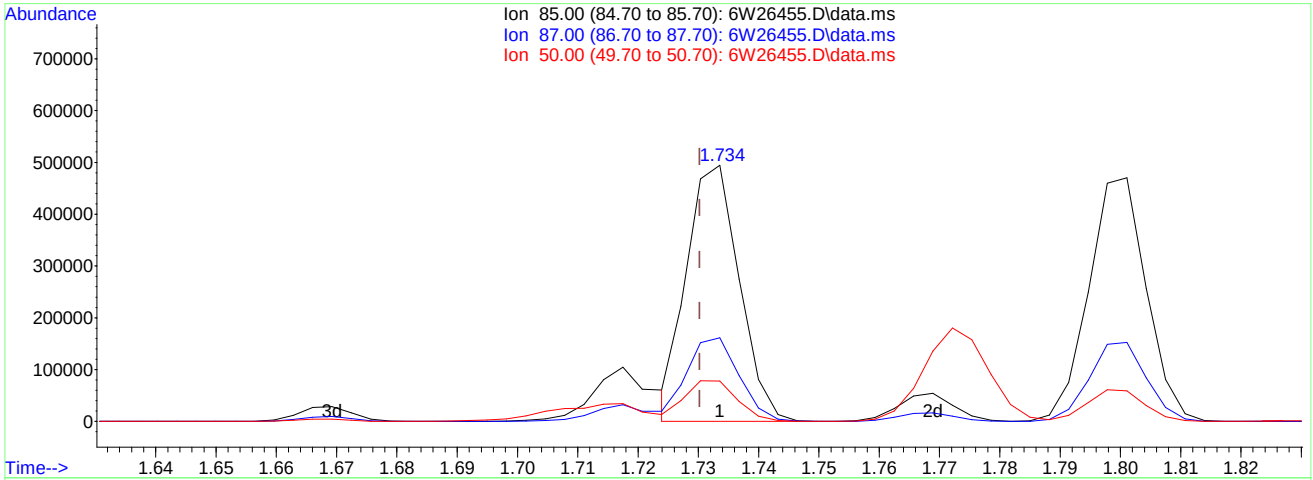
6W26455.D edits: DICHLORODIFLUOROMETHANE

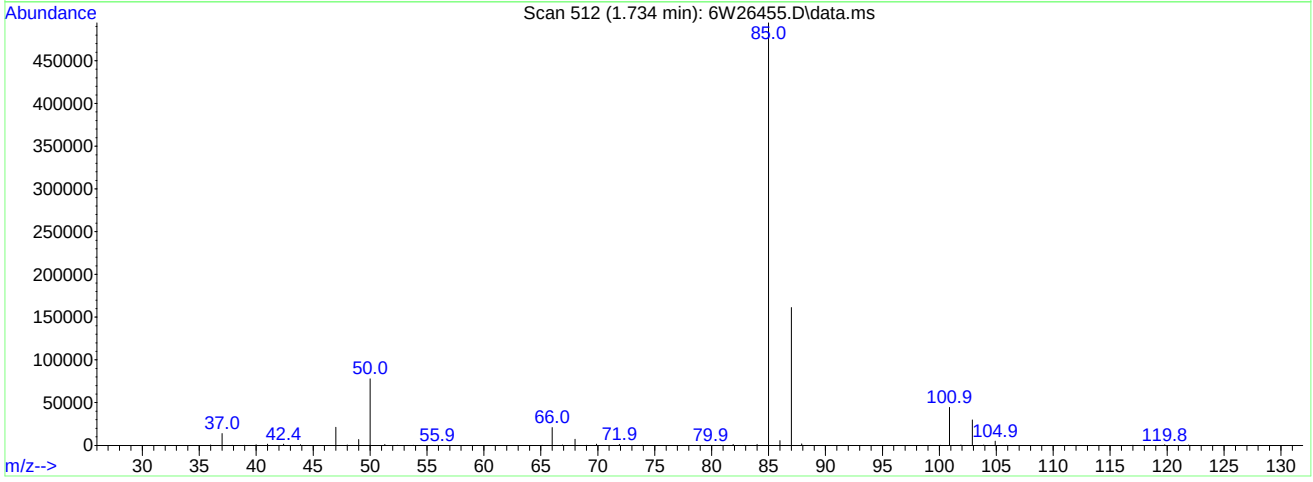
JD54338

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26455.D
Acq On : 19 Oct 2022 10:57 pm
Operator : thomash
Sample : ic1125-20
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 07:47:41 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration





TIC: 6W26455.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.734min (+0.003) 20.08PPBV m

response 300113

Ion	Exp%	Act%
85.00	100	100
87.00	32.20	39.70#
50.00	9.30	28.15#
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 10/20/22 12:15

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26456.D
Acq On : 19 Oct 2022 11:29 pm
Operator : thomash
Sample : ic1125-40
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 07:49:51 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.341	128	46967	10.00	PPBV	#	0.00
52) 1,4-DIFLUOROBENZENE	4.737	114	253136	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	10.589	117	227517	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	14.029	95	161635	10.04	PPBV		0.00
Target Compounds							Qvalue
3) FREON 152A	1.695	65	163961	43.02	PPBV	#	76
4) CHLORODIFLUOROMETHANE	1.705	67	75194	43.27	PPBV		97
5) CHLOROTRIFLUOROETHENE	1.714	116	367249	44.48	PPBV	#	100
6) DICHLORODIFLUOROMETHANE	1.730	85	618919m	43.53	PPBV		
7) PROPYLENE	1.714	41	250115	43.64	PPBV		97
8) 1-CHLORO-1,1-DIFLUOROE...	1.766	65	571824	45.23	PPBV	#	86
9) FREON 114	1.798	85	663817	46.70	PPBV		97
10) CHLOROMETHANE	1.772	52	85767	44.36	PPBV		92
11) VINYL CHLORIDE	1.827	62	262363	44.20	PPBV		97
12) 1,3-BUTADIENE	1.862	54	222248	45.50	PPBV	#	72
13) N-BUTANE	1.878	43	450101	44.59	PPBV	#	90
14) BROMOMETHANE	1.933	94	211773	45.78	PPBV		99
15) CHLOROETHANE	1.978	64	130163	44.48	PPBV		93
16) DICHLOROFLUOROMETHANE	2.000	67	559369	46.11	PPBV	#	95
17) ACETONITRILE	2.065	41	276741	45.12	PPBV		97
18) ACROLEIN	2.100	56	131385	45.42	PPBV		100
19) FREON 123	2.116	83	534859	47.20	PPBV		96
20) FREON 123A	2.129	117	324907	46.73	PPBV		85
21) TRICHLOROFLUOROMETHANE	2.190	101	640519	46.08	PPBV		100
22) ISOPROPYL ALCOHOL	2.203	45	633268	47.74	PPBV	#	97
23) ACETONE	2.136	58	137114	46.44	PPBV	#	25
24) PENTANE	2.296	42	343004	47.55	PPBV	#	94
25) IODOMETHANE	2.354	142	657283	48.18	PPBV	#	85
26) 1,1-DICHLOROETHYLENE	2.383	96	245216	43.63	PPBV	#	53
27) CARBON DISULFIDE	2.518	76	782562	44.11	PPBV	#	88
28) ETHANOL	2.004	45	135376	46.10	PPBV		97
29) BROMOETHENE	2.071	106	222371	45.90	PPBV	#	97
30) ACRYLONITRILE	2.271	52	222964	47.40	PPBV		95
31) METHYLENE CHLORIDE	2.418	84	225128	41.96	PPBV	#	49
32) 3-CHLOROPROPENE	2.460	76	122652	43.45	PPBV	#	1
33) FREON 113	2.518	151	437104	42.74	PPBV		90
34) TRANS-1,2-DICHLOROETHENE	2.769	96	265721	42.13	PPBV	#	77
35) TERTIARY BUTYL ALCOHOL	2.393	59	592362	51.68	PPBV	#	90
36) METHYL TERTIARY BUTYL ...	2.888	73	701685	45.23	PPBV	#	91
37) TETRAHYDROFURAN	3.650	72	132108	46.47	PPBV	#	45
38) HEXANE	3.393	57	521004	43.50	PPBV	#	76
39) VINYL ACETATE	2.930	86	70686	47.96	PPBV	#	1
40) 1,1-DICHLOROETHANE	2.853	63	513148	43.02	PPBV		98
41) METHYL ETHYL KETONE	3.036	72	134598	44.48	PPBV	#	1
42) CIS-1,2-DICHLOROETHENE	3.254	96	270232	41.66	PPBV	#	77
43) DIISOPROPYL ETHER	3.402	59	153829	44.12	PPBV	#	46
44) ETHYL ACETATE	3.409	61	105294	44.54	PPBV	#	16
45) METHYL ACRYLATE	3.393	55	676447	44.98	PPBV	#	97
46) CHLOROFORM	3.425	83	567828	42.09	PPBV	#	93
47) 2,4-DIMETHYLPENTANE	3.955	57	623824	44.69	PPBV	#	94
48) 1,1,1-TRICHLOROETHANE	4.045	97	587783	45.06	PPBV	#	94
49) CARBON TETRACHLORIDE	4.502	117	655252	45.00	PPBV		99
50) 1,2-DICHLOROETHANE	3.869	62	442918	43.78	PPBV	#	94
51) BENZENE	4.383	78	859631	44.60	PPBV		80
53) CYCLOHEXANE	4.605	84	376495	41.45	PPBV	#	75
54) 2,3-DIMETHYLPENTANE	4.881	71	200257	41.15	PPBV	#	57
55) TRICHLOROETHENE	5.357	95	400192	40.92	PPBV		96
56) 1,2-DICHLOROPROPANE	5.103	63	363456	40.65	PPBV		97
57) DIBROMOMETHANE	5.061	174	367548	41.16	PPBV		92

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26456.D
Acq On : 19 Oct 2022 11:29 pm
Operator : thomash
Sample : ic1125-40
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 07:49:51 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration

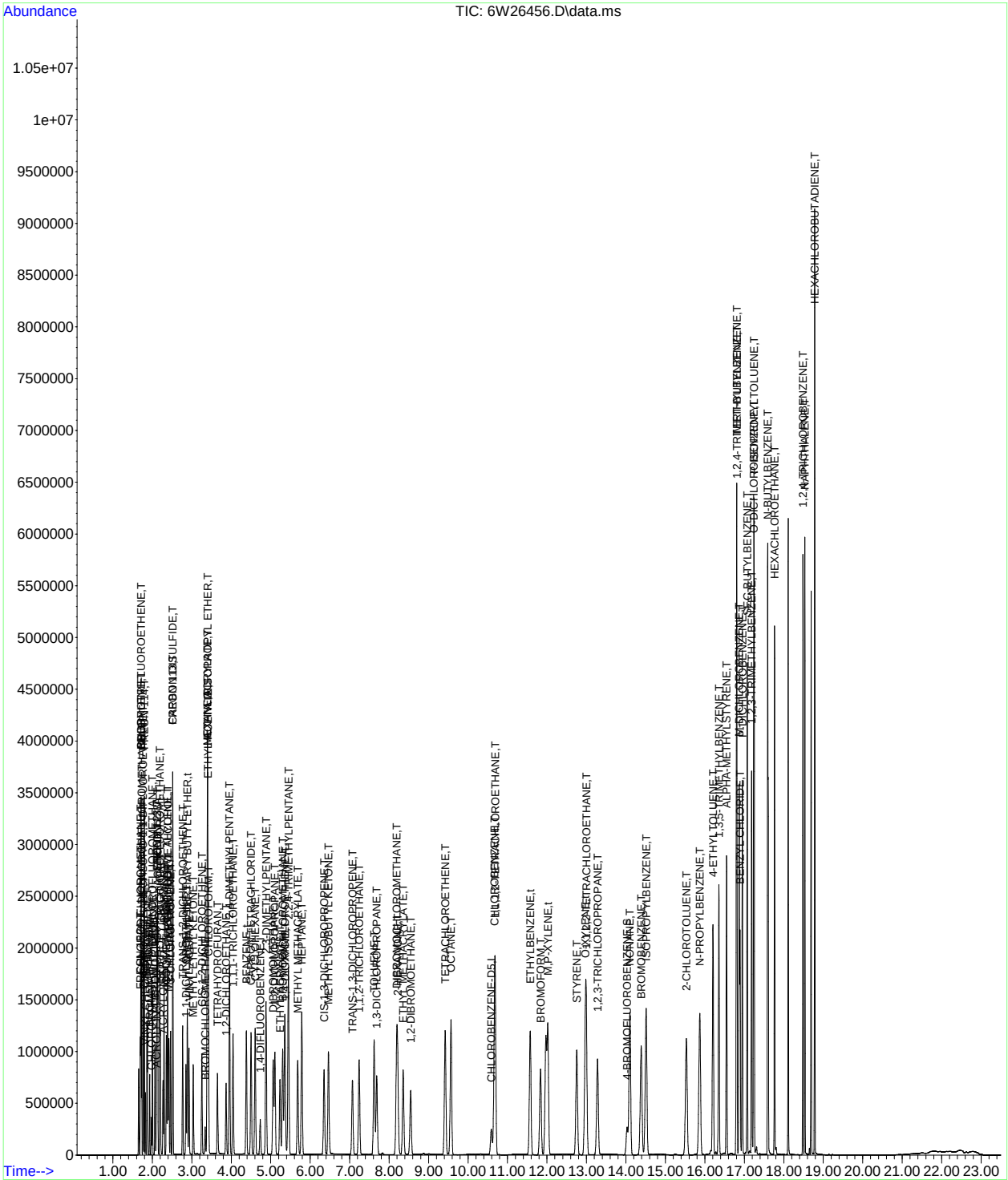
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
58) ETHYL ACRYLATE	5.235	55	849451	43.94	PPBV	#	97
59) BROMODICHLOROMETHANE	5.303	83	668008	40.83	PPBV		99
60) 2,2,4-TRIMETHYLPENTANE	5.450	57	1705560	40.95	PPBV	#	98
61) 1,4-DIOXANE	5.367	88	188728	43.59	PPBV	#	77
62) HEPTANE	5.788	43	674381	41.21	PPBV	#	75
63) METHYL METHACRYLATE	5.682	69	346293	43.22	PPBV	#	51
64) METHYL ISOBUTYL KETONE	6.463	58	315845	43.50	PPBV	#	65
65) CIS-1,3-DICHLOROPROPENE	6.351	75	519377	43.35	PPBV	#	73
66) TOLUENE	7.621	91	1077600	41.97	PPBV		100
67) 1,3-DICHLOROPROPANE	7.688	76	550084	42.00	PPBV	#	98
68) TRANS-1,3-DICHLOROPROPENE	7.071	75	479918	45.20	PPBV	#	76
69) 1,1,2-TRICHLOROETHANE	7.241	83	318639	40.96	PPBV		98
70) 2-HEXANONE	8.216	58	398485	48.38	PPBV	#	64
71) ETHYL METHACRYLATE	8.357	69	553422	43.91	PPBV	#	67
72) TETRACHLOROETHENE	9.421	164	410286	41.67	PPBV		92
73) DIBROMOCHLOROMETHANE	8.190	129	733897	42.46	PPBV		99
74) 1,2-DIBROMOETHANE	8.547	107	600655	42.26	PPBV		99
75) OCTANE	9.566	43	941590	42.07	PPBV	#	75
77) 1,1,1,2-TETRACHLOROETHANE	10.688	131	498844	40.87	PPBV		98
78) CHLOROBENZENE	10.672	112	897241	40.66	PPBV		99
79) ETHYLBENZENE	11.576	91	1454202	41.21	PPBV		100
80) M,P-XYLENE	12.019	91	2235018	81.88	PPBV	#	67
81) O-XYLENE	12.971	91	1128138	40.91	PPBV		99
82) STYRENE	12.756	104	879675	41.79	PPBV		98
83) NONANE	14.100	43	989572	40.02	PPBV	#	74
84) BROMOFORM	11.839	173	669992	41.94	PPBV	#	97
85) 1,1,2,2-TETRACHLOROETHANE	12.997	83	842134	40.34	PPBV		98
86) 1,2,3-TRICHLOROPROPANE	13.280	75	658833	40.74	PPBV		99
88) ISOPROPYLBENZENE	14.511	105	1682867	41.11	PPBV	#	93
89) BROMOBENZENE	14.386	77	812725	41.15	PPBV		97
90) 2-CHLOROTOLUENE	15.530	91	1171885	41.80	PPBV		98
91) N-PROPYLBENZENE	15.871	91	2011221	41.64	PPBV	#	97
92) 4-ETHYLTOLUENE	16.206	105	1721193	41.96	PPBV		99
93) 1,3,5-TRIMETHYLBENZENE	16.357	105	1431579	42.87	PPBV		99
94) ALPHA-METHYLSTYRENE	16.550	118	719858	43.19	PPBV		99
95) TERT-BUTYLBENZENE	16.807	119	1606964	42.63	PPBV		98
96) 1,2,4-TRIMETHYLBENZENE	16.810	105	1495113	42.70	PPBV		96
97) BENZYL CHLORIDE	16.894	91	1052168	53.75	PPBV		98
98) M-DICHLOROBENZENE	16.871	146	982044	42.62	PPBV		99
99) P-DICHLOROBENZENE	16.952	146	997166	43.39	PPBV		99
100) O-DICHLOROBENZENE	17.238	146	962371	43.54	PPBV		99
101) SEC-BUTYLBENZENE	17.074	105	2164365	42.06	PPBV		99
102) 1,2,3-TRIMETHYLBENZENE	17.183	105	1452418	42.59	PPBV		100
103) P-ISOPROPYLTOLUENE	17.247	119	1915158	42.80	PPBV		97
104) N-BUTYLBENZENE	17.588	91	1807256	44.04	PPBV		98
105) HEXACHLOROETHANE	17.765	117	650411	45.74	PPBV	#	89
106) HEXACHLOROBUTADIENE	18.784	225	757147	48.88	PPBV		99
107) 1,2,4-TRICHLOROBENZENE	18.485	180	922193	51.33	PPBV		97
108) NAPHTHALENE	18.534	128	2419856	53.76	PPBV		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26456.D
Acq On : 19 Oct 2022 11:29 pm
Operator : thomash
Sample : ic1125-40
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 07:49:51 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration



Manual Integration Approval Summary

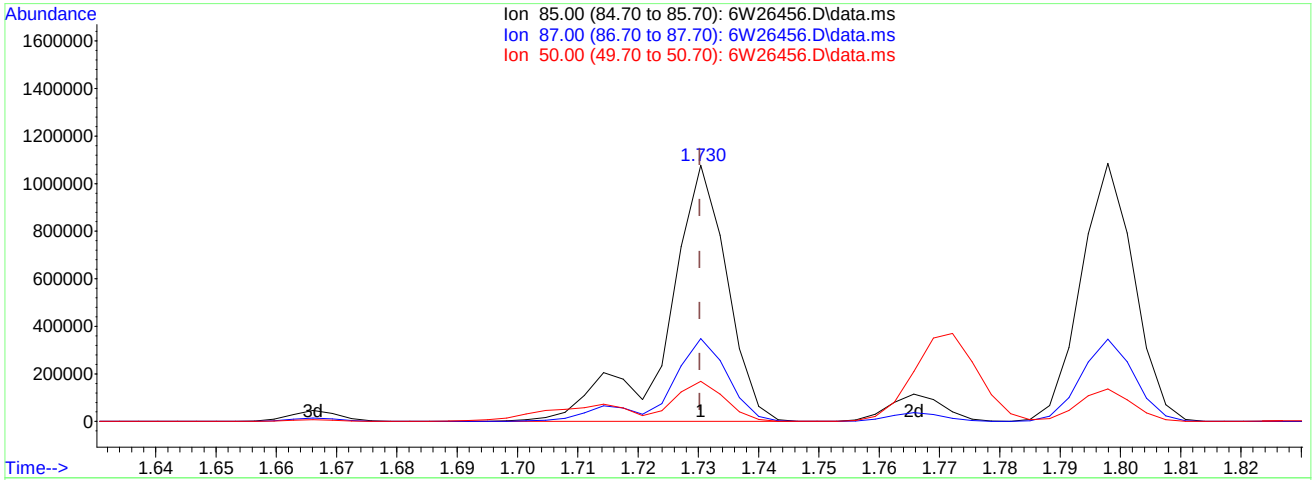
Sample Number:	V6W1125-IC1125	**Method:**	TO-15
Lab FileID:	6W26456.D	**Analyst approved:**	10/20/22 10:04 Thomas Hilbig
Injection Time:	10/19/22 23:29	**Supervisor approved:**	10/20/22 12:15 Kanya Veerawat

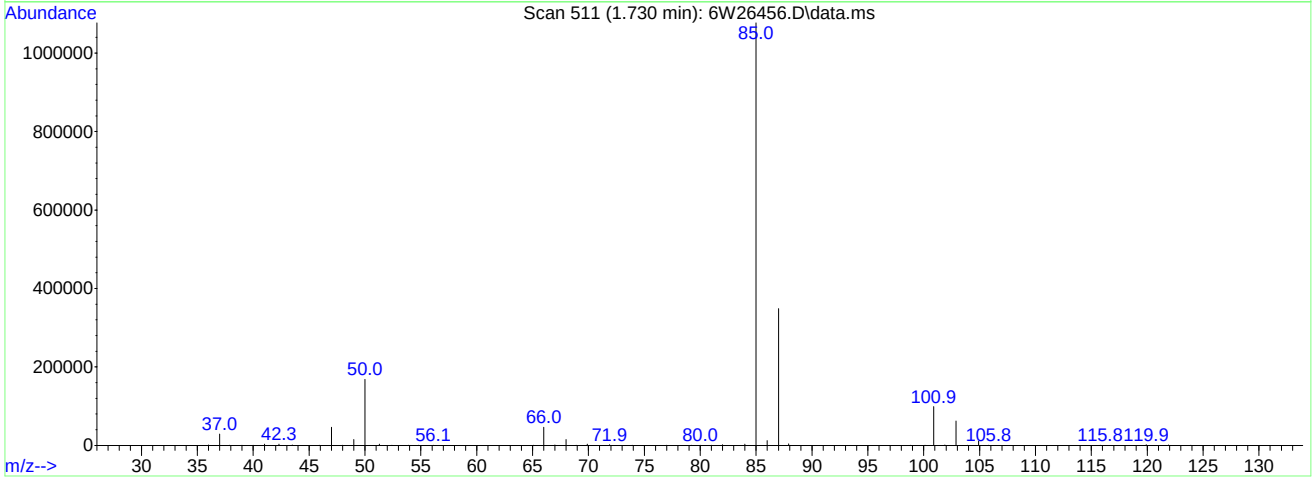
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.73	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26456.D
Acq On : 19 Oct 2022 11:29 pm
Operator : thomash
Sample : ic1125-40
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 07:49:29 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration





TIC: 6W26456.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.730min (+0.000) 52.36PPBV

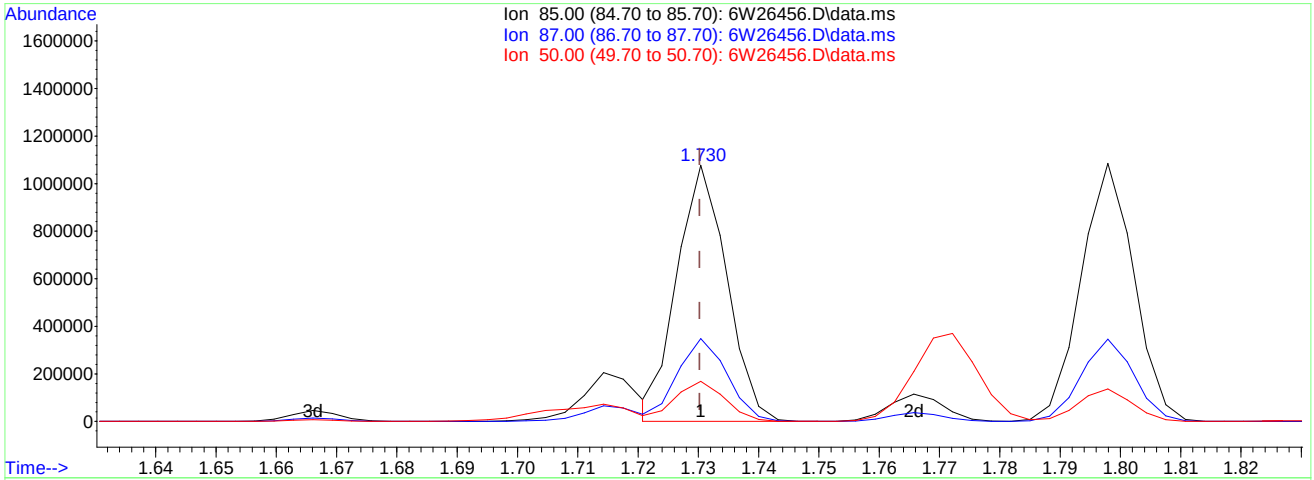
response 744497

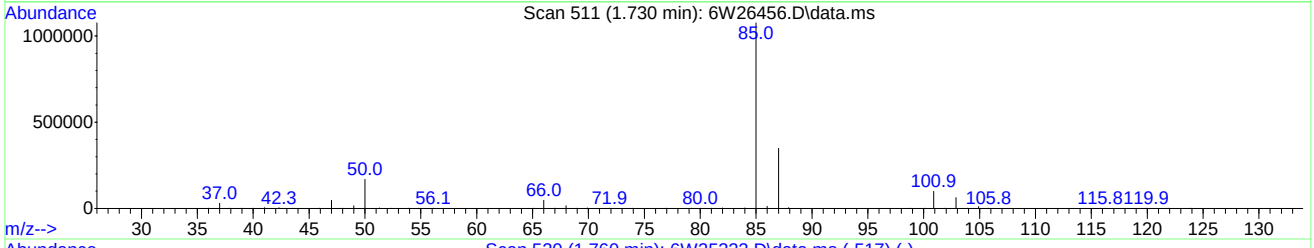
Ion	Exp%	Act%
85.00	100	100
87.00	32.20	32.34
50.00	9.30	22.51#
0.00	0.00	0.00

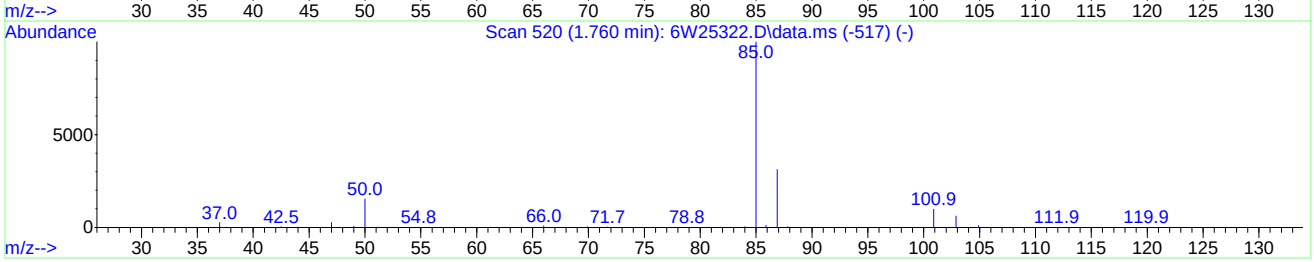
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26456.D
Acq On : 19 Oct 2022 11:29 pm
Operator : thomash
Sample : ic1125-40
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 07:49:29 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration







TIC: 6W26456.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.730min (+0.000) 43.53PPBV m

response 618919

Ion	Exp%	Act%
85.00	100	100
87.00	32.20	38.90#
50.00	9.30	27.07#
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 10/20/22 12:15

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26457.D
Acq On : 20 Oct 2022 12:03 am
Operator : thomash
Sample : ic1125-50
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 07:53:45 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.341	128	49484	10.00	PPBV	#	0.00
52) 1,4-DIFLUOROBENZENE	4.737	114	256894	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	10.588	117	229830	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	14.032	95	164056	10.09	PPBV		0.01
Target Compounds							Qvalue
3) FREON 152A	1.695	65	205752	51.24	PPBV	#	76
4) CHLORODIFLUOROMETHANE	1.705	67	95178	51.99	PPBV		98
5) CHLOROTRIFLUOROETHENE	1.714	116	465990	53.57	PPBV	#	100
6) DICHLORODIFLUOROMETHANE	1.730	85	760993m	50.80	PPBV		
7) PROPYLENE	1.714	41	310615	51.44	PPBV		97
8) 1-CHLORO-1,1-DIFLUOROE...	1.766	65	744693	55.90	PPBV	#	86
9) FREON 114	1.798	85	863921	57.69	PPBV		98
10) CHLOROMETHANE	1.772	52	110393	54.20	PPBV		92
11) VINYL CHLORIDE	1.827	62	335776	53.69	PPBV		98
12) 1,3-BUTADIENE	1.862	54	289612	56.28	PPBV	#	74
13) N-BUTANE	1.878	43	575553	54.12	PPBV	#	91
14) BROMOMETHANE	1.933	94	271714	55.75	PPBV		100
15) CHLOROETHANE	1.978	64	167979	54.48	PPBV		94
16) DICHLOROFLUOROMETHANE	2.000	67	726431	56.83	PPBV	#	95
17) ACETONITRILE	2.065	41	351071	54.33	PPBV		97
18) ACROLEIN	2.100	56	167398	54.93	PPBV		98
19) FREON 123	2.113	83	697138	58.39	PPBV		95
20) FREON 123A	2.129	117	423251	57.77	PPBV		85
21) TRICHLOROFLUOROMETHANE	2.190	101	828916	56.60	PPBV		100
22) ISOPROPYL ALCOHOL	2.203	45	815195	58.32	PPBV	#	99
23) ACETONE	2.135	58	176460	56.73	PPBV	#	26
24) PENTANE	2.296	42	408771	53.78	PPBV	#	94
25) IODOMETHANE	2.354	142	787579	54.79	PPBV	#	83
26) 1,1-DICHLOROETHYLENE	2.383	96	299957	50.65	PPBV	#	53
27) CARBON DISULFIDE	2.518	76	989379	52.94	PPBV	#	88
28) ETHANOL	2.004	45	173809	56.18	PPBV	#	97
29) BROMOETHENE	2.071	106	286147	56.06	PPBV	#	98
30) ACRYLONITRILE	2.270	52	270180	54.51	PPBV		95
31) METHYLENE CHLORIDE	2.418	84	265469	46.96	PPBV	#	47
32) 3-CHLOROPROPENE	2.463	76	146926	49.40	PPBV	#	1
33) FREON 113	2.518	151	546341	50.71	PPBV		88
34) TRANS-1,2-DICHLOROETHENE	2.769	96	344381	51.82	PPBV	#	78
35) TERTIARY BUTYL ALCOHOL	2.393	59	737234	61.05	PPBV	#	89
36) METHYL TERTIARY BUTYL ...	2.888	73	925978	56.66	PPBV	#	91
37) TETRAHYDROFURAN	3.650	72	166673	55.65	PPBV	#	39
38) HEXANE	3.393	57	678018	53.74	PPBV	#	77
39) VINYL ACETATE	2.930	86	92754	59.74	PPBV	#	1
40) 1,1-DICHLOROETHANE	2.852	63	664396	52.87	PPBV		98
41) METHYL ETHYL KETONE	3.036	72	172738	54.18	PPBV	#	1
42) CIS-1,2-DICHLOROETHENE	3.254	96	353037	51.65	PPBV	#	78
43) DIISOPROPYL ETHER	3.402	59	200034	54.45	PPBV	#	51
44) ETHYL ACETATE	3.409	61	136714	54.89	PPBV	#	22
45) METHYL ACRYLATE	3.393	55	875745	55.26	PPBV	#	97
46) CHLOROFORM	3.425	83	738319	51.95	PPBV	#	93
47) 2,4-DIMETHYLPENTANE	3.955	57	767338	52.17	PPBV	#	93
48) 1,1,1-TRICHLOROETHANE	4.045	97	750699	54.62	PPBV	#	94
49) CARBON TETRACHLORIDE	4.502	117	837332	54.58	PPBV		99
50) 1,2-DICHLOROETHANE	3.868	62	563096	52.82	PPBV	#	94
51) BENZENE	4.383	78	1103884	54.36	PPBV		80
53) CYCLOHEXANE	4.605	84	480631	52.14	PPBV	#	75
54) 2,3-DIMETHYLPENTANE	4.881	71	257103	52.06	PPBV	#	57
55) TRICHLOROETHENE	5.354	95	514119	51.80	PPBV		97
56) 1,2-DICHLOROPROPANE	5.106	63	468131	51.59	PPBV		97
57) DIBROMOMETHANE	5.061	174	472796	52.17	PPBV		93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26457.D
Acq On : 20 Oct 2022 12:03 am
Operator : thomash
Sample : ic1125-50
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 07:53:45 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration

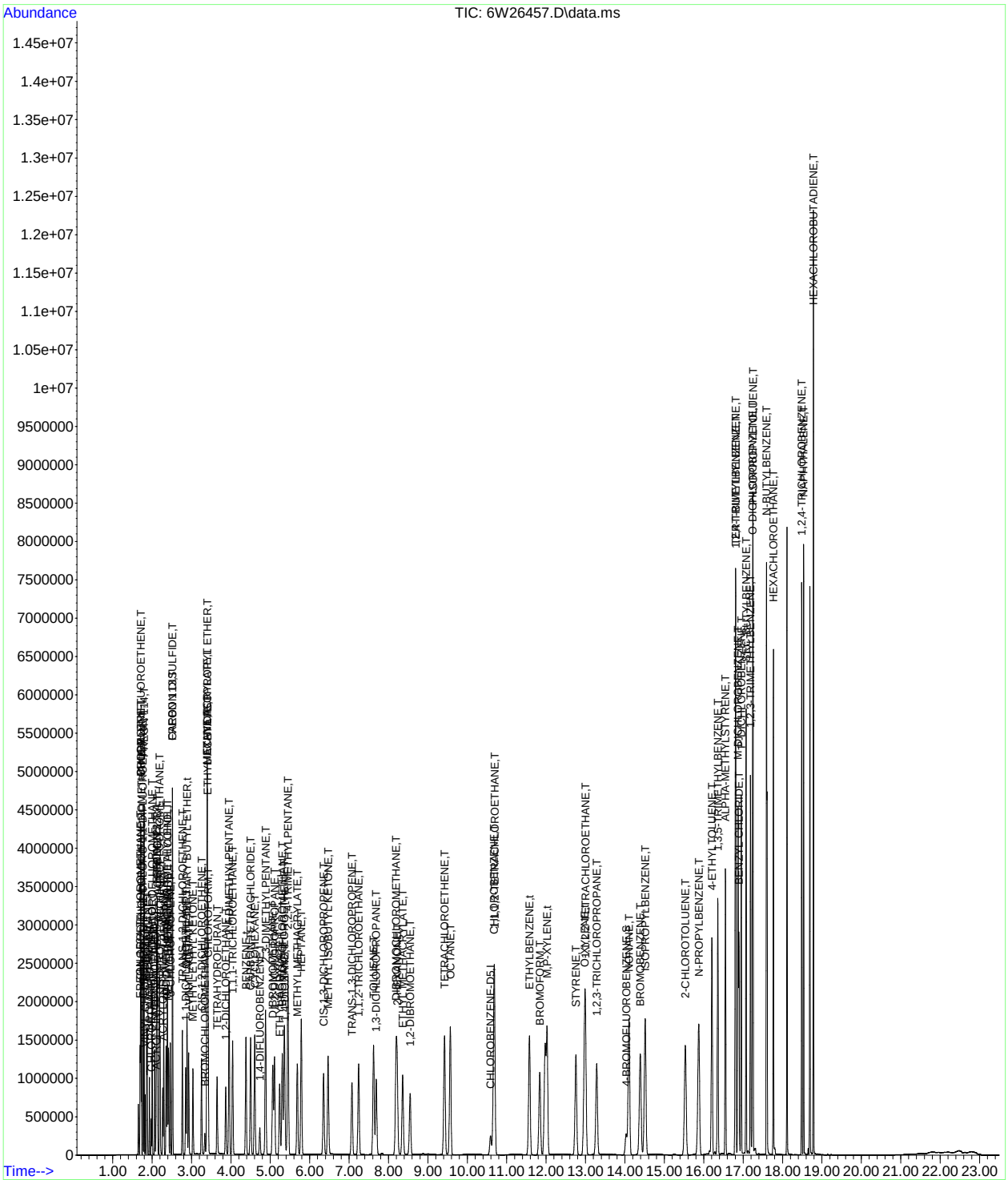
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
58) ETHYL ACRYLATE	5.238	55	1098830	56.01	PPBV	#	97
59) BROMODICHLOROMETHANE	5.303	83	855768	51.54	PPBV		98
60) 2,2,4-TRIMETHYLPENTANE	5.447	57	2189480	51.80	PPBV	#	98
61) 1,4-DIOXANE	5.370	88	248097	56.47	PPBV	#	77
62) HEPTANE	5.785	43	867169	52.21	PPBV	#	75
63) METHYL METHACRYLATE	5.685	69	447804	55.07	PPBV	#	51
64) METHYL ISOBUTYL KETONE	6.466	58	410011	55.64	PPBV	#	65
65) CIS-1,3-DICHLOROPROPENE	6.354	75	670342	55.14	PPBV	#	73
66) TOLUENE	7.621	91	1390715	53.37	PPBV		100
67) 1,3-DICHLOROPROPANE	7.688	76	707445	53.22	PPBV	#	98
68) TRANS-1,3-DICHLOROPROPENE	7.071	75	625674	58.06	PPBV	#	76
69) 1,1,2-TRICHLOROETHANE	7.245	83	410658	52.01	PPBV		98
70) 2-HEXANONE	8.219	58	526885	63.03	PPBV	#	65
71) ETHYL METHACRYLATE	8.360	69	721957	56.44	PPBV	#	68
72) TETRACHLOROETHENE	9.421	164	529858	53.03	PPBV		92
73) DIBROMOCHLOROMETHANE	8.190	129	945732	53.92	PPBV		99
74) 1,2-DIBROMOETHANE	8.550	107	775972	53.80	PPBV		99
75) OCTANE	9.569	43	1205638	53.08	PPBV	#	75
77) 1,1,1,2-TETRACHLOROETHANE	10.691	131	643742	52.20	PPBV		98
78) CHLOROBENZENE	10.675	112	1159394	52.02	PPBV		100
79) ETHYLBENZENE	11.579	91	1876315	52.64	PPBV		100
80) M,P-XYLENE	12.023	91	2892477m	104.90	PPBV		
81) O-XYLENE	12.974	91	1453541	52.18	PPBV		97
82) STYRENE	12.756	104	1132584	53.26	PPBV		98
83) NONANE	14.106	43	1260959	50.48	PPBV	#	74
84) BROMOFORM	11.839	173	872403	54.06	PPBV	#	97
85) 1,1,2,2-TETRACHLOROETHANE	13.000	83	1084180	51.41	PPBV		98
86) 1,2,3-TRICHLOROPROPANE	13.286	75	848963	51.97	PPBV		99
88) ISOPROPYLBENZENE	14.514	105	2159991	52.23	PPBV	#	93
89) BROMOBENZENE	14.389	77	1045006	52.38	PPBV		97
90) 2-CHLOROTOLUENE	15.534	91	1501344	53.02	PPBV		98
91) N-PROPYLBENZENE	15.874	91	2595777	53.20	PPBV	#	97
92) 4-ETHYLTOLUENE	16.209	105	2206279	53.25	PPBV		99
93) 1,3,5-TRIMETHYLBENZENE	16.357	105	1852741	54.92	PPBV		99
94) ALPHA-METHYLSTYRENE	16.550	118	926148	55.00	PPBV		99
95) TERT-BUTYLBENZENE	16.807	119	2065662	54.24	PPBV		98
96) 1,2,4-TRIMETHYLBENZENE	16.813	105	1925116	54.43	PPBV		96
97) BENZYL CHLORIDE	16.894	91	1425408	72.09	PPBV		98
98) M-DICHLOROBENZENE	16.871	146	1271661	54.63	PPBV		99
99) P-DICHLOROBENZENE	16.952	146	1306388	56.27	PPBV		99
100) O-DICHLOROBENZENE	17.241	146	1267285	56.76	PPBV		99
101) SEC-BUTYLBENZENE	17.077	105	2815719	54.17	PPBV		99
102) 1,2,3-TRIMETHYLBENZENE	17.186	105	1878817	54.54	PPBV		99
103) P-ISOPROPYLTOLUENE	17.251	119	2494674	55.18	PPBV		96
104) N-BUTYLBENZENE	17.591	91	2362429	56.98	PPBV		98
105) HEXACHLOROETHANE	17.768	117	851741	59.29	PPBV	#	90
106) HEXACHLOROBUTADIENE	18.784	225	1049841	67.10	PPBV		99
107) 1,2,4-TRICHLOROBENZENE	18.485	180	1229650	67.76	PPBV		97
108) NAPHTHALENE	18.534	128	3251100	71.49	PPBV		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26457.D
Acq On : 20 Oct 2022 12:03 am
Operator : thomash
Sample : ic1125-50
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 07:53:45 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration



Manual Integration Approval Summary

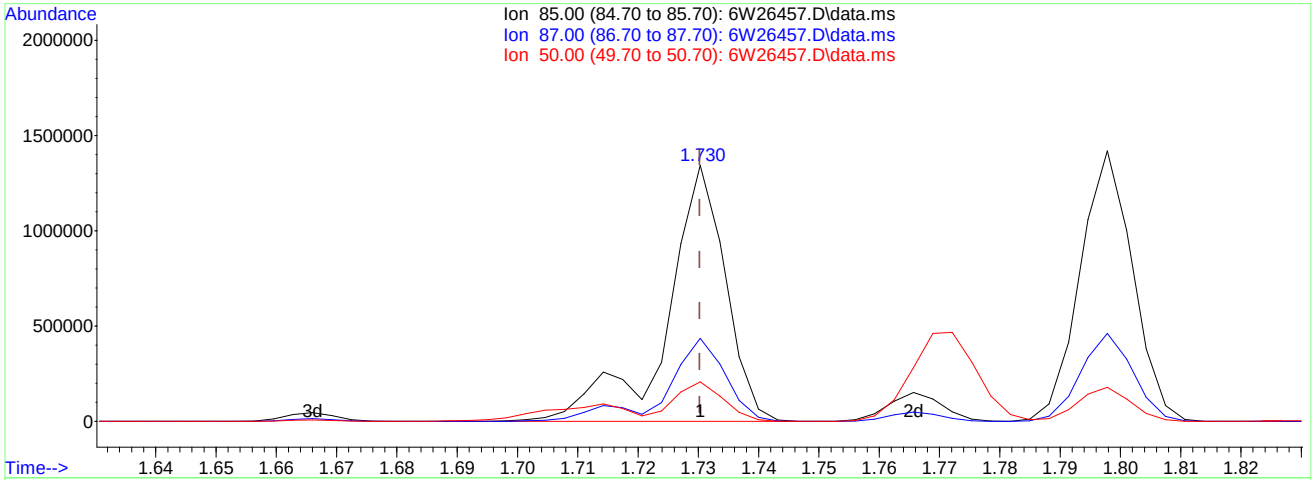
Sample Number:	V6W1125-IC1125	**Method:**	TO-15
Lab FileID:	6W26457.D	**Analyst approved:**	10/20/22 10:04 Thomas Hilbig
Injection Time:	10/20/22 00:03	**Supervisor approved:**	10/20/22 12:15 Kanya Veerawat

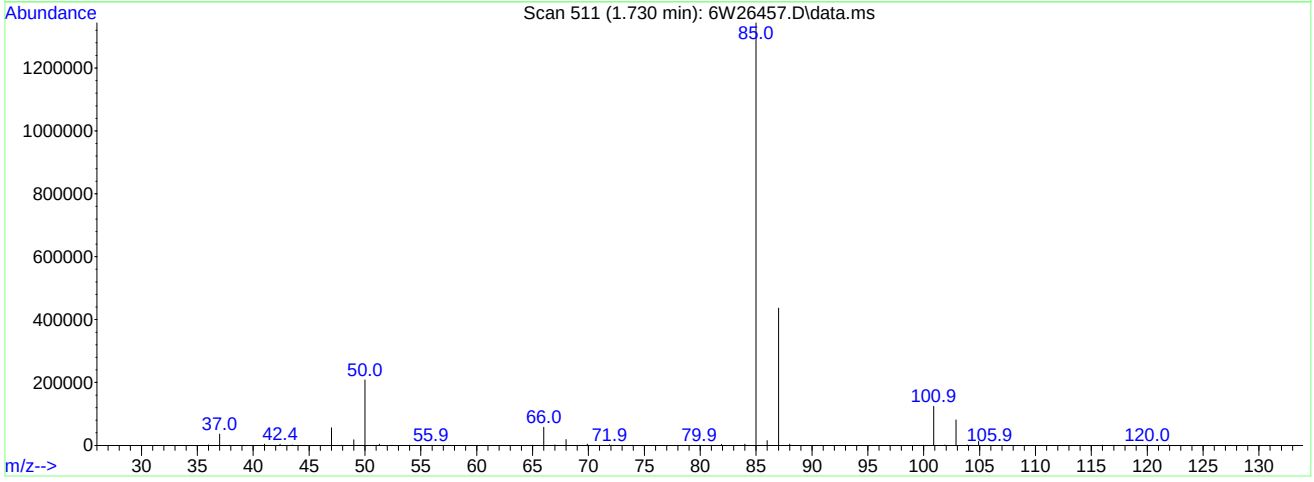
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.73	Overlapping peak
m,p-Xylene			12.02	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26457.D
Acq On : 20 Oct 2022 12:03 am
Operator : thomash
Sample : ic1125-50
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 07:51:22 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration





TIC: 6W26457.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.730min (+0.000) 61.45PPBV

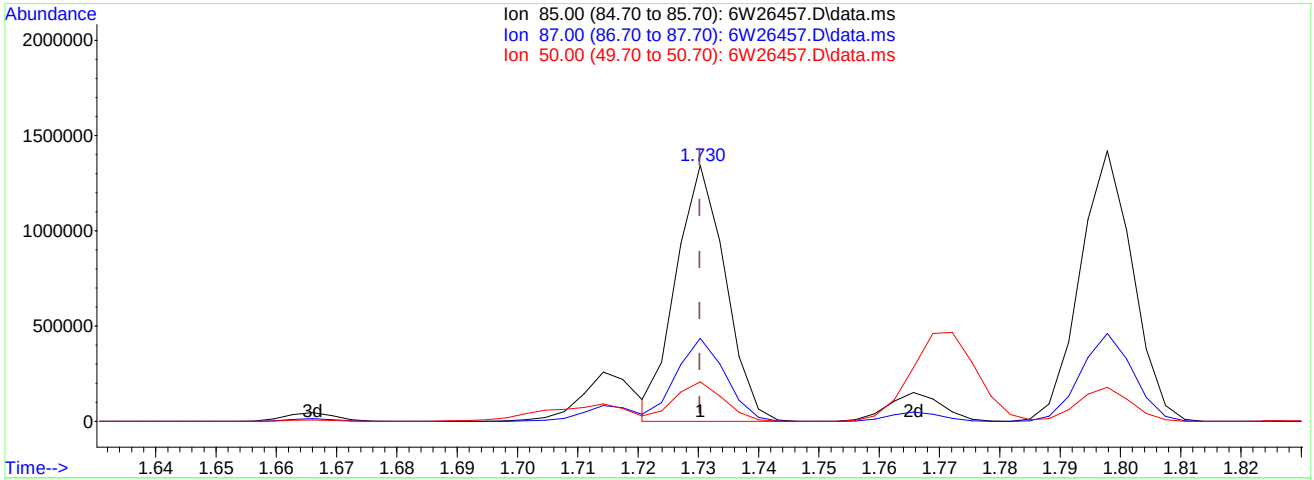
response 920555

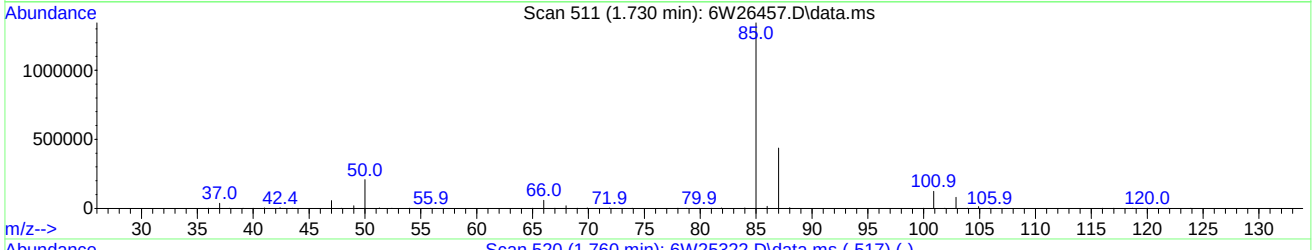
Ion	Exp%	Act%
85.00	100	100
87.00	32.20	32.24
50.00	9.30	22.41#
0.00	0.00	0.00

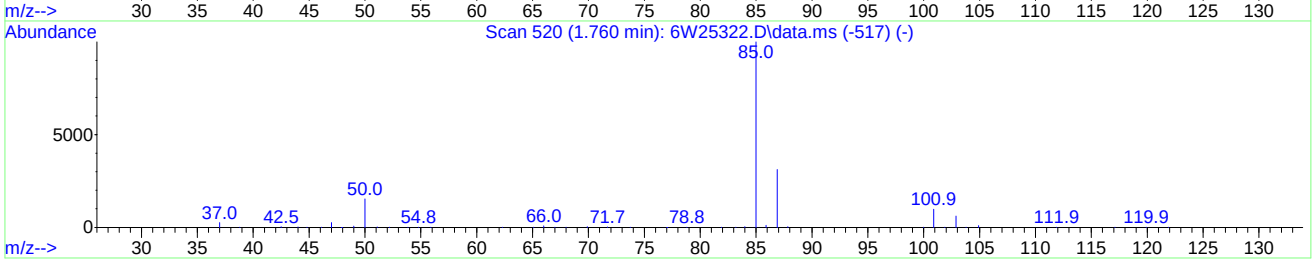
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26457.D
Acq On : 20 Oct 2022 12:03 am
Operator : thomash
Sample : ic1125-50
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 07:51:22 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration







TIC: 6W26457.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.730min (+0.000) 50.80PPBV m

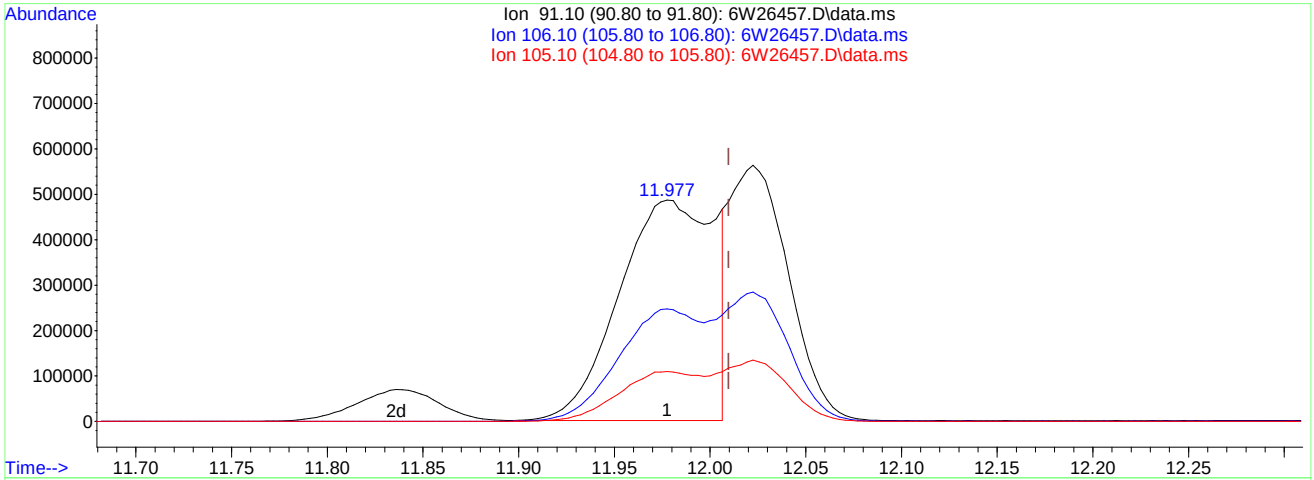
response 760993

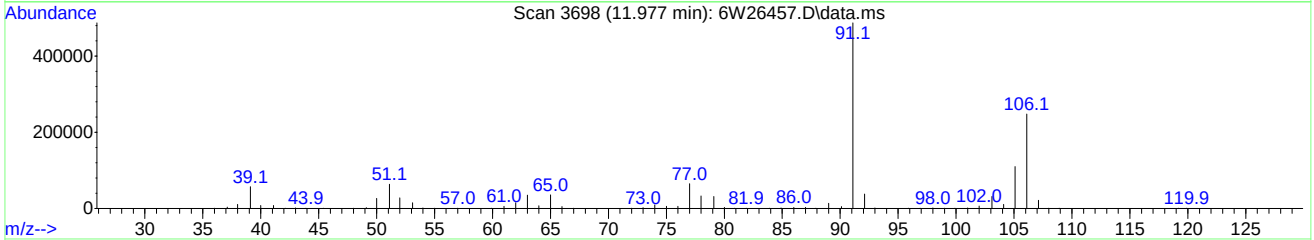
Ion	Exp%	Act%
85.00	100	100
87.00	32.20	39.00#
50.00	9.30	27.11#
0.00	0.00	0.00

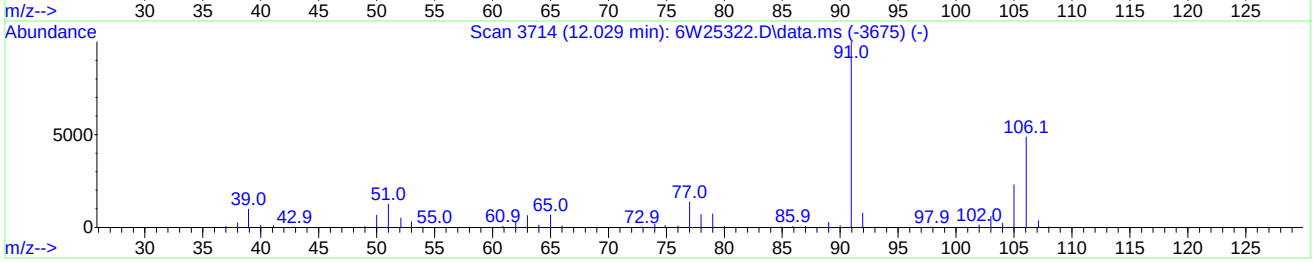
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26457.D
Acq On : 20 Oct 2022 12:03 am
Operator : thomash
Sample : ic1125-50
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 07:51:22 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration







TIC: 6W26457.D\data.ms

(80) M,P-XYLENE (t)

11.977min (-0.032) 60.92PPBV

response 1679843

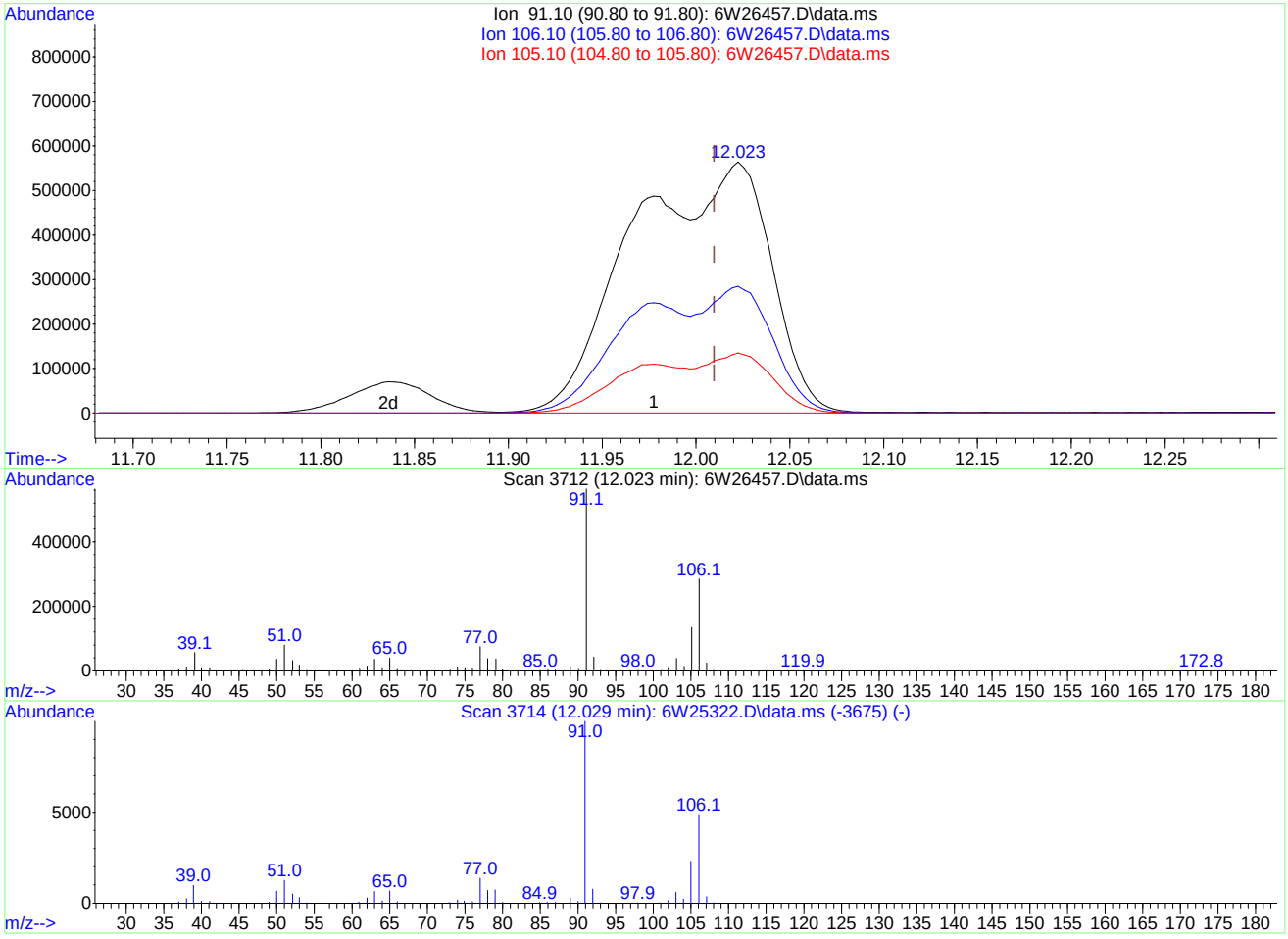
Ion	Exp%	Act%
91.10	100	100
106.10	51.50	45.60
105.10	23.60	20.28
0.00	0.00	0.00

6W26457.D edits: M,P-XYLENE

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26457.D
Acq On : 20 Oct 2022 12:03 am
Operator : thomash
Sample : ic1125-50
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 07:51:22 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 07:44:13 2022
Response via : Initial Calibration



TIC: 6W26457.D\data.ms

(80) M,P-XYLENE (t)

12.023min (+0.013) 104.90PPBV m

response 2892477

Ion	Exp%	Act%
91.10	100	100
106.10	51.50	26.48#
105.10	23.60	11.78
0.00	0.00	0.00

6W26457.D edits: M,P-XYLENE

JD54338

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 10/20/22 12:15

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26462.D
Acq On : 20 Oct 2022 9:08 am
Operator : thomash
Sample : icv1125-10
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 20 09:33:55 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.338	128	47437	10.00	PPBV	#	0.00
52) 1,4-DIFLUOROBENZENE	4.730	114	233994	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	10.582	117	223956	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	14.019	95	158390	10.13	PPBV		0.00
Target Compounds							Qvalue
3) FREON 152A	1.695	65	42315	10.38	PPBV	#	74
4) CHLORODIFLUOROMETHANE	1.708	67	18777	10.16	PPBV		96
5) CHLOROTRIFLUOROETHENE	1.717	116	91347	10.23	PPBV	#	99
6) DICHLORODIFLUOROMETHANE	1.730	85	156989m	10.58	PPBV		
7) PROPYLENE	1.714	41	62221	10.24	PPBV		96
8) 1-CHLORO-1,1-DIFLUOROE...	1.766	65	139422	10.26	PPBV	#	86
9) FREON 114	1.798	85	158149	10.13	PPBV		96
10) CHLOROMETHANE	1.772	52	21693	10.12	PPBV		94
11) VINYL CHLORIDE	1.830	62	65451	10.07	PPBV		97
12) 1,3-BUTADIENE	1.865	54	55315	10.41	PPBV	#	73
13) N-BUTANE	1.878	43	111808	9.33	PPBV	#	91
14) BROMOMETHANE	1.933	94	52086	10.36	PPBV		100
15) CHLOROETHANE	1.978	64	32770	10.53	PPBV		94
16) DICHLOROFLUOROMETHANE	2.000	67	134666	10.20	PPBV	#	95
17) ACETONITRILE	2.065	41	67287	9.65	PPBV		97
18) ACROLEIN	2.100	56	29314	10.16	PPBV		99
19) FREON 123	2.113	83	131588	10.51	PPBV		93
20) FREON 123A	2.129	117	86126	11.40	PPBV		86
21) TRICHLOROFLUOROMETHANE	2.190	101	157212	10.16	PPBV		99
22) ISOPROPYL ALCOHOL	2.206	45	146415	9.38	PPBV	#	96
23) ACETONE	2.139	58	34982	9.96	PPBV	#	33
24) PENTANE	2.296	42	80052	9.62	PPBV	#	94
25) IODOMETHANE	2.354	142	145044	9.73	PPBV	#	84
26) 1,1-DICHLOROETHYLENE	2.383	96	55100	9.37	PPBV	#	52
27) CARBON DISULFIDE	2.518	76	158110	8.49	PPBV	#	85
28) ETHANOL	2.007	45	38760	10.76	PPBV	#	96
29) BROMOETHENE	2.071	106	54264	10.30	PPBV	#	98
30) ACRYLONITRILE	2.270	52	51960	9.87	PPBV		95
31) METHYLENE CHLORIDE	2.418	84	48842	8.28	PPBV	#	42
32) 3-CHLOROPROPENE	2.460	76	26504	9.23	PPBV	#	1
33) FREON 113	2.518	151	91762	8.80	PPBV		87
34) TRANS-1,2-DICHLOROETHENE	2.769	96	62540	9.52	PPBV	#	77
35) TERTIARY BUTYL ALCOHOL	2.396	59	115504	9.05	PPBV	#	94
36) METHYL TERTIARY BUTYL ...	2.888	73	165951	10.16	PPBV	#	90
37) TETRAHYDROFURAN	3.653	72	30116	9.92	PPBV	#	34
38) HEXANE	3.389	57	128292	10.07	PPBV	#	74
39) VINYL ACETATE	2.930	86	15728	9.99	PPBV	#	1
40) 1,1-DICHLOROETHANE	2.849	63	126305	10.09	PPBV		98
41) METHYL ETHYL KETONE	3.036	72	31791	9.96	PPBV	#	1
42) CIS-1,2-DICHLOROETHENE	3.251	96	65428	9.49	PPBV	#	75
43) DIISOPROPYL ETHER	3.396	59	36125	9.87	PPBV	#	36
44) ETHYL ACETATE	3.402	61	25425	10.11	PPBV	#	9
45) METHYL ACRYLATE	3.389	55	160519	10.19	PPBV	#	97
46) CHLOROFORM	3.418	83	133863	9.46	PPBV	#	93
47) 2,4-DIMETHYLPENTANE	3.952	57	148602	10.33	PPBV	#	92
48) 1,1,1-TRICHLOROETHANE	4.039	97	133393	9.60	PPBV	#	92
49) CARBON TETRACHLORIDE	4.495	117	142449	9.56	PPBV		100
50) 1,2-DICHLOROETHANE	3.865	62	107146	9.96	PPBV	#	93
51) BENZENE	4.376	78	194518	9.20	PPBV		76
53) CYCLOHEXANE	4.598	84	84081	9.85	PPBV	#	67
54) 2,3-DIMETHYLPENTANE	4.872	71	45326	9.75	PPBV	#	46
55) TRICHLOROETHENE	5.344	95	86713	9.44	PPBV		98
56) 1,2-DICHLOROPROPANE	5.100	63	83363	9.88	PPBV		96
57) DIBROMOMETHANE	5.055	174	77798	8.98	PPBV		90

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26462.D
Acq On : 20 Oct 2022 9:08 am
Operator : thomash
Sample : icv1125-10
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 20 09:33:55 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration

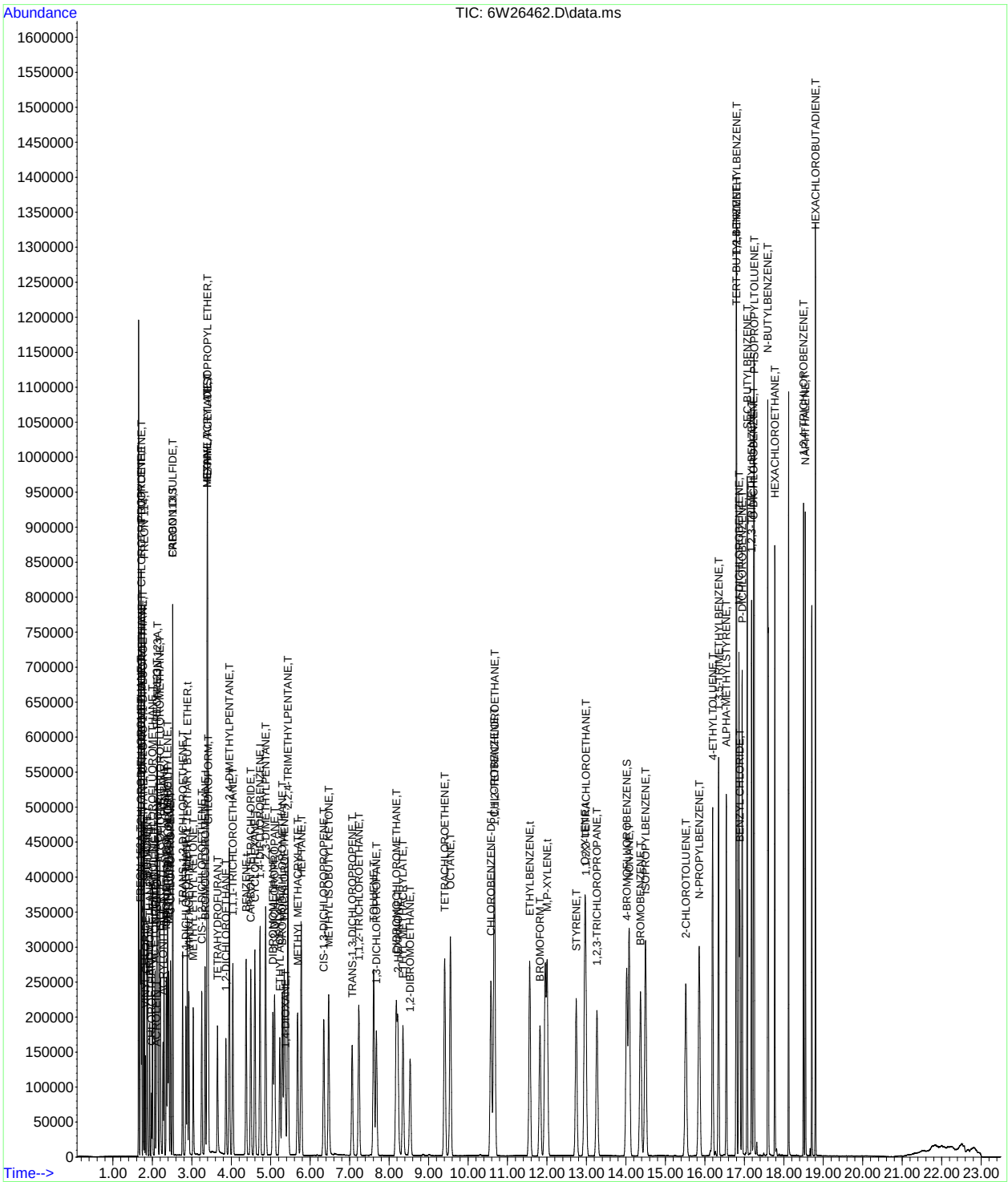
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
58) ETHYL ACRYLATE	5.229	55	191235	10.69	PPBV	#	96
59) BROMODICHLOROMETHANE	5.293	83	148702	9.61	PPBV		99
60) 2,2,4-TRIMETHYLPENTANE	5.438	57	402185	10.39	PPBV	#	98
61) 1,4-DIOXANE	5.373	88	43069	10.67	PPBV	#	70
62) HEPTANE	5.775	43	160441	10.29	PPBV	#	73
63) METHYL METHACRYLATE	5.682	69	73460	9.83	PPBV	#	41
64) METHYL ISOBUTYL KETONE	6.466	58	71816	11.36	PPBV	#	60
65) CIS-1,3-DICHLOROPROPENE	6.344	75	121546	10.88	PPBV	#	72
66) TOLUENE	7.608	91	248582	9.60	PPBV		100
67) 1,3-DICHLOROPROPANE	7.675	76	126893	10.17	PPBV	#	98
68) TRANS-1,3-DICHLOROPROPENE	7.064	75	103164	10.47	PPBV	#	74
69) 1,1,2-TRICHLOROETHANE	7.235	83	73991	10.01	PPBV		98
70) 2-HEXANONE	8.222	58	91501	12.42	PPBV	#	60
71) ETHYL METHACRYLATE	8.351	69	121309	11.01	PPBV	#	68
72) TETRACHLOROETHENE	9.408	164	94636	10.58	PPBV		92
73) DIBROMOCHLOROMETHANE	8.180	129	163474	10.24	PPBV		99
74) 1,2-DIBROMOETHANE	8.531	107	136603	10.09	PPBV		100
75) OCTANE	9.553	43	220193	10.67	PPBV	#	74
77) 1,1,1,2-TETRACHLOROETHANE	10.675	131	111154	9.25	PPBV		97
78) CHLOROBENZENE	10.659	112	206823	9.56	PPBV		99
79) ETHYLBENZENE	11.559	91	323736	8.40	PPBV		100
80) M,P-XYLENE	12.003	91	500976	17.40	PPBV	#	69
81) O-XYLENE	12.958	91	255001	8.85	PPBV		98
82) STYRENE	12.739	104	182497	9.47	PPBV		97
83) NONANE	14.083	43	230186	9.28	PPBV	#	74
84) BROMOFORM	11.820	173	146828	9.34	PPBV	#	97
85) 1,1,2,2-TETRACHLOROETHANE	12.981	83	191853	9.37	PPBV		99
86) 1,2,3-TRICHLOROPROPANE	13.264	75	145786	9.10	PPBV		99
88) ISOPROPYLBENZENE	14.495	105	366488	9.22	PPBV	#	93
89) BROMOBENZENE	14.373	77	178240	9.30	PPBV		96
90) 2-CHLOROTOLUENE	15.521	91	245770	9.47	PPBV		99
91) N-PROPYLBENZENE	15.855	91	429418	9.81	PPBV	#	97
92) 4-ETHYLTOLUENE	16.199	105	363789	10.27	PPBV		99
93) 1,3,5-TRIMETHYLBENZENE	16.347	105	295002	9.85	PPBV		99
94) ALPHA-METHYLSTYRENE	16.543	118	128522	8.56	PPBV		99
95) TERT-BUTYLBENZENE	16.797	119	327236	9.74	PPBV		99
96) 1,2,4-TRIMETHYLBENZENE	16.804	105	301145	9.73	PPBV		97
97) BENZYL CHLORIDE	16.887	91	173940	9.28	PPBV		98
98) M-DICHLOROBENZENE	16.865	146	199466	9.27	PPBV		99
99) P-DICHLOROBENZENE	16.945	146	201407	9.38	PPBV		99
100) O-DICHLOROBENZENE	17.234	146	190368	9.05	PPBV		99
101) SEC-BUTYLBENZENE	17.074	105	443476	9.68	PPBV		99
102) 1,2,3-TRIMETHYLBENZENE	17.183	105	287306	9.48	PPBV		99
103) P-ISOPROPYLTOLUENE	17.251	119	368720	9.39	PPBV		97
104) N-BUTYLBENZENE	17.595	91	347673	9.96	PPBV		98
105) HEXACHLOROETHANE	17.771	117	110715	7.76	PPBV	#	89
106) HEXACHLOROBUTADIENE	18.804	225	113599	7.29	PPBV		99
107) 1,2,4-TRICHLOROBENZENE	18.498	180	141128	8.07	PPBV		99
108) NAPHTHALENE	18.546	128	372884	8.65	PPBV		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26462.D
Acq On : 20 Oct 2022 9:08 am
Operator : thomash
Sample : icv1125-10
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 20 09:33:55 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration



Manual Integration Approval Summary

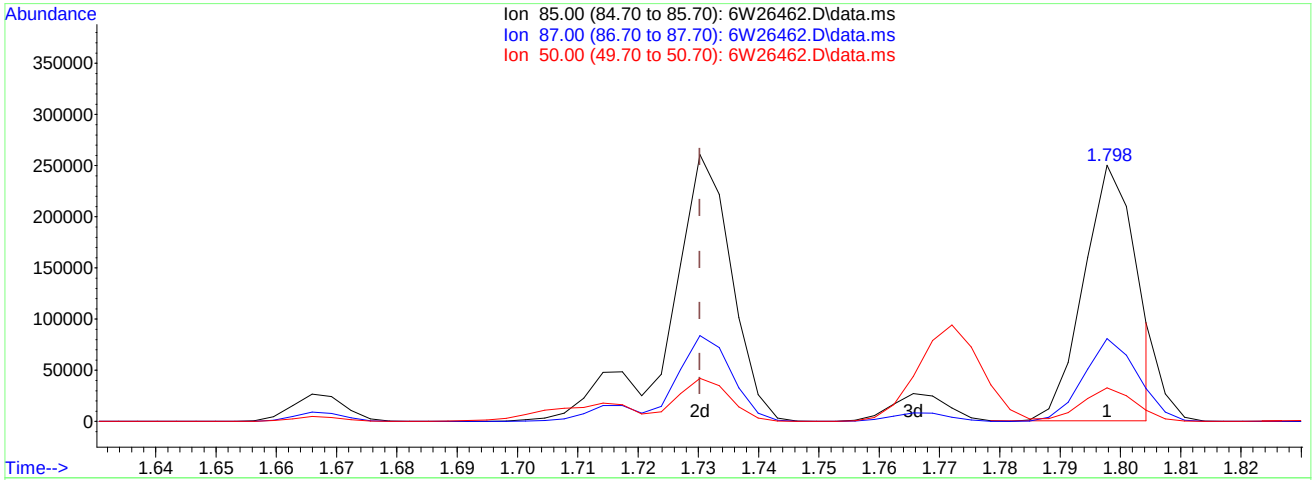
Sample Number: V6W1125-ICV1125 **Method:** TO-15
Lab FileID: 6W26462.D **Analyst approved:** 10/20/22 10:04 Thomas Hilbig
Injection Time: 10/20/22 09:08 **Supervisor approved:** 10/20/22 12:15 Kanya Veerawat

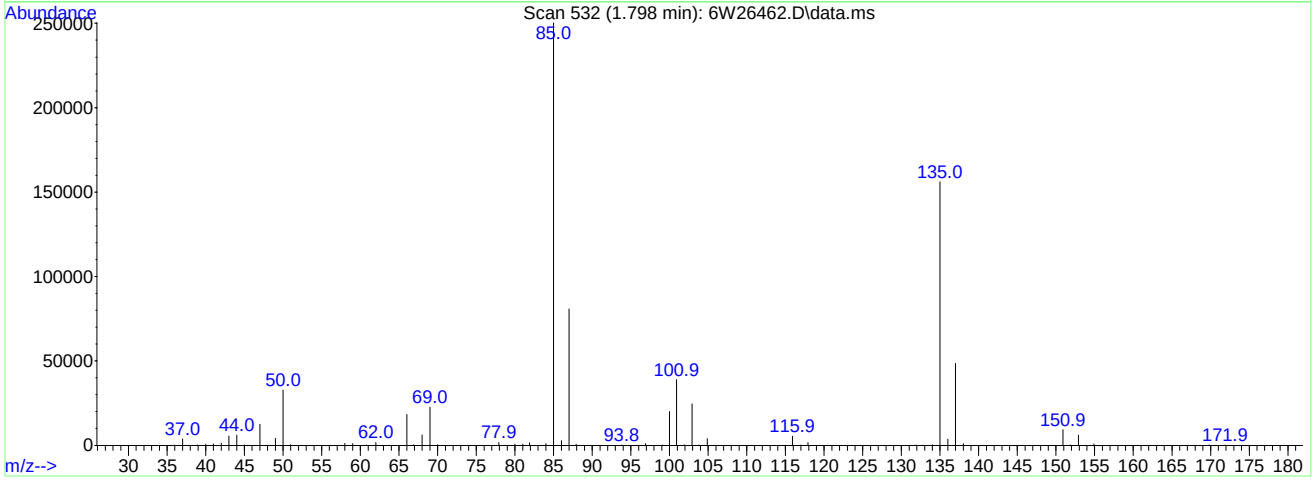
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		1.73	Missed peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26462.D
Acq On : 20 Oct 2022 9:08 am
Operator : thomash
Sample : icv1125-10
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 20 09:33:03 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration





TIC: 6W26462.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.798min (+0.068) 10.18PPBV

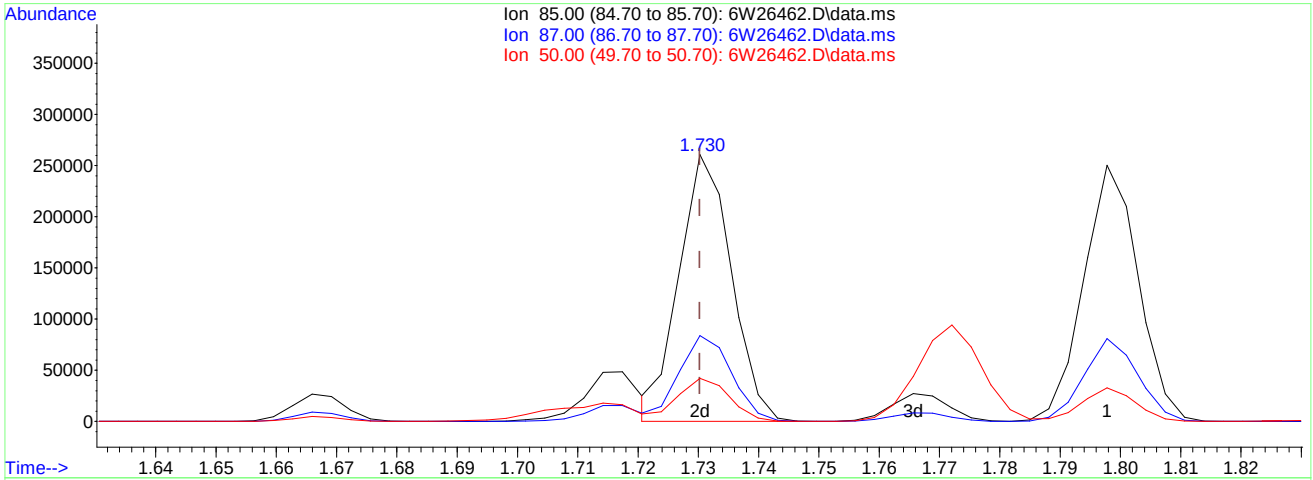
response 150961

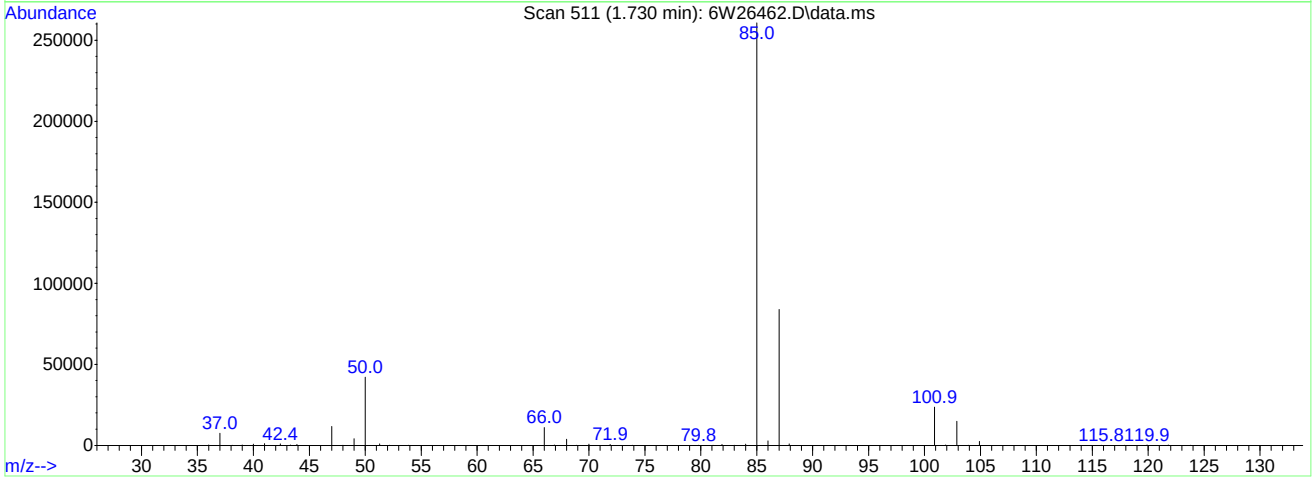
Ion	Exp%	Act%
85.00	100	100
87.00	32.20	32.06
50.00	9.30	11.14
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26462.D
Acq On : 20 Oct 2022 9:08 am
Operator : thomash
Sample : icv1125-10
Misc : MS63121,V6W1125,,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 20 09:33:03 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration





TIC: 6W26462.D\data.ms

(6) DICHLORODIFLUOROMETHANE (T)

1.730min (+0.000) 10.58PPBV m

response 156989

Ion	Exp%	Act%
85.00	100	100
87.00	32.20	30.83
50.00	9.30	10.71
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 11/07/22 15:11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26823.D
Acq On : 3 Nov 2022 9:36 am
Operator : thomash
Sample : cc1125-10
Misc : MS63437,V6W1137,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 04 15:13:41 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.341	128	45375	10.00	PPBV	#	0.00
52) 1,4-DIFLUOROBENZENE	4.733	114	225669	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	10.588	117	185640	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	14.022	95	132668	10.23	PPBV		0.00
Target Compounds							Qvalue
3) FREON 152A	1.695	65	31975m	8.20	PPBV		
4) CHLORODIFLUOROMETHANE	1.708	67	14062	7.95	PPBV		99
5) CHLOROTRIFLUOROETHENE	1.717	116	72944	8.54	PPBV	#	100
6) DICHLORODIFLUOROMETHANE	1.733	85	168749	11.89	PPBV	#	93
7) PROPYLENE	1.717	41	45398	7.81	PPBV		97
8) 1-CHLORO-1,1-DIFLUOROE...	1.769	65	123967	9.54	PPBV	#	89
9) FREON 114	1.801	85	150357	10.07	PPBV		97
10) CHLOROMETHANE	1.775	52	20006	9.76	PPBV		94
11) VINYL CHLORIDE	1.830	62	64266	10.34	PPBV		98
12) 1,3-BUTADIENE	1.865	54	53584	10.54	PPBV	#	78
13) N-BUTANE	1.881	43	107934	9.42	PPBV	#	91
14) BROMOMETHANE	1.936	94	53297	11.09	PPBV		100
15) CHLOROETHANE	1.981	64	32988	11.08	PPBV		97
16) DICHLOROFLUOROMETHANE	2.004	67	133169	10.54	PPBV	#	95
17) ACETONITRILE	2.068	41	68780	10.31	PPBV		98
18) ACROLEIN	2.103	56	32341	11.71	PPBV		99
19) FREON 123	2.116	83	129664	10.82	PPBV		96
20) FREON 123A	2.132	117	75673	10.47	PPBV		84
21) TRICHLOROFLUOROMETHANE	2.193	101	146984	9.93	PPBV		100
22) ISOPROPYL ALCOHOL	2.209	45	139144	9.32	PPBV	#	94
23) ACETONE	2.139	58	35047	10.43	PPBV	#	47
24) PENTANE	2.299	42	78292	9.83	PPBV	#	95
25) IODOMETHANE	2.357	142	151477	10.62	PPBV	#	88
26) 1,1-DICHLOROETHYLENE	2.386	96	55922	9.94	PPBV	#	57
27) CARBON DISULFIDE	2.521	76	176365	9.90	PPBV	#	91
28) ETHANOL	2.007	45	33840	9.82	PPBV		96
29) BROMOETHENE	2.074	106	54785	10.87	PPBV	#	99
30) ACRYLONITRILE	2.274	52	53358	10.60	PPBV		97
31) METHYLENE CHLORIDE	2.422	84	52891	9.37	PPBV	#	54
32) 3-CHLOROPROPENE	2.463	76	27708	10.09	PPBV	#	1
33) FREON 113	2.521	151	94580	9.48	PPBV		87
34) TRANS-1,2-DICHLOROETHENE	2.772	96	62066	9.88	PPBV	#	80
35) TERTIARY BUTYL ALCOHOL	2.396	59	105691	8.66	PPBV	#	82
36) METHYL TERTIARY BUTYL ...	2.891	73	124436	7.96	PPBV	#	92
37) TETRAHYDROFURAN	3.656	72	30557	10.52	PPBV	#	42
38) HEXANE	3.393	57	117550	9.65	PPBV	#	78
39) VINYL ACETATE	2.933	86	15252	10.13	PPBV	#	1
40) 1,1-DICHLOROETHANE	2.856	63	115664	9.66	PPBV		99
41) METHYL ETHYL KETONE	3.039	72	31375	10.28	PPBV	#	1
42) CIS-1,2-DICHLOROETHENE	3.258	96	64035	9.71	PPBV	#	80
43) DIISOPROPYL ETHER	3.402	59	31745	9.06	PPBV	#	44
44) ETHYL ACETATE	3.409	61	24784	10.30	PPBV	#	43
45) METHYL ACRYLATE	3.393	55	153999	10.22	PPBV	#	97
46) CHLOROFORM	3.425	83	126972	9.39	PPBV	#	93
47) 2,4-DIMETHYLPENTANE	3.955	57	136921	9.95	PPBV	#	92
48) 1,1,1-TRICHLOROETHANE	4.045	97	115264	8.67	PPBV	#	90
49) CARBON TETRACHLORIDE	4.499	117	126625	8.88	PPBV		99
50) 1,2-DICHLOROETHANE	3.868	62	93492	9.08	PPBV	#	95
51) BENZENE	4.380	78	189179	9.35	PPBV		80
53) CYCLOHEXANE	4.605	84	80553	9.79	PPBV	#	71
54) 2,3-DIMETHYLPENTANE	4.875	71	43953	9.81	PPBV	#	55
55) TRICHLOROETHENE	5.347	95	78687	8.88	PPBV		99
56) 1,2-DICHLOROPROPANE	5.103	63	80676	9.92	PPBV		99
57) DIBROMOMETHANE	5.061	174	73594	8.81	PPBV		88

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26823.D
Acq On : 3 Nov 2022 9:36 am
Operator : thomash
Sample : cc1125-10
Misc : MS63437,V6W1137,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 04 15:13:41 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration

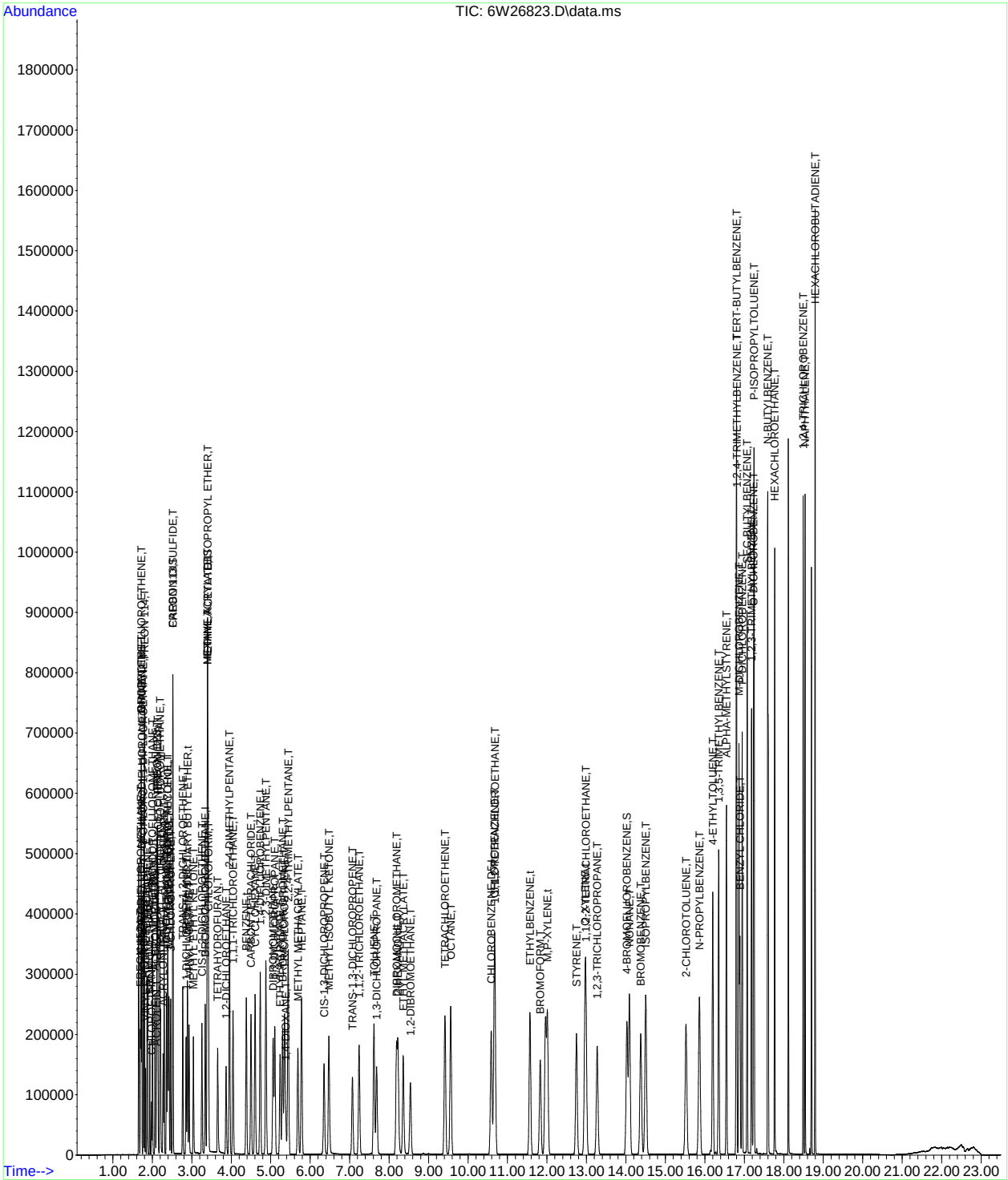
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
58) ETHYL ACRYLATE	5.238	55	188544	10.92	PPBV	#	97
59) BROMODICHLOROMETHANE	5.299	83	132174	8.86	PPBV		99
60) 2,2,4-TRIMETHYLPENTANE	5.444	57	323621	8.67	PPBV		97
61) 1,4-DIOXANE	5.380	88	42627	10.95	PPBV	#	79
62) HEPTANE	5.782	43	125129	8.32	PPBV	#	76
63) METHYL METHACRYLATE	5.688	69	68314	9.48	PPBV	#	58
64) METHYL ISOBUTYL KETONE	6.476	58	64967	10.65	PPBV	#	68
65) CIS-1,3-DICHLOROPROPENE	6.354	75	93683	8.69	PPBV	#	75
66) TOLUENE	7.617	91	207918	8.33	PPBV		98
67) 1,3-DICHLOROPROPANE	7.685	76	107958	8.97	PPBV	#	97
68) TRANS-1,3-DICHLOROPROPENE	7.071	75	83285	8.77	PPBV	#	79
69) 1,1,2-TRICHLOROETHANE	7.241	83	63758	8.94	PPBV		98
70) 2-HEXANONE	8.225	58	87133	12.27	PPBV	#	67
71) ETHYL METHACRYLATE	8.360	69	112169	10.56	PPBV	#	73
72) TETRACHLOROETHENE	9.415	164	79370	9.20	PPBV		93
73) DIBROMOCHLOROMETHANE	8.187	129	134069	8.71	PPBV		100
74) 1,2-DIBROMOETHANE	8.540	107	118295	9.06	PPBV		99
75) OCTANE	9.563	43	170876	8.59	PPBV	#	77
77) 1,1,1,2-TETRACHLOROETHANE	10.682	131	91112	9.15	PPBV		95
78) CHLOROBENZENE	10.666	112	173170	9.65	PPBV		99
79) ETHYLBENZENE	11.569	91	278188	8.70	PPBV		99
80) M,P-XYLENE	12.006	91	433064m	18.15	PPBV		
81) O-XYLENE	12.965	91	220004	9.21	PPBV		98
82) STYRENE	12.749	104	167463	10.49	PPBV		97
83) NONANE	14.090	43	183186	8.91	PPBV	#	77
84) BROMOFORM	11.826	173	122685	9.42	PPBV	#	98
85) 1,1,2,2-TETRACHLOROETHANE	12.990	83	170575	10.05	PPBV		98
86) 1,2,3-TRICHLOROPROPANE	13.270	75	129281	9.74	PPBV		98
88) ISOPROPYLBENZENE	14.501	105	318450	9.67	PPBV	#	94
89) BROMOBENZENE	14.376	77	157194	9.89	PPBV		95
90) 2-CHLOROTOLUENE	15.524	91	221919	10.32	PPBV		99
91) N-PROPYLBENZENE	15.861	91	385515	10.63	PPBV	#	95
92) 4-ETHYLTOLUENE	16.202	105	323236	11.01	PPBV		99
93) 1,3,5-TRIMETHYLBENZENE	16.350	105	265955	10.71	PPBV		99
94) ALPHA-METHYLSTYRENE	16.546	118	145366	11.69	PPBV		99
95) TERT-BUTYLBENZENE	16.800	119	300408	10.78	PPBV		98
96) 1,2,4-TRIMETHYLBENZENE	16.807	105	280452	10.94	PPBV		96
97) BENZYL CHLORIDE	16.890	91	174420	11.22	PPBV		98
98) M-DICHLOROBENZENE	16.865	146	188360	10.56	PPBV		99
99) P-DICHLOROBENZENE	16.945	146	191547	10.76	PPBV		99
100) O-DICHLOROBENZENE	17.234	146	184450	10.57	PPBV		99
101) SEC-BUTYLBENZENE	17.070	105	412980	10.87	PPBV		99
102) 1,2,3-TRIMETHYLBENZENE	17.183	105	273180	10.88	PPBV		99
103) P-ISOPROPYLTOLUENE	17.247	119	361187	11.09	PPBV		97
104) N-BUTYLBENZENE	17.591	91	343081	11.86	PPBV		98
105) HEXACHLOROETHANE	17.768	117	118537	10.03	PPBV	#	90
106) HEXACHLOROBUTADIENE	18.794	225	136467	10.56	PPBV		100
107) 1,2,4-TRICHLOROBENZENE	18.492	180	169601	11.70	PPBV		99
108) NAPHTHALENE	18.540	128	453099	12.68	PPBV		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26823.D
Acq On : 3 Nov 2022 9:36 am
Operator : thomash
Sample : cc1125-10
Misc : MS63437,V6W1137,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 04 15:13:41 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration



Manual Integration Approval Summary

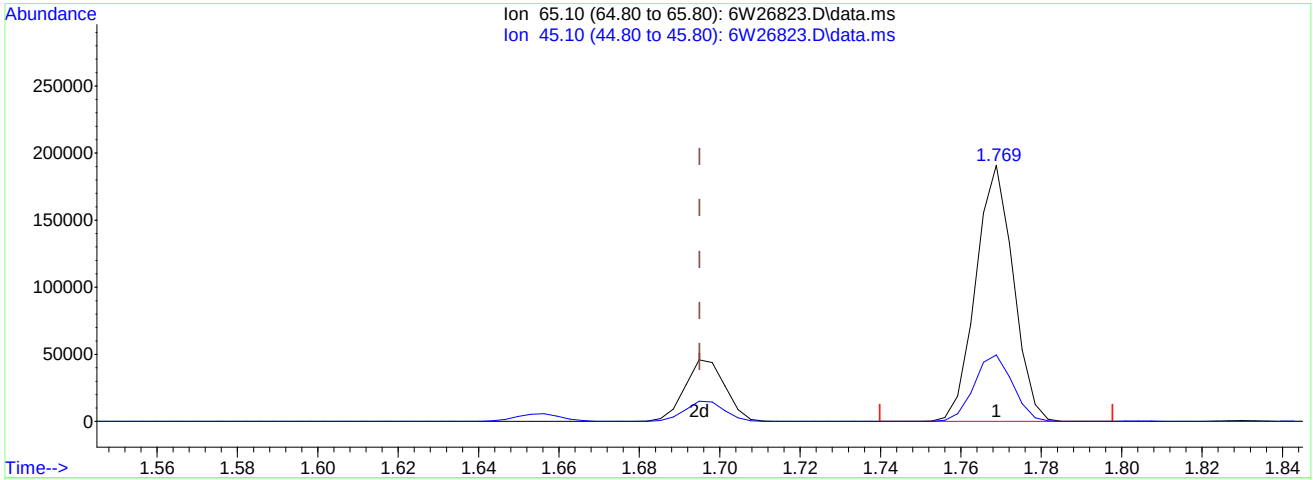
Sample Number:	V6W1137-CC1125	**Method:**	TO-15
Lab FileID:	6W26823.D	**Analyst approved:**	11/04/22 15:23 William Cruser
Injection Time:	11/03/22 09:36	**Supervisor approved:**	11/07/22 15:11 Kanya Veerawat

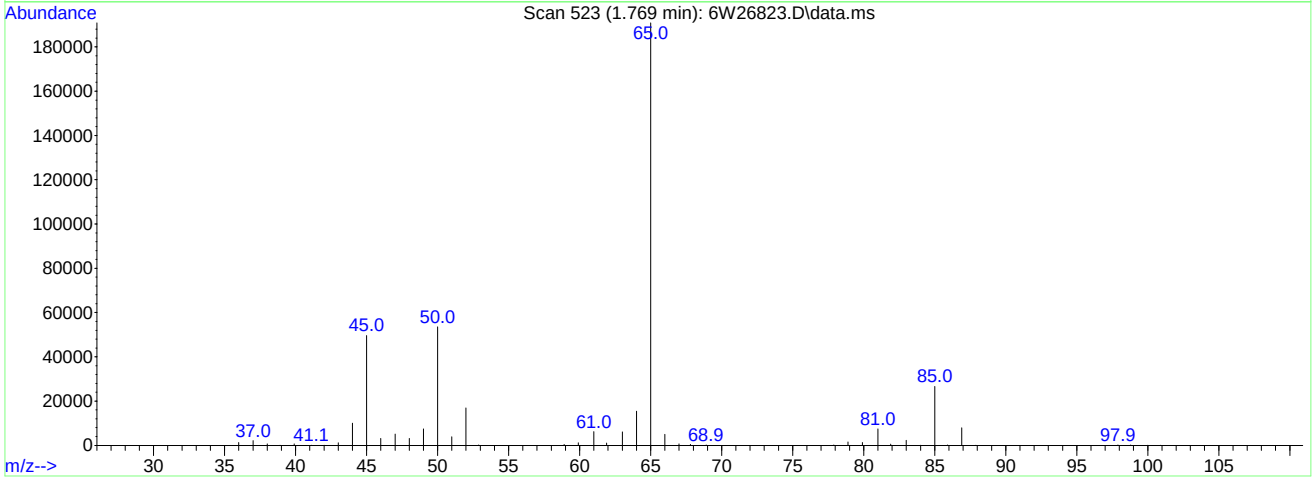
Parameter	CAS	Sig#	R.T. (min.)	Reason
Freon 152A	75-37-6		1.69	Missed peak
m,p-Xylene			12.01	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26823.D
Acq On : 3 Nov 2022 9:36 am
Operator : thomash
Sample : cc1125-10
Misc : MS63437,V6W1137,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 03 10:04:48 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration





TIC: 6W26823.D\data.ms

(3) FREON 152A (T)

1.769min (+0.074) 31.78PPBV

response 123971

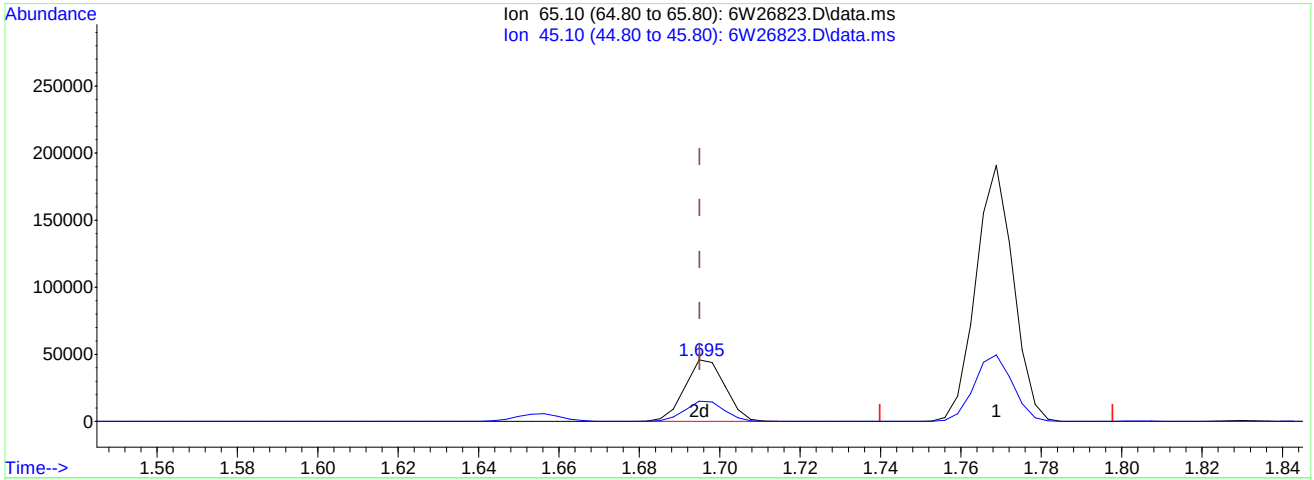
Ion	Exp%	Act%
65.10	100	100
45.10	22.90	26.59
0.00	0.00	0.00
0.00	0.00	0.00

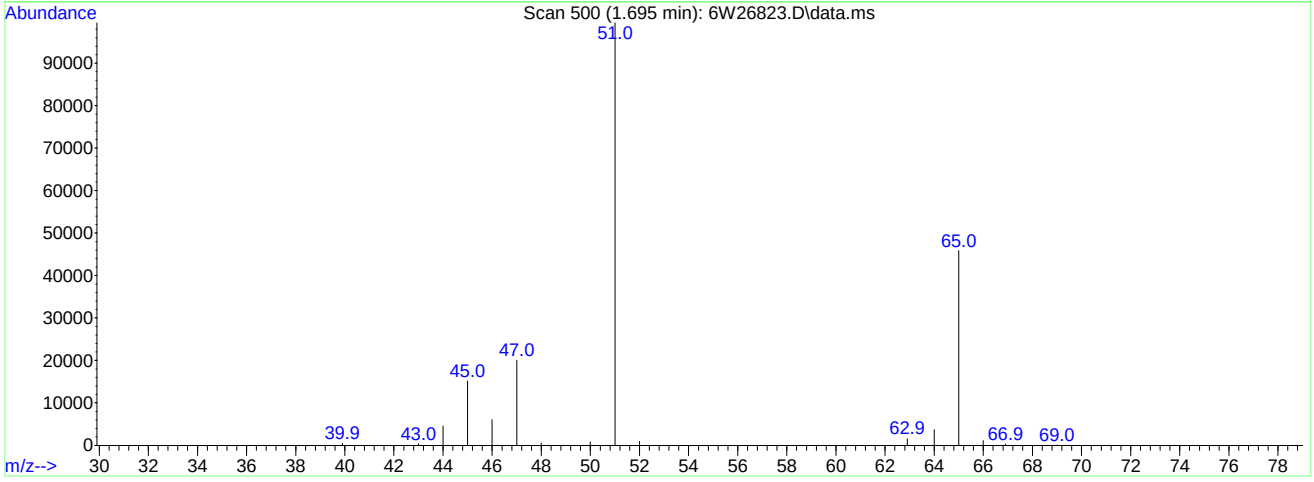
6W26823.D edits: FREON 152A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26823.D
Acq On : 3 Nov 2022 9:36 am
Operator : thomash
Sample : cc1125-10
Misc : MS63437,V6W1137,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 03 10:04:48 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration





TIC: 6W26823.D\data.ms

(3) FREON 152A (T)

1.695min (-0.000) 8.20PPBV m

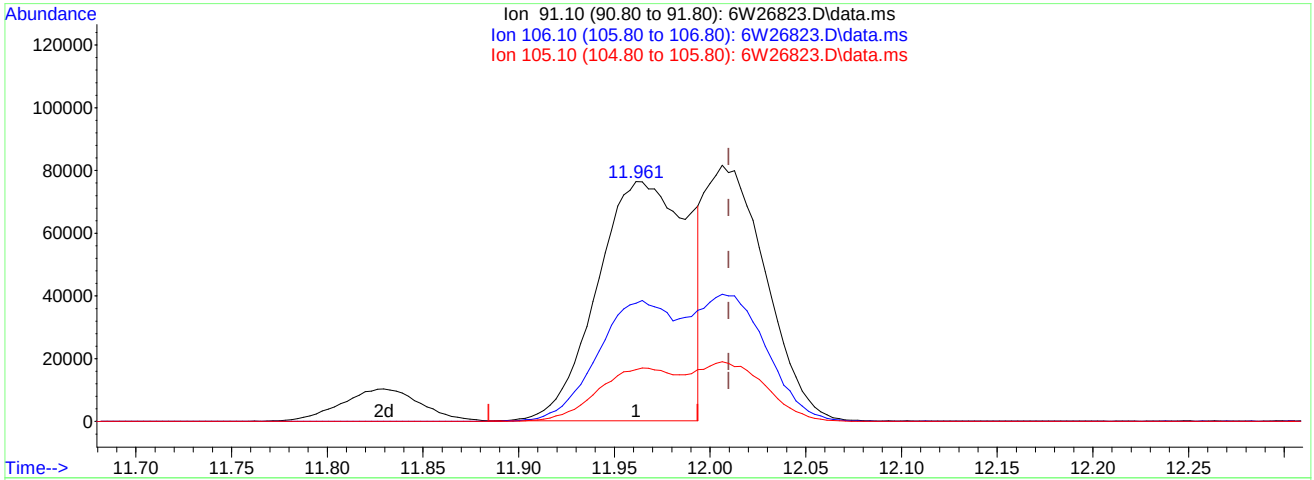
response 31975

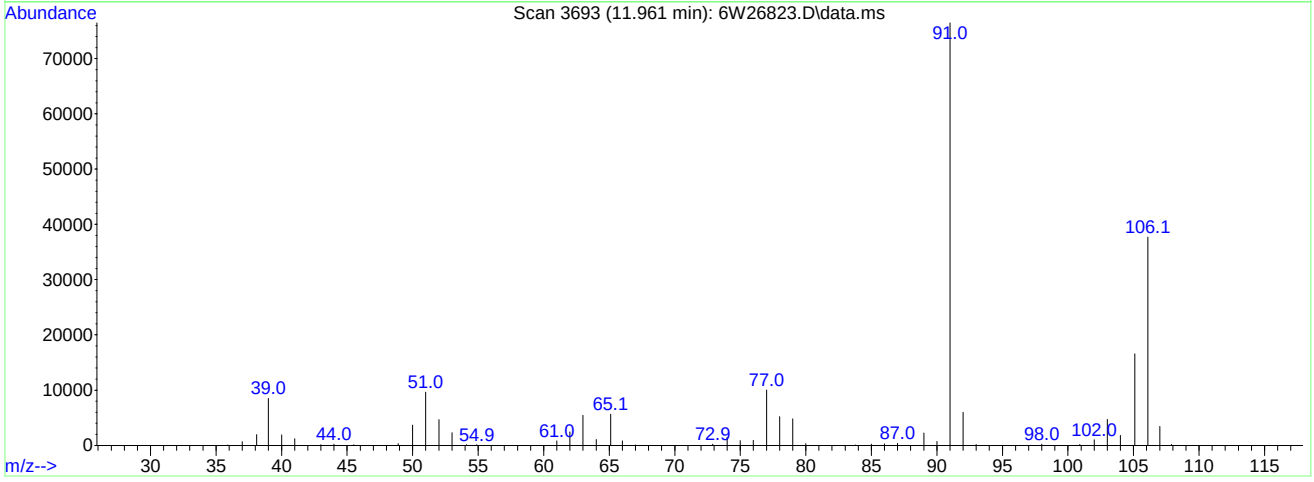
Ion	Exp%	Act%
65.10	100	100
45.10	22.90	103.09#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26823.D
Acq On : 3 Nov 2022 9:36 am
Operator : thomash
Sample : cc1125-10
Misc : MS63437,V6W1137,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 03 10:04:48 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration





TIC: 6W26823.D\data.ms

(80) M,P-XYLENE (t)

11.961min (-0.048) 10.52PPBV

response 250975

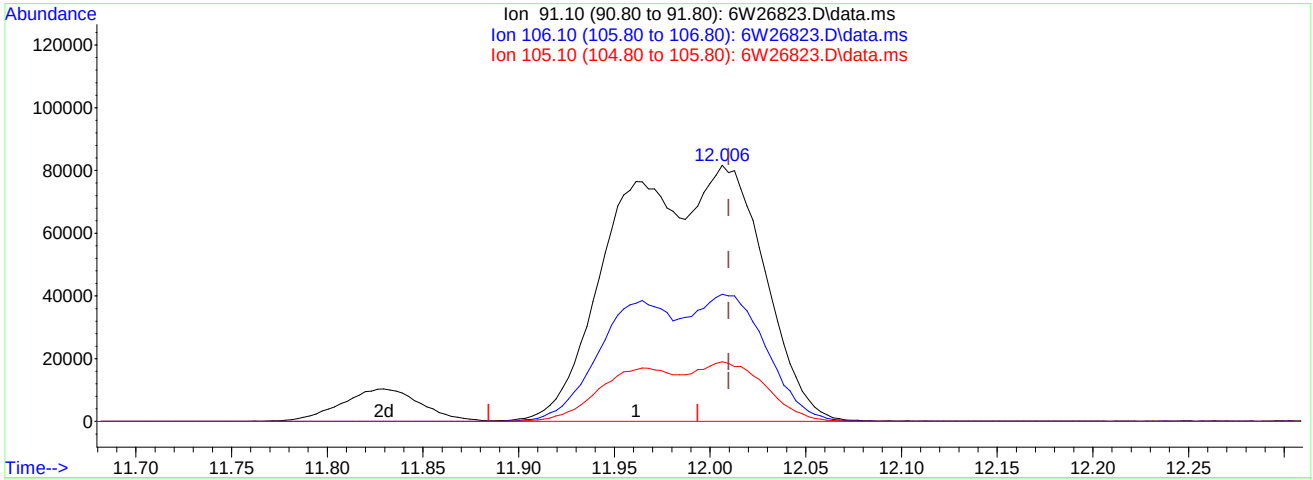
Ion	Exp%	Act%
91.10	100	100
106.10	51.50	39.75
105.10	23.60	17.68
0.00	0.00	0.00

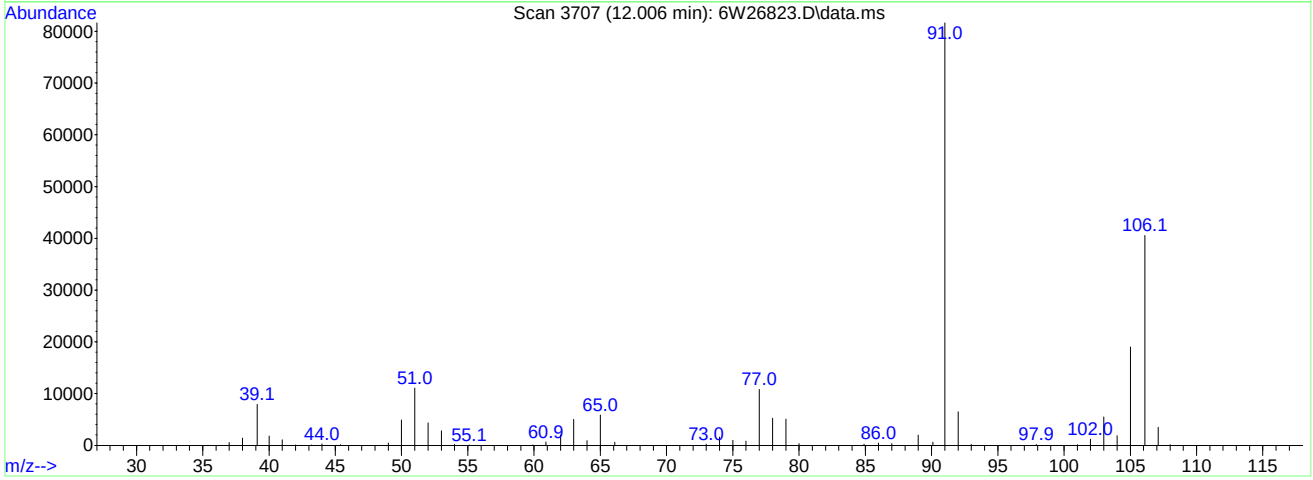
6W26823.D edits: M,P-XYLENE

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26823.D
Acq On : 3 Nov 2022 9:36 am
Operator : thomash
Sample : cc1125-10
Misc : MS63437,V6W1137,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 03 10:04:48 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration





TIC: 6W26823.D\data.ms

(80) M,P-XYLENE (t)

12.006min (-0.003) 18.15PPBV m

response 433064

Ion	Exp%	Act%
91.10	100	100
106.10	51.50	23.04#
105.10	23.60	10.25
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 11/08/22 16:17

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26863.D
Acq On : 4 Nov 2022 9:36 am
Operator : thomash
Sample : cc1125-10
Misc : MS63483,V6W1138,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 08 15:58:48 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) BROMOCHLOROMETHANE	3.338	128	45370	10.00	PPBV	#	0.00
52) 1,4-DIFLUOROBENZENE	4.737	114	228035	10.00	PPBV		0.00
76) CHLOROBENZENE-D5	10.588	117	188440	10.00	PPBV		0.00
System Monitoring Compounds							
87) 4-BROMOFLUOROBENZENE	14.026	95	132750	10.09	PPBV		0.00
Target Compounds							Qvalue
3) FREON 152A	1.695	65	34226m	8.78	PPBV		
4) CHLORODIFLUOROMETHANE	1.708	67	15503	8.77	PPBV		98
5) CHLOROTRIFLUOROETHENE	1.717	116	77654	9.09	PPBV	#	100
6) DICHLORODIFLUOROMETHANE	1.798	85	148318	10.46	PPBV		99
7) PROPYLENE	1.717	41	48765	8.39	PPBV		96
8) 1-CHLORO-1,1-DIFLUOROE...	1.769	65	134261	10.33	PPBV	#	89
9) FREON 114	1.801	85	161290	10.81	PPBV		97
10) CHLOROMETHANE	1.772	52	21569	10.52	PPBV		95
11) VINYL CHLORIDE	1.830	62	69364	11.16	PPBV		97
12) 1,3-BUTADIENE	1.865	54	57215	11.26	PPBV	#	77
13) N-BUTANE	1.878	43	115313	10.07	PPBV	#	91
14) BROMOMETHANE	1.936	94	56258	11.70	PPBV		100
15) CHLOROETHANE	1.981	64	35281	11.85	PPBV		96
16) DICHLOROFLUOROMETHANE	2.004	67	142589	11.29	PPBV	#	96
17) ACETONITRILE	2.068	41	73666	11.04	PPBV		97
18) ACROLEIN	2.103	56	33787	12.24	PPBV		98
19) FREON 123	2.116	83	138169	11.53	PPBV		96
20) FREON 123A	2.132	117	81204	11.24	PPBV		85
21) TRICHLOROFLUOROMETHANE	2.193	101	156551	10.58	PPBV		100
22) ISOPROPYL ALCOHOL	2.209	45	146208	9.80	PPBV	#	93
23) ACETONE	2.139	58	37014	11.02	PPBV	#	43
24) PENTANE	2.299	42	83225	10.45	PPBV	#	95
25) IODOMETHANE	2.357	142	161394	11.32	PPBV		88
26) 1,1-DICHLOROETHYLENE	2.386	96	60513	10.76	PPBV	#	60
27) CARBON DISULFIDE	2.521	76	188336	10.57	PPBV	#	90
28) ETHANOL	2.007	45	35762	10.38	PPBV		97
29) BROMOETHENE	2.074	106	58344	11.58	PPBV	#	98
30) ACRYLONITRILE	2.274	52	56459	11.22	PPBV		97
31) METHYLENE CHLORIDE	2.422	84	56190	9.96	PPBV	#	49
32) 3-CHLOROPROPENE	2.463	76	29616	10.79	PPBV	#	1
33) FREON 113	2.521	151	100942	10.12	PPBV		86
34) TRANS-1,2-DICHLOROETHENE	2.769	96	65605	10.45	PPBV	#	79
35) TERTIARY BUTYL ALCOHOL	2.396	59	101040	8.28	PPBV	#	70
36) METHYL TERTIARY BUTYL ...	2.888	73	115716	7.40	PPBV	#	92
37) TETRAHYDROFURAN	3.656	72	32296	11.12	PPBV	#	43
38) HEXANE	3.393	57	125492	10.30	PPBV	#	76
39) VINYL ACETATE	2.930	86	16185	10.75	PPBV	#	1
40) 1,1-DICHLOROETHANE	2.852	63	123391	10.31	PPBV		98
41) METHYL ETHYL KETONE	3.039	72	33334	10.92	PPBV	#	1
42) CIS-1,2-DICHLOROETHENE	3.257	96	67577	10.25	PPBV	#	79
43) DIISOPROPYL ETHER	3.402	59	31869	9.10	PPBV	#	43
44) ETHYL ACETATE	3.409	61	26798	11.14	PPBV	#	51
45) METHYL ACRYLATE	3.393	55	164655	10.93	PPBV	#	97
46) CHLOROFORM	3.421	83	135830	10.04	PPBV	#	94
47) 2,4-DIMETHYLPENTANE	3.955	57	147246	10.70	PPBV	#	93
48) 1,1,1-TRICHLOROETHANE	4.045	97	119181	8.97	PPBV	#	88
49) CARBON TETRACHLORIDE	4.502	117	134543	9.44	PPBV		99
50) 1,2-DICHLOROETHANE	3.868	62	99834	9.70	PPBV	#	95
51) BENZENE	4.380	78	200682	9.92	PPBV		79
53) CYCLOHEXANE	4.601	84	86440	10.39	PPBV	#	71
54) 2,3-DIMETHYLPENTANE	4.875	71	46756	10.32	PPBV	#	55
55) TRICHLOROETHENE	5.351	95	82231	9.18	PPBV		98
56) 1,2-DICHLOROPROPANE	5.103	63	84350	10.26	PPBV		99
57) DIBROMOMETHANE	5.061	174	78129	9.25	PPBV		88

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26863.D
Acq On : 4 Nov 2022 9:36 am
Operator : thomash
Sample : cc1125-10
Misc : MS63483,V6W1138,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 08 15:58:48 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration

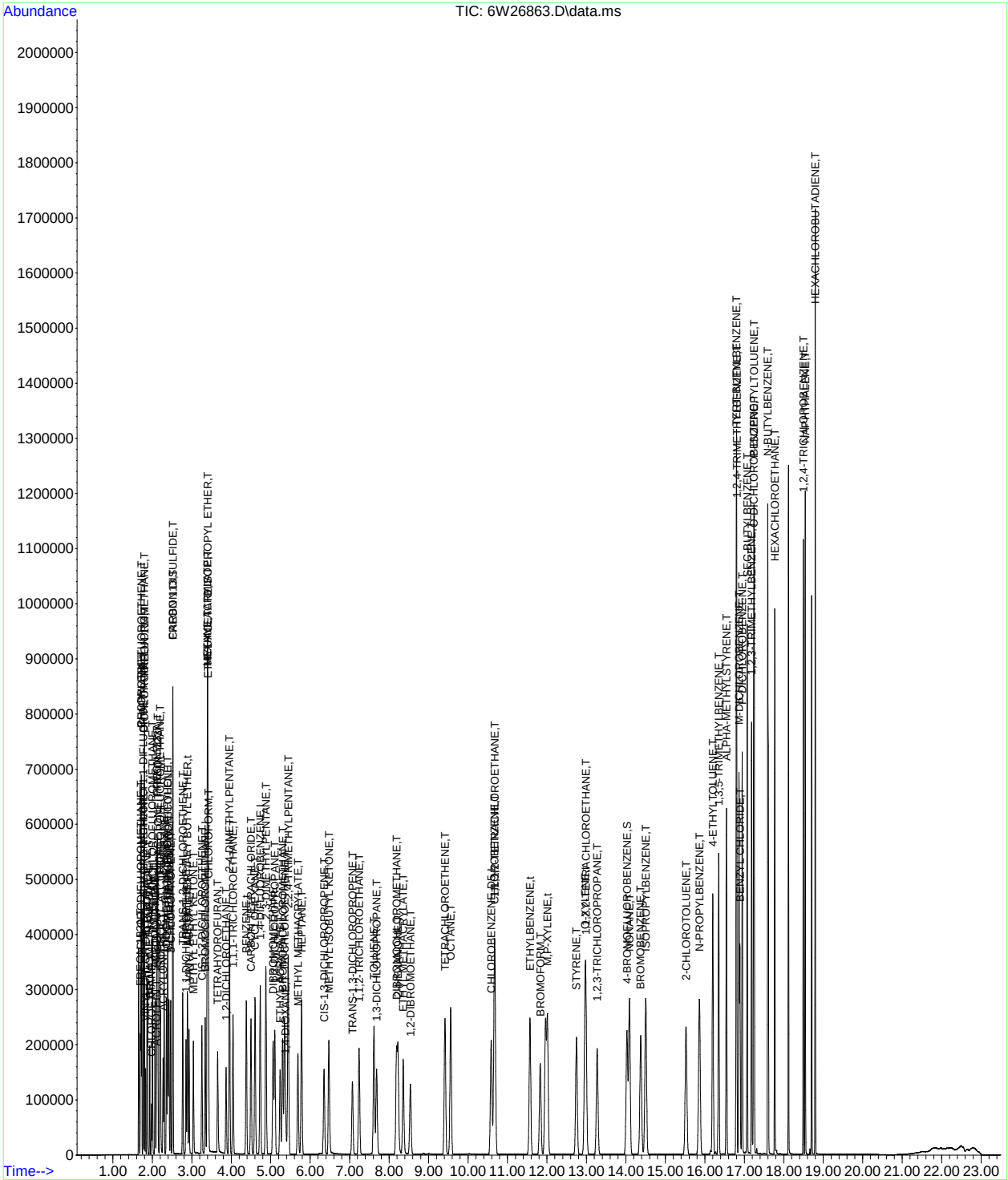
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
58) ETHYL ACRYLATE	5.238	55	174545	10.01	PPBV	#	97
59) BROMODICHLOROMETHANE	5.299	83	135088	8.96	PPBV		99
60) 2,2,4-TRIMETHYLPENTANE	5.444	57	345321	9.15	PPBV	#	98
61) 1,4-DIOXANE	5.376	88	44961	11.43	PPBV	#	77
62) HEPTANE	5.782	43	132685	8.73	PPBV	#	77
63) METHYL METHACRYLATE	5.688	69	71715	9.84	PPBV	#	58
64) METHYL ISOBUTYL KETONE	6.473	58	68250	11.08	PPBV	#	67
65) CIS-1,3-DICHLOROPROPENE	6.351	75	96628	8.87	PPBV	#	76
66) TOLUENE	7.614	91	221486	8.78	PPBV		99
67) 1,3-DICHLOROPROPANE	7.685	76	115400	9.49	PPBV	#	98
68) TRANS-1,3-DICHLOROPROPENE	7.071	75	85757	8.93	PPBV	#	78
69) 1,1,2-TRICHLOROETHANE	7.241	83	68050	9.45	PPBV		98
70) 2-HEXANONE	8.222	58	91152	12.70	PPBV	#	69
71) ETHYL METHACRYLATE	8.357	69	118973	11.08	PPBV	#	73
72) TETRACHLOROETHENE	9.418	164	84641	9.71	PPBV		93
73) DIBROMOCHLOROMETHANE	8.187	129	142534	9.16	PPBV		99
74) 1,2-DIBROMOETHANE	8.540	107	123855	9.39	PPBV		100
75) OCTANE	9.559	43	182730	9.09	PPBV	#	77
77) 1,1,1,2-TETRACHLOROETHANE	10.678	131	97233	9.62	PPBV		93
78) CHLOROBENZENE	10.666	112	184918	10.16	PPBV		100
79) ETHYLBENZENE	11.569	91	295862	9.12	PPBV		99
80) M,P-XYLENE	12.010	91	458994	18.95	PPBV	#	66
81) O-XYLENE	12.964	91	232546	9.59	PPBV		99
82) STYRENE	12.746	104	178124	10.99	PPBV		97
83) NONANE	14.087	43	195685	9.38	PPBV	#	77
84) BROMOFORM	11.829	173	129165	9.77	PPBV	#	98
85) 1,1,2,2-TETRACHLOROETHANE	12.987	83	183225	10.64	PPBV		98
86) 1,2,3-TRICHLOROPROPANE	13.270	75	137385	10.19	PPBV		98
88) ISOPROPYLBENZENE	14.505	105	341685	10.22	PPBV	#	94
89) BROMOBENZENE	14.373	77	168862	10.47	PPBV		95
90) 2-CHLOROTOLUENE	15.527	91	239551	10.97	PPBV		99
91) N-PROPYLBENZENE	15.865	91	414101	11.24	PPBV	#	96
92) 4-ETHYLTOLUENE	16.202	105	346714	11.63	PPBV		100
93) 1,3,5-TRIMETHYLBENZENE	16.350	105	287636	11.41	PPBV		99
94) ALPHA-METHYLSTYRENE	16.546	118	154345	12.22	PPBV		98
95) TERT-BUTYLBENZENE	16.797	119	323671	11.45	PPBV		98
96) 1,2,4-TRIMETHYLBENZENE	16.807	105	301961	11.60	PPBV		96
97) BENZYL CHLORIDE	16.890	91	175655	11.13	PPBV		98
98) M-DICHLOROBENZENE	16.865	146	201520	11.13	PPBV		99
99) P-DICHLOROBENZENE	16.945	146	205959	11.40	PPBV		99
100) O-DICHLOROBENZENE	17.238	146	198777	11.22	PPBV		99
101) SEC-BUTYLBENZENE	17.074	105	444761	11.54	PPBV		99
102) 1,2,3-TRIMETHYLBENZENE	17.183	105	292962	11.49	PPBV		99
103) P-ISOPROPYLTOLUENE	17.247	119	381681	11.55	PPBV		97
104) N-BUTYLBENZENE	17.591	91	367185	12.50	PPBV		99
105) HEXACHLOROETHANE	17.771	117	126994	10.58	PPBV	#	90
106) HEXACHLOROBUTADIENE	18.797	225	148225	11.30	PPBV		99
107) 1,2,4-TRICHLOROBENZENE	18.495	180	177985	12.10	PPBV		99
108) NAPHTHALENE	18.543	128	483036	13.32	PPBV		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 6W26863.D
Acq On : 4 Nov 2022 9:36 am
Operator : thomash
Sample : cc1125-10
Misc : MS63483,V6W1138,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 08 15:58:48 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration



Manual Integration Approval Summary

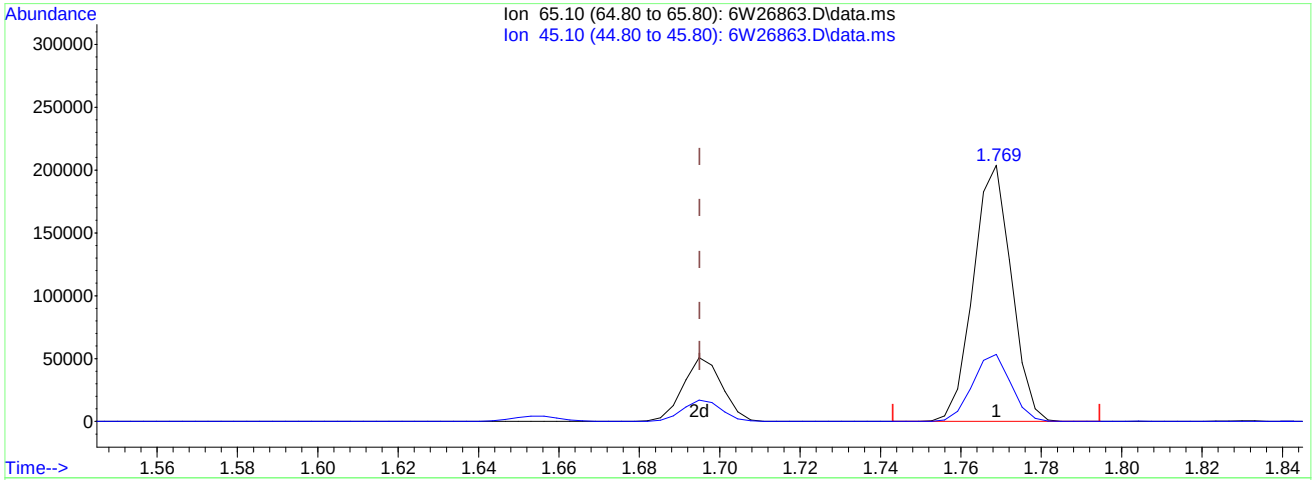
Sample Number:	V6W1138-CC1125	**Method:**	TO-15
Lab FileID:	6W26863.D	**Analyst approved:**	11/08/22 16:03 William Cruser
Injection Time:	11/04/22 09:36	**Supervisor approved:**	11/08/22 16:17 Kanya Veerawat

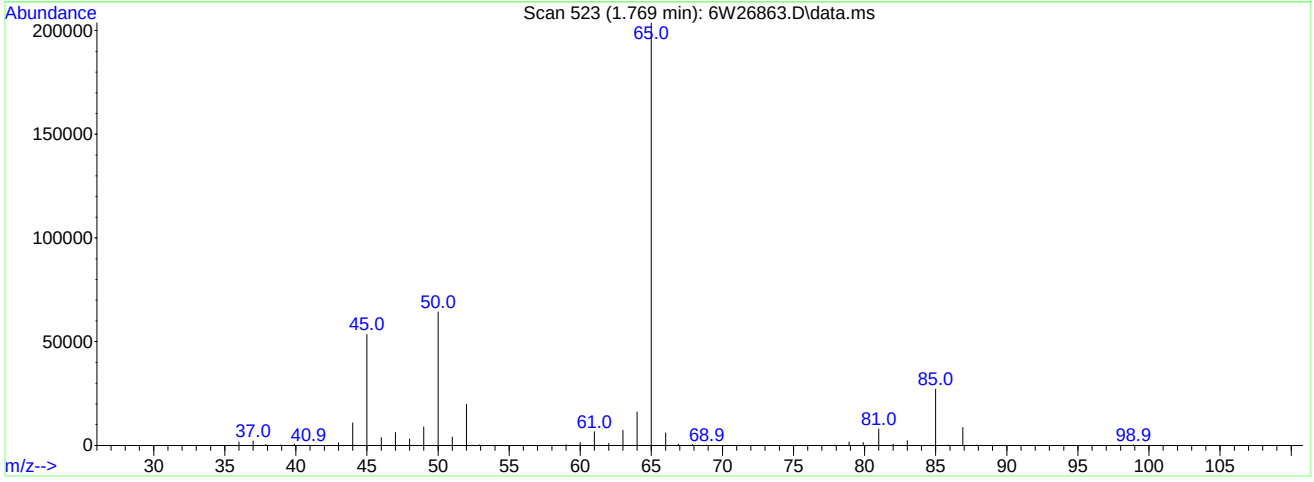
Parameter	CAS	Sig#	R.T. (min.)	Reason
Freon 152A	75-37-6		1.69	Missed peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26863.D
Acq On : 4 Nov 2022 9:36 am
Operator : thomash
Sample : cc1125-10
Misc : MS63483,V6W1138,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 05 10:25:30 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration





TIC: 6W26863.D\data.ms

(3) FREON 152A (T)

1.769min (+0.074) 34.43PPBV

response 134261

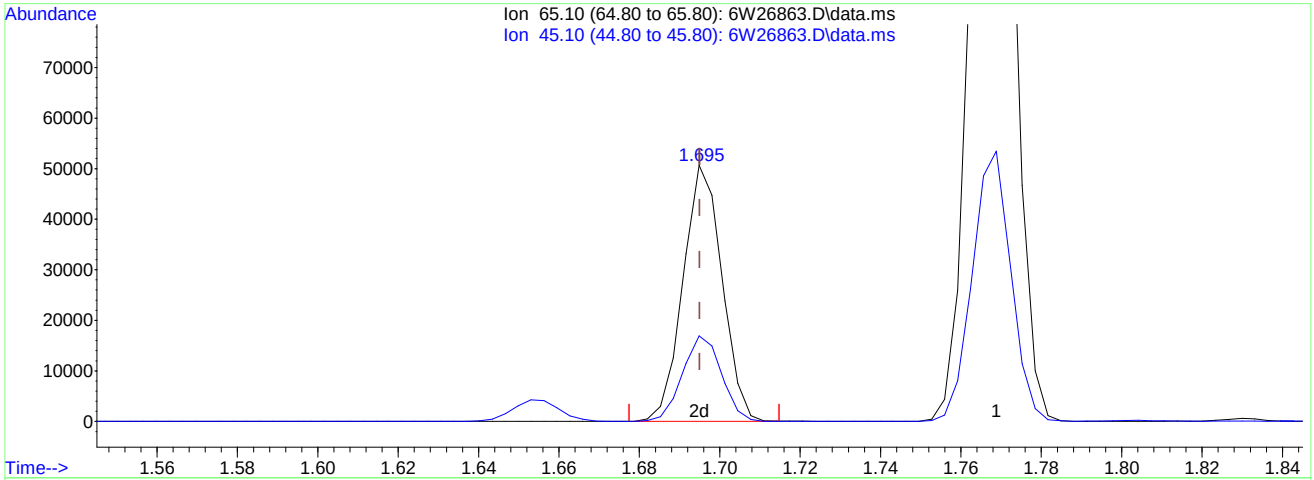
Ion	Exp%	Act%
65.10	100	100
45.10	22.90	26.54
0.00	0.00	0.00
0.00	0.00	0.00

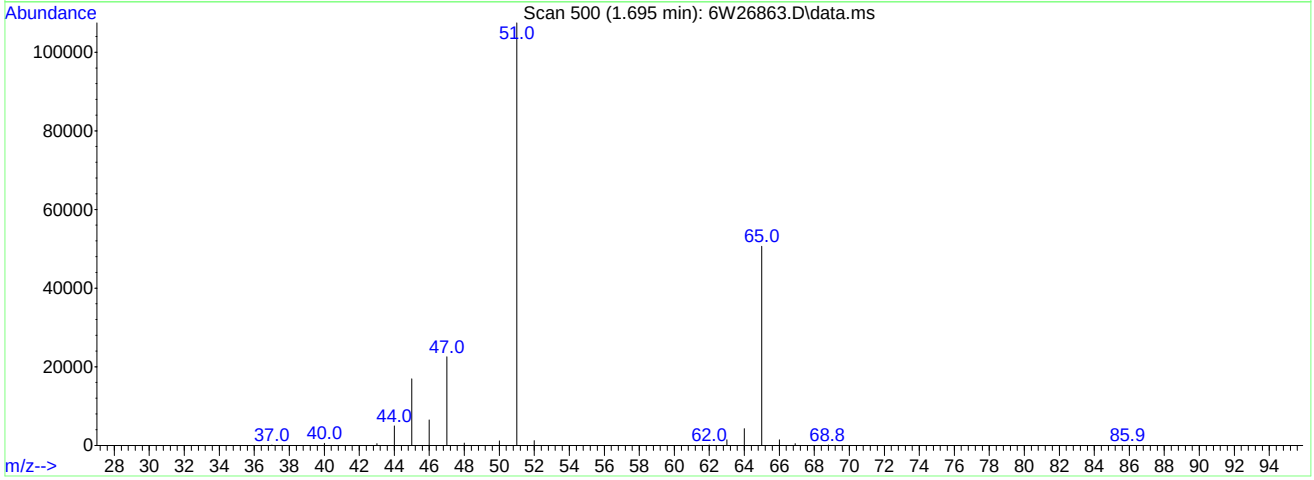
6W26863.D edits: FREON 152A

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 6W26863.D
Acq On : 4 Nov 2022 9:36 am
Operator : thomash
Sample : cc1125-10
Misc : MS63483,V6W1138,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 05 10:25:30 2022
Quant Method : C:\msdchem\1\methods\M6W1125.M
Quant Title : TO15 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Thu Oct 20 08:34:08 2022
Response via : Initial Calibration





TIC: 6W26863.D\data.ms

(3) FREON 152A (T)

1.695min (-0.000) 8.78PPBV m

response 34226

Ion	Exp%	Act%
65.10	100	100
45.10	22.90	104.12#
0.00	0.00	0.00
0.00	0.00	0.00

6W26863.D edits: FREON 152A

SGS

TO-15

Batch ID: V2W2709

Date: 8/19/22

Analyst Signature:

Columns: DB-1 30mx0.25mmx0.5µm
Method: 2WTO15.M
Seq. File: 2W20220819.S
Initial Cal. Method: M2W2709.M

AS Data

Method: TO15, 7200A.CTD

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
A91188	Int/Surr.	100ppbv
A93570	TO15 STD (A1784)	40ppbv
A89580	TO15 LCS (A965)	40ppbv
A89569	TO15 STD (A1810)	2ppbv

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the criteria of SGS SOP EQA044.

Supervisor Signature: Date: 8/22/2022

AS #	Data File	Sample ID	TEST	Canister Serial #	Vol Sample	Dil Fact	TICS	Int. STD Areas	Surr	Status Data	Comments
3	2W61006	IB		A962	20						
3	2W61007	IB		A962	20						
3	2W61008	IB		A962	20						
1	2W61009	BFB		A1810	20					OK	T=10:50
1	2W61010	IC2709-0.04		A1810	8			✓	✓	OK	
1	2W61011	IC2709-0.1		A1810	20			✓	✓	OK	
1	2W61012	IC2709-0.2		A1810	40			✓	✓	OK	
1	2W61013	IC2709-0.5		A1810	100			✓	✓	OK	
2	2W61014	IC2709-0.5		A1784	5						
2	2W61015	IC2709-5		A1784	50			✓	✓	OK	
2	2W61016	IC2709-10		A1784	100			✓	✓	OK	
2	2W61017	IC2709-20		A1784	200			✓	✓	OK	
2	2W61018	IC2709-40		A1784	400			✓	✓	OK	
2	2W61019	IC2709-50		A1784	500			✓	✓	OK	
3	2W61020	IB		A962	20						
3	2W61021	IB		A962	20						
4	2W61022	ICV2709-10		A965	100			✓	✓	OK	

8/22/2022

All strikeouts must be initial and dated. Comment is require for anything other than a transcription error.

SGS

TO-15

Batch ID: V2W2734

Date: 9/27/22

Analyst Signature:

Columns: DB-1 30mx0.25mmx0.5µm
Method: 2WTO15.M
Seq. File: 2W20220927.S
Initial Cal. Method: M2W2709.M

AS Data

Method: TO15.7200A.CTD

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
AS9188	Int/Surr.	1 ppbv
AS2596	TO15 STD (A771)	4 ppbv
AS9577	TNT STD (A1804)	2 ppbv

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the criteri of SGS SOP EQA044.

Supervisor Signature: Date: 9/27/2022.

AS #	Data File	Sample ID	TEST	Canister Serial #	Vol Sample	Dil Fact	TICS	Int. STD Areas	Surr	Status Data	Comments
1	2W61610	BFB		open pressure	400					SK	
2	2W61611	CC2709-10		A771	100			✓	✓	SK	
2	2W61612	BS		A771	100			✓	✓	SK	
2	2W61613	BSD		A771	100			✓	✓	SK	
3	2W61614	IB		A962	100			✓	✓	SK	
3	2W61615	MB		A962	400					—	
4	2W61616	JD52279-2	STD MS62390	A1582	400	1		✓	✓	SK	
5	2W61617	JD52279-4	✓	A1324	400	1		✓	✓	SK	
6	2W61618	JD52279-6	✓	M011	400	1		✓	✓	SK	
6	2W61619	JD52279-6DUP	✓	M011	400	1		✓	✓	SK	
7	2W61620	JD52481-1	STD MS62489	A1240	20	1		✓	✓	SK	
8	2W61621	JD52253-1	STD MS62371	A1145, A1249	100	148		✓	✓	SK/DL	
9	2W61622	SCC CP11870		A1094	400			✓	✓	SK/DL	
10	2W61623	SCC CP11874		A832	400			✓	✓	SK	
11	2W61624	SCC CP11857		A1858	400			✓	✓	SK	
12	2W61625	SCC CP11872		M441	100					NG	Acetone ↑ Reclean batch
13	2W61626	SCC CP11872		A385	100			✓	✓	SK	
14	2W61627	SCC CP11872		A801	100			✓	✓	SK	
1	2W61628	JD337733-3		A1804	20			✓	✓	SK	
1	2W61629	JD337733-3		A1804	20						0.1 ppbv
1	2W61630	JD337733-3		A1804	40						0.1 ppbv
1	2W61631	JD337733-3		A1804	40						0.2 ppbv
											0.2 ppbv

TH 9/28/22

All strikeouts must be initial and dated. Comment is require for anything other than a transcription error.

SGS

TO-15

Batch ID: V6W1077

Date: 8/4/2022

Analyst Signature:

Columns: DB-1 30m x 0.25mm x 0.5µm
Method: 6WTO15.M
Seq. File: 6W20220804.S
Initial Cal. Method: M6W1077.M

AS Data

Method: 6WTO15A.7209.OTB

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
AS9182	Int/Surr	100ppbv
AS9568	TO15 STD (A1799)	40ppbv
AS9567	TO15 STD (A1810)	20ppbv
AS9583	TO15 LCS (A1785)	40ppbv

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the criteri of SGS SOP EQA044.

Supervisor Signature: Date: 8/11/2022

AS #	Data File	Sample ID	TEST	Canister Serial #	Vol Sample	Dil Fact	TICS	Int. STD Areas	Surr	Status Data	Comments
3	6W25312	IB		A963	20					—	
3	6W25313	IB		A963	20					—	
3	6W25314	IB		A963	20					—	
1	6W25315	BFB		A1810	10					OK	
1	6W25316	IC1077-0.04		A1810	8					OK	
1	6W25317	IC1077-0.1		A1810	20					OK	
1	6W25318	IC1077-0.2		A1810	40					OK	
1	6W25319	IC1077-0.5		A1810	100					OK	
2	6W25320	IC1077-0.5		A1799	5					Not used	
2	6W25321	IC1077-5		A1799	50					OK	
2	6W25322	ICC1077-10		A1799	100					OK	
2	6W25323	IC1077-20		A1799	200					OK	
2	6W25324	~~IC~~ IC1077-40		A1799	400					OK	
2	6W25325	IC1077-50		A1799	500					OK	
3	6W25326	IB		A963	20					—	
3	6W25327	IB		A963	20					—	
4	6W25328	ICV1077-10		A1785	100					OK	

TH 8/5/22

All strikeouts must be initial and dated. Comment is require for anything other than a transcription error.

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DAYT-AIR-0006-06-FORM-TO15 Instrument Log 1/9/18

SGS

TO-15

Batch ID: V6W1083

Date: 8/11/22

Analyst Signature:

Columns: DB-1 30m x 0.25mm x 0.5µ

Method: 6WT015.M

Seq. File: 6W20220811.S

Initial Cal. Method: M6W1077.M

AS Data

Method: 6WT015A.72004.CTD

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
AS9188	Int/surr.	100 ppbv
AS9568	TO15 STD (A1799)	40 ppbv

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the crite of SGS SOP EQA044.

Supervisor Signature: Date: 8/16/2022

AS #	Data File	Sample ID	TEST	Canister Serial #	Vol Sample	Dil Fact	TICS	Int. STD Areas	Surr	Status Data	Comments
1	6W25438	BFB		open flow	400					OK	7:24AM
2	6W25439	CC1077-20		A1799	100			✓	✓	OK	
2	6W25440	BS		A1799	100			✓	✓	OK	
2	6W25441	BSD		A1799	100			✓	✓	OK	
3	6W25442	IB		A963	100					—	
3	6W25443	IB		A963	100					—	
3	6W25444	MB		A963	400			✓	✓	OK	
4	6W25445	JD497029-1	STD M361233	A2016	100	1		✓	✓	OK	
4	6W25446	JD497029-1DUP	SL	A2016	100	1		✓	✓	OK	
5	6W25447	JD433029-1	SL M360869	A1800	400	1		✓	✓	OK	
5	6W25448	JD433029-1	✓	A1800	20	1				Not used	Not needed
6	6W25449	IB		A1097	20					—	
6	6W25450	SCC CP11827		A1097	400					MV	TCE ↑ reexam batch
7	6W25451	SCC CP11839		A1481	400			✓	✓	OK	
8	6W25452	SCC CP11846		A406	100			✓	✓	OK	
9	6W25453	SCC CP11846		A423	100			✓	✓	OK	
10	6W25454	SCC CP11846		A537	100			✓	✓	OK	
11	6W25455	SCC CP11847		A255	400			✓	✓	OK	

JH 8/12/22

All strikeouts must be initial and dated. Comment is require for anything other than a transcription error.

SGS

TO-15

Batch ID: V6W1125

Analyst Signature:

Date: 10/19/2022

Columns: DB-1: 30m x 0.25mm x 0.5µm

Method: 6WTO15.M

Seq. File: 6W2022 1019.S

Initial Cal. Method: 6W1125.M

AS Data

Method: 6WTO15.T20.A.CD

Standard Data

Lot #	Description	Conc.
AS9620	TO15 LCS (A1805)	40ppbv

Standard Data

Lot #	Description	Conc.
AS9585	IS/SS	100ppbv
AS9618	TO15 LCS (A777)	40ppbv
AS9613	TO15 SD (A1824)	1ppbv
AS9617	TO15 SD (A1794)	40ppbv

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the criteria of SGS SOP EQA044.

Supervisor Signature: Date: 10/20/22

AS #	Data File	Sample ID	TEST	Canister Serial #	Vol Sample	Dil Fact	TICS	Int. STD Areas	Surr	Status Data	Comments
5	6W26446	BFB		OPEN	400					OK	
1	6W26447	FB		A1824	16					—	
1	6W26448	IC1125-0.04		A1824	16			✓	✓	OK	
1	6W26449	IC1125-0.1		A1824	40			✓	✓	OK	
1	6W26450	IC1125-0.2		A1824	80			✓	✓	OK	
1	6W26451	IC1125-0.5		A1824	200			✓	✓	OK	
2	6W26452	IC1125-0.5		A1794	5					not used	
2	6W26453	IC1125-5		A1794	50			✓	✓	OK	
2	6W26454	IC1125-10		A1794	100			✓	✓	OK	
2	6W26455	IC1125-20		A1794	200			✓	✓	OK	
2	6W26456	IC1125-40		A1794	400			✓	✓	OK	
2	6W26457	IC1125-50		A1794	500			✓	✓	OK	
3	6W26458	IB		A963	20					—	
3	6W26459	IB		A963	400					—	
4	6W26460	ICV1125-10		AS9618	~~400~~	BK 10/21/22				PM	
3	6W26461	IB		A963	400					—	
5	6W26462	ICV1125-10		A1805	100			✓	✓	OK	

10/20/22

All strikeouts must be initial and dated. Comment is require for anything other than a transcription error.

TO-15

Batch ID: V6W1137

Date: 11/3/22

Analyst Signature:

Columns: DB-1 30mx0.25mmx0.5µm
Method: 6WTO15.M
Seq. File: 6W20221103.S
Initial Cal. Method: M6W1125.M

AS Data

Method: 6WTO15.T2021.CDD

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
AS9585	Int/surr	100ppbv
AS9624	TO15 STD (A976)	40ppbv

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the criteria of SGS SOP EQA044.

Supervisor Signature: Date: 11/8/22

AS #	Data File	Sample ID	TEST	Canister Serial #	Vol Sample	Dil Fact	TICS	~~Int STD~~ Areas	Surr	Status Data	Comments
1-1	6w26822	BFB		NEW POSITION	400					OK	T= 9:04AM
1-2	6w26823	CCI125-10		A976	100			✓	✓	OK	
1-2	6w26824	BS		A976	100			✓	✓	OK	
1-2	6w26825	BSD		A976	100			✓	✓	OK	
2-1	6w26826	IB		A962	100					—	
2-1	6w26827	MB		A962	400					RR	NEW CAN ↑MeCl, ACC, ETOH
2-1	6w26828	MB		A958	400					RR	↑MeCl
2-2	6w26829	MB		A958	400					RR	↑MeCl
2-1	6w26830	MB		A962	400		+	✓	✓	OK	
2-2	6w26831	JD54092-8	SL1 MS63391	A1126	50	1		✓	✓	OK	
2-3	6w26832	JD54092-9	✓	A729	100	1		✓	✓	OK	
2-4	6w26833	JD53652-1	NAP, STD+ MS63088	A1125	100	1	+	✓	✓	OK	
2-4	6w26834	JD53652-1DUP	✓	A1125	100	1	+	✓	✓	OK	
2-5	6w26835	JD53652-2	✓	A526	100	1	+	✓	✓	OK	
2-6	6w26836	JD53651-2	STD+ MS63088	A2067	100	1	+	✓	✓	OK	
2-7	6w26837	JD53651-4	✓	A1911	20	1	+	✓	✓	OK/DL	
2-8	6w26838	JD53651-5	✓	A1957	50	1	+	✓	✓	OK	
2-9	6w26839	JD53715-3	STD MS63122	A807	100	1		✓	✓	OK	
2-10	6w26840	JD53736-1	PA+TMB MS63293	A794	100	1		✓	✓	OK	
2-11	6w26841	JD54338-1	NYSVOL MS63430	A502	100	1		✓	✓	OK/DL	ETHYL ACETATE + PR 10mL
2-12	6w26842	JD54338-2	✓	A409	148	1.48		✓	✓	OK	
2-13	6w26843	JD54337-4	NAP+TMB MS63437	A1985	100	1	+	✓	✓	OK	STD +, NAP
2-14	6w26844	JD54337-5	✓	A1940	100	1	+	✓	✓	OK	
2-15	6w26845	JD54342-1	STD MS63437	A1401	50	1		—	—	RR	200 DILUTE RR=4x
2-16	6w26846	JD54218-1	MS63395	M038	400	1		✓	✓	OK	
2-2	6w26847	JD54218-2	✓	A326	400	1		✓	✓	OK	
2-3	6w26848	JD54423-11	STD+ NAP MS63483	A790	100	1	+	✓	✓	OK	
2-4	6w26849	JD54423-12	✓	A529	100	1	+	✓	✓	OK	
2-5	6w26850	JD54423-14	✓	A420	50	1	+	—	—	RR	200 DILUTE RR=4x
2-6	6w26851	JD54423-15	✓	A571	50	1	+	—	—	RR	200 DILUTE RR=4x

All strikeouts must be initial and dated. Comment is require for anything other than a transcription error.

TO-15

Batch ID: V6W1137 (CONT.)

Date: 11/3/2022

Analyst Signature:

Columns: DB-1: 30m x 0.25mm x 0.5µm
Method: 6WTO15.M
Seq. File: 6W20221103.S
Initial Cal. Method: MCW1125.M

AS Data

Method: 6WTO15:7200A.CTD

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
AS9585	15155	100 ppbv
AS9624	TO-15 STD (A976)	40 ppbv

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the criteria of SGS SOP EQA044.

Supervisor Signature: Date: 11/8/22

AS #	Data File	Sample ID	TEST	Canister Serial #	Vol Sample	Dil Fact	TICS	Int. STD Areas	Surr	Status Data	Comments
2-7	6W26852	scc, CP11889		A583	100			✓	✓	OK	
2-8	6W26853	scc, CP11889		A432	100			✓	✓	OK	
2-9	6W26854	scc, CP11922		M180	100			✓	✓	OK	
2-10	6W26855	scc, CP11929		A718	100			✓	✓	OK	
2-11	6W26856	scc, CP11919		A664	400			✓	✓	OK	
2-12	6W26857	scc, CP11914		A1186	400			–	–	RECLEAN	↑ETOH = 2.44 ppbv
2-13	6W26858	scc, CP11916		A1180	400			–	–	RECLEAN	↑ACETONE = 0.35 ppbv
2-14	6W26859	scc, CP11920		A067	400			✓	✓	OK	
2-15	6W26860	scc, CP11923		A1268	400			✓	✓	OK	
2-16	6W26861	scc, CP11924		A1807	400			–	–	RECLEAN	↑CS_2 = 0.21 ppbv

MW 11/4/22

All strikeouts must be initial and dated. Comment is require for anything other than a transcription error.

TO-15

Batch ID: V6W1138

Date: 11/4/22

Analyst Signature:

Columns: DB-1 30m x 0.25mm x 0.5µm
Method: 6wTO15.m
Seq. File: 6wW0221104-5
Initial Cal. Method: MW1125.M

AS Data

Method: 6wTO15.7200A.CID

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
AS9585	Int/surr	100ppbv
AS9624	TO15 STD (A976)	4ppbv

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the criteria of SGS SOP EQA044.

Supervisor Signature: Date: 11/2/22

AS #	Data File	Sample ID	TEST	Canister Serial #	Vol Sample	Dil Fact	TICS	Int. STD Areas	Surr	Status Data	Comments
1-1	6w26862	BFB		0.5ppm POSITION	400			✓	✓	OK	T=9:04 AM
1-2	6w26863	CC1125-40		A976	100			✓	✓	OK	NAPT
1-2	6w26864	BS		A976	100			✓	✓	OK	NAPT
1-2	6w26865	BSD		A976	100			✓	✓	OK	NAPT
2-1	6w26866	IB		A962	100						
2-1	6w26867	MB		A962	400		+	✓	✓	OK	
2-2	6w26868	JD54338-1	NNVCL MS63437	A502	10	1		✓	✓	OK	
2-3	6w26869	JD54342-1	STD MS63437	A1401	~~100~~ 293	2.93		✓	✓	OK	
2-4	6w26870	JD54423-14	STD+, NAP MS63483	A420	100	1	+	✓	✓	OK	
2-5	6w26871	JD54423-15	✓	A571	100	1	+	✓	✓	OK	
2-5	6w26872	JD54423-15DUP	✓	A571	100	1	+	✓	✓	OK	
2-1	6w26873	IB		A962	20					—	
2-6	6w26874	JD54897-1	SL MS63704	TBAG	20	1		✓	✓	OK/DL	
2-1	6w26875	IB		A962	20					—	
2-6	6w26876	JD54897-1.	✓	TBAG	5	1		✓	✓	OK/DL	
2-1	6w26877	IB		A962	20					—	
2-7	6w26878	JD54897-2	✓	TBAG,TBAG	100	500		✓	✓	OK	
2-1	6w26879	IB		A962	20					—	
2-8	6w26880	JD54897-3	✓	TBAG,TBAG	80	1000		✓	✓	OK	
2-1	6w26881	IB		A962	20					—	
2-9	6w26882	JD53706-1	STD MS63127	A1928, A527	400	158		✓	✓	OK/DL	OVER CAL RR=50mL
2-10	6w26883	JD53706-2	✓	A932, A679	100	268		—	—	RR	TOO DILUTE
2-11	6w26884	JD53706-3	✓	A1388, A410	50	229		✓	✓	OK	
2-12	6w26885	JD54423-13	STD+, NAP MS63483	A450, A1102	20	128	+	—	—	RR	TOO DILUTE
2-13	6w26886	JD54898-1	CFORM-1 MS63705	TBAG	5	1					TOO DILUTE
2-14	6w26887	JD54899-1	✓	TBAG	20	1					
2-15	6w26888	JD54130-3	STD+ MS63316	A1863	400	1	+				
2-16	6w26889	JD54130-4	✓	A1531	100	1	+				
2-17	6w26890	JD54130-5	✓	A1953	100	1	+				
2-18	6w26891	JD54132-1	✓	A1908	100	1	+				

All strikeouts must be initial and dated. Comment is require for anything other than a transcription error.

SGS

TO-15

Batch ID: V6W1138

Analyst Signature:

Date: 11/4/22

Columns: DB-1 30m x 0.25mm x 0.5µm

Method: 6wTO15.m

Seq. File: 6w20221104.s

Initial Cal. Method: m6w1125.m

AS Data

Method: 6wTO15.m06A.cD

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
AS9585	int/surr	100ppbv
AS9624	TO15 STD (A976)	40ppbv

(M) Manually integrated chromatographic peaks in the following reportable file have been reviewed and verified to comply with the criteria of SGS SOP EQA044.

Supervisor Signature: Date: 11/8/22

AS #	Data File	Sample ID	TEST	Canister Serial #	Vol Sample	Dil Fact	TICS	Int. STD Areas	Surr	Status Data	Comments
2-4	6w26892	JD54485-3	STD MS65516	A1133	100	1					
2-5	6w26893	JD54485-4	✓	M200	100	1					
2-6	6w26894	JD54487-2	✓	A541	100	1					
2-7	6W26895	scc, CP11936		A1385	100	1		–	–	RECLEAN	↑CS_2 = 0.33 ppbv
2-8	6W26896	scc, CP11936		A1998	100	1		–	–	RECLEAN	↑CS_2 = 0.37 ppbv
2-9	6W26897	scc, CP11936		A544	100	1		–	–	RECLEAN	↑CS_2 = 0.77 ppbv
2-10	6W26898	scc, CP11930		MD14	400	1		–	–	RECLEAN	↑MEK = 3.05 ppbv
2-11	6W26899	scc, CP11939		M218	400	1		✓	✓	OK	
2-12	6W26900	scc, CP11928		A003	400	1		✓	✓	OK	↑RERUN, CLOSED VALVE ↑Acetone = 141 ppbv
2-13	6W26901	scc, CP11932		A1022	400	1		–	–	~~RECLEAN~~	
2-14	6W26902	scc, CP11933		A1086	400	1		✓	✓	OK	T = 7:27 PE 11/6/22

11/5/2022

All strikeouts must be initial and dated. Comment is require for anything other than a transcription error.

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

WSP USA Environment & Infrastructure Inc

EPT, Ithaca, NY

31405608.001 02

SGS Job Number: JD57555

Sampling Dates: 12/13/22 - 12/15/22



Report to:

dave.rykaczewski@wsp.com

ATTN: Distribution5

Total number of pages in report: 72

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

David Chastain
General Manager

Client Service contact: Tammy McCloskey 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA(68-00408), RI, SC, TX, UT, VA, WV

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Sample Summary

WSP USA Environment & Infrastructure Inc

Job No: JD57555

EPT, Ithaca, NY
Project No: 31405608.001 02

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
This report contains results reported as ND = Not detected. The following applies: Organics ND = Not detected above the MDL							
JD57555-1	12/13/22	09:15	NW	12/20/22	AQ	Ground Water	MW-7B
JD57555-2	12/13/22	09:30	NW	12/20/22	AQ	Ground Water	MW-36B
JD57555-3	12/13/22	09:45	NW	12/20/22	AQ	Ground Water	MW-46-72C
JD57555-4	12/13/22	10:00	NW	12/20/22	AQ	Ground Water	MW-46-43C
JD57555-5	12/13/22	15:20	NW	12/20/22	AQ	Ground Water	MW-8B
JD57555-6	12/14/22	08:00	NW	12/20/22	AQ	Ground Water	MW-5-25
JD57555-7	12/14/22	08:20	NW	12/20/22	AQ	Ground Water	MW-12C
JD57555-8	12/14/22	08:30	NW	12/20/22	AQ	Ground Water	MW-15C
JD57555-9	12/14/22	08:40	NW	12/20/22	AQ	Ground Water	MW-5-40
JD57555-10	12/14/22	08:50	NW	12/20/22	AQ	Ground Water	MW-5-100
JD57555-11	12/14/22	10:00	NW	12/20/22	AQ	Ground Water	MW-1
JD57555-11D	12/14/22	10:00	NW	12/20/22	AQ	Water Dup/MSD	MW-1-MSD

Sample Summary
(continued)

WSP USA Environment & Infrastructure Inc

Job No: JD57555

EPT, Ithaca, NY
Project No: 31405608.001 02

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JD57555-11S	12/14/22	10:00	NW	12/20/22	AQ	Water Matrix Spike	MW-1-MS
JD57555-12	12/14/22	10:20	NW	12/20/22	AQ	Ground Water	MW-3B
JD57555-13	12/14/22	07:20	NW	12/20/22	AQ	Ground Water	MW-1222A
JD57555-14	12/14/22	10:30	NW	12/20/22	AQ	Ground Water	MW-5B
JD57555-15	12/14/22	10:40	NW	12/20/22	AQ	Ground Water	MW-4B
JD57555-16	12/14/22	11:00	NW	12/20/22	AQ	Ground Water	MW-32B
JD57555-17	12/14/22	14:45	NW	12/20/22	AQ	Ground Water	MW-50-160D
JD57555-18	12/14/22	15:00	NW	12/20/22	AQ	Ground Water	EW-13
JD57555-19	12/14/22	15:45	NW	12/20/22	AQ	Equipment Blank	EB-121422
JD57555-20	12/15/22	09:25	NW	12/20/22	AQ	Ground Water	EXB-7
JD57555-20D	12/15/22	09:25	NW	12/20/22	AQ	Water Dup/MSD	EXB-7-MSD
JD57555-20S	12/15/22	09:25	NW	12/20/22	AQ	Water Matrix Spike	EXB-7-MS
JD57555-21	12/15/22	09:50	NW	12/20/22	AQ	Ground Water	EXB-10

Sample Summary
(continued)

WSP USA Environment & Infrastructure Inc

Job No: JD57555

EPT, Ithaca, NY
Project No: 31405608.001 02

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
JD57555-22	12/15/22	08:00	NW	12/20/22	AQ	Ground Water	MW-121522
JD57555-23	12/15/22	10:15	NW	12/20/22	AQ	Ground Water	EW-14
JD57555-24	12/15/22	10:30	NW	12/20/22	AQ	Ground Water	MW-13C
JD57555-25	12/15/22	10:05	NW	12/20/22	AQ	Equipment Blank	EB-121522
JD57555-26	12/15/22	11:45	NW	12/20/22	AQ	Ground Water	EXB-9
JD57555-27	12/15/22	11:45	NW	12/20/22	AQ	Trip Blank Water	TRIP BLANK

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	WSP USA Environment & Infrastructure Inc	**Job No**	JD57555
Site:	EPT, Ithaca, NY	**Report Date**	12/30/2022 5:48:19 P

On 12/20/2022, 26 Sample(s), 1 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of 3 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JD57555 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

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

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

MS Volatiles By Method SW846 8260D

Matrix: AQ **Batch ID:** V1A9792

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD57555-3MS, JD57555-3MSD were used as the QC samples indicated.
- JD57555-3MS/MSD Recovery(s) for cis-1,2-Dichloroethene are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- JD57555-4: Dilution required due to high concentration of target compound.
- JD57555-4 for Acetone, Bromomethane, 2-Hexanone, 2-Butanone (MEK): Associated CCV outside of control limits high, sample was ND.
- JD57555-1 for 2-Hexanone: Associated CCV outside of control limits high, sample was ND.
- JD57555-5 for Acetone: Associated CCV outside of control limits high, sample was ND.
- JD57555-5 for 2-Hexanone: Associated CCV outside of control limits high, sample was ND.
- JD57555-5 for 2-Butanone (MEK): Associated CCV outside of control limits high, sample was ND.
- JD57555-2 for Bromomethane: Associated CCV outside of control limits high, sample was ND.
- JD57555-2 for Acetone: Associated CCV outside of control limits high, sample was ND.
- JD57555-2 for 2-Hexanone: Associated CCV outside of control limits high, sample was ND.
- JD57555-2 for 2-Butanone (MEK): Associated CCV outside of control limits high, sample was ND.
- JD57555-1 for Bromomethane: Associated CCV outside of control limits high, sample was ND.
- JD57555-1 for Acetone: Associated CCV outside of control limits high, sample was ND.
- JD57555-1 for 2-Butanone (MEK): Associated CCV outside of control limits high, sample was ND.
- JD57555-5 for Bromomethane: Associated CCV outside of control limits high, sample was ND.

Matrix: AQ **Batch ID:** V1A9796

- All samples were analyzed within the recommended method holding time.
- Sample(s) JD57555-9MS, JD57555-9MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- JD57555-9MS/MSD Recovery(s) for cis-1,2-Dichloroethene are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- JD57555-12: Dilution required due to high concentration of target compound.
- JD57555-13: Dilution required due to high concentration of target compound.
- JD57555-9: Dilution required due to high concentration of target compound.
- JD57555-9 for Bromomethane: Associated CCV outside of control limits high, sample was ND.
- JD57555-12 for Bromomethane: Associated CCV outside of control limits high, sample was ND.

MS Volatiles By Method SW846 8260D

Matrix: AQ **Batch ID:** V1A9796

- JD57555-13 for Bromomethane: Associated CCV outside of control limits high, sample was ND.
- JD57555-6 for Bromomethane: Associated CCV outside of control limits high, sample was ND.
- JD57555-24 for Bromomethane: Associated CCV outside of control limits high, sample was ND.
- JD57555-10 for Bromomethane: Associated CCV outside of control limits high, sample was ND.
- JD57555-25 for Bromomethane: Associated CCV outside of control limits high, sample was ND.
- JD57555-18 for Bromomethane: Associated CCV outside of control limits high, sample was ND.

Matrix: AQ **Batch ID:** V1F47

- All samples were analyzed within the recommended method holding time.
- Sample(s) JD57401-1MS, JD57401-3DUP were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- JD57555-3: Dilution required due to high concentration of target compound.
- JD57555-3 for Bromomethane, Chloroethane, Methylene chloride, Trichlorofluoromethane, 2-Butanone (MEK): Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

Matrix: AQ **Batch ID:** V1F48

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD57555-20MS, JD57555-20MSD were used as the QC samples indicated.
- JD57555-20MS/MSD Recovery(s) for cis-1,2-Dichloroethene are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- JD57555-23 for Trichlorofluoromethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD57555-21 for Acetone: Associated CCV outside of control limits high, sample was ND.
- JD57555-21 for Bromomethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD57555-21 for Chloroethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD57555-21 for Trichlorofluoromethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD57555-8 for Trichlorofluoromethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD57555-20 for Chloroethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD57555-20 for Bromomethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD57555-20 for Acetone: Associated CCV outside of control limits high, sample was ND.
- JD57555-23 for Bromomethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD57555-8 for Acetone: Associated CCV outside of control limits high.
- JD57555-8 for Bromomethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD57555-20 for Trichlorofluoromethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD57555-8 for Chloroethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD57555-15 for Acetone: Associated CCV outside of control limits high, sample was ND.
- JD57555-15 for Bromomethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

MS Volatiles By Method SW846 8260D

Matrix: AQ **Batch ID:** V1F48

- JD57555-15 for Chloroethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD57555-23 for Acetone: Associated CCV outside of control limits high.
- JD57555-15 for Trichlorofluoromethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD57555-23 for Chloroethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

Matrix: AQ **Batch ID:** V1F52

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD57555-17MS, JD57555-17MSD were used as the QC samples indicated.
- JD57555-17MS/MSD Recovery(s) for cis-1,2-Dichloroethene are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- JD57555-17: Dilution required due to high concentration of target compound.
- JD57555-17 for Acetone, Chloroethane: Associated CCV outside of control limits high, sample was ND.
- JD57555-17 for Bromomethane, Carbon tetrachloride: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

Matrix: AQ **Batch ID:** V2F48

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD57555-11MS, JD57555-11MSD were used as the QC samples indicated.
- JD57555-7 for Chloroethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD57555-27 for Chloroethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD57555-27 for Bromomethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD57555-16 for Bromomethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD57555-16 for Chloroethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD57555-16 for Acetone: Associated CCV outside of control limits high, sample was ND.
- JD57555-27 for Chloroform: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD57555-19 for Bromomethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD57555-19 for Acetone: Associated CCV outside of control limits high, sample was ND.
- JD57555-7 for Chloroform: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD57555-11 for Acetone: Associated CCV outside of control limits high, sample was ND.
- JD57555-7 for Acetone: Associated CCV outside of control limits high, sample was ND.
- JD57555-22 for Bromomethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD57555-19 for Chloroform: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD57555-19 for Chloroethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD57555-7 for Bromomethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

MS Volatiles By Method SW846 8260D

Matrix: AQ **Batch ID:** V2F48

- JD57555-16 for Chloroform: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD57555-14 for Acetone: Associated CCV outside of control limits high, sample was ND.
- JD57555-14 for Bromomethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD57555-11 for Chloroform: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD57555-22 for Chloroethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD57555-22 for Chloroform: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD57555-27 for Acetone: Associated CCV outside of control limits high, sample was ND.
- JD57555-14 for Chloroethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD57555-14 for Chloroform: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD57555-22 for Acetone: Associated CCV outside of control limits high, sample was ND.
- JD57555-11 for Chloroethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD57555-11 for Bromomethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

Matrix: AQ **Batch ID:** V2F52

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- JD57555-26 for Acetone: Associated CCV outside of control limits high, sample was ND.
- JD57555-26 for Chloroethane: Associated CCV outside of control limits high, sample was ND.
- JD57555-26 for Bromomethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD57567-15MS for Cyclohexane: Outside control limits due to matrix interference.
- JD57567-15MS, JD57567-15MSD are used as QC samples.
- JD57567-15MS/MSD for Toluene: Outside control limits due to high level in sample relative to spike amount.
- JD57567-15MSD for Cyclohexane: Outside control limits due to matrix interference.
- RPD of JD57567-15MSD for Chloromethane: Outside control limits due to matrix interference.

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

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

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

Summary of Hits

Job Number: JD57555
Account: WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY
Collected: 12/13/22 thru 12/15/22

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD57555-1	**MW-7B**					
cis-1,2-Dichloroethene		1.2	1.0	0.51	ug/l	SW846 8260D
JD57555-2	**MW-36B**					
cis-1,2-Dichloroethene		7.5	1.0	0.51	ug/l	SW846 8260D
Trichloroethene		1.8	1.0	0.53	ug/l	SW846 8260D
JD57555-3	**MW-46-72C**					
cis-1,2-Dichloroethene		13500	250	130	ug/l	SW846 8260D
trans-1,2-Dichloroethene [a]		41.1	25	13	ug/l	SW846 8260D
Trichloroethene [a]		3180	25	13	ug/l	SW846 8260D
Vinyl chloride [a]		2360	25	13	ug/l	SW846 8260D
JD57555-4	**MW-46-43C**					
cis-1,2-Dichloroethene [a]		12300	100	51	ug/l	SW846 8260D
trans-1,2-Dichloroethene [a]		142	100	54	ug/l	SW846 8260D
Vinyl chloride [a]		7460	100	52	ug/l	SW846 8260D
JD57555-5	**MW-8B**					
cis-1,2-Dichloroethene		0.51 J	1.0	0.51	ug/l	SW846 8260D
JD57555-6	**MW-5-25**					
Acetone		6.9 J	10	3.1	ug/l	SW846 8260D
cis-1,2-Dichloroethene		0.70 J	1.0	0.51	ug/l	SW846 8260D
JD57555-7	**MW-12C**					
cis-1,2-Dichloroethene		3.2	1.0	0.51	ug/l	SW846 8260D
JD57555-8	**MW-15C**					
Acetone [b]		6.4 J	10	3.1	ug/l	SW846 8260D
cis-1,2-Dichloroethene		347	10	5.1	ug/l	SW846 8260D
trans-1,2-Dichloroethene		0.91 J	1.0	0.54	ug/l	SW846 8260D
Trichloroethene		176	10	5.3	ug/l	SW846 8260D
Vinyl chloride		35.1	1.0	0.52	ug/l	SW846 8260D

Summary of Hits

Job Number: JD57555
Account: WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY
Collected: 12/13/22 thru 12/15/22

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD57555-9	**MW-5-40**					
1,1-Dichloroethene [a]		13.7	10	5.9	ug/l	SW846 8260D
cis-1,2-Dichloroethene		7780	100	51	ug/l	SW846 8260D
trans-1,2-Dichloroethene [a]		56.2	10	5.4	ug/l	SW846 8260D
Trichloroethene [a]		1720	10	5.3	ug/l	SW846 8260D
Vinyl chloride [a]		1060	10	5.2	ug/l	SW846 8260D
JD57555-10	**MW-5-100**					
Chloroethane		5.5	1.0	0.73	ug/l	SW846 8260D
cis-1,2-Dichloroethene		20.1	1.0	0.51	ug/l	SW846 8260D
Vinyl chloride		21.6	1.0	0.52	ug/l	SW846 8260D
JD57555-11	**MW-1**					
cis-1,2-Dichloroethene		0.63 J	1.0	0.51	ug/l	SW846 8260D
JD57555-12	**MW-3B**					
1,1-Dichloroethene [a]		8.3	5.0	3.0	ug/l	SW846 8260D
cis-1,2-Dichloroethene		4990	50	25	ug/l	SW846 8260D
trans-1,2-Dichloroethene [a]		27.1	5.0	2.7	ug/l	SW846 8260D
Trichloroethene		1170	50	26	ug/l	SW846 8260D
Vinyl chloride [a]		133	5.0	2.6	ug/l	SW846 8260D
JD57555-13	**MW-1222A**					
1,1-Dichloroethene [a]		8.2	5.0	3.0	ug/l	SW846 8260D
cis-1,2-Dichloroethene		4900	50	25	ug/l	SW846 8260D
trans-1,2-Dichloroethene [a]		27.3	5.0	2.7	ug/l	SW846 8260D
Trichloroethene		1190	50	26	ug/l	SW846 8260D
Vinyl chloride [a]		140	5.0	2.6	ug/l	SW846 8260D
JD57555-14	**MW-5B**					
cis-1,2-Dichloroethene		198	10	5.1	ug/l	SW846 8260D
trans-1,2-Dichloroethene		2.3	1.0	0.54	ug/l	SW846 8260D
Tetrachloroethene		1.1	1.0	0.56	ug/l	SW846 8260D
Trichloroethene		569	10	5.3	ug/l	SW846 8260D
JD57555-15	**MW-4B**					
cis-1,2-Dichloroethene		0.95 J	1.0	0.51	ug/l	SW846 8260D
Vinyl chloride		10.5	1.0	0.52	ug/l	SW846 8260D

Summary of Hits

Job Number: JD57555
Account: WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY
Collected: 12/13/22 thru 12/15/22

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD57555-16	**MW-32B**					
cis-1,2-Dichloroethene		4.8	1.0	0.51	ug/l	SW846 8260D
Trichloroethene		24.1	1.0	0.53	ug/l	SW846 8260D
JD57555-17	**MW-50-160D**					
cis-1,2-Dichloroethene [a]		2910	20	10	ug/l	SW846 8260D
Vinyl chloride [a]		1040	20	10	ug/l	SW846 8260D
JD57555-18	**EW-13**					
Acetone		11.6	10	3.1	ug/l	SW846 8260D
Bromodichloromethane		3.4	1.0	0.45	ug/l	SW846 8260D
Chloroform		21.6	1.0	0.50	ug/l	SW846 8260D
Dibromochloromethane		0.91 J	1.0	0.56	ug/l	SW846 8260D
cis-1,2-Dichloroethene		23.3	1.0	0.51	ug/l	SW846 8260D
Toluene		1.7	1.0	0.49	ug/l	SW846 8260D
Trichloroethene		4.0	1.0	0.53	ug/l	SW846 8260D
Vinyl chloride		3.6	1.0	0.52	ug/l	SW846 8260D
JD57555-19	**EB-121422**					
No hits reported in this sample.						
JD57555-20	**EXB-7**					
1,1-Dichloroethene		1.7	1.0	0.59	ug/l	SW846 8260D
cis-1,2-Dichloroethene		1550	20	10	ug/l	SW846 8260D
trans-1,2-Dichloroethene		13.8	1.0	0.54	ug/l	SW846 8260D
Trichloroethene		60.1	1.0	0.53	ug/l	SW846 8260D
Vinyl chloride		13.4	1.0	0.52	ug/l	SW846 8260D
JD57555-21	**EXB-10**					
Benzene		0.91	0.50	0.43	ug/l	SW846 8260D
Cyclohexane		1.8 J	5.0	0.78	ug/l	SW846 8260D
cis-1,2-Dichloroethene		1.8	1.0	0.51	ug/l	SW846 8260D
Methylcyclohexane		1.4 J	5.0	0.60	ug/l	SW846 8260D
Vinyl chloride		0.97 J	1.0	0.52	ug/l	SW846 8260D
JD57555-22	**MW-121522**					
Benzene		0.93	0.50	0.43	ug/l	SW846 8260D

Summary of Hits

Job Number: JD57555
Account: WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY
Collected: 12/13/22 thru 12/15/22

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Cyclohexane		1.8 J	5.0	0.78	ug/l	SW846 8260D
cis-1,2-Dichloroethene		1.7	1.0	0.51	ug/l	SW846 8260D
Methylcyclohexane		1.1 J	5.0	0.60	ug/l	SW846 8260D
Vinyl chloride		1.1	1.0	0.52	ug/l	SW846 8260D
JD57555-23	**EW-14**					
Acetone [b]		3.3 J	10	3.1	ug/l	SW846 8260D
Bromodichloromethane		2.1	1.0	0.45	ug/l	SW846 8260D
Chloroform		12.5	1.0	0.50	ug/l	SW846 8260D
Dibromochloromethane		0.68 J	1.0	0.56	ug/l	SW846 8260D
cis-1,2-Dichloroethene		25.6	1.0	0.51	ug/l	SW846 8260D
Toluene		0.61 J	1.0	0.49	ug/l	SW846 8260D
Trichloroethene		13.6	1.0	0.53	ug/l	SW846 8260D
Vinyl chloride		29.8	1.0	0.52	ug/l	SW846 8260D
JD57555-24	**MW-13C**					
Benzene		1.3	0.50	0.43	ug/l	SW846 8260D
Chloroethane		1.4	1.0	0.73	ug/l	SW846 8260D
Chloroform		0.52 J	1.0	0.50	ug/l	SW846 8260D
cis-1,2-Dichloroethene		125	1.0	0.51	ug/l	SW846 8260D
Trichloroethene		184	1.0	0.53	ug/l	SW846 8260D
Vinyl chloride		4.7	1.0	0.52	ug/l	SW846 8260D
JD57555-25	**EB-121522**					
Carbon disulfide		0.60 J	2.0	0.46	ug/l	SW846 8260D
JD57555-26	**EXB-9**					
No hits reported in this sample.						
JD57555-27	**TRIP BLANK**					
No hits reported in this sample.						

(a) Dilution required due to high concentration of target compound.
(b) Associated CCV outside of control limits high.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW-7B		
Lab Sample ID:	JD57555-1	**Date Sampled:**	12/13/22
Matrix:	AQ - Ground Water	**Date Received:**	12/20/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	EPT, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1A229090.D	1	12/21/22 19:16	NW	n/a	n/a	V1A9792
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	ND	10	3.1	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane [a]	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK) [a]	ND	10	2.7	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.53	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	1.2	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113	ND	5.0	0.58	ug/l	
591-78-6	2-Hexanone [a]	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	

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

Report of Analysis

Client Sample ID:	MW-7B		
Lab Sample ID:	JD57555-1	**Date Sampled:**	12/13/22
Matrix:	AQ - Ground Water	**Date Received:**	12/20/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	EPT, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.56	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.52	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		80-120%
17060-07-0	1,2-Dichloroethane-D4	111%		80-120%
2037-26-5	Toluene-D8	101%		80-120%
460-00-4	4-Bromofluorobenzene	97%		82-114%

(a) Associated CCV outside of control limits high, sample was ND.

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

Report of Analysis

Client Sample ID:	MW-36B		
Lab Sample ID:	JD57555-2	**Date Sampled:**	12/13/22
Matrix:	AQ - Ground Water	**Date Received:**	12/20/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	EPT, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1A229091.D	1	12/21/22 19:40	NW	n/a	n/a	V1A9792
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	ND	10	3.1	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane [a]	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK) [a]	ND	10	2.7	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.53	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	7.5	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113	ND	5.0	0.58	ug/l	
591-78-6	2-Hexanone [a]	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	

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

Report of Analysis

Client Sample ID:	MW-36B		
Lab Sample ID:	JD57555-2	**Date Sampled:**	12/13/22
Matrix:	AQ - Ground Water	**Date Received:**	12/20/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	EPT, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.56	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	1.8	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.52	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		80-120%
17060-07-0	1,2-Dichloroethane-D4	113%		80-120%
2037-26-5	Toluene-D8	100%		80-120%
460-00-4	4-Bromofluorobenzene	97%		82-114%

(a) Associated CCV outside of control limits high, sample was ND.

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

Report of Analysis

Client Sample ID:	MW-46-72C		
Lab Sample ID:	JD57555-3	**Date Sampled:**	12/13/22
Matrix:	AQ - Ground Water	**Date Received:**	12/20/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	EPT, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	1F1313.D	25	12/22/22 13:27	ED	n/a	n/a	V1F47
Run #2	1A229083.D	250	12/21/22 16:29	NW	n/a	n/a	V1A9792

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	250	76	ug/l	
71-43-2	Benzene	ND	13	11	ug/l	
75-27-4	Bromodichloromethane	ND	25	11	ug/l	
75-25-2	Bromoform	ND	25	16	ug/l	
74-83-9	Bromomethane [b]	ND	50	41	ug/l	
78-93-3	2-Butanone (MEK) [b]	ND	250	68	ug/l	
75-15-0	Carbon disulfide	ND	50	11	ug/l	
56-23-5	Carbon tetrachloride	ND	25	14	ug/l	
108-90-7	Chlorobenzene	ND	25	14	ug/l	
75-00-3	Chloroethane [b]	ND	25	18	ug/l	
67-66-3	Chloroform	ND	25	13	ug/l	
74-87-3	Chloromethane	ND	25	19	ug/l	
110-82-7	Cyclohexane	ND	130	20	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	50	13	ug/l	
124-48-1	Dibromochloromethane	ND	25	14	ug/l	
106-93-4	1,2-Dibromoethane	ND	25	12	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	25	13	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	25	14	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	25	13	ug/l	
75-71-8	Dichlorodifluoromethane	ND	50	14	ug/l	
75-34-3	1,1-Dichloroethane	ND	25	14	ug/l	
107-06-2	1,2-Dichloroethane	ND	25	15	ug/l	
75-35-4	1,1-Dichloroethene	ND	25	15	ug/l	
156-59-2	cis-1,2-Dichloroethene	13500 [c]	250	130	ug/l	
156-60-5	trans-1,2-Dichloroethene	41.1	25	13	ug/l	
78-87-5	1,2-Dichloropropane	ND	25	13	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	25	12	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	25	11	ug/l	
100-41-4	Ethylbenzene	ND	25	15	ug/l	
76-13-1	Freon 113	ND	130	15	ug/l	
591-78-6	2-Hexanone	ND	130	51	ug/l	
98-82-8	Isopropylbenzene	ND	25	16	ug/l	

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

Report of Analysis

Client Sample ID:	MW-46-72C		
Lab Sample ID:	JD57555-3	**Date Sampled:**	12/13/22
Matrix:	AQ - Ground Water	**Date Received:**	12/20/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	EPT, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	130	20	ug/l	
108-87-2	Methylcyclohexane	ND	130	15	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	25	13	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	130	46	ug/l	
75-09-2	Methylene chloride [b]	ND	50	25	ug/l	
100-42-5	Styrene	ND	25	12	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	25	16	ug/l	
127-18-4	Tetrachloroethene	ND	25	14	ug/l	
108-88-3	Toluene	ND	25	12	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	25	13	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	25	13	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	25	13	ug/l	
79-01-6	Trichloroethene	3180	25	13	ug/l	
75-69-4	Trichlorofluoromethane [b]	ND	50	10	ug/l	
75-01-4	Vinyl chloride	2360	25	13	ug/l	
1330-20-7	Xylene (total)	ND	25	15	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	86%	113%	80-120%
17060-07-0	1,2-Dichloroethane-D4	87%	114%	80-120%
2037-26-5	Toluene-D8	99%	99%	80-120%
460-00-4	4-Bromofluorobenzene	98%	99%	82-114%

(a) Dilution required due to high concentration of target compound.
(b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
(c) Result is from Run# 2

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

Report of Analysis

Client Sample ID:	MW-46-43C		
Lab Sample ID:	JD57555-4	**Date Sampled:**	12/13/22
Matrix:	AQ - Ground Water	**Date Received:**	12/20/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	EPT, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	1A229089.D	100	12/21/22 18:53	NW	n/a	n/a	V1A9792
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [b]	ND	1000	310	ug/l	
71-43-2	Benzene	ND	50	43	ug/l	
75-27-4	Bromodichloromethane	ND	100	45	ug/l	
75-25-2	Bromoform	ND	100	63	ug/l	
74-83-9	Bromomethane [b]	ND	200	160	ug/l	
78-93-3	2-Butanone (MEK) [b]	ND	1000	270	ug/l	
75-15-0	Carbon disulfide	ND	200	46	ug/l	
56-23-5	Carbon tetrachloride	ND	100	55	ug/l	
108-90-7	Chlorobenzene	ND	100	56	ug/l	
75-00-3	Chloroethane	ND	100	73	ug/l	
67-66-3	Chloroform	ND	100	50	ug/l	
74-87-3	Chloromethane	ND	100	76	ug/l	
110-82-7	Cyclohexane	ND	500	78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	200	53	ug/l	
124-48-1	Dibromochloromethane	ND	100	56	ug/l	
106-93-4	1,2-Dibromoethane	ND	100	48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	100	53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	100	54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	100	51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	200	56	ug/l	
75-34-3	1,1-Dichloroethane	ND	100	57	ug/l	
107-06-2	1,2-Dichloroethane	ND	100	60	ug/l	
75-35-4	1,1-Dichloroethene	ND	100	59	ug/l	
156-59-2	cis-1,2-Dichloroethene	12300	100	51	ug/l	
156-60-5	trans-1,2-Dichloroethene	142	100	54	ug/l	
78-87-5	1,2-Dichloropropane	ND	100	51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	100	47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	100	43	ug/l	
100-41-4	Ethylbenzene	ND	100	60	ug/l	
76-13-1	Freon 113	ND	500	58	ug/l	
591-78-6	2-Hexanone [b]	ND	500	200	ug/l	
98-82-8	Isopropylbenzene	ND	100	65	ug/l	

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

Report of Analysis

Client Sample ID:	MW-46-43C		
Lab Sample ID:	JD57555-4	**Date Sampled:**	12/13/22
Matrix:	AQ - Ground Water	**Date Received:**	12/20/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	EPT, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	500	80	ug/l	
108-87-2	Methylcyclohexane	ND	500	60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	100	51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	500	190	ug/l	
75-09-2	Methylene chloride	ND	200	100	ug/l	
100-42-5	Styrene	ND	100	49	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	100	65	ug/l	
127-18-4	Tetrachloroethene	ND	100	56	ug/l	
108-88-3	Toluene	ND	100	49	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	100	50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	100	54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	100	53	ug/l	
79-01-6	Trichloroethene	ND	100	53	ug/l	
75-69-4	Trichlorofluoromethane	ND	200	40	ug/l	
75-01-4	Vinyl chloride	7460	100	52	ug/l	
1330-20-7	Xylene (total)	ND	100	59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		80-120%
17060-07-0	1,2-Dichloroethane-D4	113%		80-120%
2037-26-5	Toluene-D8	100%		80-120%
460-00-4	4-Bromofluorobenzene	99%		82-114%

(a) Dilution required due to high concentration of target compound.
(b) Associated CCV outside of control limits high, sample was ND.

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

Report of Analysis

Client Sample ID:	MW-8B		
Lab Sample ID:	JD57555-5	**Date Sampled:**	12/13/22
Matrix:	AQ - Ground Water	**Date Received:**	12/20/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	EPT, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1A229092.D	1	12/21/22 20:04	NW	n/a	n/a	V1A9792
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	ND	10	3.1	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane [a]	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK) [a]	ND	10	2.7	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.53	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	0.51	1.0	0.51	ug/l	J
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113	ND	5.0	0.58	ug/l	
591-78-6	2-Hexanone [a]	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	

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

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

Report of Analysis

Client Sample ID:	MW-8B		
Lab Sample ID:	JD57555-5	**Date Sampled:**	12/13/22
Matrix:	AQ - Ground Water	**Date Received:**	12/20/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	EPT, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.56	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.52	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		80-120%
17060-07-0	1,2-Dichloroethane-D4	109%		80-120%
2037-26-5	Toluene-D8	102%		80-120%
460-00-4	4-Bromofluorobenzene	103%		82-114%

(a) Associated CCV outside of control limits high, sample was ND.

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

Report of Analysis

Client Sample ID:	MW-5-25		
Lab Sample ID:	JD57555-6	**Date Sampled:**	12/14/22
Matrix:	AQ - Ground Water	**Date Received:**	12/20/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	EPT, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1A229204.D	1	12/23/22 18:42	NW	n/a	n/a	V1A9796
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	6.9	10	3.1	ug/l	J
71-43-2	Benzene	ND	0.50	0.43	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane [a]	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.7	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.53	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	0.70	1.0	0.51	ug/l	J
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113	ND	5.0	0.58	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	

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

Report of Analysis

Client Sample ID:	MW-5-25		
Lab Sample ID:	JD57555-6	**Date Sampled:**	12/14/22
Matrix:	AQ - Ground Water	**Date Received:**	12/20/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	EPT, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.56	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.52	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		80-120%
17060-07-0	1,2-Dichloroethane-D4	110%		80-120%
2037-26-5	Toluene-D8	99%		80-120%
460-00-4	4-Bromofluorobenzene	96%		82-114%

(a) Associated CCV outside of control limits high, sample was ND.

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

Report of Analysis

Client Sample ID:	MW-12C		
Lab Sample ID:	JD57555-7	**Date Sampled:**	12/14/22
Matrix:	AQ - Ground Water	**Date Received:**	12/20/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	EPT, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2F1356.D	1	12/23/22 03:47	ED	n/a	n/a	V2F48
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	ND	10	3.1	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane [b]	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.7	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane [b]	ND	1.0	0.73	ug/l	
67-66-3	Chloroform [b]	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.53	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	3.2	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113	ND	5.0	0.58	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	

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

Report of Analysis

Client Sample ID:	MW-12C		
Lab Sample ID:	JD57555-7	**Date Sampled:**	12/14/22
Matrix:	AQ - Ground Water	**Date Received:**	12/20/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	EPT, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.56	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.52	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	86%		80-120%
17060-07-0	1,2-Dichloroethane-D4	93%		80-120%
2037-26-5	Toluene-D8	100%		80-120%
460-00-4	4-Bromofluorobenzene	98%		82-114%

(a) Associated CCV outside of control limits high, sample was ND.
(b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

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

Report of Analysis

Client Sample ID:	MW-15C		
Lab Sample ID:	JD57555-8	**Date Sampled:**	12/14/22
Matrix:	AQ - Ground Water	**Date Received:**	12/20/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	EPT, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1F1357.D	1	12/23/22 04:07	ED	n/a	n/a	V1F48
Run #2	1A229193.D	10	12/23/22 14:19	NW	n/a	n/a	V1A9796

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	6.4	10	3.1	ug/l	J
71-43-2	Benzene	ND	0.50	0.43	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane [b]	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.7	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane [b]	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.53	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	347 [c]	10	5.1	ug/l	
156-60-5	trans-1,2-Dichloroethene	0.91	1.0	0.54	ug/l	J
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113	ND	5.0	0.58	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	

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

Report of Analysis

Client Sample ID:	MW-15C		
Lab Sample ID:	JD57555-8	**Date Sampled:**	12/14/22
Matrix:	AQ - Ground Water	**Date Received:**	12/20/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	EPT, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.56	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	176 [c]	10	5.3	ug/l	
75-69-4	Trichlorofluoromethane [b]	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride	35.1	1.0	0.52	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	85%	109%	80-120%
17060-07-0	1,2-Dichloroethane-D4	87%	111%	80-120%
2037-26-5	Toluene-D8	102%	99%	80-120%
460-00-4	4-Bromofluorobenzene	104%	98%	82-114%

(a) Associated CCV outside of control limits high.
(b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
(c) Result is from Run# 2

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

Report of Analysis

Client Sample ID:	MW-5-40		
Lab Sample ID:	JD57555-9	**Date Sampled:**	12/14/22
Matrix:	AQ - Ground Water	**Date Received:**	12/20/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	EPT, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	1A229207.D	10	12/23/22 19:54	NW	n/a	n/a	V1A9796
Run #2	1F1503.D	100	12/28/22 13:21	ED	n/a	n/a	V1F52

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	100	31	ug/l	
71-43-2	Benzene	ND	5.0	4.3	ug/l	
75-27-4	Bromodichloromethane	ND	10	4.5	ug/l	
75-25-2	Bromoform	ND	10	6.3	ug/l	
74-83-9	Bromomethane [b]	ND	20	16	ug/l	
78-93-3	2-Butanone (MEK)	ND	100	27	ug/l	
75-15-0	Carbon disulfide	ND	20	4.6	ug/l	
56-23-5	Carbon tetrachloride	ND	10	5.5	ug/l	
108-90-7	Chlorobenzene	ND	10	5.6	ug/l	
75-00-3	Chloroethane	ND	10	7.3	ug/l	
67-66-3	Chloroform	ND	10	5.0	ug/l	
74-87-3	Chloromethane	ND	10	7.6	ug/l	
110-82-7	Cyclohexane	ND	50	7.8	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	20	5.3	ug/l	
124-48-1	Dibromochloromethane	ND	10	5.6	ug/l	
106-93-4	1,2-Dibromoethane	ND	10	4.8	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	10	5.3	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	10	5.4	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	10	5.1	ug/l	
75-71-8	Dichlorodifluoromethane	ND	20	5.6	ug/l	
75-34-3	1,1-Dichloroethane	ND	10	5.7	ug/l	
107-06-2	1,2-Dichloroethane	ND	10	6.0	ug/l	
75-35-4	1,1-Dichloroethene	13.7	10	5.9	ug/l	
156-59-2	cis-1,2-Dichloroethene	7780 [c]	100	51	ug/l	
156-60-5	trans-1,2-Dichloroethene	56.2	10	5.4	ug/l	
78-87-5	1,2-Dichloropropane	ND	10	5.1	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	10	4.7	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	10	4.3	ug/l	
100-41-4	Ethylbenzene	ND	10	6.0	ug/l	
76-13-1	Freon 113	ND	50	5.8	ug/l	
591-78-6	2-Hexanone	ND	50	20	ug/l	
98-82-8	Isopropylbenzene	ND	10	6.5	ug/l	

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

Report of Analysis

Client Sample ID:	MW-5-40		
Lab Sample ID:	JD57555-9	**Date Sampled:**	12/14/22
Matrix:	AQ - Ground Water	**Date Received:**	12/20/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	EPT, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	50	8.0	ug/l	
108-87-2	Methylcyclohexane	ND	50	6.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	10	5.1	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	50	19	ug/l	
75-09-2	Methylene chloride	ND	20	10	ug/l	
100-42-5	Styrene	ND	10	4.9	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	10	6.5	ug/l	
127-18-4	Tetrachloroethene	ND	10	5.6	ug/l	
108-88-3	Toluene	ND	10	4.9	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	10	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	10	5.4	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	10	5.3	ug/l	
79-01-6	Trichloroethene	1720	10	5.3	ug/l	
75-69-4	Trichlorofluoromethane	ND	20	4.0	ug/l	
75-01-4	Vinyl chloride	1060	10	5.2	ug/l	
1330-20-7	Xylene (total)	ND	10	5.9	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%	87%	80-120%
17060-07-0	1,2-Dichloroethane-D4	109%	89%	80-120%
2037-26-5	Toluene-D8	98%	104%	80-120%
460-00-4	4-Bromofluorobenzene	100%	98%	82-114%

(a) Dilution required due to high concentration of target compound.
(b) Associated CCV outside of control limits high, sample was ND.
(c) Result is from Run# 2

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

Report of Analysis

Client Sample ID:	MW-5-100		
Lab Sample ID:	JD57555-10	**Date Sampled:**	12/14/22
Matrix:	AQ - Ground Water	**Date Received:**	12/20/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	EPT, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1A229205.D	1	12/23/22 19:06	NW	n/a	n/a	V1A9796
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.1	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane [a]	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.7	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	5.5	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.53	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	20.1	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113	ND	5.0	0.58	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	

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

Report of Analysis

Client Sample ID:	MW-5-100		
Lab Sample ID:	JD57555-10	**Date Sampled:**	12/14/22
Matrix:	AQ - Ground Water	**Date Received:**	12/20/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	EPT, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.56	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride	21.6	1.0	0.52	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		80-120%
17060-07-0	1,2-Dichloroethane-D4	110%		80-120%
2037-26-5	Toluene-D8	99%		80-120%
460-00-4	4-Bromofluorobenzene	95%		82-114%

(a) Associated CCV outside of control limits high, sample was ND.

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

Report of Analysis

Client Sample ID:	MW-1		
Lab Sample ID:	JD57555-11	**Date Sampled:**	12/14/22
Matrix:	AQ - Ground Water	**Date Received:**	12/20/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	EPT, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2F1346.D	1	12/23/22 00:23	ED	n/a	n/a	V2F48
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	ND	10	3.1	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane [b]	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.7	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane [b]	ND	1.0	0.73	ug/l	
67-66-3	Chloroform [b]	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.53	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	0.63	1.0	0.51	ug/l	J
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113	ND	5.0	0.58	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	

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

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

Report of Analysis

Client Sample ID:	MW-1		
Lab Sample ID:	JD57555-11	**Date Sampled:**	12/14/22
Matrix:	AQ - Ground Water	**Date Received:**	12/20/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	EPT, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.56	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.52	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	87%		80-120%
17060-07-0	1,2-Dichloroethane-D4	95%		80-120%
2037-26-5	Toluene-D8	98%		80-120%
460-00-4	4-Bromofluorobenzene	96%		82-114%

(a) Associated CCV outside of control limits high, sample was ND.
(b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

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

Report of Analysis

Client Sample ID:	MW-3B		
Lab Sample ID:	JD57555-12	**Date Sampled:**	12/14/22
Matrix:	AQ - Ground Water	**Date Received:**	12/20/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	EPT, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	1A229210.D	5	12/23/22 21:05	NW	n/a	n/a	V1A9796
Run #2	1F1499.D	50	12/28/22 12:03	ED	n/a	n/a	V1F52

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	50	15	ug/l	
71-43-2	Benzene	ND	2.5	2.1	ug/l	
75-27-4	Bromodichloromethane	ND	5.0	2.3	ug/l	
75-25-2	Bromoform	ND	5.0	3.2	ug/l	
74-83-9	Bromomethane [b]	ND	10	8.2	ug/l	
78-93-3	2-Butanone (MEK)	ND	50	14	ug/l	
75-15-0	Carbon disulfide	ND	10	2.3	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	2.8	ug/l	
108-90-7	Chlorobenzene	ND	5.0	2.8	ug/l	
75-00-3	Chloroethane	ND	5.0	3.6	ug/l	
67-66-3	Chloroform	ND	5.0	2.5	ug/l	
74-87-3	Chloromethane	ND	5.0	3.8	ug/l	
110-82-7	Cyclohexane	ND	25	3.9	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	2.6	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	2.8	ug/l	
106-93-4	1,2-Dibromoethane	ND	5.0	2.4	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.0	2.7	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	2.7	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.0	2.5	ug/l	
75-71-8	Dichlorodifluoromethane	ND	10	2.8	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	2.8	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	3.0	ug/l	
75-35-4	1,1-Dichloroethene	8.3	5.0	3.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	4990 [c]	50	25	ug/l	
156-60-5	trans-1,2-Dichloroethene	27.1	5.0	2.7	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	2.5	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	2.4	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	2.2	ug/l	
100-41-4	Ethylbenzene	ND	5.0	3.0	ug/l	
76-13-1	Freon 113	ND	25	2.9	ug/l	
591-78-6	2-Hexanone	ND	25	10	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	3.2	ug/l	

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

Report of Analysis

Client Sample ID:	MW-3B		
Lab Sample ID:	JD57555-12	**Date Sampled:**	12/14/22
Matrix:	AQ - Ground Water	**Date Received:**	12/20/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	EPT, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	25	4.0	ug/l	
108-87-2	Methylcyclohexane	ND	25	3.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	2.5	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	25	9.3	ug/l	
75-09-2	Methylene chloride	ND	10	5.0	ug/l	
100-42-5	Styrene	ND	5.0	2.4	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	3.3	ug/l	
127-18-4	Tetrachloroethene	ND	5.0	2.8	ug/l	
108-88-3	Toluene	ND	5.0	2.5	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	2.5	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	2.7	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	2.7	ug/l	
79-01-6	Trichloroethene	1170 [c]	50	26	ug/l	
75-69-4	Trichlorofluoromethane	ND	10	2.0	ug/l	
75-01-4	Vinyl chloride	133	5.0	2.6	ug/l	
1330-20-7	Xylene (total)	ND	5.0	3.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%	89%	80-120%
17060-07-0	1,2-Dichloroethane-D4	109%	91%	80-120%
2037-26-5	Toluene-D8	100%	103%	80-120%
460-00-4	4-Bromofluorobenzene	99%	100%	82-114%

(a) Dilution required due to high concentration of target compound.
(b) Associated CCV outside of control limits high, sample was ND.
(c) Result is from Run# 2

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

Report of Analysis

Client Sample ID:	MW-1222A		
Lab Sample ID:	JD57555-13	**Date Sampled:**	12/14/22
Matrix:	AQ - Ground Water	**Date Received:**	12/20/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	EPT, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	1A229211.D	5	12/23/22 21:29	NW	n/a	n/a	V1A9796
Run #2	2F1500.D	50	12/28/22 12:22	ED	n/a	n/a	V2F52

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	50	15	ug/l	
71-43-2	Benzene	ND	2.5	2.1	ug/l	
75-27-4	Bromodichloromethane	ND	5.0	2.3	ug/l	
75-25-2	Bromoform	ND	5.0	3.2	ug/l	
74-83-9	Bromomethane [b]	ND	10	8.2	ug/l	
78-93-3	2-Butanone (MEK)	ND	50	14	ug/l	
75-15-0	Carbon disulfide	ND	10	2.3	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	2.8	ug/l	
108-90-7	Chlorobenzene	ND	5.0	2.8	ug/l	
75-00-3	Chloroethane	ND	5.0	3.6	ug/l	
67-66-3	Chloroform	ND	5.0	2.5	ug/l	
74-87-3	Chloromethane	ND	5.0	3.8	ug/l	
110-82-7	Cyclohexane	ND	25	3.9	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	2.6	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	2.8	ug/l	
106-93-4	1,2-Dibromoethane	ND	5.0	2.4	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.0	2.7	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	2.7	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.0	2.5	ug/l	
75-71-8	Dichlorodifluoromethane	ND	10	2.8	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	2.8	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	3.0	ug/l	
75-35-4	1,1-Dichloroethene	8.2	5.0	3.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	4900 [c]	50	25	ug/l	
156-60-5	trans-1,2-Dichloroethene	27.3	5.0	2.7	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	2.5	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	2.4	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	2.2	ug/l	
100-41-4	Ethylbenzene	ND	5.0	3.0	ug/l	
76-13-1	Freon 113	ND	25	2.9	ug/l	
591-78-6	2-Hexanone	ND	25	10	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	3.2	ug/l	

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

Report of Analysis

Client Sample ID:	MW-1222A		
Lab Sample ID:	JD57555-13	**Date Sampled:**	12/14/22
Matrix:	AQ - Ground Water	**Date Received:**	12/20/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	EPT, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	25	4.0	ug/l	
108-87-2	Methylcyclohexane	ND	25	3.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	2.5	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	25	9.3	ug/l	
75-09-2	Methylene chloride	ND	10	5.0	ug/l	
100-42-5	Styrene	ND	5.0	2.4	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	3.3	ug/l	
127-18-4	Tetrachloroethene	ND	5.0	2.8	ug/l	
108-88-3	Toluene	ND	5.0	2.5	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	2.5	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	2.7	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	2.7	ug/l	
79-01-6	Trichloroethene	1190 [c]	50	26	ug/l	
75-69-4	Trichlorofluoromethane	ND	10	2.0	ug/l	
75-01-4	Vinyl chloride	140	5.0	2.6	ug/l	
1330-20-7	Xylene (total)	ND	5.0	3.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%	91%	80-120%
17060-07-0	1,2-Dichloroethane-D4	110%	96%	80-120%
2037-26-5	Toluene-D8	99%	101%	80-120%
460-00-4	4-Bromofluorobenzene	101%	96%	82-114%

(a) Dilution required due to high concentration of target compound.
(b) Associated CCV outside of control limits high, sample was ND.
(c) Result is from Run# 2

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

Report of Analysis

Client Sample ID:	MW-5B		
Lab Sample ID:	JD57555-14	**Date Sampled:**	12/14/22
Matrix:	AQ - Ground Water	**Date Received:**	12/20/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	EPT, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2F1367.D	1	12/23/22 07:30	ED	n/a	n/a	V2F48
Run #2	2F1352.D	10	12/23/22 02:26	ED	n/a	n/a	V2F48

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	ND	10	3.1	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane [b]	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.7	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane [b]	ND	1.0	0.73	ug/l	
67-66-3	Chloroform [b]	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.53	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	198 [c]	10	5.1	ug/l	
156-60-5	trans-1,2-Dichloroethene	2.3	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113	ND	5.0	0.58	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	

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

Report of Analysis

Client Sample ID:	MW-5B		
Lab Sample ID:	JD57555-14	**Date Sampled:**	12/14/22
Matrix:	AQ - Ground Water	**Date Received:**	12/20/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	EPT, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	1.1	1.0	0.56	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	569 [c]	10	5.3	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.52	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	85%	86%	80-120%
17060-07-0	1,2-Dichloroethane-D4	88%	92%	80-120%
2037-26-5	Toluene-D8	100%	98%	80-120%
460-00-4	4-Bromofluorobenzene	98%	98%	82-114%

(a) Associated CCV outside of control limits high, sample was ND.
(b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
(c) Result is from Run# 2

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

Report of Analysis

Client Sample ID:	MW-4B		
Lab Sample ID:	JD57555-15	**Date Sampled:**	12/14/22
Matrix:	AQ - Ground Water	**Date Received:**	12/20/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	EPT, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1F1359.D	1	12/23/22 04:46	ED	n/a	n/a	V1F48
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	ND	10	3.1	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane [b]	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.7	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane [b]	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.53	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	0.95	1.0	0.51	ug/l	J
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113	ND	5.0	0.58	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	

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

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

Report of Analysis

Client Sample ID:	MW-4B		
Lab Sample ID:	JD57555-15	**Date Sampled:**	12/14/22
Matrix:	AQ - Ground Water	**Date Received:**	12/20/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	EPT, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.56	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane [b]	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride	10.5	1.0	0.52	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	85%		80-120%
17060-07-0	1,2-Dichloroethane-D4	85%		80-120%
2037-26-5	Toluene-D8	100%		80-120%
460-00-4	4-Bromofluorobenzene	103%		82-114%

(a) Associated CCV outside of control limits high, sample was ND.
(b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

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

Report of Analysis

Client Sample ID:	MW-32B		
Lab Sample ID:	JD57555-16	**Date Sampled:**	12/14/22
Matrix:	AQ - Ground Water	**Date Received:**	12/20/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	EPT, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2F1360.D	1	12/23/22 05:06	ED	n/a	n/a	V2F48
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	ND	10	3.1	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane [b]	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.7	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane [b]	ND	1.0	0.73	ug/l	
67-66-3	Chloroform [b]	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.53	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	4.8	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113	ND	5.0	0.58	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	

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

Report of Analysis

Client Sample ID:	MW-32B		
Lab Sample ID:	JD57555-16	**Date Sampled:**	12/14/22
Matrix:	AQ - Ground Water	**Date Received:**	12/20/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	EPT, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.56	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	24.1	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.52	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	86%		80-120%
17060-07-0	1,2-Dichloroethane-D4	89%		80-120%
2037-26-5	Toluene-D8	100%		80-120%
460-00-4	4-Bromofluorobenzene	101%		82-114%

(a) Associated CCV outside of control limits high, sample was ND.
(b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

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

Report of Analysis

Client Sample ID:	MW-50-160D		
Lab Sample ID:	JD57555-17	**Date Sampled:**	12/14/22
Matrix:	AQ - Ground Water	**Date Received:**	12/20/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	EPT, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	1F1501.D	20	12/28/22 12:42	ED	n/a	n/a	V1F52
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [b]	ND	200	61	ug/l	
71-43-2	Benzene	ND	10	8.5	ug/l	
75-27-4	Bromodichloromethane	ND	20	9.0	ug/l	
75-25-2	Bromoform	ND	20	13	ug/l	
74-83-9	Bromomethane [c]	ND	40	33	ug/l	
78-93-3	2-Butanone (MEK)	ND	200	55	ug/l	
75-15-0	Carbon disulfide	ND	40	9.1	ug/l	
56-23-5	Carbon tetrachloride [c]	ND	20	11	ug/l	
108-90-7	Chlorobenzene	ND	20	11	ug/l	
75-00-3	Chloroethane [b]	ND	20	15	ug/l	
67-66-3	Chloroform	ND	20	10	ug/l	
74-87-3	Chloromethane	ND	20	15	ug/l	
110-82-7	Cyclohexane	ND	100	16	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	40	11	ug/l	
124-48-1	Dibromochloromethane	ND	20	11	ug/l	
106-93-4	1,2-Dibromoethane	ND	20	9.5	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	20	11	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	20	11	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	20	10	ug/l	
75-71-8	Dichlorodifluoromethane	ND	40	11	ug/l	
75-34-3	1,1-Dichloroethane	ND	20	11	ug/l	
107-06-2	1,2-Dichloroethane	ND	20	12	ug/l	
75-35-4	1,1-Dichloroethene	ND	20	12	ug/l	
156-59-2	cis-1,2-Dichloroethene	2910	20	10	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	20	11	ug/l	
78-87-5	1,2-Dichloropropane	ND	20	10	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	20	9.4	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	20	8.6	ug/l	
100-41-4	Ethylbenzene	ND	20	12	ug/l	
76-13-1	Freon 113 [c]	ND	100	12	ug/l	
591-78-6	2-Hexanone	ND	100	41	ug/l	
98-82-8	Isopropylbenzene	ND	20	13	ug/l	

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

Report of Analysis

Client Sample ID:	MW-50-160D		
Lab Sample ID:	JD57555-17	**Date Sampled:**	12/14/22
Matrix:	AQ - Ground Water	**Date Received:**	12/20/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	EPT, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	100	16	ug/l	
108-87-2	Methylcyclohexane	ND	100	12	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	20	10	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	100	37	ug/l	
75-09-2	Methylene chloride	ND	40	20	ug/l	
100-42-5	Styrene	ND	20	9.7	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	20	13	ug/l	
127-18-4	Tetrachloroethene	ND	20	11	ug/l	
108-88-3	Toluene	ND	20	9.8	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	20	10	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	20	11	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	20	11	ug/l	
79-01-6	Trichloroethene	ND	20	11	ug/l	
75-69-4	Trichlorofluoromethane	ND	40	8.0	ug/l	
75-01-4	Vinyl chloride	1040	20	10	ug/l	
1330-20-7	Xylene (total)	ND	20	12	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%		80-120%
17060-07-0	1,2-Dichloroethane-D4	89%		80-120%
2037-26-5	Toluene-D8	103%		80-120%
460-00-4	4-Bromofluorobenzene	98%		82-114%

(a) Dilution required due to high concentration of target compound.
(b) Associated CCV outside of control limits high, sample was ND.
(c) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

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

Report of Analysis

Client Sample ID:	EW-13		
Lab Sample ID:	JD57555-18	**Date Sampled:**	12/14/22
Matrix:	AQ - Ground Water	**Date Received:**	12/20/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	EPT, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1A229206.D	1	12/23/22 19:30	NW	n/a	n/a	V1A9796
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	11.6	10	3.1	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
75-27-4	Bromodichloromethane	3.4	1.0	0.45	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane [a]	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.7	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	21.6	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.53	ug/l	
124-48-1	Dibromochloromethane	0.91	1.0	0.56	ug/l	J
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	23.3	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113	ND	5.0	0.58	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	

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

Report of Analysis

Client Sample ID:	EW-13		
Lab Sample ID:	JD57555-18	**Date Sampled:**	12/14/22
Matrix:	AQ - Ground Water	**Date Received:**	12/20/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	EPT, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.56	ug/l	
108-88-3	Toluene	1.7	1.0	0.49	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	4.0	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride	3.6	1.0	0.52	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		80-120%
17060-07-0	1,2-Dichloroethane-D4	111%		80-120%
2037-26-5	Toluene-D8	99%		80-120%
460-00-4	4-Bromofluorobenzene	98%		82-114%

(a) Associated CCV outside of control limits high, sample was ND.

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

Report of Analysis

Client Sample ID:	EB-121422		
Lab Sample ID:	JD57555-19	**Date Sampled:**	12/14/22
Matrix:	AQ - Equipment Blank	**Date Received:**	12/20/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	EPT, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2F1362.D	1	12/23/22 05:46	ED	n/a	n/a	V2F48
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	ND	10	3.1	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane [b]	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.7	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane [b]	ND	1.0	0.73	ug/l	
67-66-3	Chloroform [b]	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.53	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113	ND	5.0	0.58	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	

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

Report of Analysis

Client Sample ID:	EB-121422		
Lab Sample ID:	JD57555-19	**Date Sampled:**	12/14/22
Matrix:	AQ - Equipment Blank	**Date Received:**	12/20/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	EPT, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.56	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.52	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	86%		80-120%
17060-07-0	1,2-Dichloroethane-D4	93%		80-120%
2037-26-5	Toluene-D8	98%		80-120%
460-00-4	4-Bromofluorobenzene	98%		82-114%

(a) Associated CCV outside of control limits high, sample was ND.
(b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

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

Report of Analysis

Client Sample ID:	EXB-7		
Lab Sample ID:	JD57555-20	**Date Sampled:**	12/15/22
Matrix:	AQ - Ground Water	**Date Received:**	12/20/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	EPT, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1F1347.D	1	12/23/22 00:43	ED	n/a	n/a	V1F48
Run #2	1A229196.D	20	12/23/22 15:30	NW	n/a	n/a	V1A9796

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	ND	10	3.1	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane [b]	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.7	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane [b]	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.53	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	1.7	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	1550 [c]	20	10	ug/l	
156-60-5	trans-1,2-Dichloroethene	13.8	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113	ND	5.0	0.58	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	

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

Report of Analysis

Client Sample ID:	EXB-7		
Lab Sample ID:	JD57555-20	**Date Sampled:**	12/15/22
Matrix:	AQ - Ground Water	**Date Received:**	12/20/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	EPT, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.56	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	60.1	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane [b]	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride	13.4	1.0	0.52	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	84%	110%	80-120%
17060-07-0	1,2-Dichloroethane-D4	86%	112%	80-120%
2037-26-5	Toluene-D8	101%	98%	80-120%
460-00-4	4-Bromofluorobenzene	99%	101%	82-114%

(a) Associated CCV outside of control limits high, sample was ND.
(b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
(c) Result is from Run# 2

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

Report of Analysis

Client Sample ID:	EXB-10		
Lab Sample ID:	JD57555-21	**Date Sampled:**	12/15/22
Matrix:	AQ - Ground Water	**Date Received:**	12/20/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	EPT, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1F1363.D	1	12/23/22 06:05	ED	n/a	n/a	V1F48
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	ND	10	3.1	ug/l	
71-43-2	Benzene	0.91	0.50	0.43	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane [b]	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.7	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane [b]	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane	1.8	5.0	0.78	ug/l	J
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.53	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	1.8	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113	ND	5.0	0.58	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	

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

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

Report of Analysis

Client Sample ID:	EXB-10		
Lab Sample ID:	JD57555-21	**Date Sampled:**	12/15/22
Matrix:	AQ - Ground Water	**Date Received:**	12/20/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	EPT, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane	1.4	5.0	0.60	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.56	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane [b]	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride	0.97	1.0	0.52	ug/l	J
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	85%		80-120%
17060-07-0	1,2-Dichloroethane-D4	86%		80-120%
2037-26-5	Toluene-D8	100%		80-120%
460-00-4	4-Bromofluorobenzene	101%		82-114%

(a) Associated CCV outside of control limits high, sample was ND.
(b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

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

Report of Analysis

Client Sample ID:	MW-121522		
Lab Sample ID:	JD57555-22	**Date Sampled:**	12/15/22
Matrix:	AQ - Ground Water	**Date Received:**	12/20/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	EPT, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2F1364.D	1	12/23/22 06:25	ED	n/a	n/a	V2F48
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	ND	10	3.1	ug/l	
71-43-2	Benzene	0.93	0.50	0.43	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane [b]	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.7	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane [b]	ND	1.0	0.73	ug/l	
67-66-3	Chloroform [b]	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane	1.8	5.0	0.78	ug/l	J
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.53	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	1.7	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113	ND	5.0	0.58	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	

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

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

Report of Analysis

Client Sample ID:	MW-121522		
Lab Sample ID:	JD57555-22	**Date Sampled:**	12/15/22
Matrix:	AQ - Ground Water	**Date Received:**	12/20/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	EPT, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane	1.1	5.0	0.60	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.56	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride	1.1	1.0	0.52	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	85%		80-120%
17060-07-0	1,2-Dichloroethane-D4	90%		80-120%
2037-26-5	Toluene-D8	99%		80-120%
460-00-4	4-Bromofluorobenzene	98%		82-114%

(a) Associated CCV outside of control limits high, sample was ND.
(b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

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

Report of Analysis

Client Sample ID:	EW-14		
Lab Sample ID:	JD57555-23	**Date Sampled:**	12/15/22
Matrix:	AQ - Ground Water	**Date Received:**	12/20/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	EPT, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1F1365.D	1	12/23/22 06:45	ED	n/a	n/a	V1F48
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	3.3	10	3.1	ug/l	J
71-43-2	Benzene	ND	0.50	0.43	ug/l	
75-27-4	Bromodichloromethane	2.1	1.0	0.45	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane [b]	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.7	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane [b]	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	12.5	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.53	ug/l	
124-48-1	Dibromochloromethane	0.68	1.0	0.56	ug/l	J
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	25.6	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113	ND	5.0	0.58	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	

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

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

Report of Analysis

Client Sample ID:	EW-14		
Lab Sample ID:	JD57555-23	**Date Sampled:**	12/15/22
Matrix:	AQ - Ground Water	**Date Received:**	12/20/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	EPT, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.56	ug/l	
108-88-3	Toluene	0.61	1.0	0.49	ug/l	J
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	13.6	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane [b]	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride	29.8	1.0	0.52	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	84%		80-120%
17060-07-0	1,2-Dichloroethane-D4	84%		80-120%
2037-26-5	Toluene-D8	101%		80-120%
460-00-4	4-Bromofluorobenzene	101%		82-114%

(a) Associated CCV outside of control limits high.
(b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

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

Report of Analysis

Client Sample ID:	MW-13C		
Lab Sample ID:	JD57555-24	**Date Sampled:**	12/15/22
Matrix:	AQ - Ground Water	**Date Received:**	12/20/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	EPT, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1A229192.D	1	12/23/22 13:55	NW	n/a	n/a	V1A9796
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.1	ug/l	
71-43-2	Benzene	1.3	0.50	0.43	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane [a]	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.7	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	1.4	1.0	0.73	ug/l	
67-66-3	Chloroform	0.52	1.0	0.50	ug/l	J
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.53	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	125	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113	ND	5.0	0.58	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	

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

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

Report of Analysis

Client Sample ID:	MW-13C		
Lab Sample ID:	JD57555-24	**Date Sampled:**	12/15/22
Matrix:	AQ - Ground Water	**Date Received:**	12/20/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	EPT, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.56	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	184	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride	4.7	1.0	0.52	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		80-120%
17060-07-0	1,2-Dichloroethane-D4	109%		80-120%
2037-26-5	Toluene-D8	99%		80-120%
460-00-4	4-Bromofluorobenzene	98%		82-114%

(a) Associated CCV outside of control limits high, sample was ND.

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

Report of Analysis

Client Sample ID:	EB-121522		
Lab Sample ID:	JD57555-25	**Date Sampled:**	12/15/22
Matrix:	AQ - Equipment Blank	**Date Received:**	12/20/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	EPT, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1A229189.D	1	12/23/22 12:43	NW	n/a	n/a	V1A9796
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.1	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane [a]	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.7	ug/l	
75-15-0	Carbon disulfide	0.60	2.0	0.46	ug/l	J
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.53	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113	ND	5.0	0.58	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	

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

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

Report of Analysis

Client Sample ID:	EB-121522		
Lab Sample ID:	JD57555-25	**Date Sampled:**	12/15/22
Matrix:	AQ - Equipment Blank	**Date Received:**	12/20/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	EPT, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.56	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.52	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		80-120%
17060-07-0	1,2-Dichloroethane-D4	112%		80-120%
2037-26-5	Toluene-D8	98%		80-120%
460-00-4	4-Bromofluorobenzene	98%		82-114%

(a) Associated CCV outside of control limits high, sample was ND.

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

Report of Analysis

Client Sample ID:	EXB-9		
Lab Sample ID:	JD57555-26	**Date Sampled:**	12/15/22
Matrix:	AQ - Ground Water	**Date Received:**	12/20/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	EPT, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2F1510.D	1	12/28/22 15:46	ED	n/a	n/a	V2F52
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	ND	10	3.1	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane [b]	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.7	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane [a]	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.53	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113	ND	5.0	0.58	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	

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

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

Report of Analysis

Client Sample ID:	EXB-9		
Lab Sample ID:	JD57555-26	**Date Sampled:**	12/15/22
Matrix:	AQ - Ground Water	**Date Received:**	12/20/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	EPT, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.56	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.52	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%		80-120%
17060-07-0	1,2-Dichloroethane-D4	98%		80-120%
2037-26-5	Toluene-D8	101%		80-120%
460-00-4	4-Bromofluorobenzene	96%		82-114%

(a) Associated CCV outside of control limits high, sample was ND.
(b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

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

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	JD57555-27	**Date Sampled:**	12/15/22
Matrix:	AQ - Trip Blank Water	**Date Received:**	12/20/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	EPT, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2F1354.D	1	12/23/22 03:07	ED	n/a	n/a	V2F48
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [a]	ND	10	3.1	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.45	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane [b]	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.7	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane [b]	ND	1.0	0.73	ug/l	
67-66-3	Chloroform [b]	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.53	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.56	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113	ND	5.0	0.58	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	

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

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	JD57555-27	**Date Sampled:**	12/15/22
Matrix:	AQ - Trip Blank Water	**Date Received:**	12/20/22
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	EPT, Ithaca, NY		

VOA TCL List (OLM4.2)

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.49	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.56	ug/l	
108-88-3	Toluene	ND	1.0	0.49	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.52	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	86%		80-120%
17060-07-0	1,2-Dichloroethane-D4	92%		80-120%
2037-26-5	Toluene-D8	100%		80-120%
460-00-4	4-Bromofluorobenzene	99%		82-114%

(a) Associated CCV outside of control limits high, sample was ND.
(b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

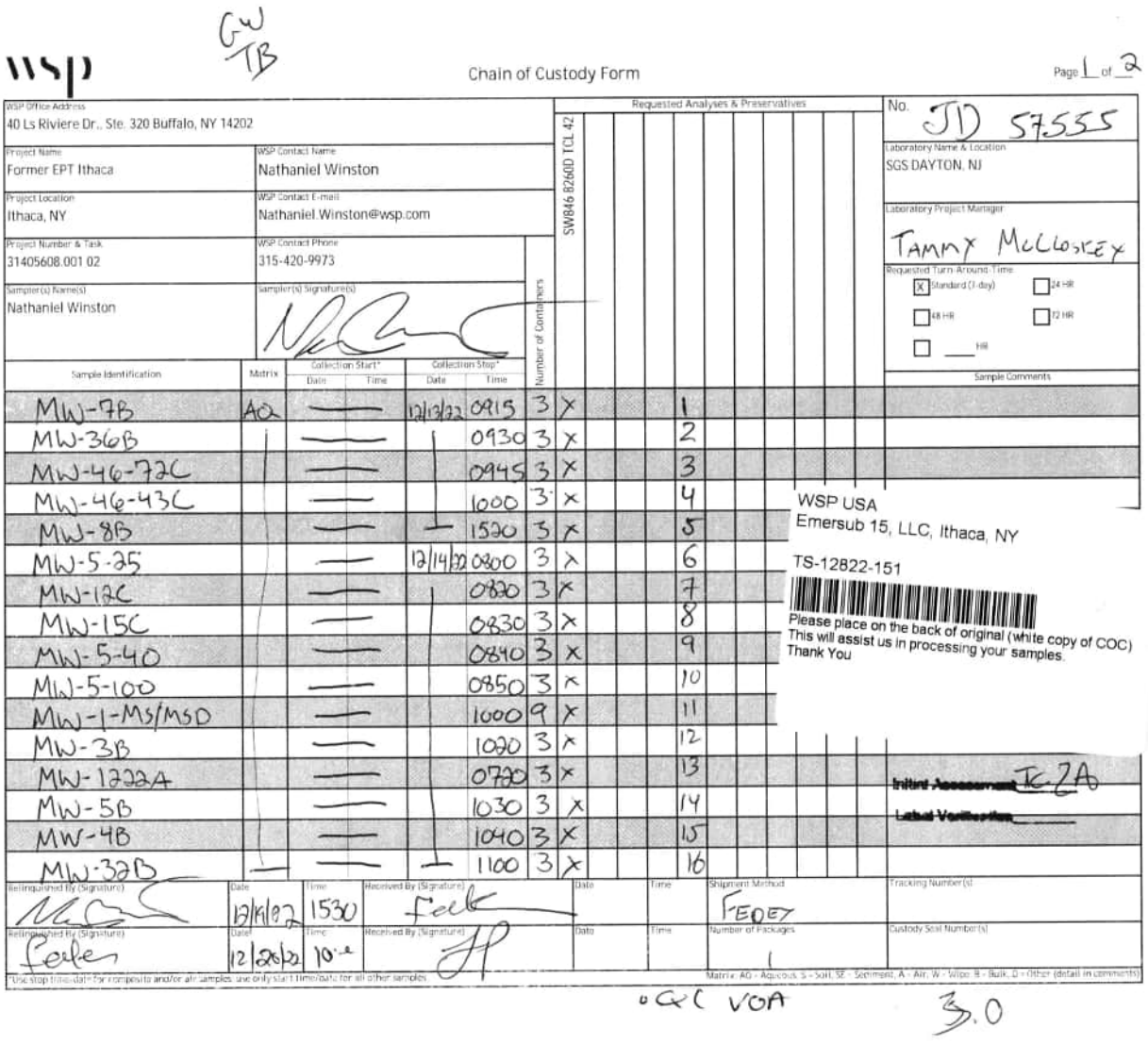
ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



GW
TB

wsp

Chain of Custody Form

Page 1 of 2

WSP Office Address: 40 Ls Riviere Dr., Ste. 320 Buffalo, NY 14202

Project Name: Former EPT Ithaca

WSP Contact Name: Nathaniel Winston

Project Location: Ithaca, NY

WSP Contact E-mail: Nathaniel.Winston@wsp.com

Project Number & Task: 31405608.001 02

WSP Contact Phone: 315-420-9973

Sampler(s) Name(s): Nathaniel Winston

Sampler(s) Signature(s):

Requested Analyses & Preservatives: SW846 8260D TCL 42

No. JD 57555

Laboratory Name & Location: SGS DAYTON, NJ

Laboratory Project Manager: TAMMY McCLOSKEY

Requested Turn-Around-Time: [X] Standard (7-day) [ ] 24 HR [ ] 48 HR [ ] 72 HR [ ] ___ HR

Sample Identification	Matrix	Collection Start* Date	Collection Start* Time	Collection Stop* Date	Collection Stop* Time	Number of Containers	SW846 8260D TCL 42	Sample Comments
MW-7B	AQ	—	—	12/13/22	0915	3	X	1
MW-36B					0930	3	X	2
MW-46-72C					0945	3	X	3
MW-46-43C					1000	3	X	4
MW-8B					1520	3	X	5
MW-5-25				12/14/22	0800	3	X	6
MW-12C					0820	3	X	7
MW-15C					0830	3	X	8
MW-5-40					0840	3	X	9
MW-5-100					0850	3	X	10
MW-1-MS/MSD					1000	9	X	11
MW-3B					1020	3	X	12
MW-122A					0720	3	X	13
MW-5B					1030	3	X	14
MW-4B					1040	3	X	15
MW-32B					1100	3	X	16

WSP USA
Emersub 15, LLC, Ithaca, NY

TS-12822-151

Please place on the back of original (white copy of COC)
This will assist us in processing your samples.
Thank You

Initial Assessment: IC 2A

Label Verification: ____

Relinquished By (Signature)	Date	Time	Received By (Signature)	Date	Time	Shipment Method	Tracking Number(s)
	12/14/22	1530				FEDEX	
Relinquished By (Signature)	Date	Time	Received By (Signature)	Date	Time	Number of Packages	Custody Seal Number(s)
	12/20/22	10:2				1	

*Use stop time/date for composite and/or all samples; use only start time/date for all other samples.

Matrix: AQ - Aqueous, S - Soil, SE - Sediment, A - Air, W - Wipe, B - Bulk, O - Other (detail in comments)

0 QC VOA

3.0

JD57555: Chain of Custody
Page 1 of 3

wsp

Chain of Custody Form

Page 2 of 2

WSP Office Address: 40 Ls Riviere Dr., Ste. 320 Buffalo, NY 14202

Project Name: Former EPT Ithaca
Project Location: Ithaca, NY
Project Number & Task: 31405608.001 02
WSP Contact Name: Nathaniel Winston
WSP Contact E-mail: Nathaniel.Winston@wsp.com
WSP Contact Phone: 315-420-9973
Sampler(s) Name(s): Nathaniel Winston
Sampler(s) Signature(s):

No. JD57555
Laboratory Name & Location: SGS DAYTON, NJ
Laboratory Project Manager:
Requested Turn-Around-Time: [X] Standard (7 day) [ ] 24 HR [ ] 48 HR [ ] 72 HR [ ] ___ HR

Requested Analyses & Preservatives: SW846 8260D TCL 42

Sample Identification	Matrix	Collection Start* Date	Collection Start* Time	Collection Stop* Date	Collection Stop* Time	Number of Containers	SW846 8260D TCL 42											Sample Comments
MW-50-160D	AQ	—	—	12/14/22	1445	3	X			17								
EW-13					1500	3	X			18								
EB-121422					1545	3	X			19								
EXB-7-MS/MSD				12/15/22	0925	9	X			20								
EXB-10					0950	3	X			21								
MW-121522					0800	3	X			22								
EW-14					1015	4	X			23								
MW-13C					1030	2	X			24								
EB-121522					1005	3	X			25								
EXB-9					1145	3	X			26								
TRIP BLANK	AQ	—	—	—	—	2	X			27								

WSP USA
Emersub 15, LLC, Ithaca, NY

TS-12822-151

Please place on the back of original (white copy of COC)
This will assist us in processing your samples.
Thank You

Relinquished By (Signature)	Date	Time	Received By (Signature)	Date	Time	Shipment Method	Tracking Number(s)
	12/19/22	1530	Fedex			FEDEX	
Relinquished By (Signature)	Date	Time	Received By (Signature)	Date	Time	Number of Packages	Custody Seal Number(s)
Fedex	12/20/22	10:00	JP			1	

*Use stop time/date for composite and/or air samples, use only start time/date for all other samples.

Matrix: AQ = Aqueous, S = Soil, SE = Sediment, A = Air, W = Wipe, B = Bulk, O = Other (describe in comments)

JD57555: Chain of Custody
Page 2 of 3

SGS Sample Receipt Summary

Job Number: JD57555 **Client:** WSP USA **Project:** EMERSUB 15, LLC, ITHACA, NY

Date / Time Received: 12/20/2022 10:00:00 AM **Delivery Method:** **Airbill #'s:**

Cooler Temps (Raw Measured) °C: Cooler 1: (3.0);

Cooler Temps (Corrected) °C: Cooler 1: (3.0);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:			
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 231619 pH 12+: 203117A Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17

Location ITHACA, NY Date 12/[illegible]/92

Project / Client Quarterly GW

0930 NTW of WSP onsite, weather 30°F, cloudy. MOB Dock-1 for supplies.

1000 EHG of WSP onsite, safety tailgate. MOB GW levels.

Well ID	DTP	DTW	Well ID	DTP	DTW
EW-13	—	36.63	MW-3B	—	14.44
EW-14	—	38.14	MW-4B	—	20.20
MW-7B	—	13.39	EXB-10	—	44.32
MW-36B	—	16.13	MW-44T	—	25.76
MW-46-43C	—	32.97	MW-22	—	12.83
MW-46-73C	—	71.56	MW-30B		15.97
MW-50-160D	—	~~32.42~~ MW 129.09			
MW-13C	—	28.75	MW-7-40		17.49
MW-8B	—	9.48	MW-16-100		78.13
MW-5-25	—	9.41	EXB-7		8.16
MW-5-100	—	94.43	MW-32D		4.53
MW-5-40	—	30.49	MW-20B		12.29
MW-15C	—	41.87	MW-8-40		37.58
MW-17C	—	28.38	LBA-MW-35	—	5.66
EXB-9	—	~~50.~~ 50.25	~~LBA-MW-39~~		
MW-1B	—	12.07	LBA-MW-39	18.36	18.41
MW-5B	—	14.21			
MW-2B	—	9.78			
EW-01	—	10.90			

Rykaczewski, Dave A.

From: Winston, Nathaniel
Sent: Sunday, March 19, 2023 9:41 AM
To: Baker, Jeffrey R.
Subject: Re: December 2022 Sampling Event

MW-1222A is a blind dup of MW-3B
MW-121522 is a blind dup of EB-10

EB-121422 is an equipment blank from MW-50-160D
EB-121522 is an equipment blank from EXB-7

Nathaniel Winston
Senior Consultant, Geologist
M+ 1 315-420-9973

From: Baker, Jeffrey R.
Sent: Wednesday, March 15, 2023 5:37 PM
To: Winston, Nathaniel
Subject: December 2022 Sampling Event

Nate,

What are the duplicates for the December 2022 sampling event and what samples do they correspond to?

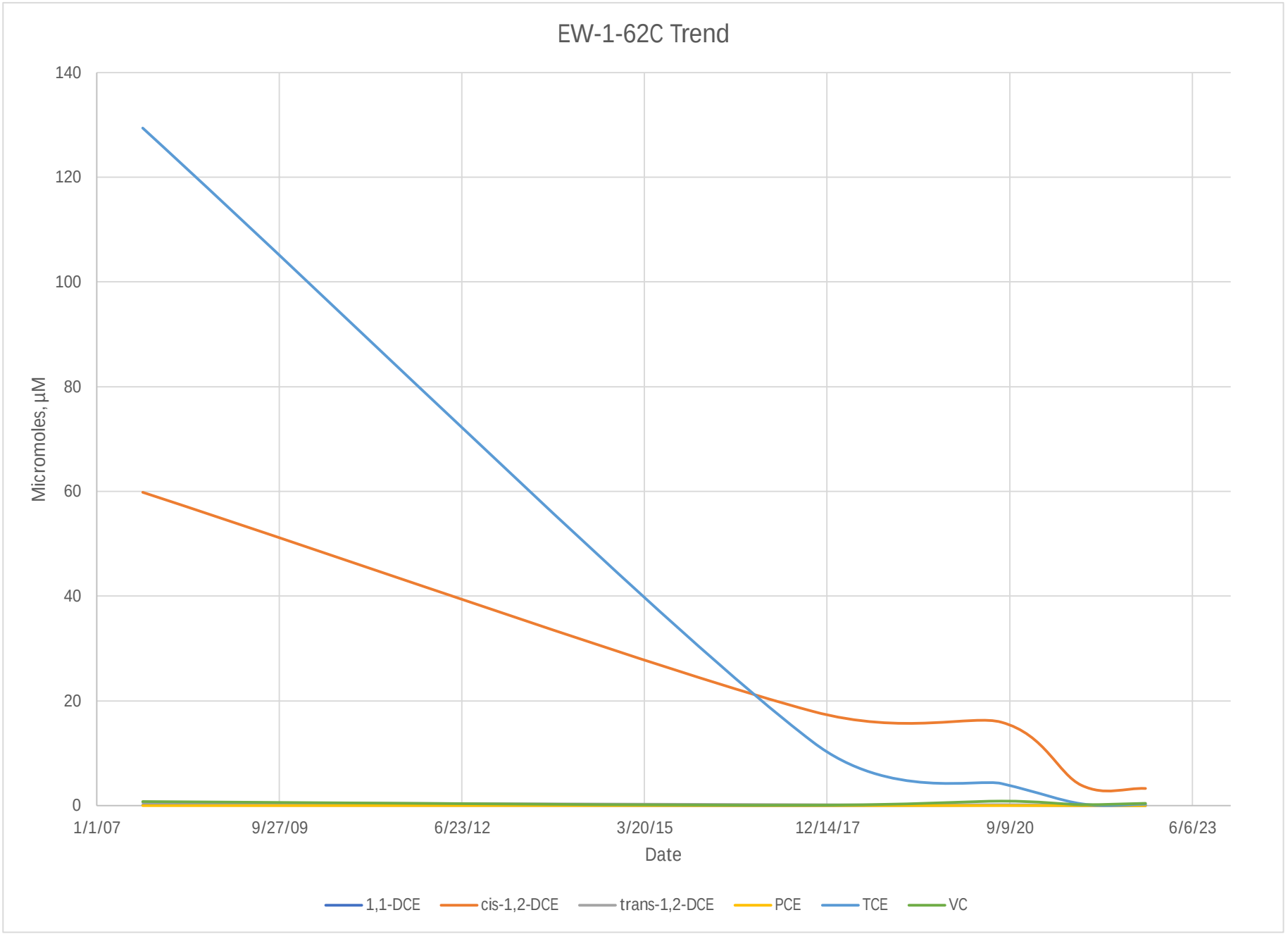
Jeffrey Baker
Lead Consultant
Engineering Technical Practice Lead
Local Quality Lead
Earth & Environment

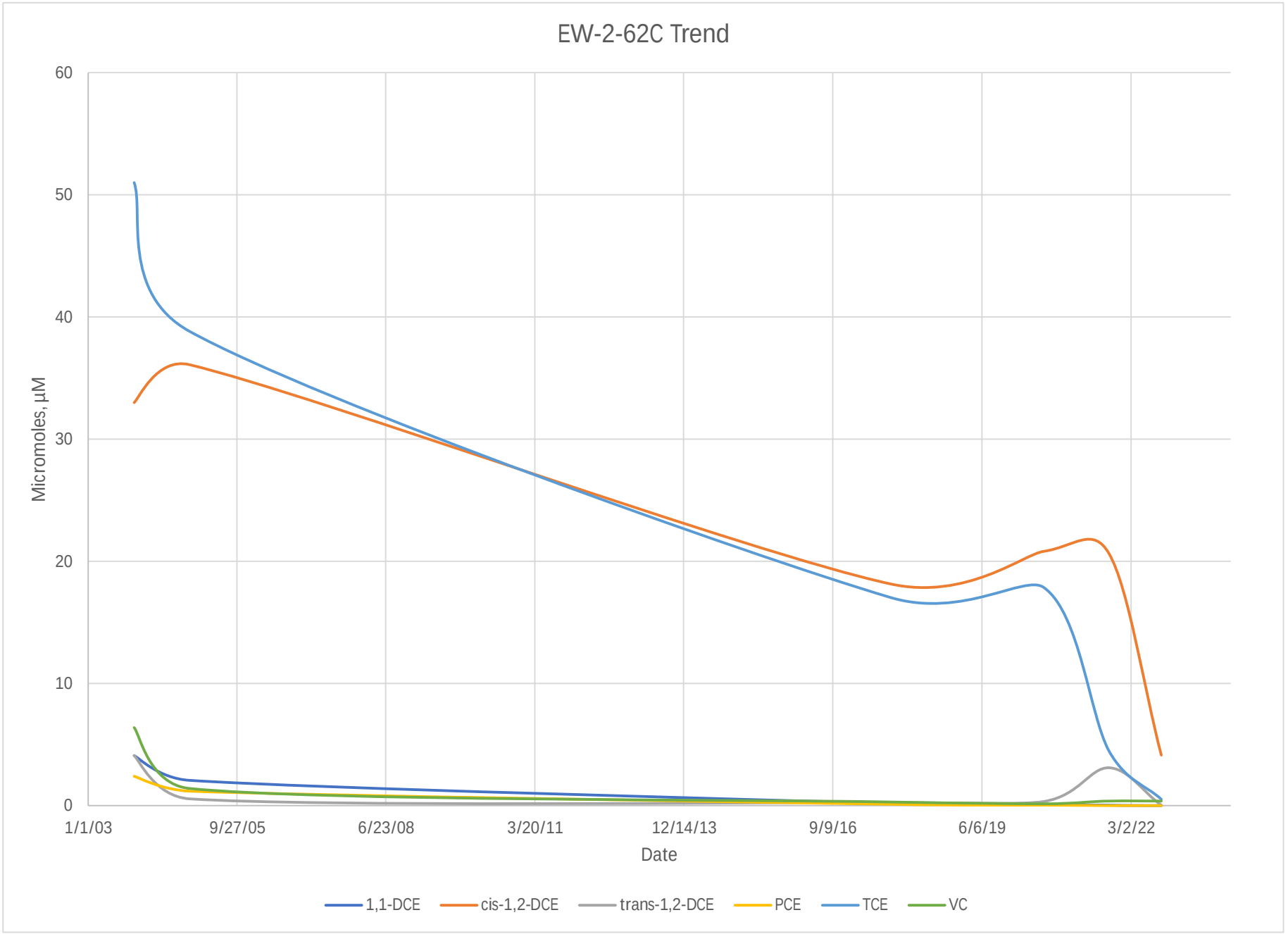
Direct: 813-520-4340
Mobile: 724-882-9723

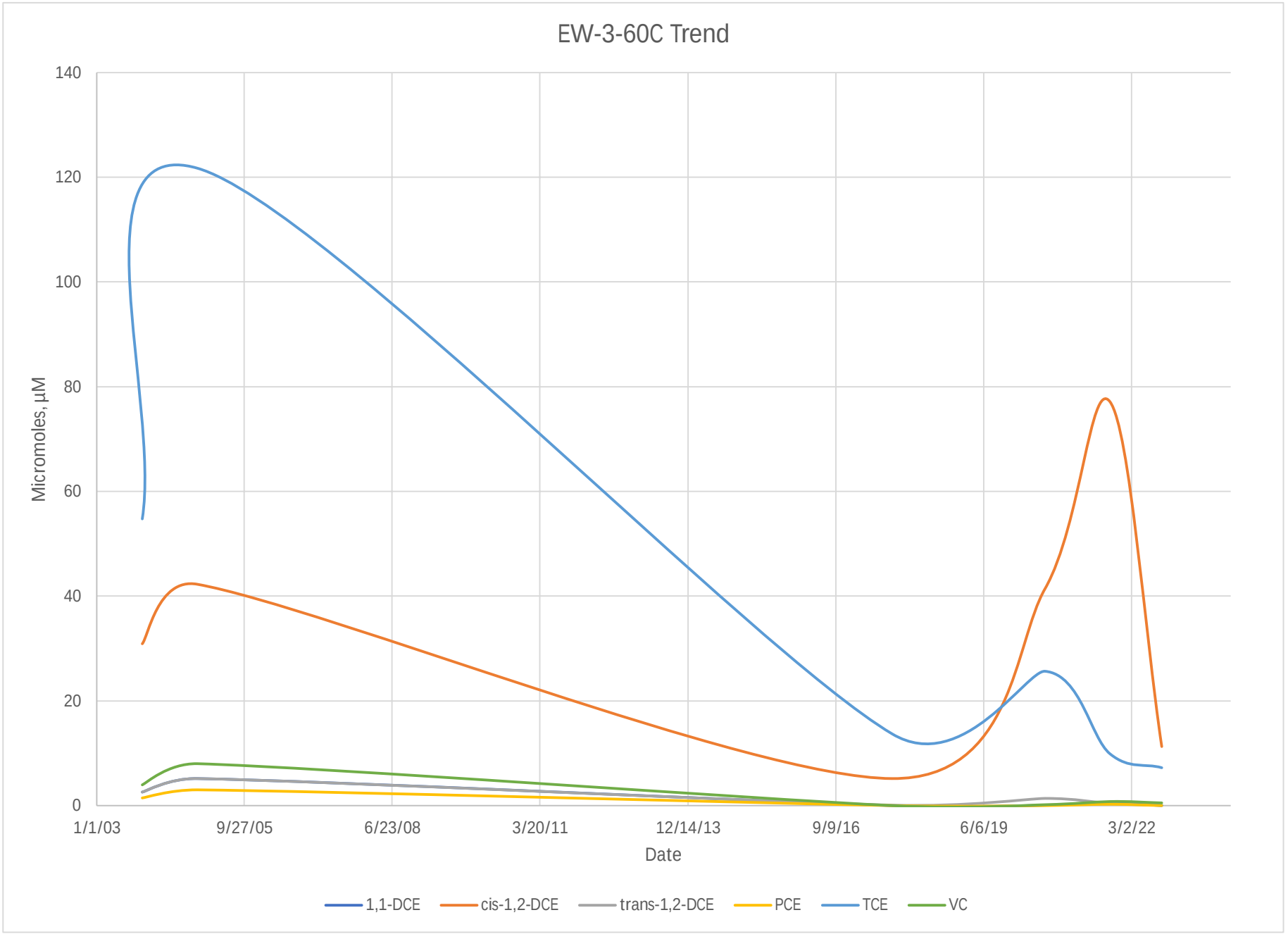
WSP USA
5411 SkyCenter Drive, Suite 650
Tampa, FL 33607

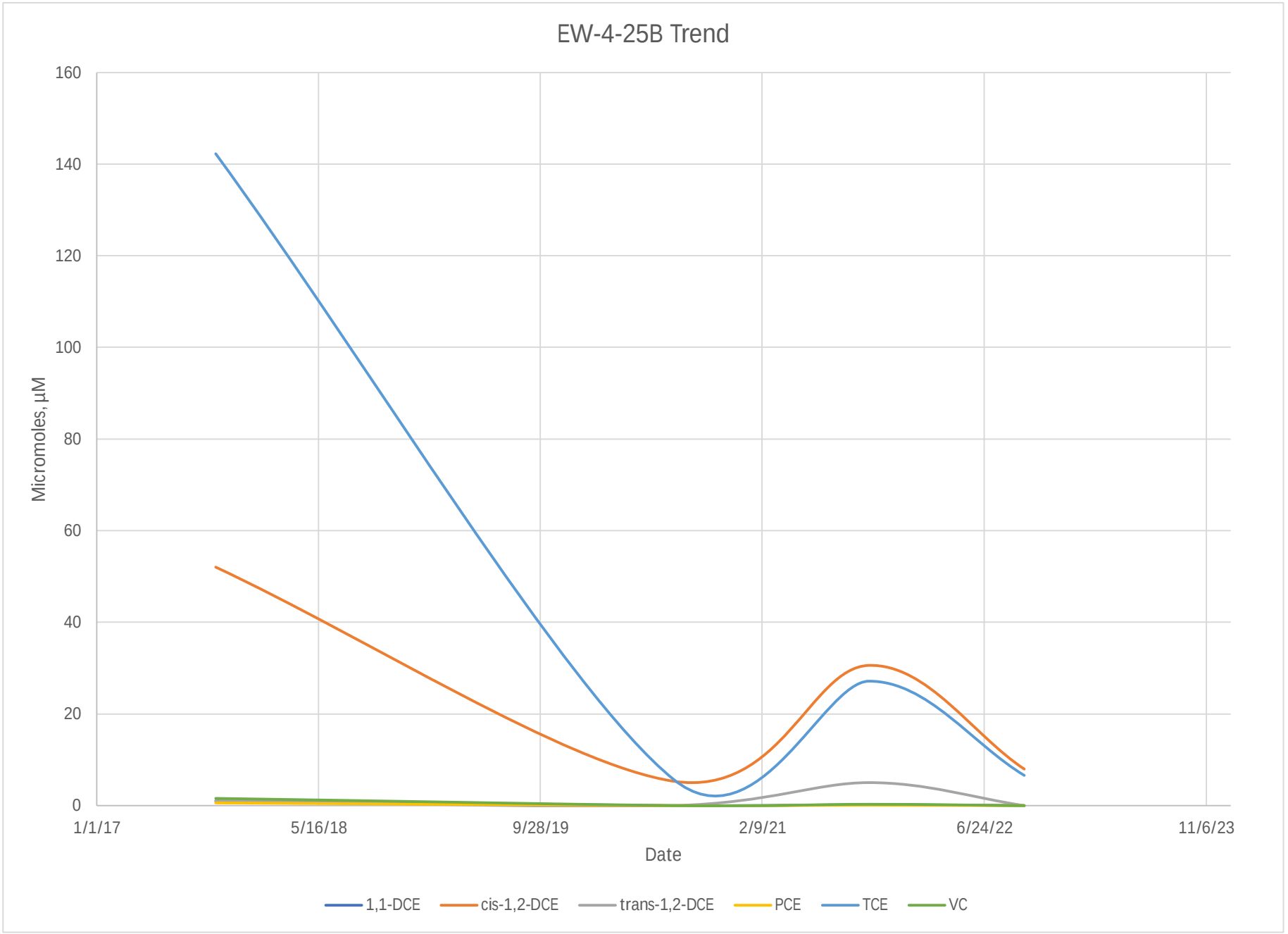
APPENDIX

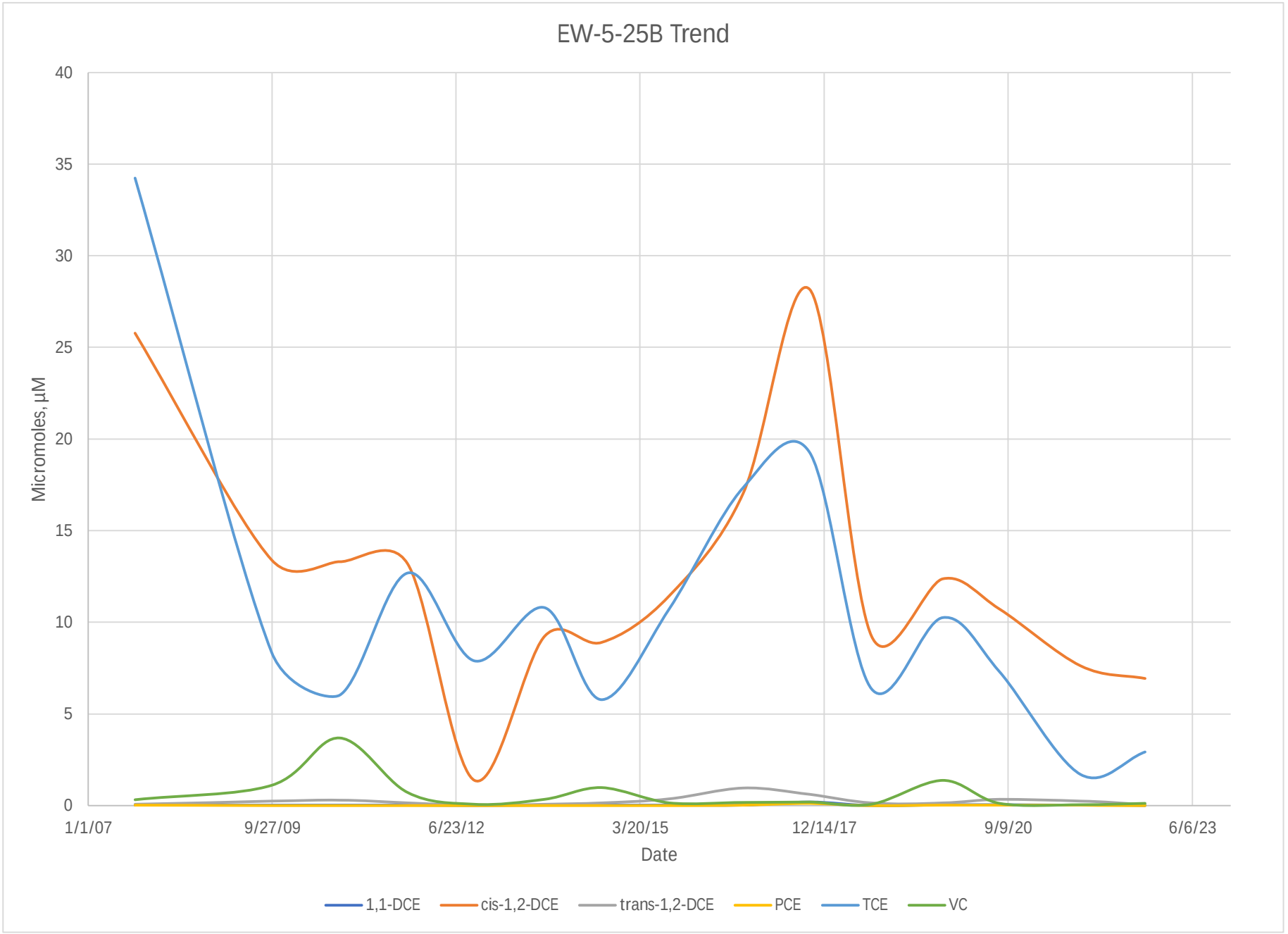
I TIME TREND CHARTS

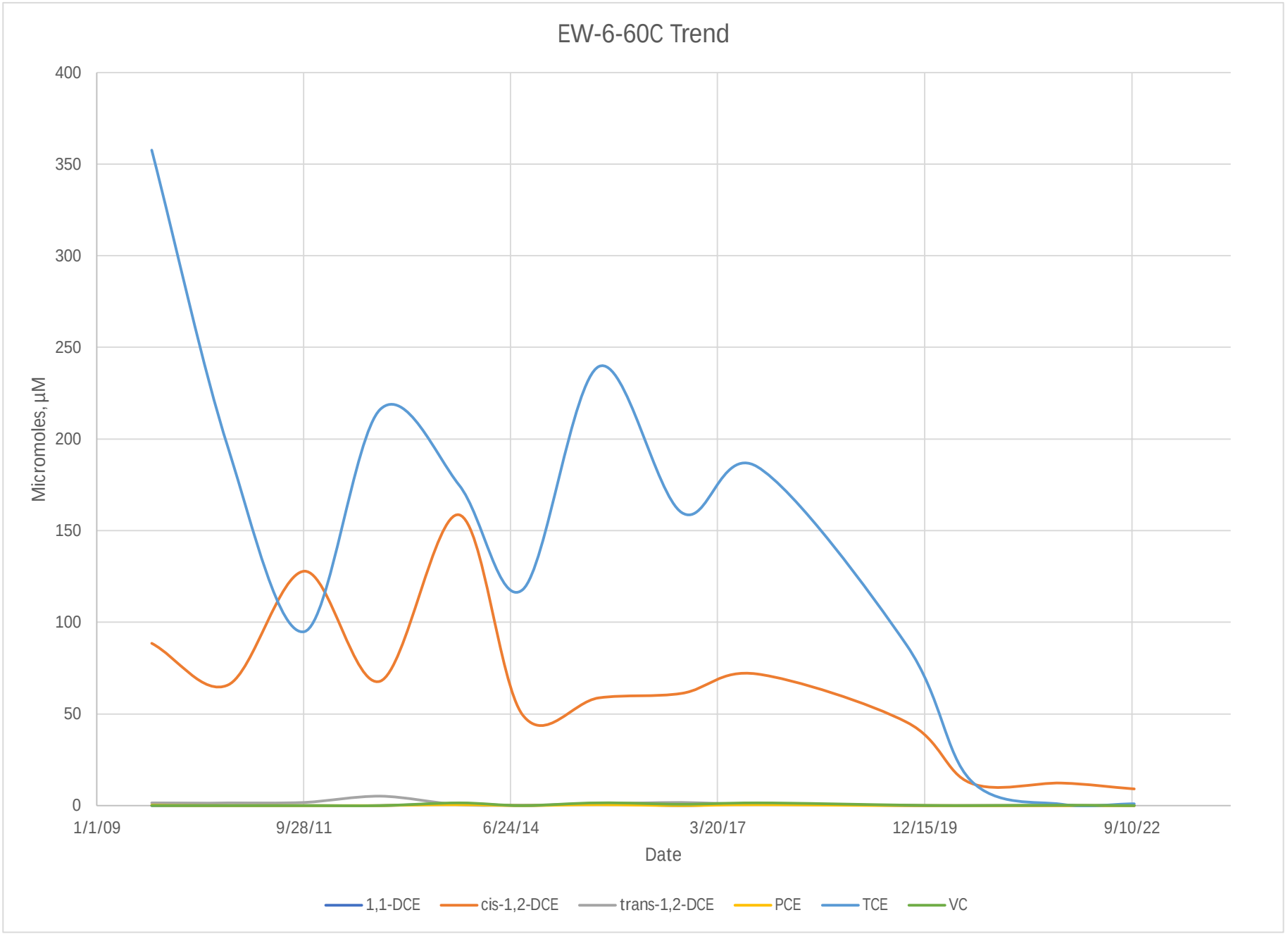

EW-1-62C Trend
140
120
100
80
60
40
20
0
Micromoles, µM
1/1/07
9/27/09
6/23/12
3/20/15
12/14/17
9/9/20
6/6/23
Date
1,1-DCE
cis-1,2-DCE
trans-1,2-DCE
PCE
TCE
VC

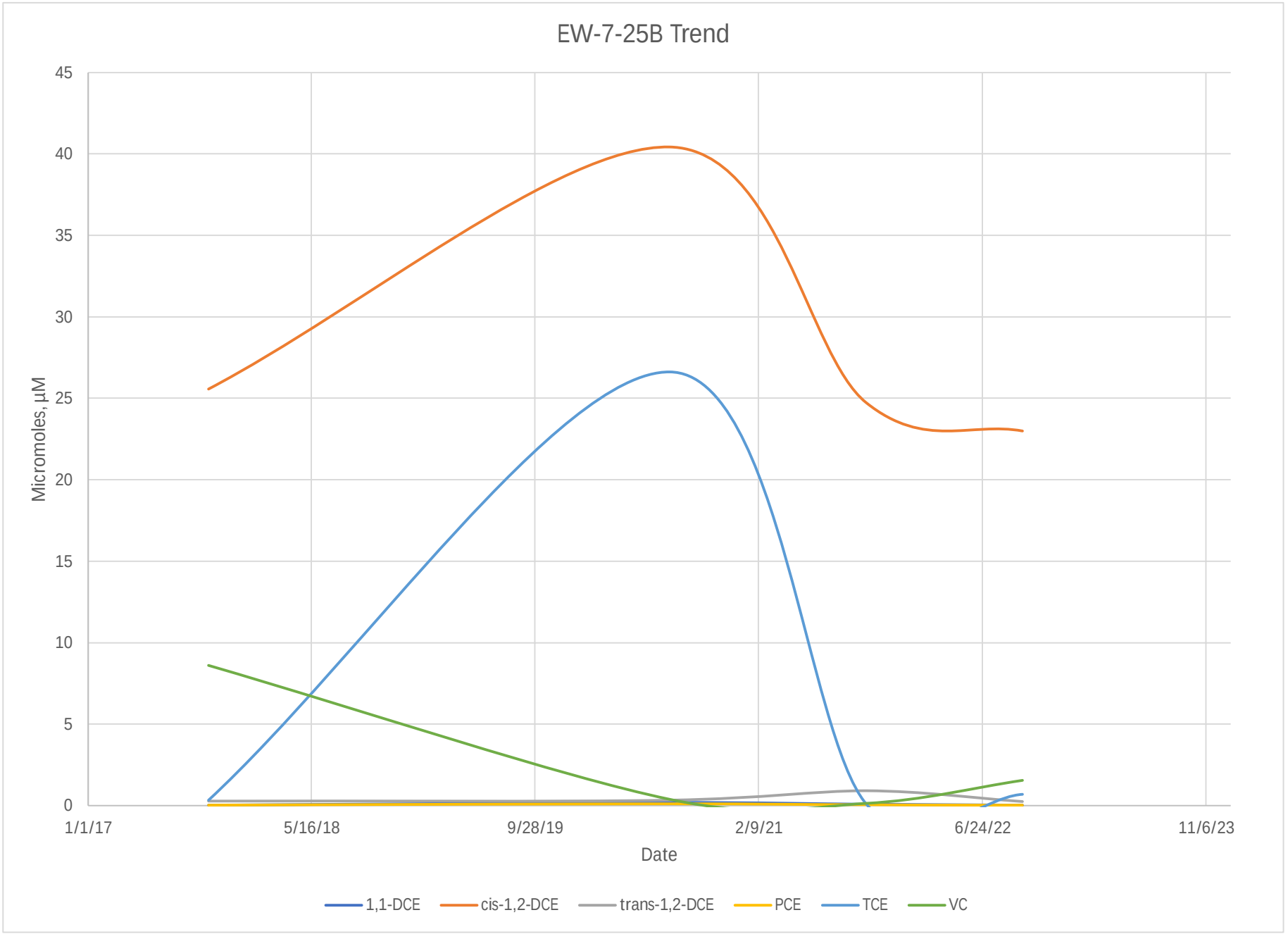

EW-2-62C Trend
60
50
40
30
20
10
0
Micromoles, µM
1/1/03
9/27/05
6/23/08
3/20/11
12/14/13
9/9/16
6/6/19
3/2/22
Date
1,1-DCE
cis-1,2-DCE
trans-1,2-DCE
PCE
TCE
VC

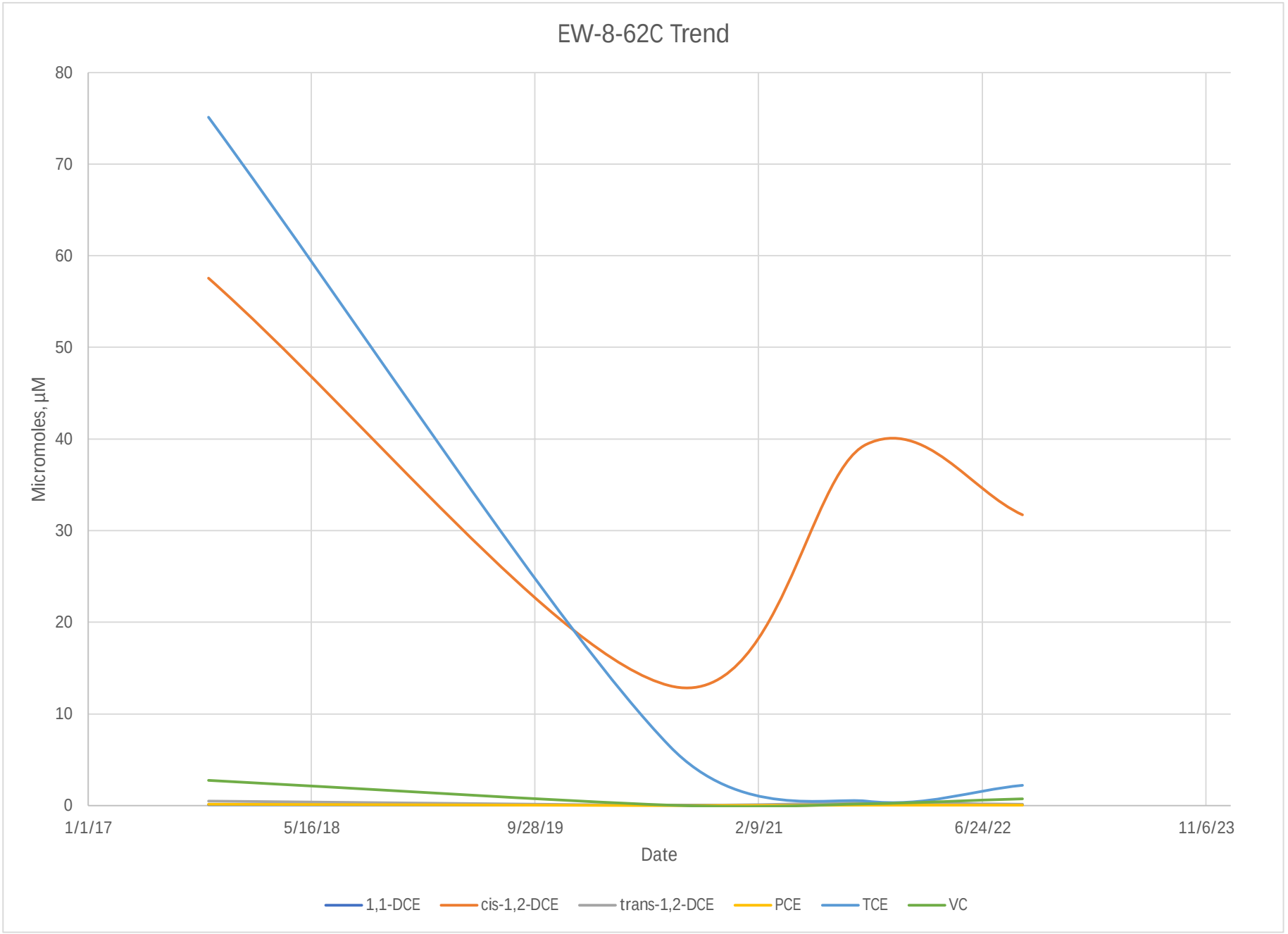

EW-3-60C Trend
140
120
100
80
60
40
20
0
Micromoles, µM
1/1/03
9/27/05
6/23/08
3/20/11
12/14/13
9/9/16
6/6/19
3/2/22
Date
1,1-DCE
cis-1,2-DCE
trans-1,2-DCE
PCE
TCE
VC

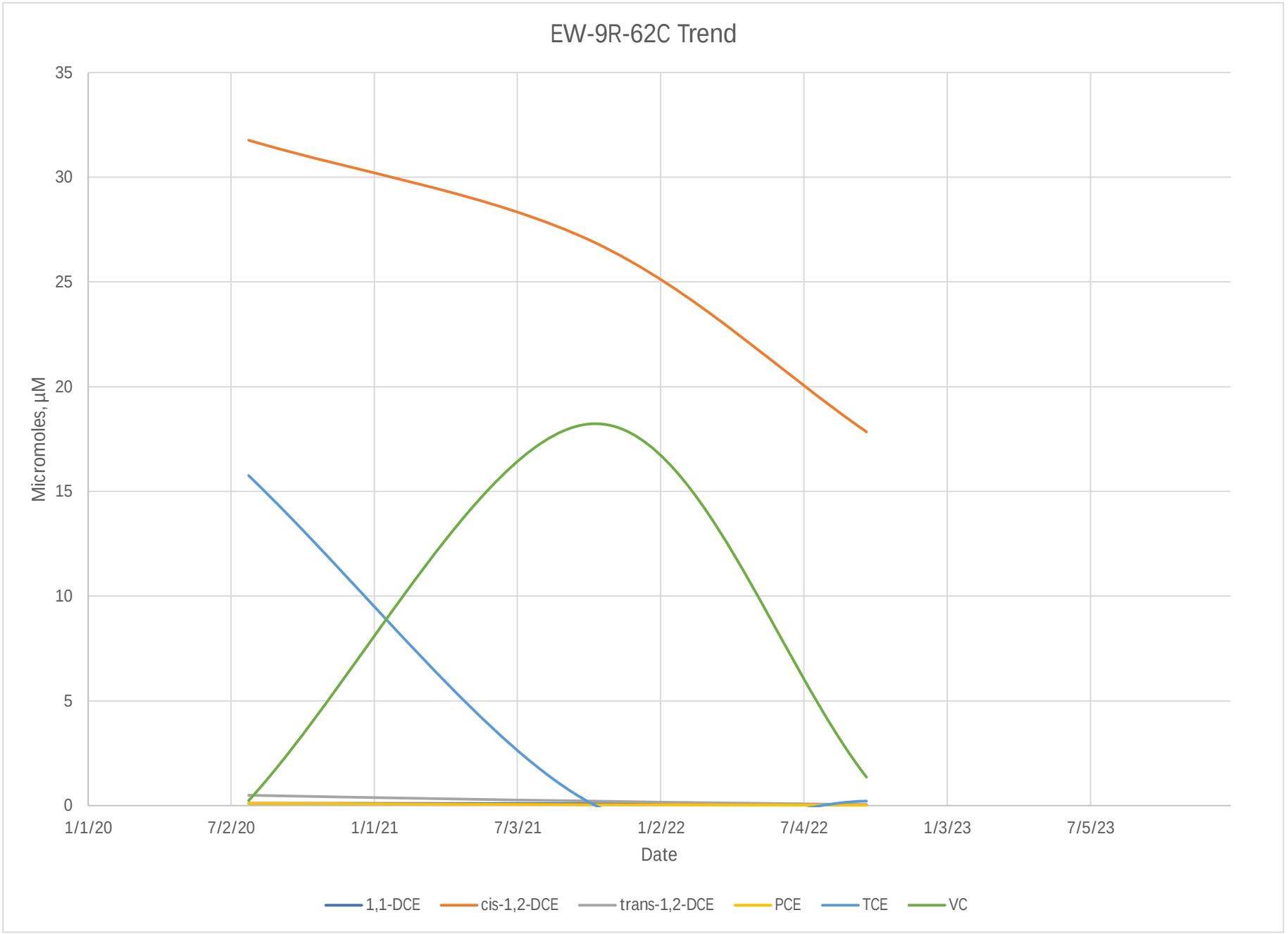

EW-4-25B Trend
160
140
120
100
80
60
40
20
0
Micromoles, µM
1/1/17
5/16/18
9/28/19
2/9/21
6/24/22
11/6/23
Date
1,1-DCE
cis-1,2-DCE
trans-1,2-DCE
PCE
TCE
VC

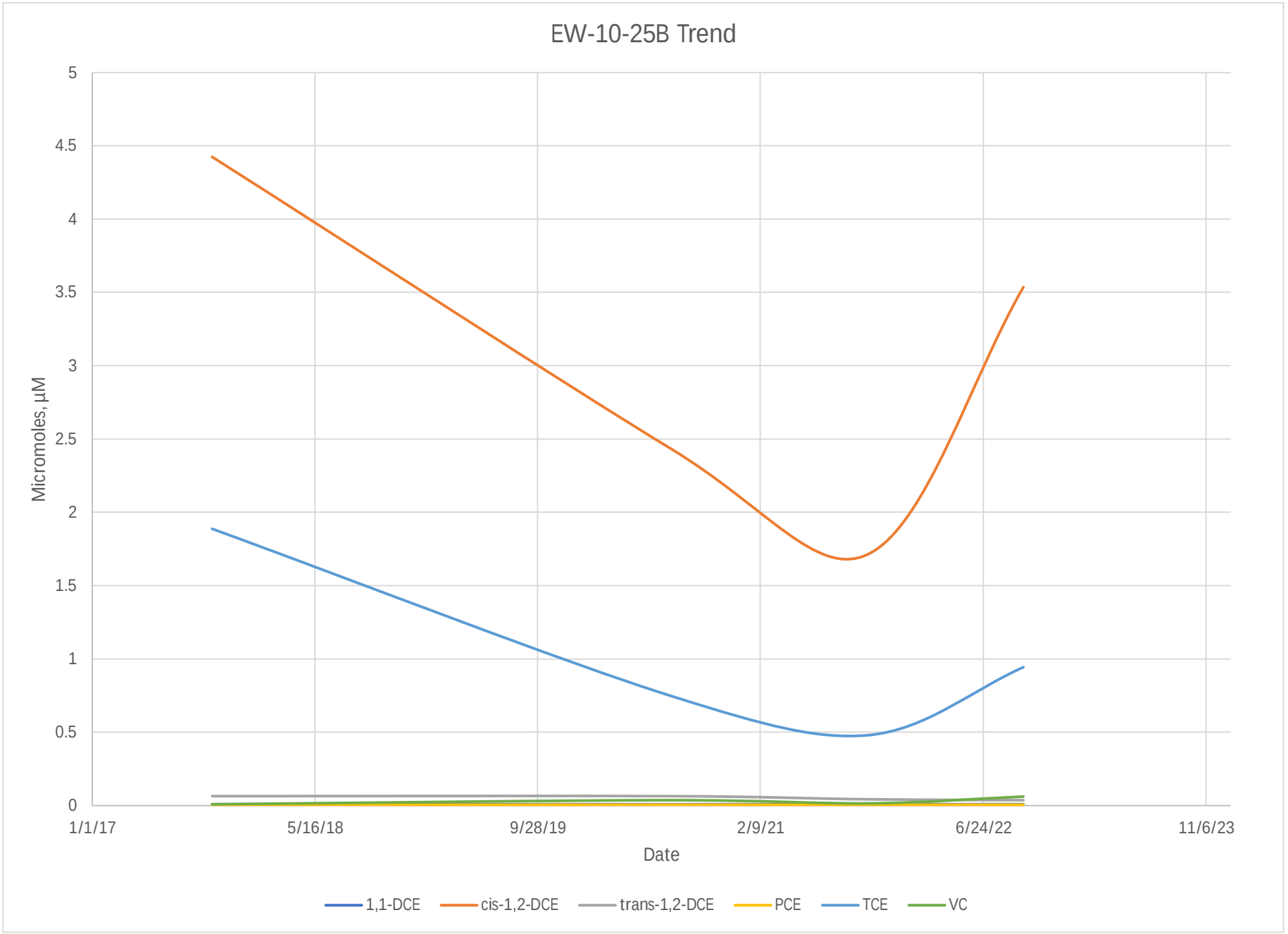

EW-5-25B Trend
Micromoles, µM
40
35
30
25
20
15
10
5
0
1/1/07
9/27/09
6/23/12
3/20/15
12/14/17
9/9/20
6/6/23
Date
1,1-DCE
cis-1,2-DCE
trans-1,2-DCE
PCE
TCE
VC

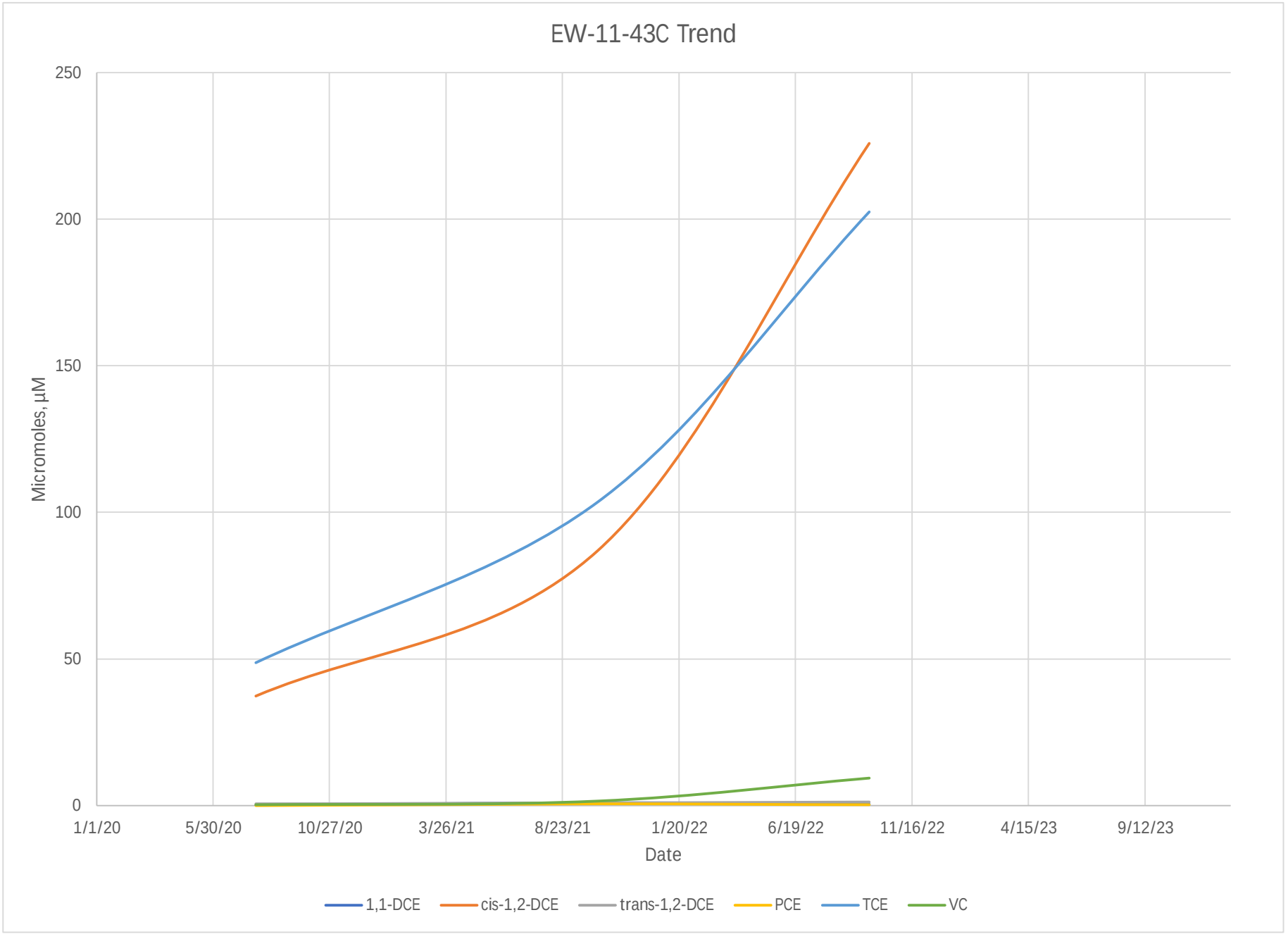

EW-6-60C Trend
400
350
300
250
200
150
100
50
0
Micromoles, µM
1/1/09
9/28/11
6/24/14
3/20/17
12/15/19
9/10/22
Date
1,1-DCE
cis-1,2-DCE
trans-1,2-DCE
PCE
TCE
VC

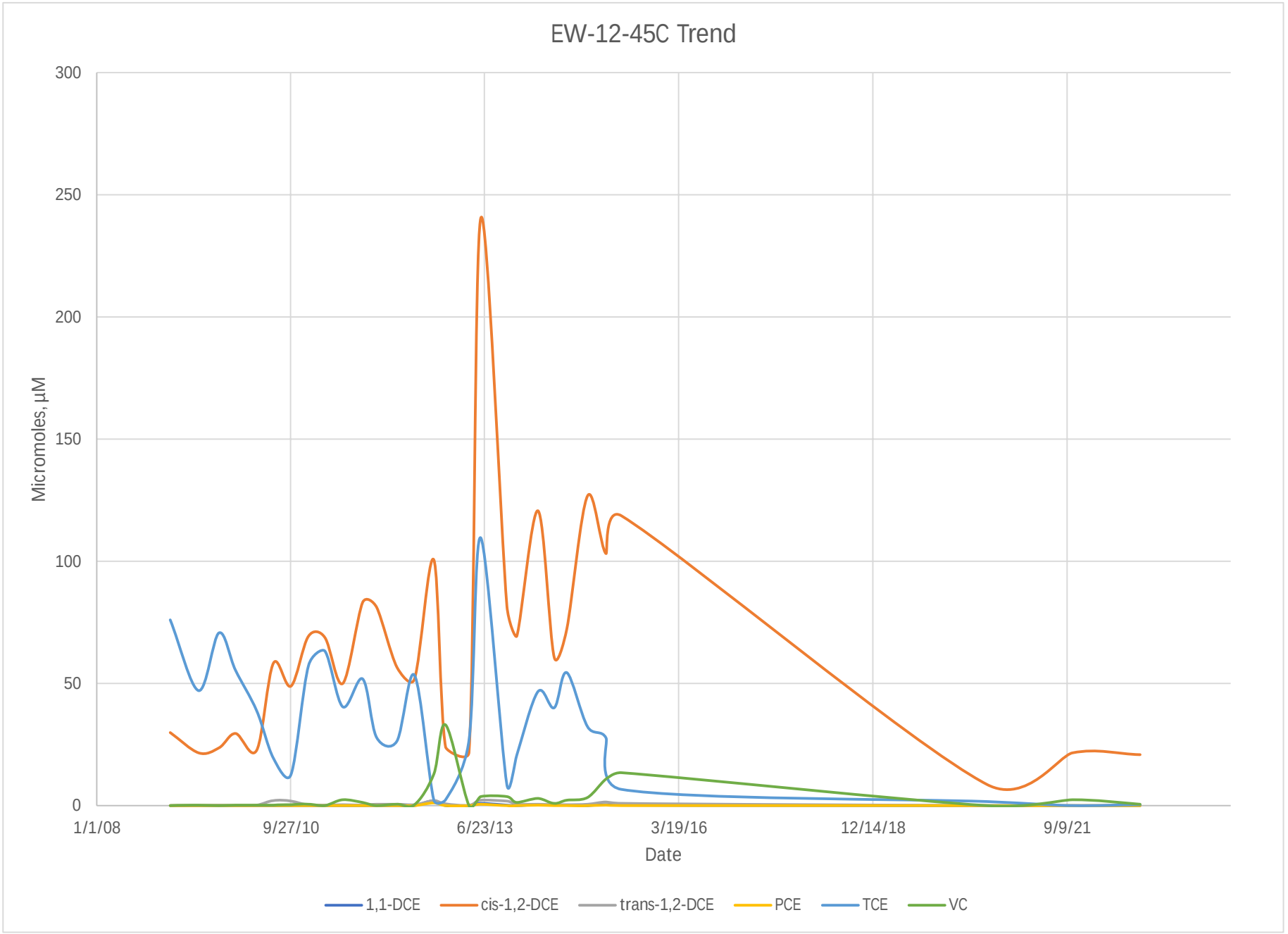

EW-7-25B Trend
45
40
35
30
25
20
15
10
5
0
Micromoles, µM
1/1/17
5/16/18
9/28/19
2/9/21
6/24/22
11/6/23
Date
1,1-DCE
cis-1,2-DCE
trans-1,2-DCE
PCE
TCE
VC

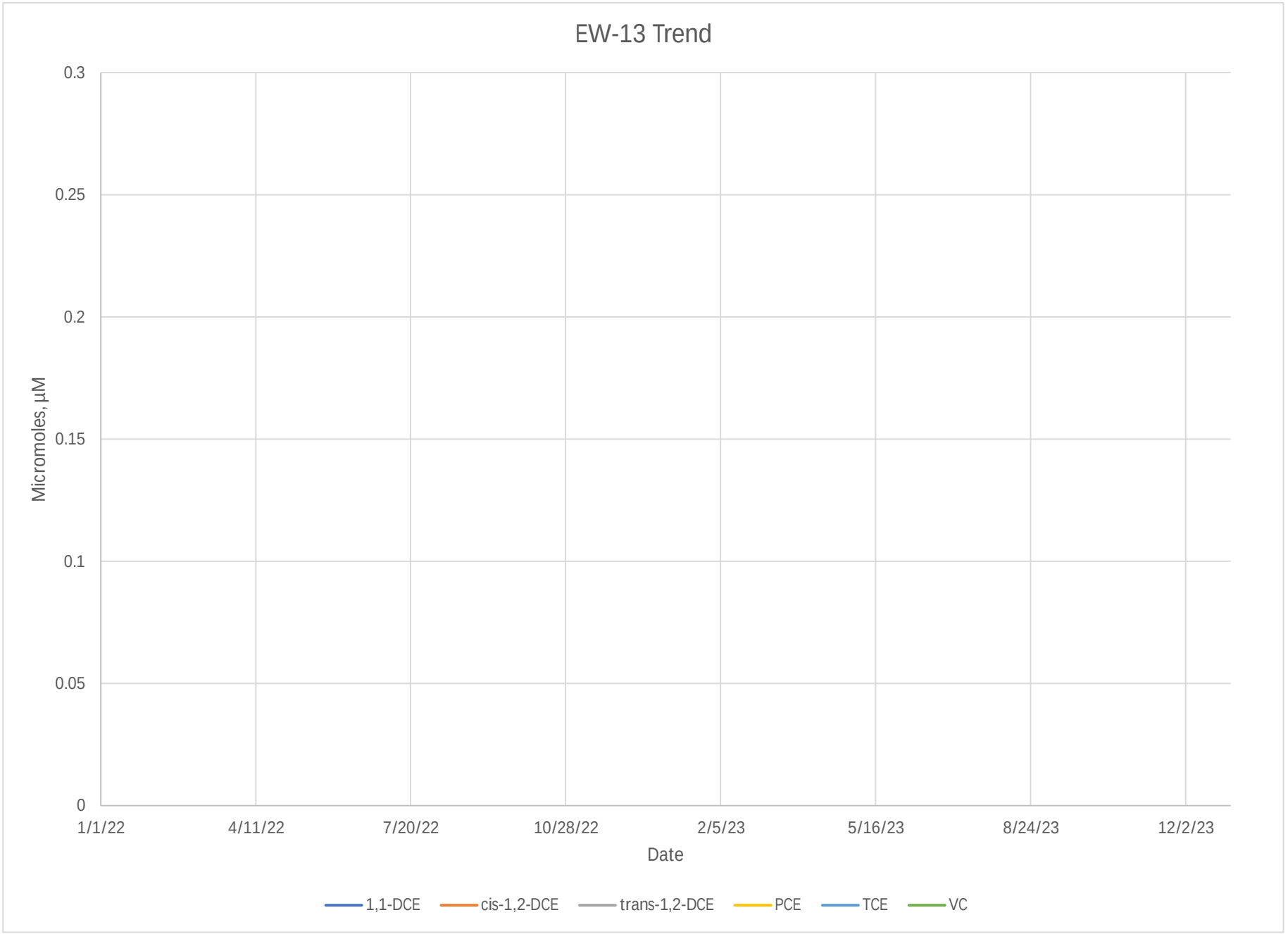

EW-8-62C Trend
80
70
60
50
40
30
20
10
0
Micromoles, µM
1/1/17
5/16/18
9/28/19
2/9/21
6/24/22
11/6/23
Date
1,1-DCE
cis-1,2-DCE
trans-1,2-DCE
PCE
TCE
VC

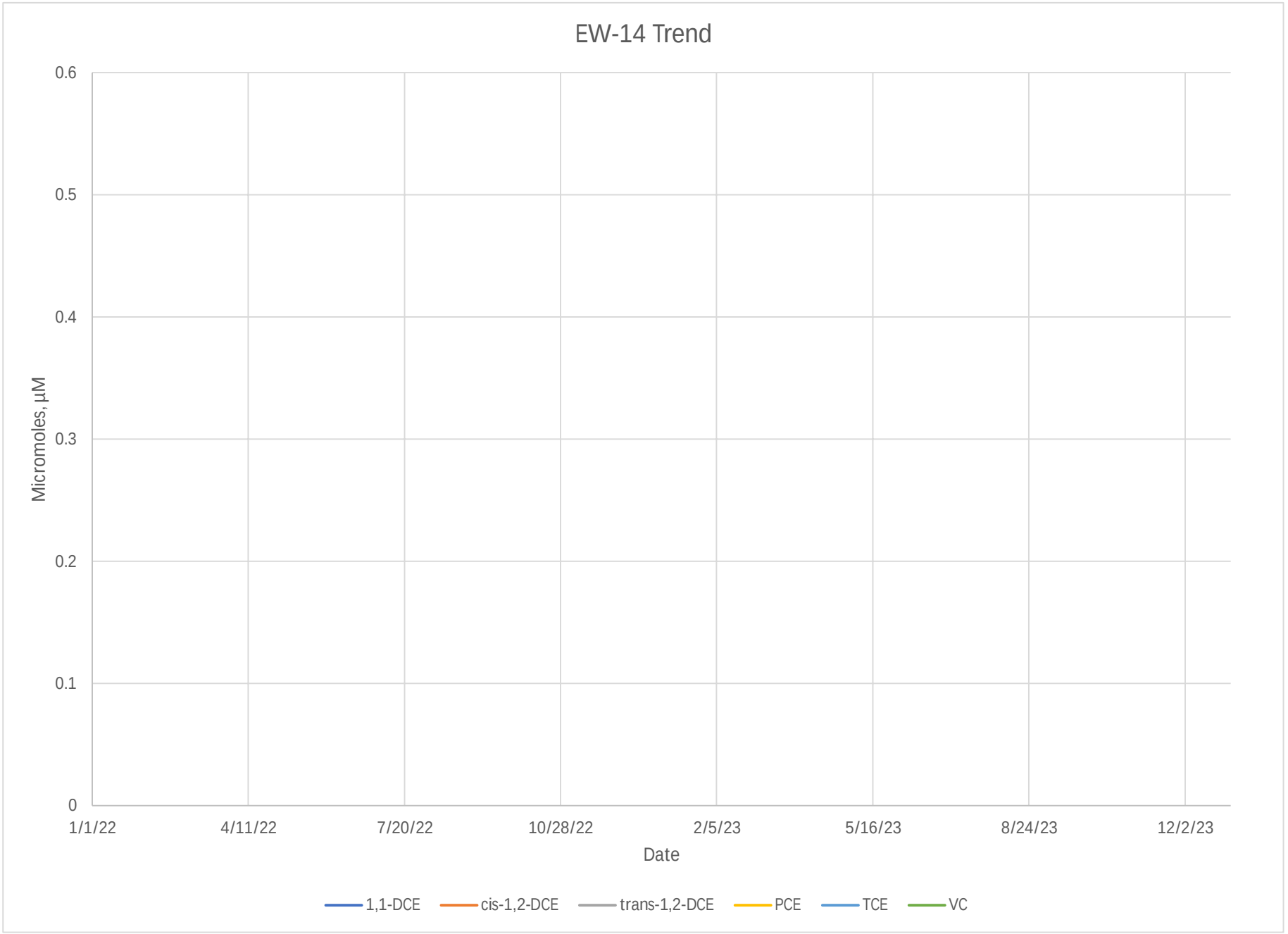

EW-9R-62C Trend
35
30
25
20
15
10
5
0
Micromoles, µM
1/1/20
7/2/20
1/1/21
7/3/21
1/2/22
7/4/22
1/3/23
7/5/23
Date
1,1-DCE
cis-1,2-DCE
trans-1,2-DCE
PCE
TCE
VC

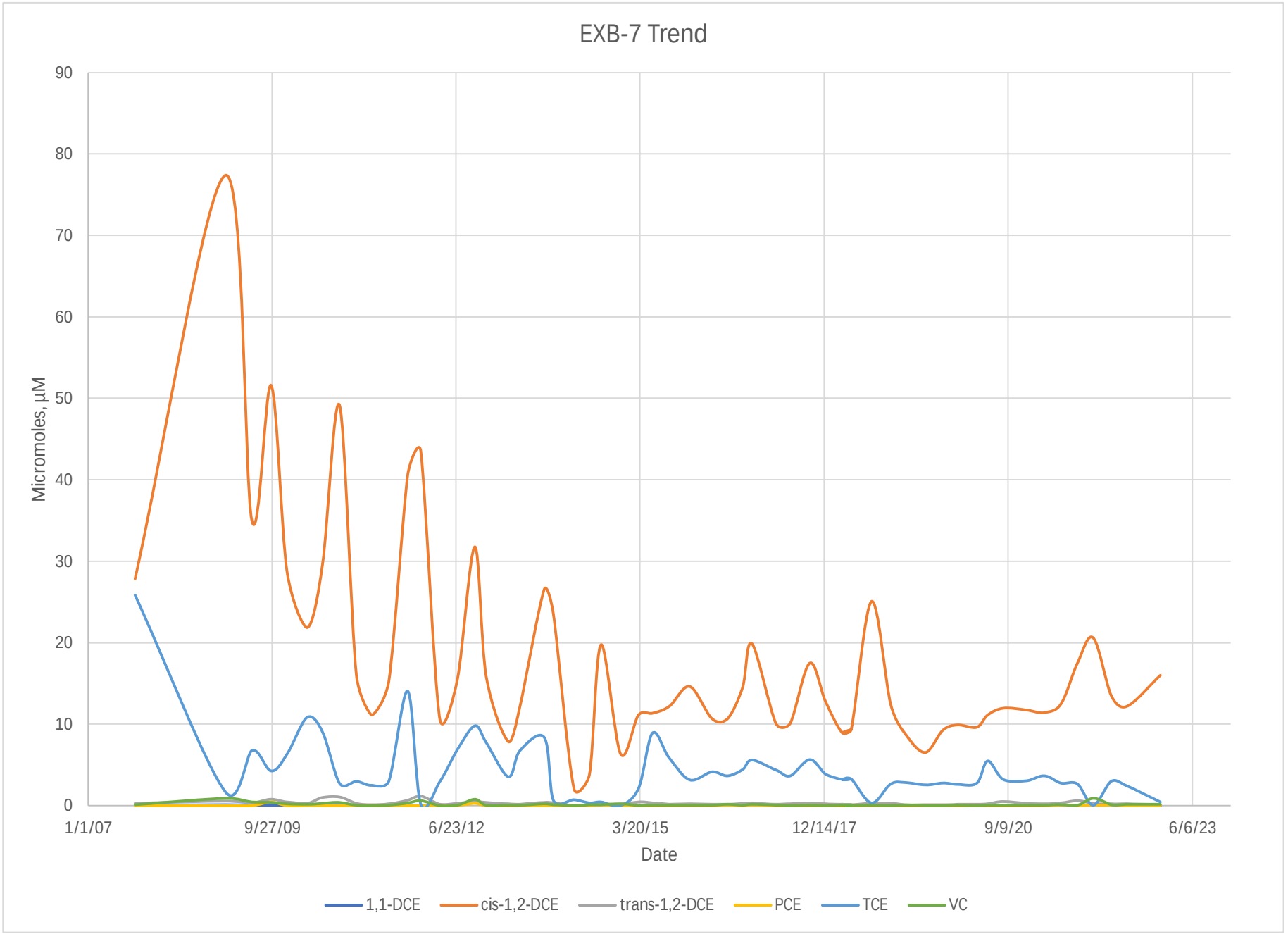

EW-10-25B Trend
Micromoles, µM
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
1/1/17
5/16/18
9/28/19
2/9/21
6/24/22
11/6/23
Date
1,1-DCE
cis-1,2-DCE
trans-1,2-DCE
PCE
TCE
VC

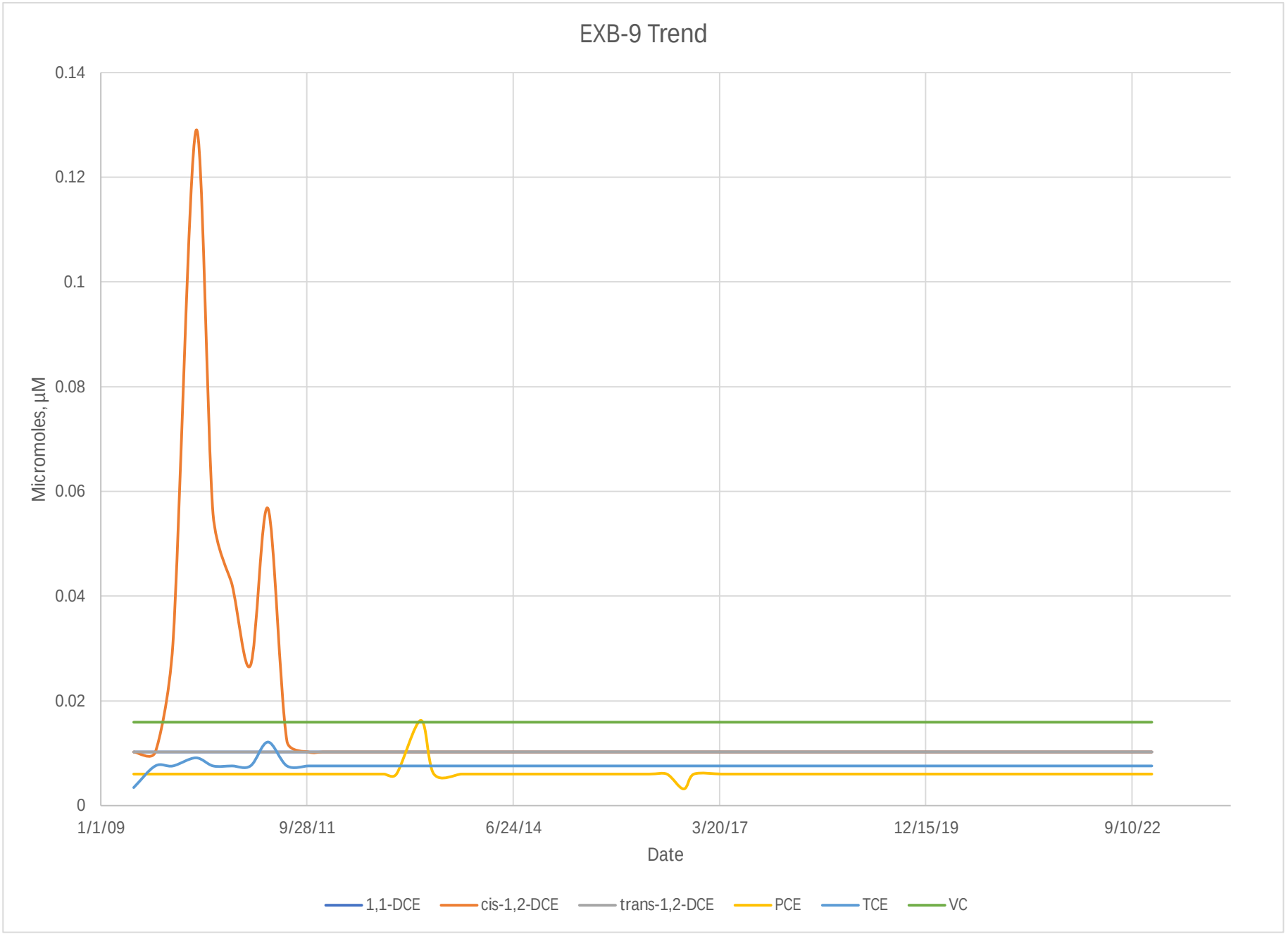

EW-11-43C Trend
250
200
150
100
50
0
Micromoles, µM
1/1/20
5/30/20
10/27/20
3/26/21
8/23/21
1/20/22
6/19/22
11/16/22
4/15/23
9/12/23
Date
1,1-DCE
cis-1,2-DCE
trans-1,2-DCE
PCE
TCE
VC

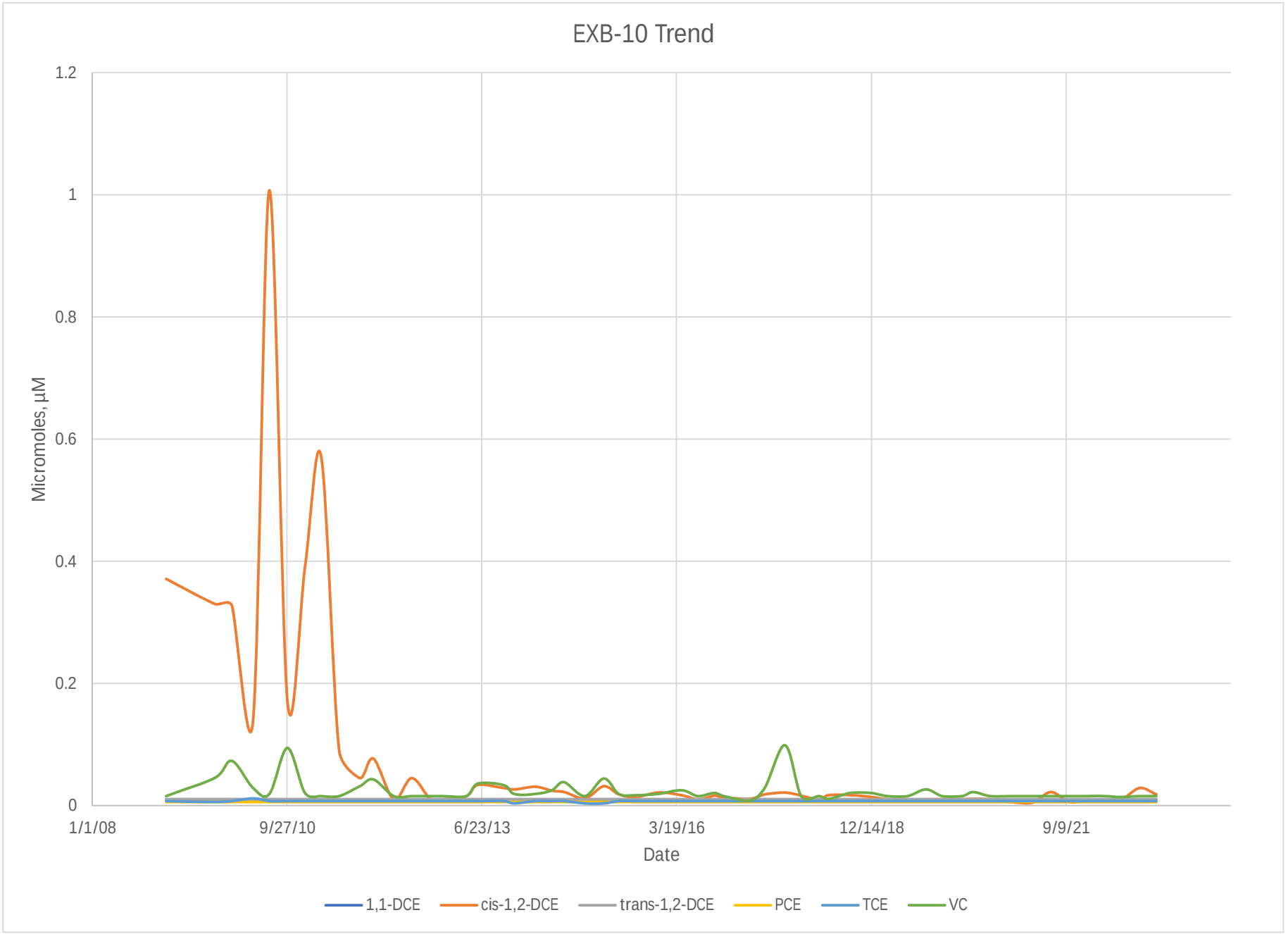

EW-12-45C Trend
300
250
200
150
100
50
0
Micromoles, µM
1/1/08
9/27/10
6/23/13
3/19/16
12/14/18
9/9/21
Date
1,1-DCE
cis-1,2-DCE
trans-1,2-DCE
PCE
TCE
VC

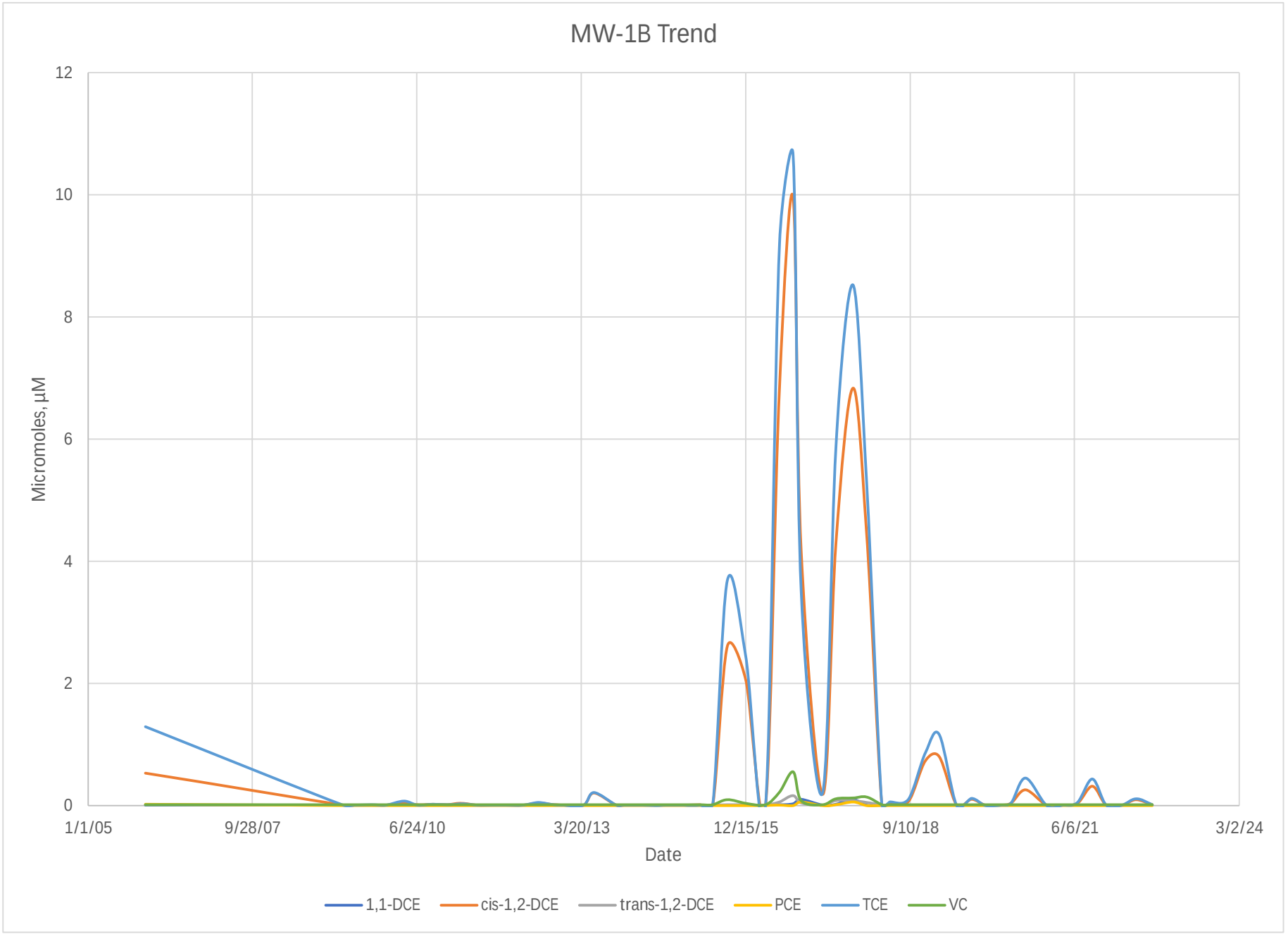

EW-13 Trend
0.3
0.25
0.2
0.15
0.1
0.05
0
Micromoles, µM
1/1/22
4/11/22
7/20/22
10/28/22
2/5/23
5/16/23
8/24/23
12/2/23
Date
1,1-DCE
cis-1,2-DCE
trans-1,2-DCE
PCE
TCE
VC

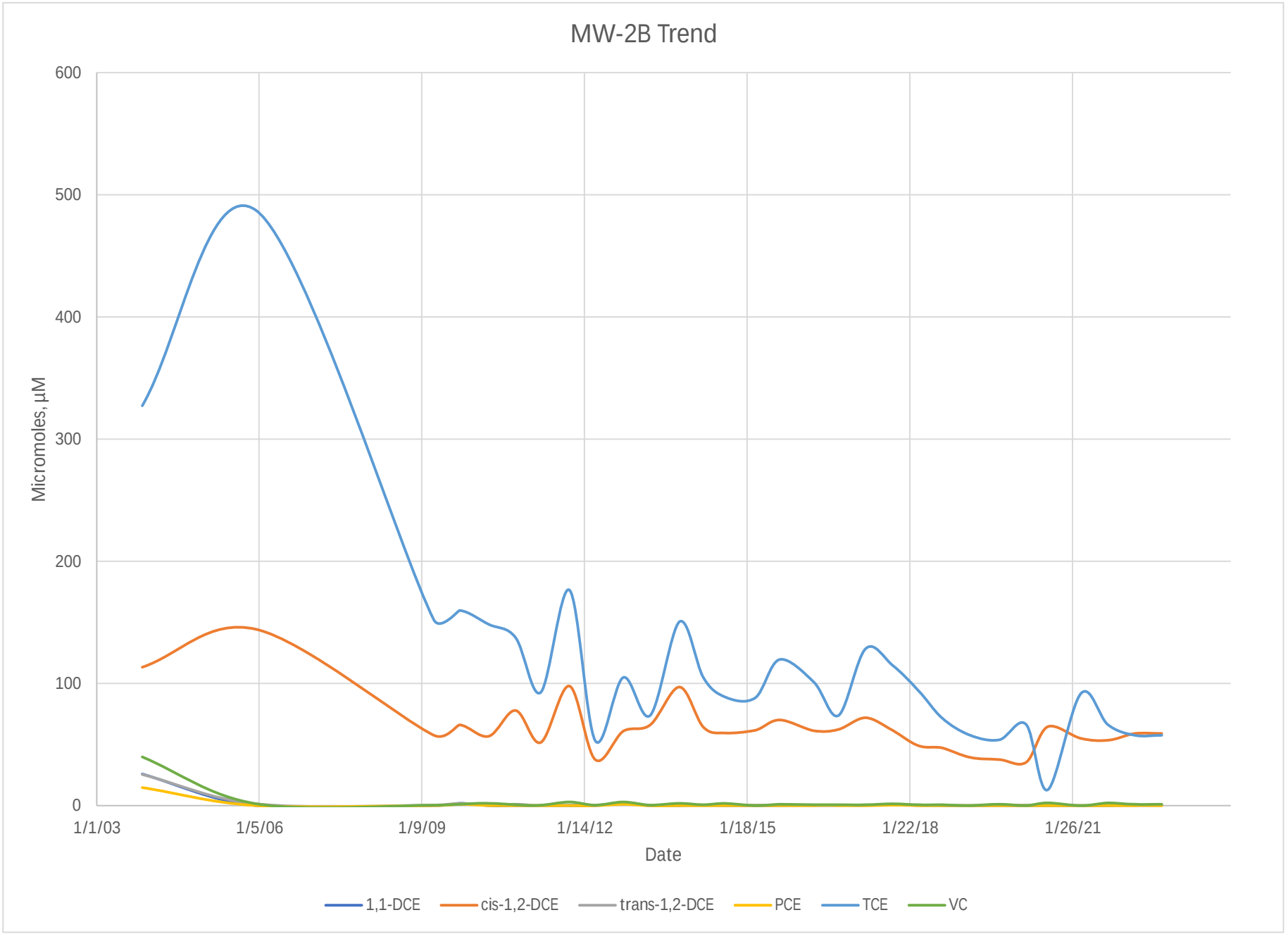

EW-14 Trend
0.6
0.5
0.4
0.3
0.2
0.1
0
Micromoles, µM
1/1/22
4/11/22
7/20/22
10/28/22
2/5/23
5/16/23
8/24/23
12/2/23
Date
1,1-DCE
cis-1,2-DCE
trans-1,2-DCE
PCE
TCE
VC

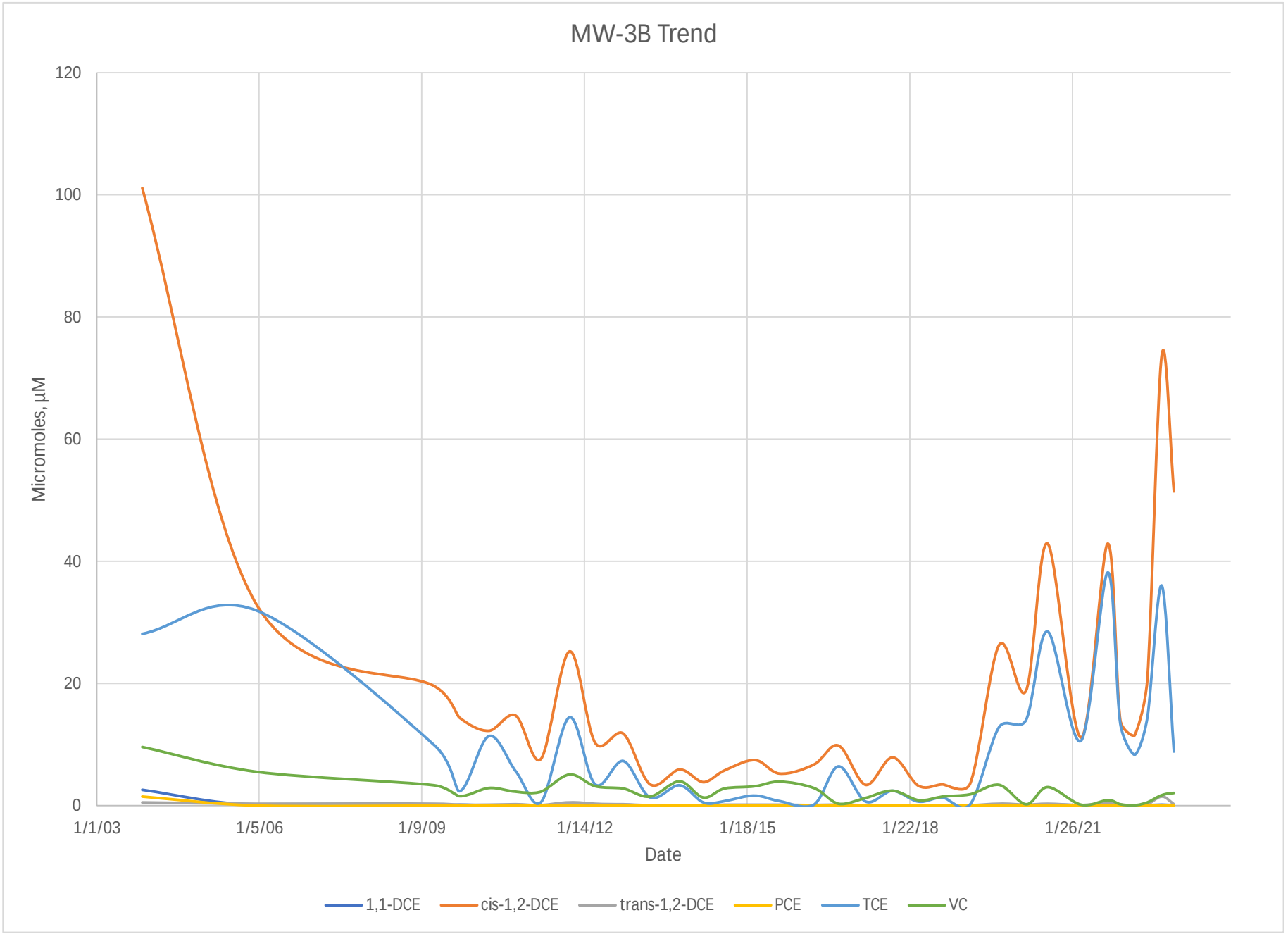

EXB-7 Trend
90
80
70
60
50
40
30
20
10
0
Micromoles, µM
1/1/07
9/27/09
6/23/12
3/20/15
12/14/17
9/9/20
6/6/23
Date
1,1-DCE
cis-1,2-DCE
trans-1,2-DCE
PCE
TCE
VC

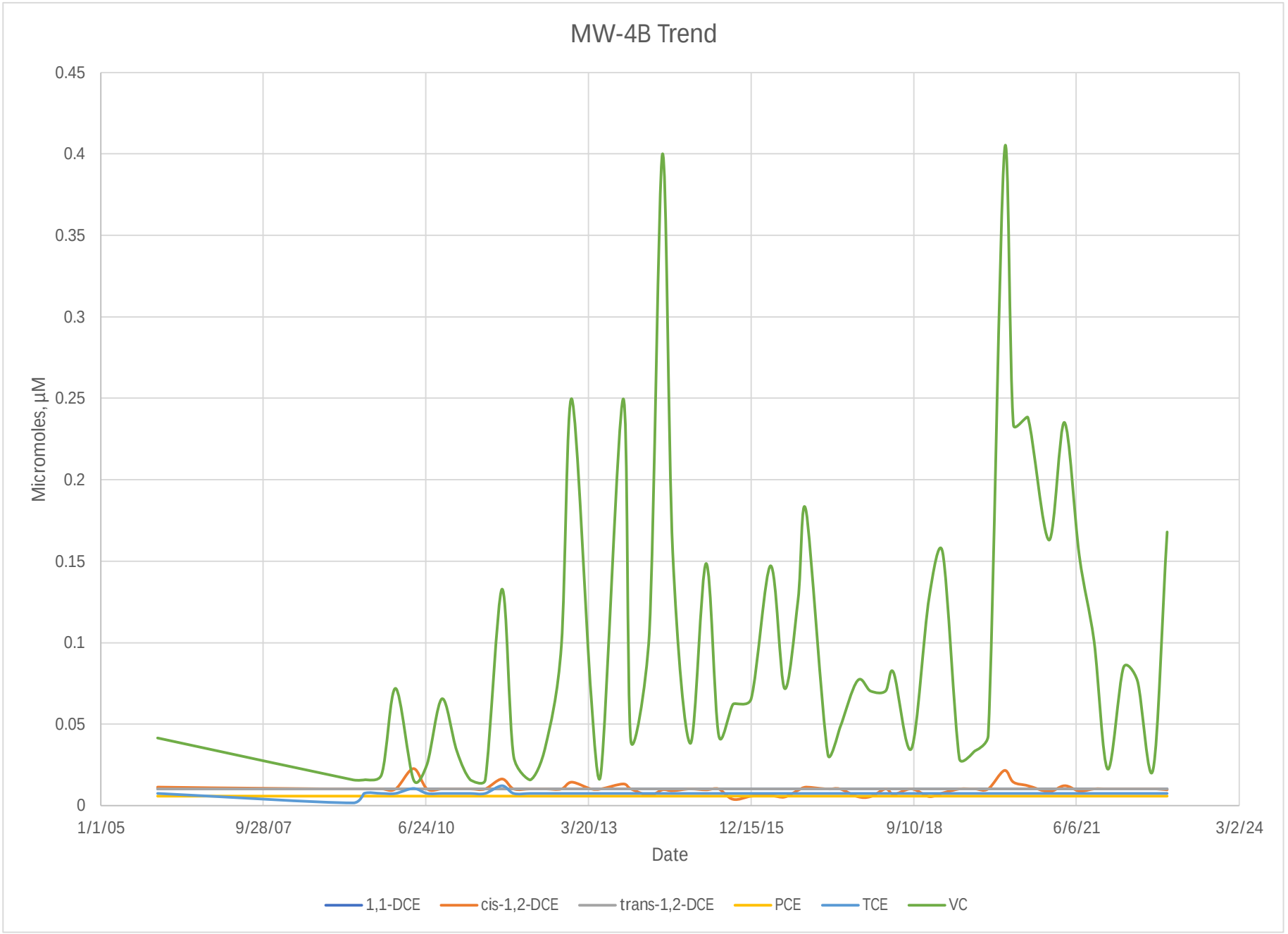

EXB-9 Trend
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
Micromoles, µM
1/1/09
9/28/11
6/24/14
3/20/17
12/15/19
9/10/22
Date
1,1-DCE
cis-1,2-DCE
trans-1,2-DCE
PCE
TCE
VC

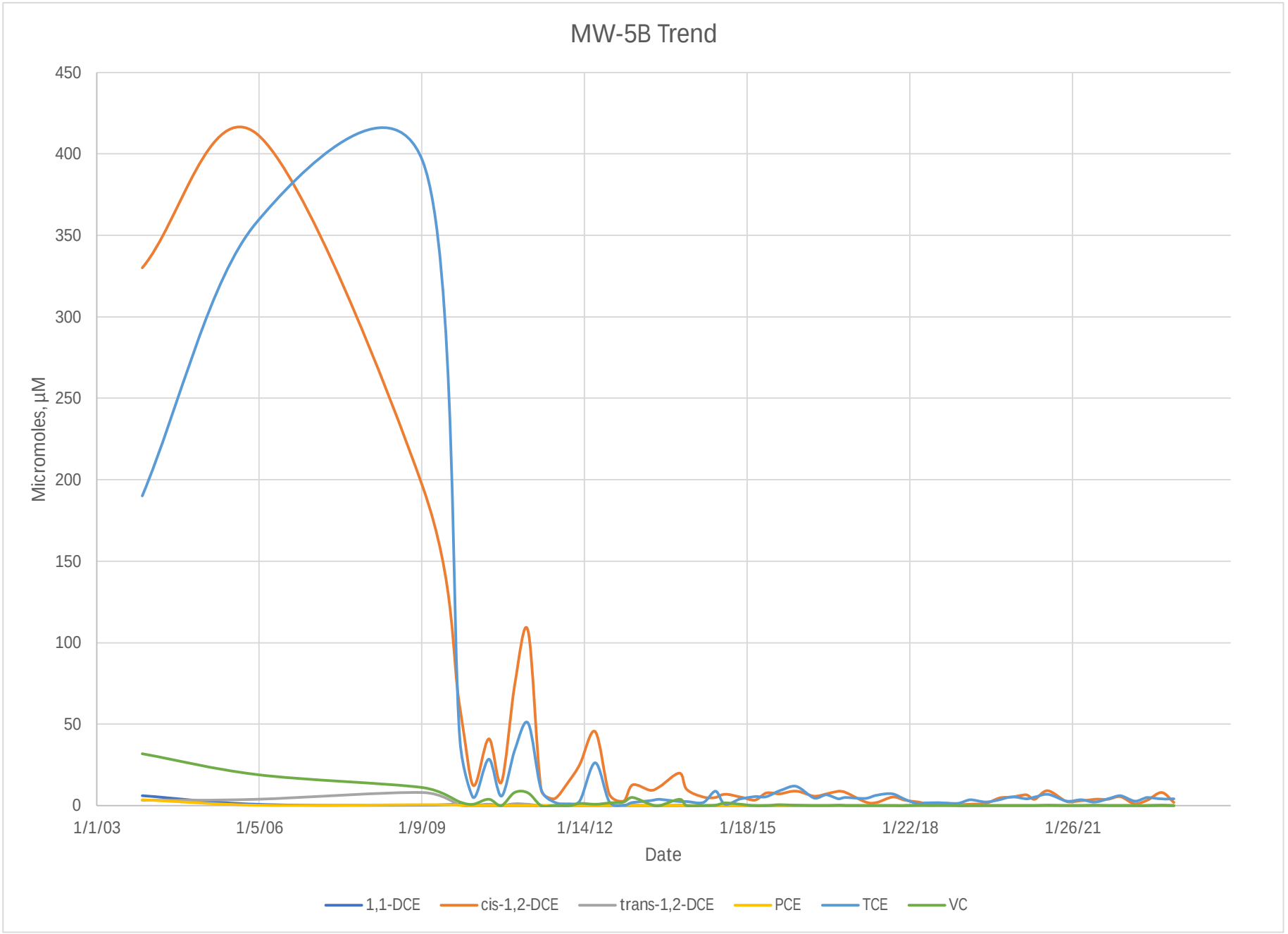

EXB-10 Trend
1.2
1
0.8
0.6
0.4
0.2
0
Micromoles, µM
1/1/08
9/27/10
6/23/13
3/19/16
12/14/18
9/9/21
Date
1,1-DCE
cis-1,2-DCE
trans-1,2-DCE
PCE
TCE
VC

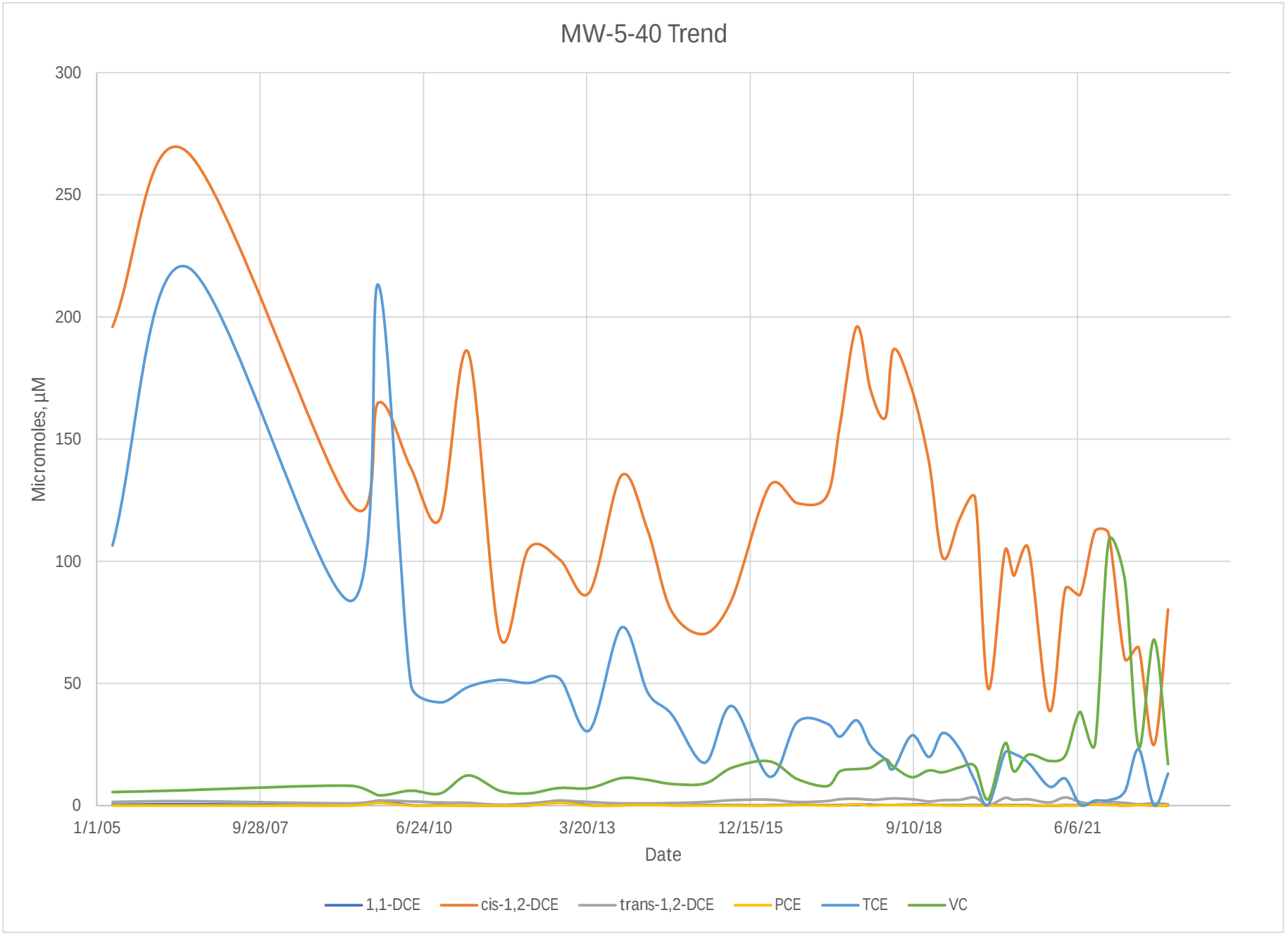

MW-1B Trend
12
10
8
6
4
2
0
Micromoles, µM
1/1/05
9/28/07
6/24/10
3/20/13
12/15/15
9/10/18
6/6/21
3/2/24
Date
1,1-DCE
cis-1,2-DCE
trans-1,2-DCE
PCE
TCE
VC

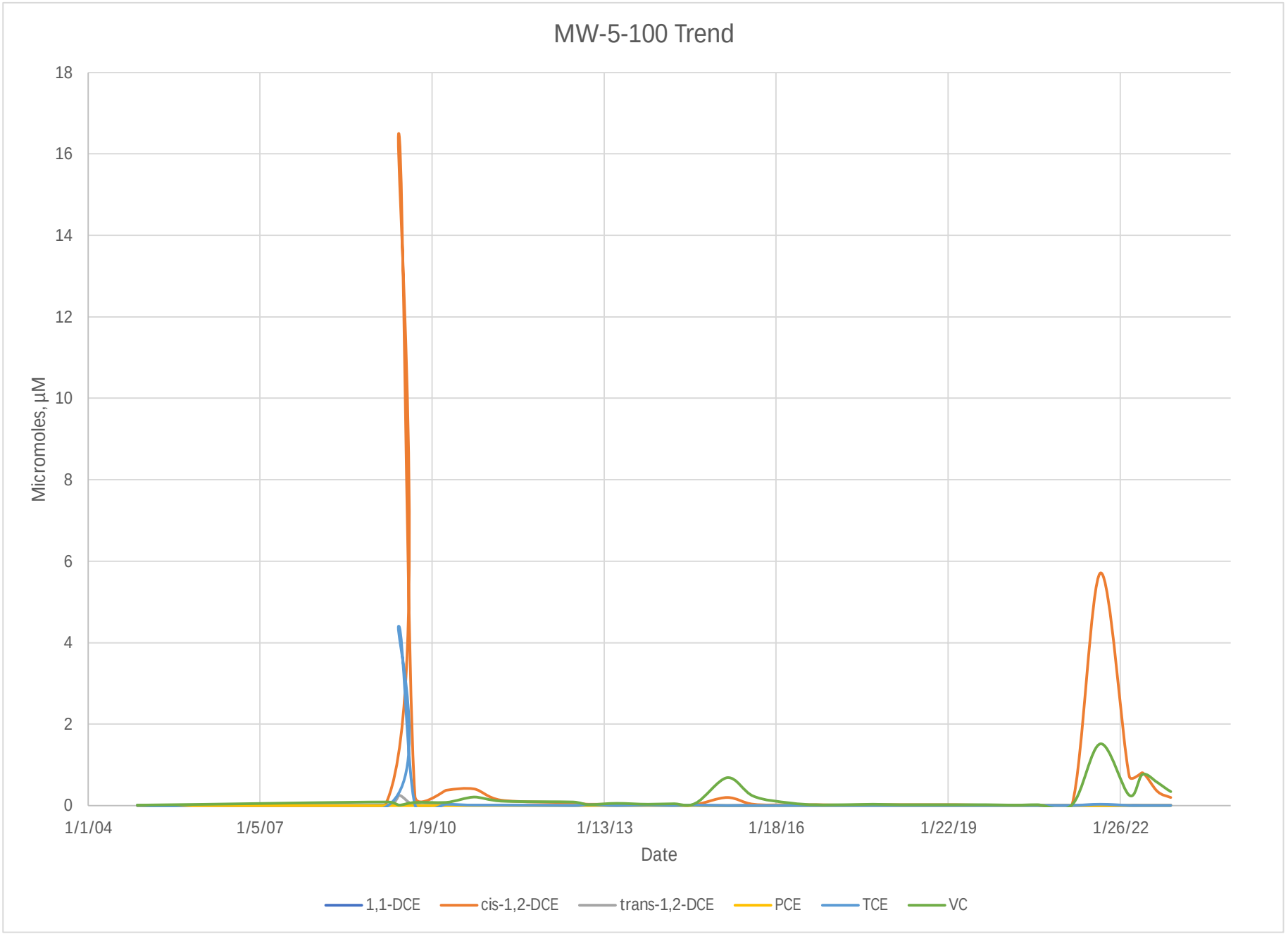

MW-2B Trend
600
500
400
300
200
100
0
Micromoles, µM
1/1/03
1/5/06
1/9/09
1/14/12
1/18/15
1/22/18
1/26/21
Date
1,1-DCE
cis-1,2-DCE
trans-1,2-DCE
PCE
TCE
VC

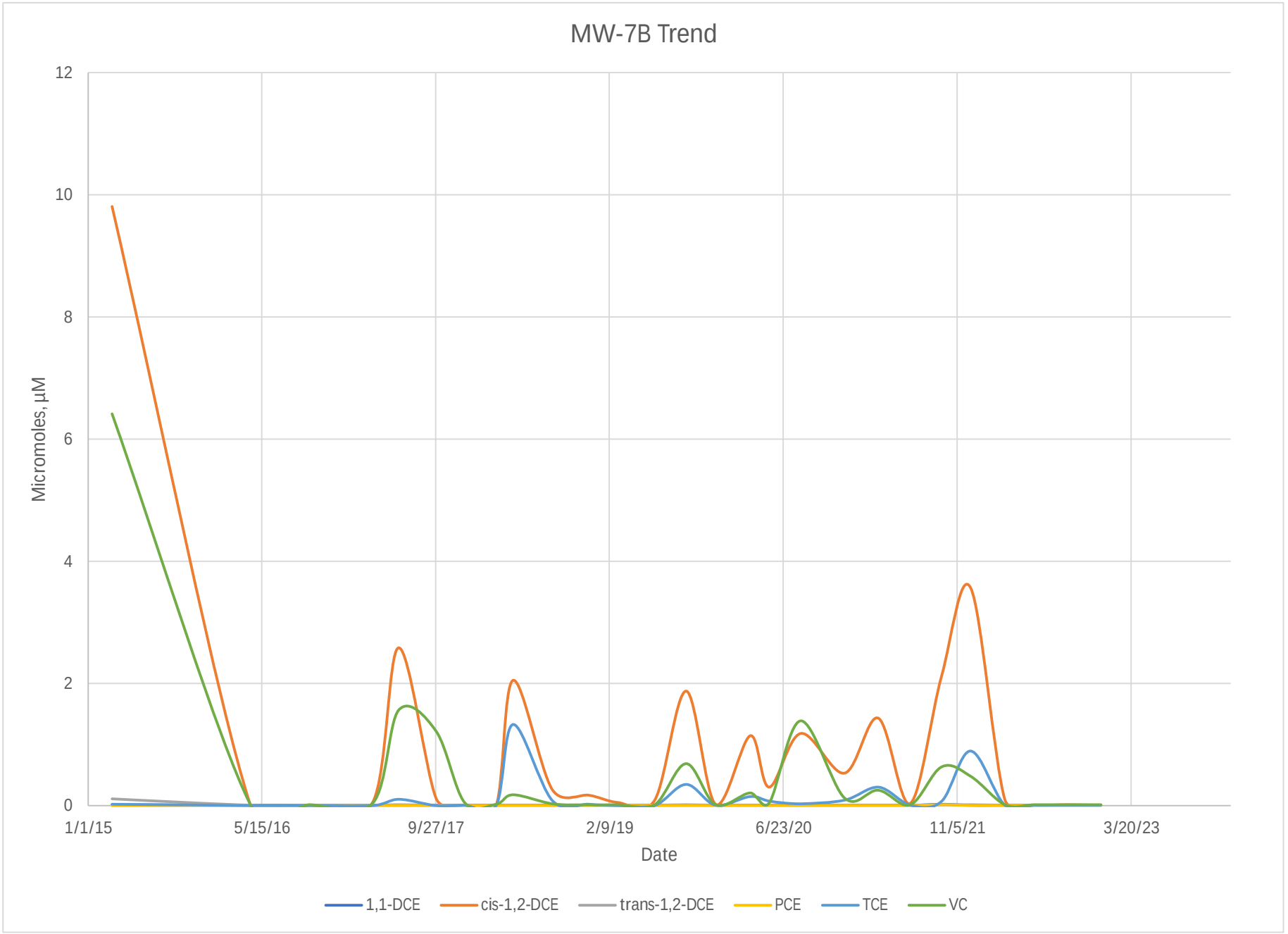

MW-3B Trend
120
100
80
60
40
20
0
Micromoles, µM
1/1/03
1/5/06
1/9/09
1/14/12
1/18/15
1/22/18
1/26/21
Date
1,1-DCE
cis-1,2-DCE
trans-1,2-DCE
PCE
TCE
VC

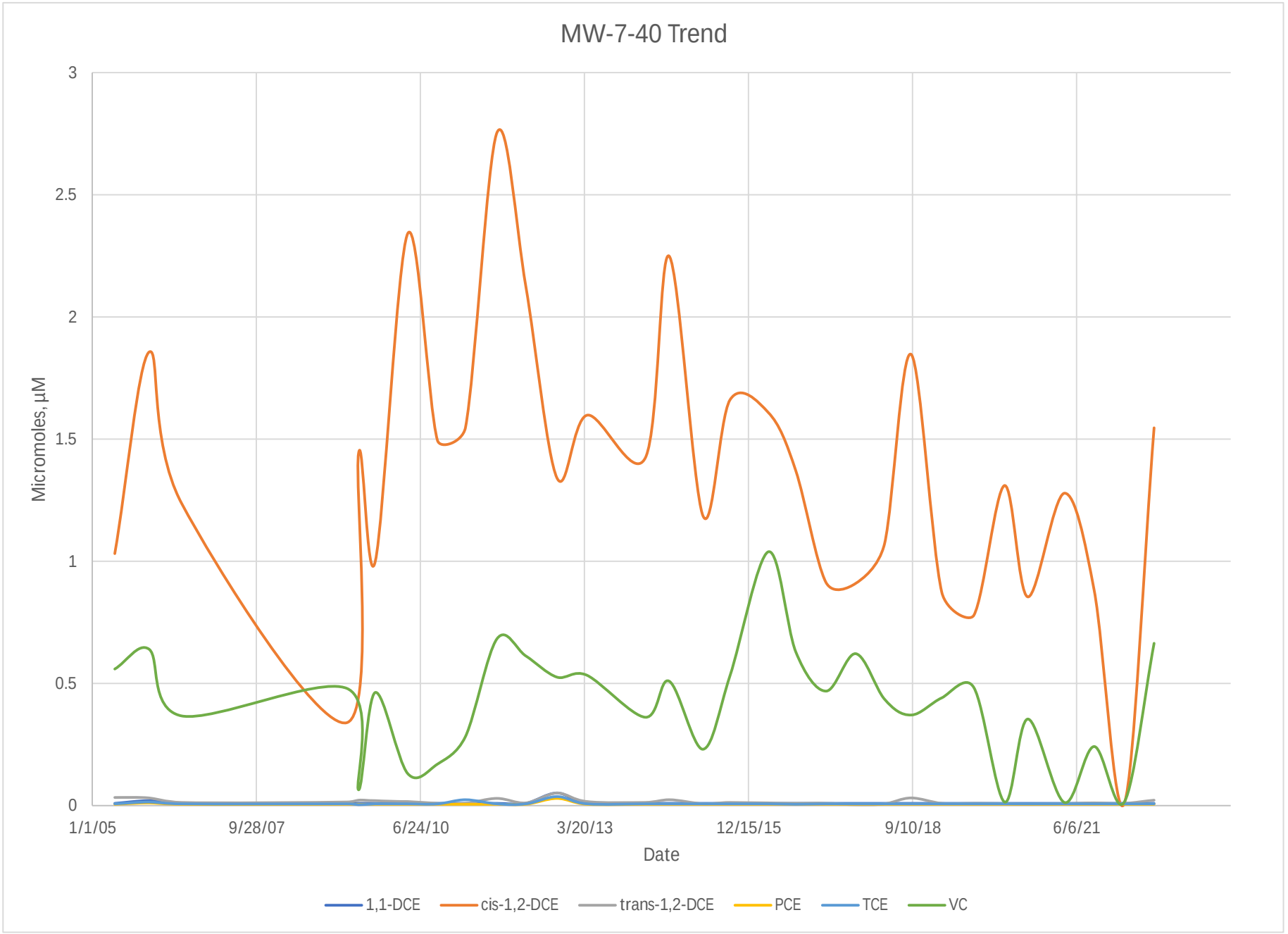

MW-4B Trend
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
Micromoles, µM
1/1/05
9/28/07
6/24/10
3/20/13
12/15/15
9/10/18
6/6/21
3/2/24
Date
1,1-DCE
cis-1,2-DCE
trans-1,2-DCE
PCE
TCE
VC

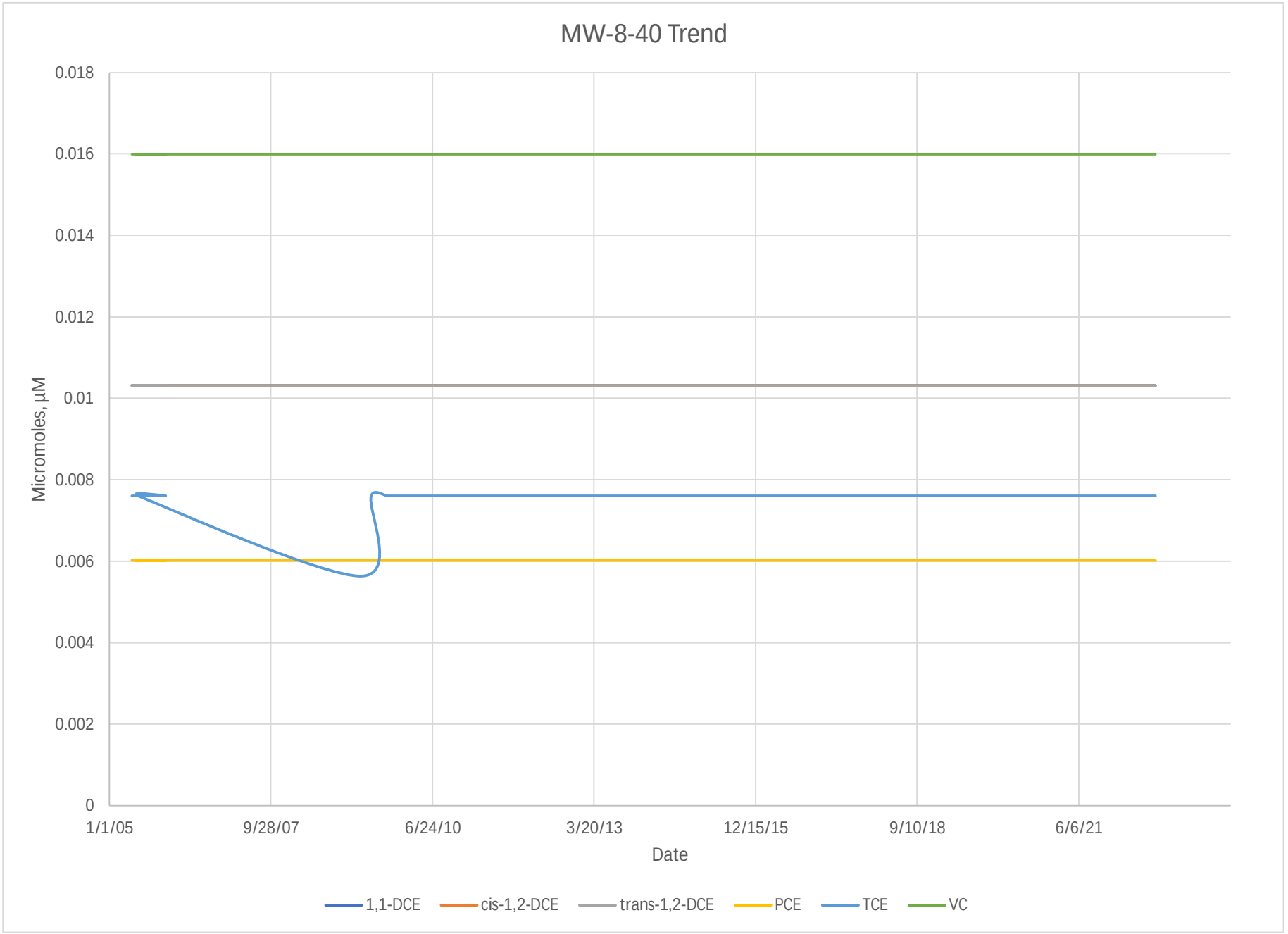

MW-5B Trend
450
400
350
300
250
200
150
100
50
0
Micromoles, µM
1/1/03
1/5/06
1/9/09
1/14/12
1/18/15
1/22/18
1/26/21
Date
1,1-DCE
cis-1,2-DCE
trans-1,2-DCE
PCE
TCE
VC

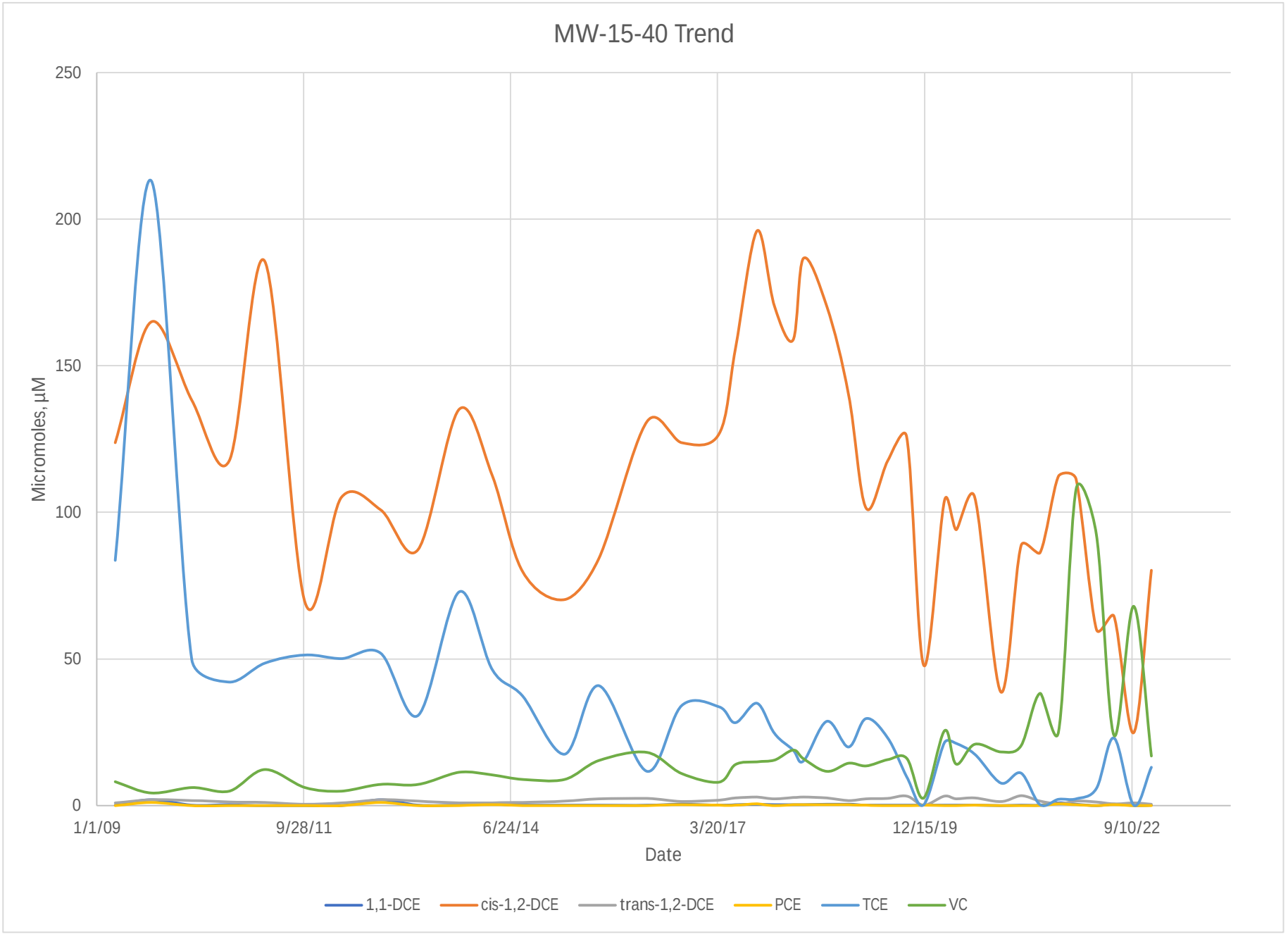

MW-5-40 Trend
300
250
200
150
100
50
0
Micromoles, µM
1/1/05
9/28/07
6/24/10
3/20/13
12/15/15
9/10/18
6/6/21
Date
1,1-DCE
cis-1,2-DCE
trans-1,2-DCE
PCE
TCE
VC

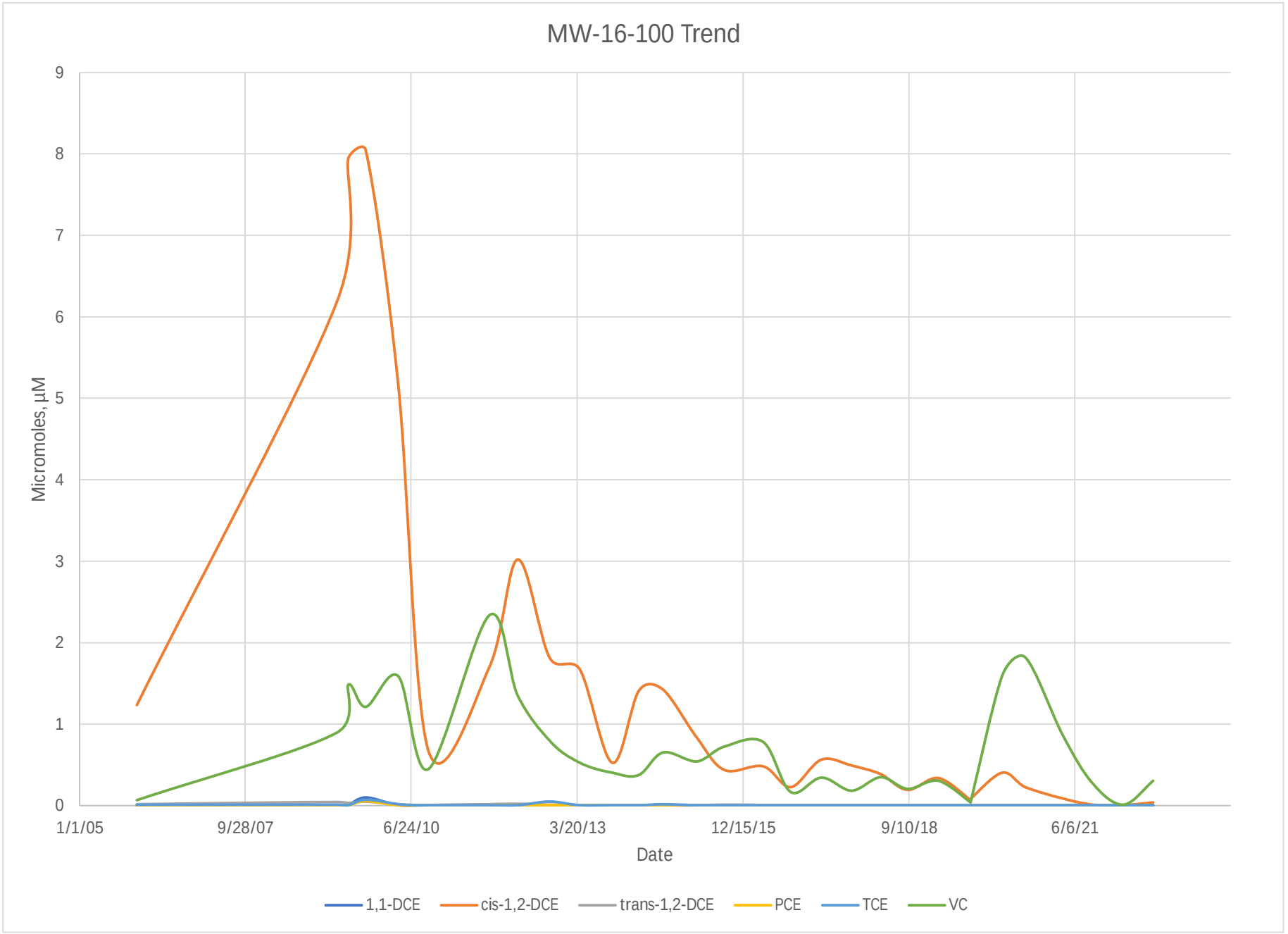

MW-5-100 Trend
18
16
14
12
10
8
6
4
2
0
Micromoles, µM
1/1/04
1/5/07
1/9/10
1/13/13
1/18/16
1/22/19
1/26/22
Date
1,1-DCE
cis-1,2-DCE
trans-1,2-DCE
PCE
TCE
VC

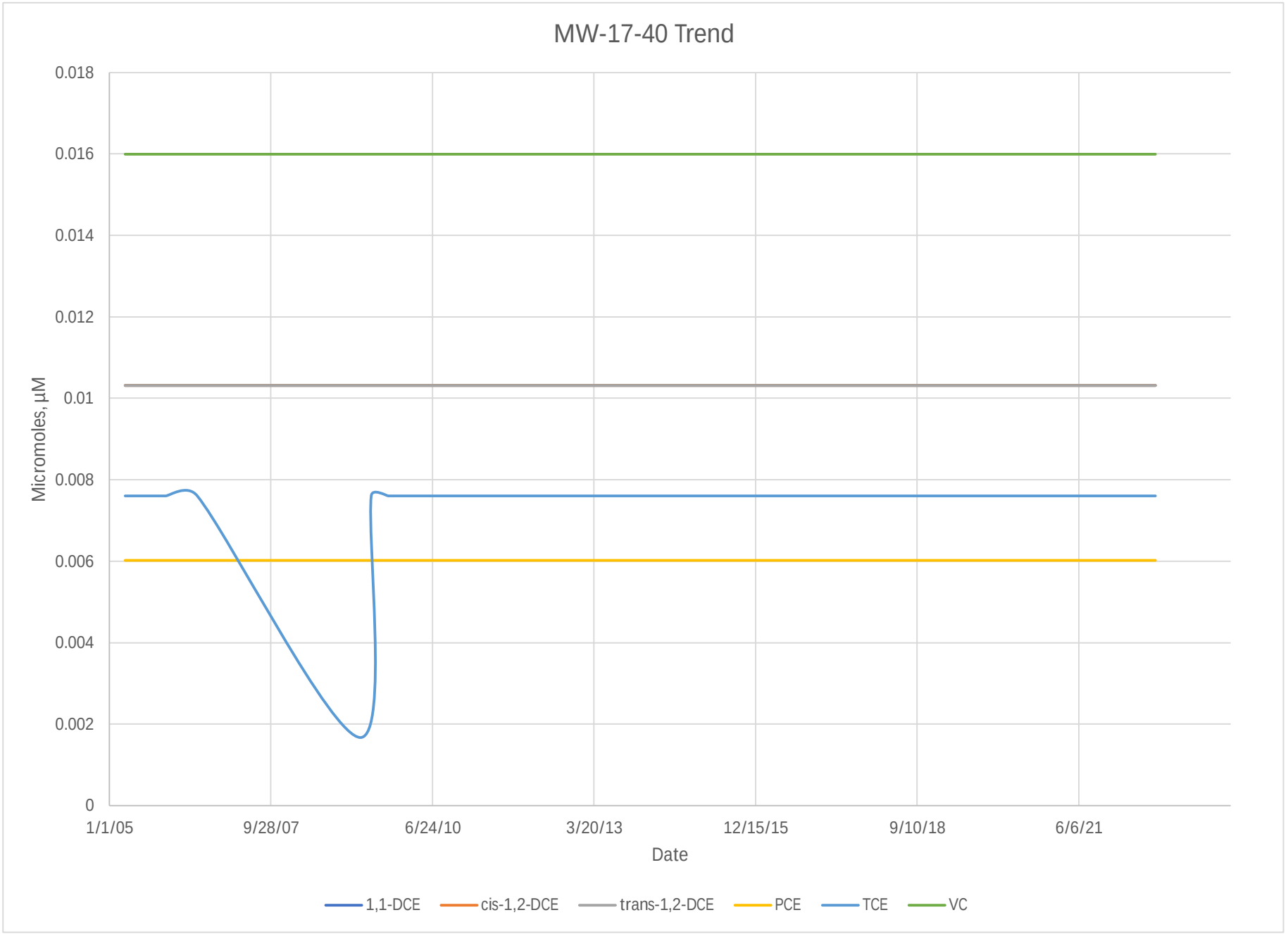

MW-7B Trend
12
10
8
6
4
2
0
Micromoles, µM
1/1/15
5/15/16
9/27/17
2/9/19
6/23/20
11/5/21
3/20/23
Date
1,1-DCE
cis-1,2-DCE
trans-1,2-DCE
PCE
TCE
VC

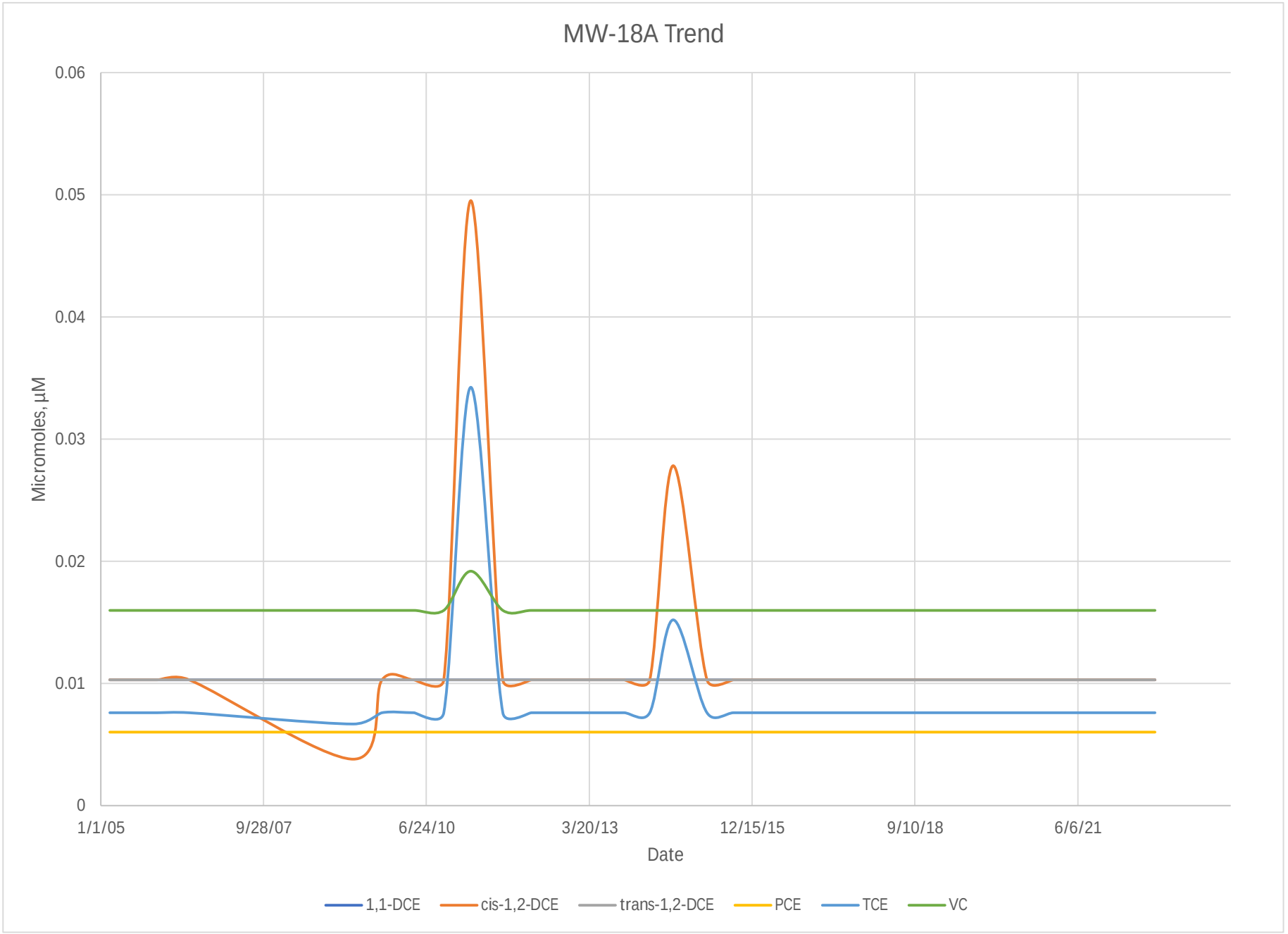

MW-7-40 Trend
Micromoles, µM
3
2.5
2
1.5
1
0.5
0
1/1/05
9/28/07
6/24/10
3/20/13
12/15/15
9/10/18
6/6/21
Date
1,1-DCE
cis-1,2-DCE
trans-1,2-DCE
PCE
TCE
VC

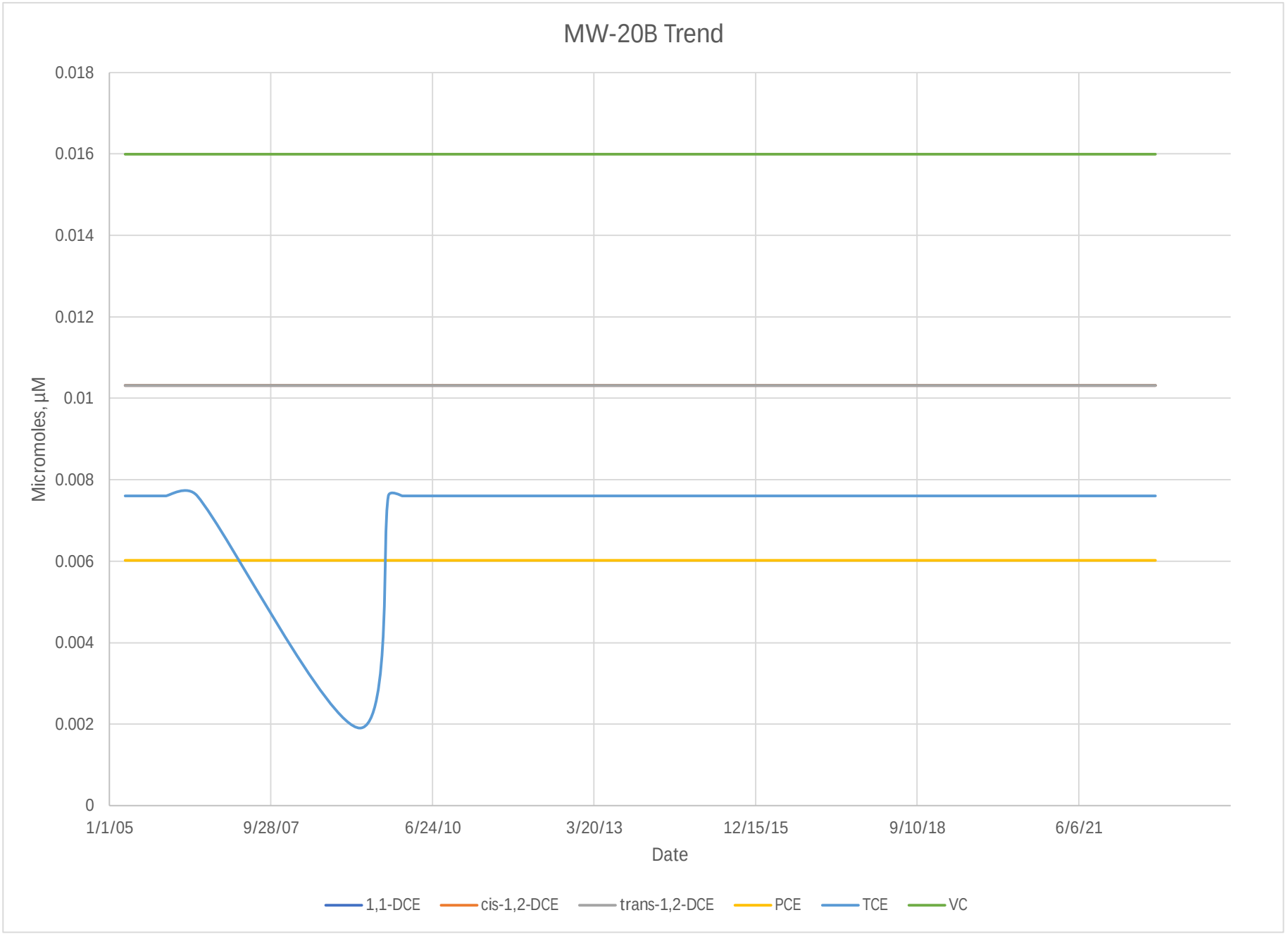

MW-8-40 Trend
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
Micromoles, µM
1/1/05
9/28/07
6/24/10
3/20/13
12/15/15
9/10/18
6/6/21
Date
1,1-DCE
cis-1,2-DCE
trans-1,2-DCE
PCE
TCE
VC

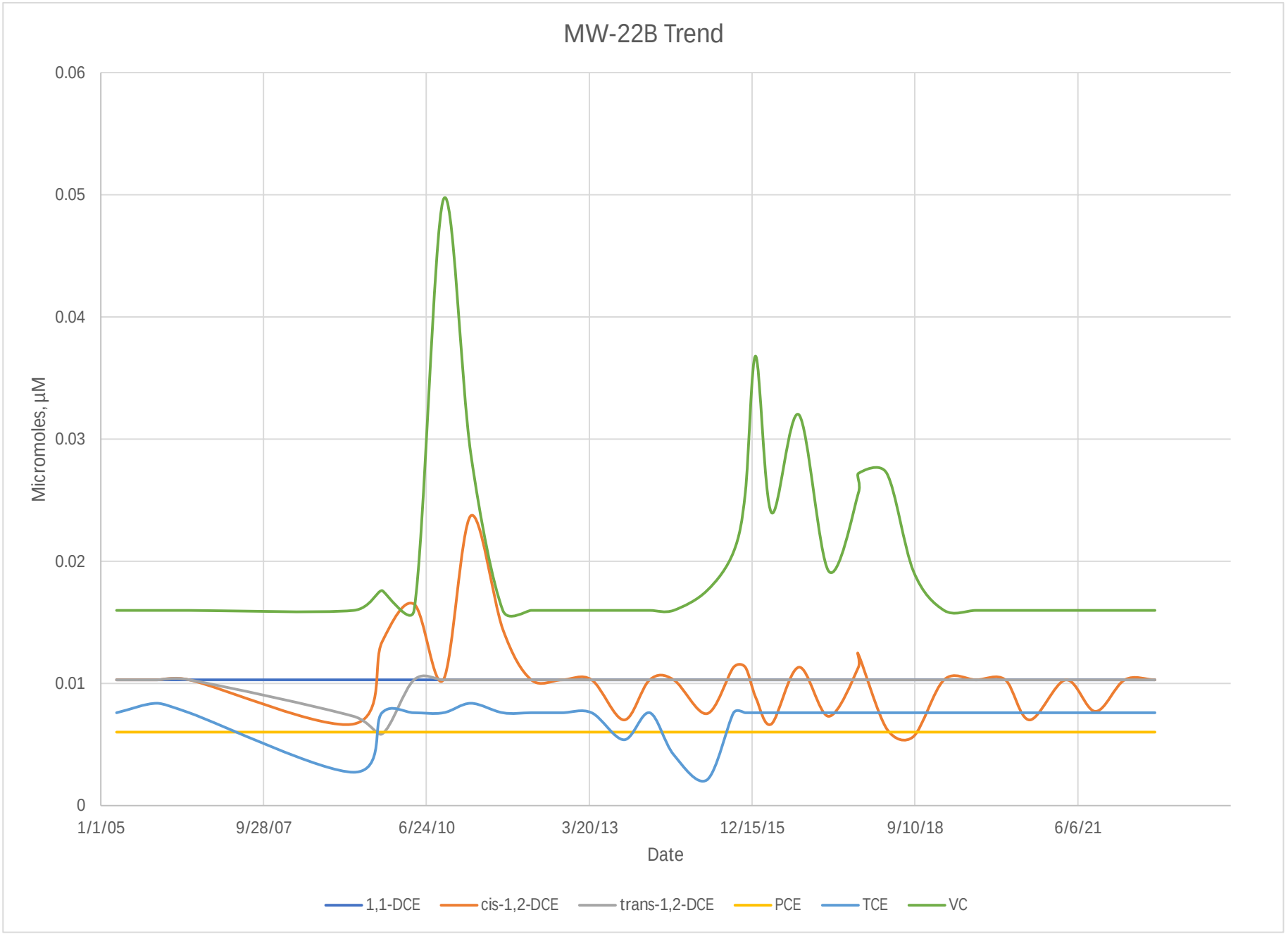

MW-15-40 Trend
250
200
150
100
50
0
Micromoles, µM
1/1/09
9/28/11
6/24/14
3/20/17
12/15/19
9/10/22
Date
1,1-DCE
cis-1,2-DCE
trans-1,2-DCE
PCE
TCE
VC

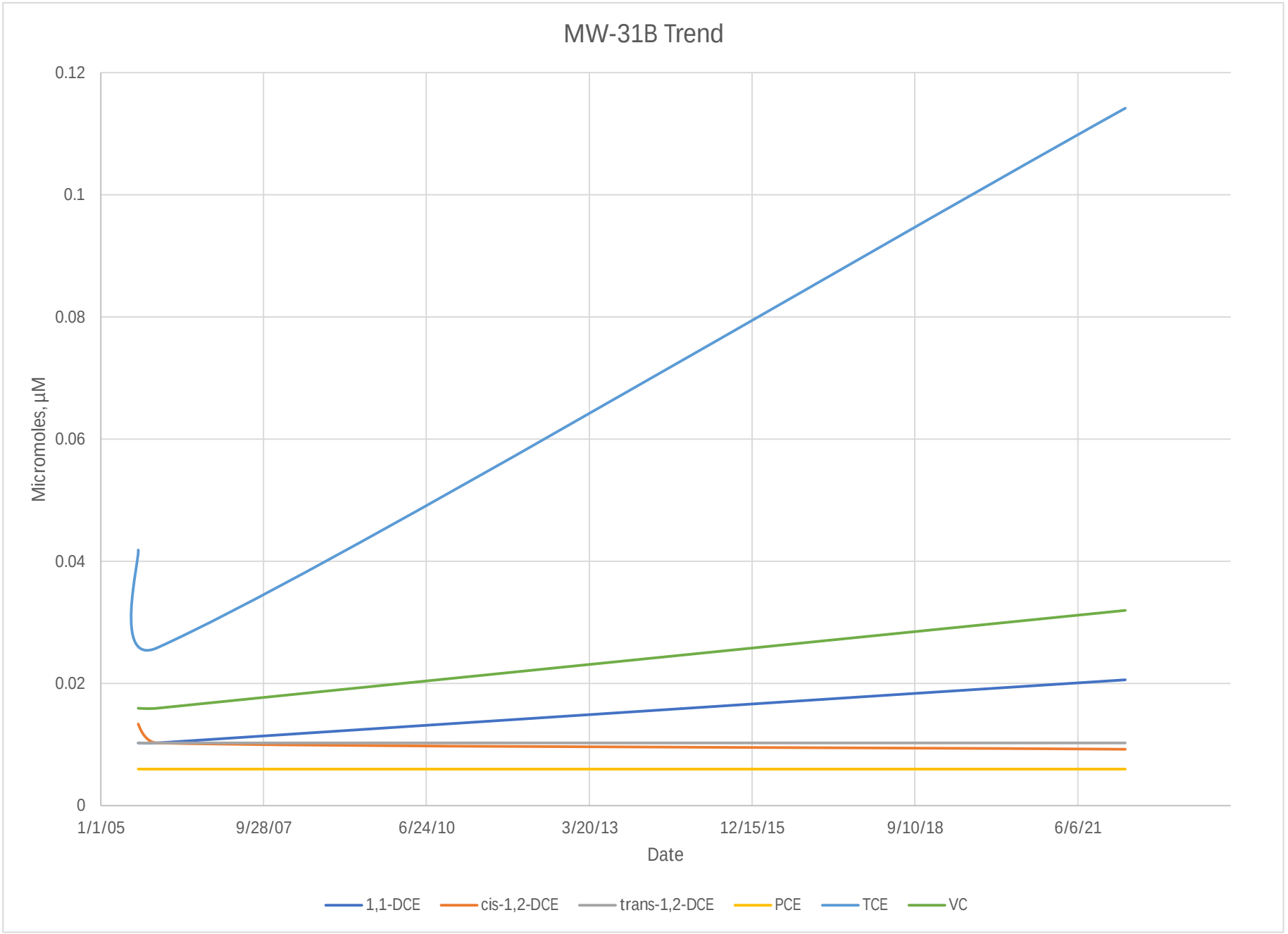

MW-16-100 Trend
Micromoles, µM
9
8
7
6
5
4
3
2
1
0
1/1/05
9/28/07
6/24/10
3/20/13
12/15/15
9/10/18
6/6/21
Date
1,1-DCE
cis-1,2-DCE
trans-1,2-DCE
PCE
TCE
VC


MW-17-40 Trend
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
Micromoles, µM
1/1/05
9/28/07
6/24/10
3/20/13
12/15/15
9/10/18
6/6/21
Date
1,1-DCE
cis-1,2-DCE
trans-1,2-DCE
PCE
TCE
VC


MW-18A Trend
0.06
0.05
0.04
0.03
0.02
0.01
0
Micromoles, µM
1/1/05
9/28/07
6/24/10
3/20/13
12/15/15
9/10/18
6/6/21
Date
1,1-DCE
cis-1,2-DCE
trans-1,2-DCE
PCE
TCE
VC


MW-20B Trend
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
Micromoles, µM
1/1/05
9/28/07
6/24/10
3/20/13
12/15/15
9/10/18
6/6/21
Date
1,1-DCE
cis-1,2-DCE
trans-1,2-DCE
PCE
TCE
VC


MW-22B Trend
0.06
0.05
0.04
0.03
0.02
0.01
0
Micromoles, µM
1/1/05
9/28/07
6/24/10
3/20/13
12/15/15
9/10/18
6/6/21
Date
1,1-DCE
cis-1,2-DCE
trans-1,2-DCE
PCE
TCE
VC


MW-31B Trend
0.12
0.1
0.08
0.06
0.04
0.02
0
Micromoles, µM
1/1/05
9/28/07
6/24/10
3/20/13
12/15/15
9/10/18
6/6/21
Date
1,1-DCE
cis-1,2-DCE
trans-1,2-DCE
PCE
TCE
VC

APPENDIX

J DATA USABILITY AND SUMMARY REPORTS

Data Usability Summary Report	Project: Former EPT Ithaca
Date Completed: April 14, 2023	Completed by: Devon Richards, Nick Archer

The analytical data provided by the laboratory were reviewed for precision, accuracy, and completeness based on applicable sections of the following guidelines.

- EPA Region 2 Data Validation SOP No. HW-34A, Revision 1

Specific criteria for QC limits were obtained from the master QAPP. Compliance with the project QA program is indicated in the checklist and tables below. Any major or minor concerns affecting data usability are listed below. The checklist and tables also indicate whether data qualification is required and/or the type of qualifier assigned.

Reference:

Project ID	Lab Work Order	Laboratory Report
31401545.001.01	JD57555	SGS North America Inc.

Table 1 Sample Listing Summary

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Field QC	ID Corrections
JD57555	WG	MW-7B	JD57555-1	12/13/2022 09:15:00		
JD57555	WG	MW-36B	JD57555-2	12/13/2022 09:30:00		
JD57555	WG	MW-46-72C	JD57555-3	12/13/2022 09:45:00		
JD57555	WG	MW-46-43C	JD57555-4	12/13/2022 10:00:00		
JD57555	WG	MW-8B	JD57555-5	12/13/2022 15:20:00		
JD57555	WG	MW-5-25	JD57555-6	12/14/2022 08:00:00		
JD57555	WG	MW-12C	JD57555-7	12/14/2022 08:20:00		
JD57555	WG	MW-15C	JD57555-8	12/14/2022 08:30:00		
JD57555	WG	MW-5-40	JD57555-9	12/14/2022 08:40:00		
JD57555	WG	MW-5-100	JD57555-10	12/14/2022 08:50:00		
JD57555	WG	MW-1	JD57555-11	12/14/2022 10:00:00	MS/ MSD	
JD57555	WG	MW-3B	JD57555-12	12/14/2022 10:20:00		
JD57555	WG	MW-1222A	JD57555-13	12/14/2022 07:20:00	FD	
JD57555	WG	MW-5B	JD57555-14	12/14/2022 10:30:00		
JD57555	WG	MW-4B	JD57555-15	12/14/2022 10:40:00		
JD57555	WG	MW-32B	JD57555-16	12/14/2022 11:00:00		
JD57555	WG	MW-50-160D	JD57555-17	12/14/2022 14:45:00		
JD57555	WG	EW-13	JD57555-18	12/14/2022 15:00:00		
JD57555	WQ	EB-121422	JD57555-19	12/14/2022 15:45:00	EB	
JD57555	WG	EXB-7	JD57555-20	12/15/2022 09:25:00	MS/ MSD	
JD57555	WG	EXB-10	JD57555-21	12/15/2022 09:50:00		
JD57555	WG	MW-121522	JD57555-22	12/15/2022 08:00:00	FD	
JD57555	WG	EW-14	JD57555-23	12/15/2022 10:15:00		
JD57555	WG	MW-13C	JD57555-24	12/15/2022 10:30:00		
JD57555	WH	EB-121522	JD57555-25	12/15/2022 08:00:00	EB	
JD57555	WG	EXB-9	JD57555-26	12/15/2022 11:45:00		
JD57555	WQ	TRIP BLANK	JD57555-27	12/15/2022 11:45:00	TB	

Table 1A Sample Test Summary

Work Orders	Matrix	Test Method	Method Name	Number of Samples	Sample Type
JD57555	WG	SW8260C	Volatile Organic Compounds by GC/MS	22	N
JD57555	WG	SW8260C	Volatile Organic Compounds by GC/MS	2	FD
JD57555	WQ	SW8260C	Volatile Organic Compounds by GC/MS	1	TB
JD57555	WQ	SW8260C	Volatile Organic Compounds by GC/MS	2	EB
JD57555	WQ	SW8260C	Volatile Organic Compounds by GC/MS	2	MS/MSD

Data Usability Summary Report	Project: Former EPT Ithaca
Date Completed: April 14, 2023	Completed by: Devon Richards, Nick Archer

General Sample Information	
Do Samples and Analyses on COC check against Lab Sample Tracking Form?	Yes.
Did coolers arrive at lab between 2 and 6°C and in good condition as indicated on COC and Cooler Receipt Form?	Yes.
Frequency of Field QC Samples Correct? Field Duplicate - 1/20 samples Trip Blank - Every cooler with VOCs Equipment Blank - 1/20 samples	The frequency of field QC will be evaluated at the end of project. 2 FD per 22 samples. 2 MS/MSD per 22 samples. 1 trip blank. 2 equipment blanks.
Case narrative present and complete?	Yes.
Any holding time violations?	No.

The following tables are presented at the end of this DUSR and provide summaries of results outside QC criteria:

- Method Blanks Results (Table 2)
- Surrogates Outside Limits (Table 3)
- MS/MSD Outside Limits (Table 4)
- LCS and ICV/CCV Outside Limits (Table 5)
- Reanalysis Results (Table 6)
- Field Duplicate Results (Table 7)

Go to Tables List

Volatile Organic Compounds by GC/MS – Method 8260C	
Description	**Notes and Qualifiers**
Any compounds present in method, trip, or, field blanks (see Table 2)?	Yes.
For samples, if results are < 5 times the blank or < 10 times the blank for common laboratory contaminants, then "U" flag data. Qualification also applies to TICs.	Carbon disulfide was detected below the PQL in method blank V1A9796-MB. Equipment blank EB-121522 was U qualified as non-detect and the MDL was elevated to the sample result.
Are surrogates for method blanks and LCS within limits?	Yes.
Are surrogates for samples and MS/MSD within limits? (See Table 3). If not, were all samples reanalyzed for VOCs? Matrix effects should be established.	Yes.
Is Laboratory QC frequency at least one blank and LCS with each batch and one set of MS/MSD per 20 samples?	Yes.
Is MS/MSD within QC criteria (see Table 4)? If out and LCS is compliant, then “J” flag positive data in original sample due to matrix.	No. cis-1,2-Dichloroethene was recovered below acceptance criteria in the MS and MSD for samples MW-46-72C, EXB-7 and MW-5-40. The associated sample results were greater than four times the spike amount; therefore, no qualification was made. cis-1,2-Dichloroethene was recovered above acceptance criteria in the MS and MSD for samples MW-50-160D. The sample result was J qualified as estimated.
Is LCS within QC criteria (see Table 5)? If out, and the recovery is high with no positive values, then no data qualification is required.	Yes.
Do internal standards areas and retention time meet criteria? If not was sample re-analyzed to establish matrix (see Table 6)?	Yes.
Is initial calibration for target compounds <20 %RSD or curve fit?	Yes.
Is %D in the continuing calibration for target compounds less than method specifications? (see Table 5B)	No. Multiple analytes were recovered outside of the acceptance criteria of +/- 20 %D in multiple CCVs. The associated sample results which were non-detect were UJ qualified as estimated non-detect and results which were detected were J qualified as estimated.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	Multiple samples were diluted to bring the concentration of target analytes within calibration range. Elevated reporting limits have been provided for the following samples which may impact screening criteria: • MW-1222A, MW-3B, MW-46-43C, MW-46-72C, MW-50-160D, and MW-5-40.
For TICs are there any system related compounds that should not be reported?	No.

Data Usability Summary Report	Project: Former EPT Ithaca
Date Completed: April 14, 2023	Completed by: Devon Richards, Nick Archer

Volatile Organic Compounds by GC/MS – Method 8260C	
Description	**Notes and Qualifiers**
Do field duplicate results show good precision for all compounds (see Table 7)?	Yes.

Summary of Findings

VOCs by 8260C

- cis-1,2-Dichloroethene was recovered below acceptance criteria in the MS and MSD for sample MW-50-160D. The associated sample results were J qualified as a result.
- Multiple analytes were recovered outside of the acceptance criteria of +/- 20 %D in multiple CCVs. The associated sample results which were non-detect were UJ qualified as estimated non-detect and results which were detected were J qualified as estimated. See Table 5B for a summary of associated sample results.
- Multiple samples were diluted due to high concentration of target analytes. Elevated reporting limits were provided for samples MW-1222A, MW-3B, MW-46-43C, MW-46-72C, MW-50-160D, and MW-5-40.

Table 2 - List of Positive Results for Blank Samples

Method	Sample Name	Sample Type	Analyte	Result	Qualifier	Units	MDL	PQL
8260D	V1A9796-MB	MB	Carbon disulfide	0.65	J	ug/l	0.46	2

Table 2A - List of Samples Qualified for Method Blank Contamination

Method	Blank	Matrix	Analyte	Blank Result	Lab Qual	Sample Result	Sample Flag	MDL	PQL	Sample Name	Sample Qual
8260D	V1A9796-MB	WQ	Carbon disulfide	0.65	J	0.6	J	0.46	2	EB-121522	U Flag

Table 2B - List of Samples Qualified for Field Blank Contamination

None.

Table 3 - List of Samples with Surrogates outside Control Limits

None.

Table 4A – List of MS/MSD Recoveries outside Control Limits

Method	Parent Sample	Sample Type	Analyte	Orig. Result	Spike Amount	Dil Fac	Unit	Low Limit	High Limit	MS	MSD	Qualifier
8260D	MW-46-72C	MS/MSD	cis-1,2-Dichloroethene	13500	1250	25	ug/l	52	140	-56	-80	None > 4x
8260D	EXB-7	MS/MSD	cis-1,2-Dichloroethene	1470	50	1	ug/l	52	140	-60	0	None > 4x
8260D	MW-5-40	MS/MSD	cis-1,2-Dichloroethene	7850	500	10	ug/l	52	140	4	-30	None > 4x
8260D	MW-50-160D	MS/MSD	cis-1,2-Dichloroethene	2910	1000	20	ug/l	52	140	42	44	J Flag

Table 4B – List of MS/MSD RPDs outside Control Limits

None.

Table 5A - List of LCS Recoveries outside Control Limits

None.

Table 5B – List of ICV/CCV Recoveries outside Control Limits

Method	Calibration ID	Matrix	Analyte	Associated Samples	%D Result	%D Limit	Sample Flag
8260D	V1A9792-CC9767	CCV	2-Hexanone	MW-7B MW-36B MW-46-43C MW-8B	-21.5	20	UJ Flag
8260D	V1A9792-CC9767	CCV	2-Butanone		-34.8	20	UJ Flag
8260D	V1A9792-CC9767	CCV	Acetone		-29.1	20	UJ Flag
8260D	V1A9792-CC9767	CCV	Bromomethane		-93.5	20	UJ Flag
8260D	V1A9796-CC9767	CCV	Bromomethane	MW-5-25 MW-5-40	-28.8	20	UJ Flag

Table 5B – List of ICV/CCV Recoveries outside Control Limits

Method	Calibration ID	Matrix	Analyte	Associated Samples	%D Result	%D Limit	Sample Flag
				MW-5-100 MW-3B MW-1222A EW-13 MW-13C EB-121522			
8260D	V1F47-CC14	CCV	2-Butanone	MW-46-72C	20.3	20	UJ Flag
8260D	V1F47-CC14	CCV	Bromomethane		34.9	20	UJ Flag
8260D	V1F47-CC14	CCV	Chloroethane		24.4	20	UJ Flag
8260D	V1F47-CC14	CCV	Methylene chloride		21.2	20	UJ Flag
8260D	V1F47-CC14	CCV	Trichlorofluoromethane		24.4	20	UJ Flag
8260D	V1F48-CC14	CCV	Acetone	MW-4B EXB-7 EXB-10	-55.6	20	UJ Flag
8260D	V1F48-CC14	CCV	Acetone	MW-15C EW-14	-55.6	20	J Flag
8260D	V1F48-CC14	CCV	Bromomethane	MW-15C MW-4B EXB-7 EXB-10 EW-14	50.9	20	UJ Flag
8260D	V1F48-CC14	CCV	Chloroethane		27.4	20	UJ Flag
8260D	V1F48-CC14	CCV	Trichlorofluoromethane		25.4	20	UJ Flag
8260D	V1F52-CC14	CCV	Acetone	MW-50-160D	-22.2	20	UJ Flag
8260D	V1F52-CC14	CCV	Bromomethane		39.8	20	UJ Flag
8260D	V1F52-CC14	CCV	Carbon tetrachloride		20.6	20	UJ Flag
8260D	V1F52-CC14	CCV	Chloroethane		-34.2	20	UJ Flag
8260D	V1F52-CC14	CCV	Freon 113		20.7	20	UJ Flag
8260D	V2F48-CC14	CCV	Acetone	MW-12C MW-1 MW-5B MW-32B EB-121422 MW-121522 TRIP BLANK	-42.9	20	UJ Flag
8260D	V2F48-CC14	CCV	Bromomethane		52.4	20	UJ Flag
8260D	V2F48-CC14	CCV	Chloroethane		21.6	20	UJ Flag
8260D	V2F48-CC14	CCV	Chloroform		21.1	20	UJ Flag
8260D	V2F52-CC14	CCV	Acetone	EXB-9	-35.7	20	UJ Flag
8260D	V2F52-CC14	CCV	Bromomethane		21.6	20	UJ Flag
8260D	V2F52-CC14	CCV	Chloroethane		-46.1	20	UJ Flag

Table 6 –Samples that were Re-analyzed

Sample ID	Lab ID	Method	Sample Type	Action
EXB-7	JD57555-20	8260D	N	20X: Diluted due to bring the concentration of cis-1,2-Dichloroethene within calibration range.
MW-1222A	JD57555-13	8260D	FD	50X: Diluted due to bring the concentration of cis-1,2-Dichloroethene and trichloroethene analytes within calibration range.
MW-1222A	JD57555-13	8260D	FD	5X: Diluted due to bring the concentration of target analytes within calibration range. Elevated reporting limits have been provided for multiple analytes.
MW-15C	JD57555-8	8260D	N	10X: Diluted due to bring the concentration of cis-1,2-Dichloroethene and trichloroethene within calibration range.
MW-3B	JD57555-12	8260D	N	50X: Diluted due to bring the concentration of cis-1,2-Dichloroethene within calibration range.
MW-3B	JD57555-12	8260D	N	5X: Diluted due to bring the concentration of target analytes within calibration range. Elevated reporting limits have been provided for multiple analytes.
MW-46-43C	JD57555-4	8260D	N	100X: Diluted due to bring the concentration of target analytes within calibration range. Elevated reporting limits have been provided for multiple analytes.
MW-46-72C	JD57555-3	8260D	N	250X: Diluted due to bring the concentration of cis-1,2-Dichloroethene within calibration range.
MW-46-72C	JD57555-3	8260D	N	25X: Diluted due to bring the concentration of target analytes within calibration range. Elevated reporting limits have been provided for multiple analytes.
MW-50-160D	JD57555-17	8260D	N	20X: Diluted due to bring the concentration of vinyl chloride within calibration range. Elevated reporting limits have been provided for multiple analytes.
MW-5-40	JD57555-9	8260D	N	100X: Diluted due to bring the concentration of cis-1,2-Dichloroethene within calibration range.
MW-5-40	JD57555-9	8260D	N	10X: Diluted due to bring the concentration of target analytes within calibration range. Elevated reporting limits have been provided for multiple analytes.
MW-5B	JD57555-14	8260D	N	10X: Diluted due to bring the concentration of cis-1,2-Dichloroethene and trichloroethene analytes within calibration range.

Table 7A – Summary of Field Duplicate Results

Method	Analyte	Unit	Matrix	PQL	MW-3B	MW-1222A	RPD	RPD Rating	Sample Qual
SW8260	1,1-Dichloroethene	ug/l	WG	5	8.3	8.2	1.2%	Good	None
SW8260	cis-1,2-Dichloroethene	ug/l	WG	50	4990	4900	1.8%	Good	None
SW8260	trans-1,2-Dichloroethene	ug/l	WG	5	27.1	27.3	0.7%	Good	None

Table 7A – Summary of Field Duplicate Results

Method	Analyte	Unit	Matrix	PQL	MW-3B	MW-1222A	RPD	RPD Rating	Sample Qual
SW8260	Trichloroethene	ug/l	WG	50	1170	1190	1.7%	Good	None
SW8260	Vinyl chloride	ug/l	WG	5	133	140	5.1%	Good	None

Table 7B – Summary of Field Duplicate Results

Method	Analyte	Unit	Matrix	PQL	EXB-10	MW-121522	RPD	RPD Rating	Sample Qual
SW8260	Benzene	ug/l	WG	0.5	0.91	0.93	2.2%	Good	None
SW8260	cis-1,2-Dichloroethene	ug/l	WG	1	1.8	1.7	5.7%	Good	None
SW8260	Cyclohexane	ug/l	WG	5	1.8	1.8	0.0%	Good	None
SW8260	Methylcyclohexane	ug/l	WG	5	1.4	1.1	24.0%	Good	None
SW8260	Vinyl chloride	ug/l	WG	1	0.97	1.1	12.6%	Good	None

Table 7C – Summary of Field Duplicate Results

Method	Analyte	Unit	Matrix	PQL	MW-50-160D	MW-092022	RPD	RPD Rating	Sample Qual
SW8260	cis-1,2-Dichloroethene	ug/l	WG	100	3150	3200	1.6%	Good	None
SW8260	trans-1,2-Dichloroethene	ug/l	WG	10	17.1	16.8	1.8%	Good	None
SW8260	Trichloroethene	ug/l	WG	10	23	24	4.3%	Good	None
SW8260	Vinyl chloride	ug/l	WG	10	1120	1080	3.6%	Good	None

Table 7D – Summary of Field Duplicate Results

Method	Analyte	Unit	Matrix	PQL	MW-50-160D	MW-092222	RPD	RPD Rating	Sample Qual
SW8260	cis-1,2-Dichloroethene	ug/l	WG	1	1.7	1.7	0.0%	Good	None
SW8260	Trichloroethene	ug/l	WG	1	2.5	2.7	7.7%	Good	None

Acronym List and Table Key:

CCV = continuing calibration verification
COC = chain of custody

Data Usability Summary Report	Project: Former EPT Ithaca
Date Completed: April 14, 2023	Completed by: Devon Richards, Nick Archer

Acronym List and Table Key:

EPA	=	Environmental Protection Agency
DUSR	=	data usability summary report
FD	=	field duplicate
GC/MS	=	gas chromatography / mass spectrometry
ICV	=	initial calibration verification
LCS	=	laboratory control sample
MB	=	method blank
MDL	=	method detection limit
µg/L	=	micrograms per liter
MS	=	matrix spike
MSD	=	matrix spike duplicate
N	=	normal (field) sample
NC	=	not calculated
ND	=	not detected
PQL	=	practical quantitation limit
QA	=	quality assurance
QAPP	=	quality assurance project plan
QC	=	quality control
EB	=	equipment rinse blank
RPD	=	relative percent difference
RL	=	reporting limit
SDG	=	sample delivery group
TB	=	trip blank
TRG	=	target compound
%D	=	percent difference
%RSD	=	percent relative standard deviation

APPENDIX

K MONITORING WELL PURGE FORMS

WSP
7000 Genesee Street, Building D, 2nd Floor
Fayetteville, NY 13066 (315) 655-3900 • Fax (315) 655-3907

Low-Flow Groundwater Sampling Monitoring Form

Well ID	EW-13	**Site ID:**	EPT - Ithaca, New York	**Sample Date:**	12/14/22
Well Diameter	4 in	**Sampling Event:**	Quarterly Groundwater Sampling		
Depth to Water	35.62 ft				
Total Well Depth	40 ft	**Samplers**	NTU		
Screen Length	15 ft	**Weather Conditions and Notes:**	21°F, partly sunny		
Pump Intake	39.5 ft	**Flow Rate**			

Stabilized: ±10-percent for temperature, turbidity, DO, and ORP; ±0.1 unit for pH; and ± 3-percent for specific conductance

Instrument Calibration Information

Horiba U52 with flow-through cell - Calibrated to manufacturer's specifications using auto-calibration standard solution

Well Purging Information

Air temp: 21 °F | Start purge: 1235 | End purge: 1442 | Pump Type: QED Sample pro w/ MP-15 and CO_2

Time	DTW	Purge Volume (L)	pH	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/l) *	T (°C)	ORP (mV)	Appearance of Purge Water	Flow Rate (mL/min)
1327	35.62	INT	11.60	0.706	55.6	12.60	3.66	-27	cloudy	50
1332	35.72	0.25	11.76	0.697	51.2	16.40	5.53	-27	"	"
1337	35.80	0.50	11.70	0.699	53.3	15.61	5.46	-26	"	"
1342	35.91	0.75	11.64	0.702	51.4	15.05	5.42	-24	"	"
1347	35.99	1.0	11.63	0.703	47.5	14.71	5.44	-24	"	"
1352	36.08	1.25	11.61	0.703	45.6	14.13	5.82	-25	"	"
1357	36.16	1.50	11.60	0.706	46.0	13.83	5.83	-27	"	"
1402	36.22	1.75	11.61	0.709	46.5	14.00	5.84	-27	"	"
1407	36.30	2.00	11.60	0.711	46.4	14.60	5.81	-27	"	"
1412	36.39	2.25	11.56	0.723	44.3	14.50	5.94	-27	"	"
1417	36.44	2.50	11.54	0.726	44.9	14.28	6.09	-27	"	"
1422	36.50	2.75	11.58	0.732	45.2	14.02	6.06	-28	"	"
1427	36.57	3.00	11.54	0.733	45.7	13.77	6.10	-28	"	"
1432	36.63	3.25	11.58	0.734	44.6	13.64	6.14	-27	"	"
1437	36.67	3.50	11.56	0.736	45.5	13.57	6.13	-30	"	"
1442	36.71	3.75	11.58	0.738	45.5	13.31	6.13	-31	"	"

Laboratory Analysis Information

# of Bottles	Sample ID	Analytes	Preservative	Bottle Type	Lab	Sample Time	Comments
3	EW-13	VOCs	HCl	VOA	SGS	1500	—

WSP
40 La Riviere Dr., Ste. 320
Buffalo, NY 14202 (716) 853-1220 3907

Low-Flow Groundwater Sampling Monitoring Form

Well ID	MW-50-160D	Site ID:	EPT - Ithaca, New York	Sample Date:	12/14/22
Well Diameter	4 in	Sampling Event:	Quarterly Groundwater Sampling		
Depth to Water	128.97 ft				
Total Well Depth	~~160~~ ft 163.7	Samplers	DCC, ~~EMA~~ DCC, EAG		
Screen Length	~~10~~ ft N/A	Weather Conditions and Notes:	31 °F, overcast		
Pump Intake	157 ft	Flow Rate			

Stabilized: ±10-percent for temperature, turbidity, DO, and ORP; ±0.1 unit for pH; and ± 3-percent for specific conductance

Instrument Calibration Information

Horiba U52 with flow-through cell - Calibrated to manufacturer's specifications using auto-calibration standard solution

Well Purging Information

Air temp: 31 °F | Start purge: 1238 | End purge: 1420 | Pump Type: QED Sample pro w/ ~~MP-15 and CO_2~~ MP30

Time	DTW	Purge Volume (L)	pH	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/l) *	T (°C)	ORP (mV)	Appearance of Purge Water	Flow Rate (mL/min)
1345	129.20	2.0	7.11	2.32	50.9	4.66	10.36	44	clear	~40
1350	129.28	2.8	7.74	2.34	46.7	3.90	11.90	23	"	150
1355	129.48	3.6	7.83	2.34	51.0	1.98	12.20	14	"	150
1400	129.55	4.4	7.95	2.34	48.8	0.68	12.54	-1	"	150
~~1405~~	129.75	5.2	8.07	2.33	28.0	0.12	12.72	-36	"	150
1410	129.84	6.0	8.10	2.32	24.7	0.05	12.71	-48	"	150
1415	129.95	6.8	8.15	2.33	20.0	0.00	12.68	-60	"	"
1420	130.03	~~7.6~~	8.19	2.32	17.2	0.00	12.72	-73	"	"
1425	130.12	8.4	8.21	2.32	16.6	0.00	12.79	-81	"	"
1430	130.21	9.2	8.22	2.32	15.9	0.00	12.81	-86	"	"
1435	130.23	9.9	8.23	2.32	14.5	0.00	12.48	-89	"	130
1440	130.26	10.16	8.22	2.31	14.5	0.15	12.46	-89	"	130

Laboratory Analysis Information

# of Bottles	Sample ID	Analytes	Preservative	Bottle Type	Lab	Sample Time	Comments
3	MW-50-160D	VOCs	HCl	40mL VOA	SGS	1445	—

EB-121422 1545

WSP
7000 Genesee Street, Building D, 2nd Floor
Favetteville. NY 13066 (315) 655-3900 • Fax (315) 655-3907

Groundwater Sampling Monitoring Form

Well ID	EW-14	Site:	EPT - Ithaca, NY	Sample Date:	12/14/22 (baled)
Well Diameter	4 in	Sampling Event	Quarterly GW Sampling		
Depth to Water (btoc)	37.67 ft	Samplers	NTN EAG		
Total Well Depth (btoc)	40.0 ft	Weather Conditions:	21°F / partly cloudy		
Height of Water Column	2.33 ft	Notes:			
Well Volume	1.52 x 3 = gal 4.56				

Instrument Calibration Information

Horiba U52 - Calibrated to manufacturer's specifications using auto-calibration standard solution

Well Purging Information

Air temp: 21 °F	Start purge: 1510	End purge:	Pump Type: Bailer

Well Purging Information

Purge Volume (gal)	D.O. (mg/L)	T (°C)	ORP (mV)	S.C. (mS/cm)	Turb. (NTU)	pH	Notes
INT	8.69	9.63	1	0.698	189	8.49	cloudy
0.6	6.28	12.44	9	0.639	510	8.22	cloudy
0.9	4.32	12.78	11	0.631	641	8.11	cloudy
1.2	2.34	12.94	17	0.628	713	7.95	"
1.5	4.24	12.90	21	0.650	609	7.87	"
Baled dry at 1.6							

Laboratory Analysis Information

# of Bottles	Sample ID	Analytes	Preservative	Bottle Type	Lab	Sample Time	Comments

WSP
40 La Riviere Dr., Ste. 320
Buffalo, NY 14202 (716) 853-1220

Groundwater Sampling Monitoring Form

Well ID	MW - 4 - B	**Site:**	EPT - Ithaca, NY	**Sample Date:**	12/13/22
Well Diameter	4 in	**Sampling Event**	Quarterly GW Sampling		
Depth to Water (btoc)	20.20 ft	**Samplers**	DCC + EAG		
Total Well Depth (btoc)	23.0 ft	**Weather Conditions:**	Sunny, 27°F		
Height of Water Column	2.8 ft	**Notes:**			
Well Volume	1.83 x 3 gal 5.49				

Instrument Calibration Information

Horiba U52 - Calibrated to manufacturer's specifications using auto-calibration standard solution

Well Purging Information

Air temp: °F	Start purge: 1350	End purge: 13:55	Pump Type: Bailer

Well Purging Information

Purge Volume (gal)	D.O. (mg/L)	T (°C)	ORP (mV)	S.C. (mS/cm)	Turb. (NTU)	pH	Notes
INT	10.34	12.84	25	1.18	87.7	6.89	cloudy
1.0	10.29	12.95	-24	1.19	67.1	6.75	"
2.0	10.16	12.98	-66	1.20	78.16	6.71	"
3.0	5.21	13.04	-81	1.19	98.2	6.71	"
Baled dry at ~~1355~~ 3.25							

Laboratory Analysis Information

# of Bottles	Sample ID	Analytes	Preservative	Bottle Type	Lab	Sample Time	Comments

WSP
40 La Riviere Dr., Ste. 320
Buffalo, NY 14202 (716) 853-1220

Groundwater Sampling Monitoring Form

Well ID	MW-5B	**Site:**	EPT - Ithaca, NY	**Sample Date:**	12/13/22
Well Diameter	4 in	**Sampling Event**	Quarterly GW Sampling		
Depth to Water (btoc)	14.21 ft	**Samplers**	DCC + EAG		
Total Well Depth (btoc)	21.0 ft	**Weather Conditions:**	Sunny. 27°F		
Height of Water Column	6.79 ft	**Notes:**			
Well Volume	4.43 x 3 gal 13.30				

Instrument Calibration Information

Horiba U52 - Calibrated to manufacturer's specifications using auto-calibration standard solution

Well Purging Information

Air temp:	°F	Start purge: 1325	End purge: 1335	Pump Type:	Bailer

Well Purging Information

Purge Volume (gal)	D.O. (mg/L)	T (°C)	ORP (mV)	S.C. (mS/cm)	Turb. (NTU)	pH	Notes
INT	17.60	12.88	-16	1.23	2360	6.72	Cloudy
2.0	10.20	13.00	0	1.25	88.0	6.76	"
3.0	10.48	12.73	8	0.998	87.4	6.78	"
4.0	10.49	12.61	9	1.22	205	6.81	"
5.0	9.96	13.11	22	1.23	340	6.85	"
Baled dry at 5.25 gallons							

Laboratory Analysis Information

# of Bottles	Sample ID	Analytes	Preservative	Bottle Type	Lab	Sample Time	Comments

WSP
40 La Riviere Dr., Ste. 320
Buffalo, NY 14202 (716) 853-1220

Groundwater Sampling Monitoring Form

Well ID	MW-3-B	**Site:**	EPT - Ithaca, NY	**Sample Date:**	12/13/22
Well Diameter	4 in	**Sampling Event**	Quarterly GW Sampling		
Depth to Water (btoc)	25.5 ft	**Samplers**	DCC, EAG		
Total Well Depth (btoc)	14.48 ft	**Weather Conditions:**	Sunny, 27°F		
Height of Water Column	10.52 ft	**Notes:**			
Well Volume	6.87 x 3 gal 20.61				

Instrument Calibration Information

Horiba U52 - Calibrated to manufacturer's specifications using auto-calibration standard solution

Well Purging Information

Air temp:	°F	Start purge:	1310	End purge:	1320	Pump Type:	Bailer

Well Purging Information

Purge Volume (gal)	D.O. (mg/L)	T (°C)	ORP (mV)	S.C. (mS/cm)	Turb. (NTU)	pH	Notes
INT	7.25	12.32	88	0.769	102	7.01	Cloudy
2.0	6.69	12.60	91	0.764	433	6.91	"
4.0	7.69	12.67	77	0.767	950	6.87	"
6.0	6.37	12.78	56	0.766	>1000	6.83	"
8.0	7.71	12.85	27	0.772	>1000	6.31	"
Bailed dry at 8.25 gallons							

Laboratory Analysis Information

# of Bottles	Sample ID	Analytes	Preservative	Bottle Type	Lab	Sample Time	Comments

WSP
40 La Riviere Dr., Ste. 320
Buffalo, NY 14202 (716) 853-1220

Groundwater Sampling Monitoring Form

Well ID	MW-1-B	**Site:**	EPT - Ithaca, NY	**Sample Date:**	12/13/22
Well Diameter	4 in	**Sampling Event**	Quarterly GW Sampling		
Depth to Water (btoc)	12.02 ft	**Samplers**	DCC, EAG		
Total Well Depth (btoc)	19.8 ft	**Weather Conditions:**	Sunny, 27°F		
Height of Water Column	7.78 ft	**Notes:**			
Well Volume	5.08 x 3 gal 15.24				

Instrument Calibration Information

Horiba U52 - Calibrated to manufacturer's specifications using auto-calibration standard solution

Well Purging Information

Air temp:	°F	Start purge: ~~1300~~ 1255	End purge: 1305	Pump Type:	Bailer

Well Purging Information

Purge Volume (gal)	D.O. (mg/L)	T (°C)	ORP (mV)	S.C. (mS/cm)	Turb. (NTU)	pH	Notes
INT	20.22	9.65	37	0.781	257	7.29	Slightly cloudy
2.0	10.61	9.95	65	0.753	158	7.21	"
4.0	9.68	10.25	75	0.745	167	7.16	"
6.0	10.94	10.43	86	0.742	249	7.11	"
Baled dry at 6.5 gallons							

Laboratory Analysis Information

# of Bottles	Sample ID	Analytes	Preservative	Bottle Type	Lab	Sample Time	Comments

WSP
40 La Riviere Dr., Ste. 320
Buffalo, NY 14202 (716) 853-1220

Groundwater Sampling Monitoring Form

Well ID	MW-5-100	**Site:**	EPT - Ithaca, NY	**Sample Date:**	12/13/22
Well Diameter	2 in	**Sampling Event**	Quarterly GW Sampling		
Depth to Water (btoc)	94.43 ft	**Samplers**	DCC, EAG		
Total Well Depth (btoc)	99 ft	**Weather Conditions:**	Sunny, 21°F		
Height of Water Column	4.57 ft	**Notes:**			
Well Volume	0.74 x 3 gal 2.23				

Instrument Calibration Information

Horiba U52 - Calibrated to manufacturer's specifications using auto-calibration standard solution

Well Purging Information

Air temp: °F	Start purge: 1100	End purge: 1125	Pump Type: Bailer

Well Purging Information

Purge Volume (gal)	D.O. (mg/L)	T (°C)	ORP (mV)	S.C. (mS/cm)	Turb. (NTU)	pH	Notes
INT	5.99	10.30	-6	2.04	789	6.53	Cloudy
0.6	7.06	11.17	6	1.92	OR	6.50	Sediment
0.9	8.79	12.26	6	1.97	OR	6.42	"
1.2	9.22	11.56	-1	1.98	OR	6.39	"
1.5	6.70	13.06	-14	2.05	OR	6.38	"
Baled dry at 1.6							

Laboratory Analysis Information

# of Bottles	Sample ID	Analytes	Preservative	Bottle Type	Lab	Sample Time	Comments

WSP
40 La Riviere Dr., Ste. 320
Buffalo, NY 14202 (716) 853-1220

Groundwater Sampling Monitoring Form

Well ID	MW 15C	**Site:**	EPT - Ithaca, NY	**Sample Date:**	12/13/22
Well Diameter	3 in	**Sampling Event**	Quarterly GW Sampling		
Depth to Water (btoc)	41.87 ft	**Samplers**	DCC, EAG		
Total Well Depth (btoc)	45 ft	**Weather Conditions:**	Sunny, 14°F		
Height of Water Column	3.13 ft	**Notes:**			
Well Volume	1.57×3 gal 4.70				

Instrument Calibration Information

Horiba U52 - Calibrated to manufacturer's specifications using auto-calibration standard solution

Well Purging Information

Air temp: °F	Start purge: 1030	End purge: 1055	Pump Type: Bailer

Well Purging Information

Purge Volume (gal)	D.O. (mg/L)	T (°C)	ORP (mV)	S.C. (mS/cm)	Turb. (NTU)	pH	Notes
INT	6.58	9.29	-95	0.71	208	6.62	Cloudy
0.6	5.42	11.68	-102	0.1669	248	6.65	"
1.2	6.74	11.82	-101	0.1646	OR	6.75	Sediment
1.8	9.57	12.31	-118	0.1655	OR	6.85	Sediment
well baled dry at							

Laboratory Analysis Information

# of Bottles	Sample ID	Analytes	Preservative	Bottle Type	Lab	Sample Time	Comments

WSP
40 La Riviere Dr., Ste. 320
Buffalo, NY 14202 (716) 853-1220

Groundwater Sampling Monitoring Form

Well ID	MW 12C	**Site:**	EPT - Ithaca, NY	**Sample Date:**	12/13/22
Well Diameter	2 in	**Sampling Event**	Quarterly GW Sampling		
Depth to Water (btoc)	28.38 ft	**Samplers**	DCC, EAG		
Total Well Depth (btoc)	30 ft	**Weather Conditions:**	Sunny, 14°C		
Height of Water Column	1.62 ft	**Notes:**			
Well Volume	0.26 x 3 gal 0.78				

Instrument Calibration Information

Horiba U52 - Calibrated to manufacturer's specifications using auto-calibration standard solution

Well Purging Information

Air temp: °F	Start purge: 0930	End purge: 0955	Pump Type: Bailer

Well Purging Information

Purge Volume (gal)	D.O. (mg/L)	T (°C)	ORP (mV)	S.C. (mS/cm)	Turb. (NTU)	pH	Notes
INT	10.98	9.02	-69	1.83	OR	6.58	sediment
well bale	d dry at	0.26					

Laboratory Analysis Information

# of Bottles	Sample ID	Analytes	Preservative	Bottle Type	Lab	Sample Time	Comments

WSP
40 La Riviere Dr., Ste. 320
Buffalo, NY 14202 (716) 853-1220

Groundwater Sampling Monitoring Form

Well ID	MW 13C	Site:	EPT - Ithaca, NY	Sample Date:	12/13/22
Well Diameter	2 in	Sampling Event	Quarterly GW Sampling		
Depth to Water (btoc)	29.75 ft	Samplers	DCC, EAG		
Total Well Depth (btoc)	30 ft	Weather Conditions:	Sunny, 14°F		
Height of Water Column	1.25 ft	Notes:			
Well Volume	0.2 x 3 gal 0.6				

Instrument Calibration Information

Horiba U52 - Calibrated to manufacturer's specifications using auto-calibration standard solution

Well Purging Information

Air temp: °F	Start purge: 0905	End purge: 0925	Pump Type: Bailer

Well Purging Information

Purge Volume (gal)	D.O. (mg/L)	T (°C)	ORP (mV)	S.C. (mS/cm)	Turb. (NTU)	pH	Notes
INT	7.40	8.14	-95	1.12	2360	6.97	Cloudy
well bailed dry at ~~0.6~~ 0.2							

Laboratory Analysis Information

# of Bottles	Sample ID	Analytes	Preservative	Bottle Type	Lab	Sample Time	Comments

WSP
40 La Riviere Dr., Ste. 320
Buffalo, NY 14202 (716) 853-1220

Groundwater Sampling Monitoring Form

Well ID	MW-5-40	**Site:**	EPT - Ithaca, NY	**Sample Date:**	12/13/22
Well Diameter	3 in	**Sampling Event**	Quarterly GW Sampling		
Depth to Water (btoc)	30.49 ft	**Samplers**	DCC, EAG		
Total Well Depth (btoc)	40.3 ft	**Weather Conditions:**	Sunny, 14°F		
Height of Water Column	9.81 ft	**Notes:**			
Well Volume	~~6.40×3=14.2~~ gal 14.71 4.9×3				

Instrument Calibration Information

Horiba U52 - Calibrated to manufacturer's specifications using auto-calibration standard solution

Well Purging Information

Air temp:	14 °F	Start purge:	0835	End purge:	0850	Pump Type:	Bailer

Well Purging Information

Purge Volume (gal)	D.O. (mg/L)	T (°C)	ORP (mV)	S.C. (mS/cm)	Turb. (NTU)	pH	Notes
INT	9.20	10.51	128	2.29	79.3	5.51	Slightly cloudy
0.9	5.70	12.51	6	2.09	157	6.03	cloudy
1.8	8.87	12.42	-34	2.11	721	6.20	"
2.7	5.05	10.78	-48	2.13	1,000	6.33	very dark/cloudy
well bailed dry at 4.9							

Laboratory Analysis Information

# of Bottles	Sample ID	Analytes	Preservative	Bottle Type	Lab	Sample Time	Comments

WSP
40 La Riviere Dr., Ste. 320
Buffalo, NY 14202 (716) 853-1220

Groundwater Sampling Monitoring Form

Well ID	MW-46-72C	Site:	EPT - Ithaca, NY	Sample Date:	12/17/22 (buried date)
Well Diameter	2 in	Sampling Event	Quarterly GW Sampling		
Depth to Water (btoc)	71.56 ft	Samplers	DCC, EAG		
Total Well Depth (btoc)	83.60 ft	Weather Conditions:	33°F, cloudy		
Height of Water Column	12.04 ft	Notes:			
Well Volume	1.96gal x 3 gal 5.89				

Instrument Calibration Information

Horiba U52 - Calibrated to manufacturer's specifications using auto-calibration standard solution

Well Purging Information

Air temp: 32 °F	Start purge: 1505	End purge: 1540	Pump Type: Bailer

Well Purging Information

Purge Volume (gal)	D.O. (mg/L)	T (°C)	ORP (mV)	S.C. (mS/cm)	Turb. (NTU)	pH	Notes
INT	1.82	14.16	-130	2.40	12.2	10.80	@1.9 gal INT cloudy
0.6	~~4.39~~	13.44	-92	2.24	32.8	9.63	cloudy
1.2	10.30	12.68	-68	2.26	50.5	8.01	"
1.8	2.44	13.11	-71	2.19	69.7	7.81	"
2.4	10.46	13.13	-84	2.17	92.8	7.76	"
3.0	~~3~~ 5.63	13.15	-82	2.17	83.7	7.70	"
3.6	10.51	13.00	-80	2.19	258	7.61	
~~4.2~~							Bailed dry at 3.7

11.27

Laboratory Analysis Information

# of Bottles	Sample ID	Analytes	Preservative	Bottle Type	Lab	Sample Time	Comments

WSP
40 La Riviere Dr., Ste. 320
Buffalo, NY 14202 (716) 853-1220

Groundwater Sampling Monitoring Form

Well ID	MW-46-43C	**Site:**	EPT - Ithaca, NY	**Sample Date:**	12/12/22
Well Diameter	~~MW-46-43C~~ 2 in.	**Sampling Event**	Quarterly GW Sampling		
Depth to Water (btoc)	32.92 ft	**Samplers**	DCC, EAG		
Total Well Depth (btoc)	50.0 ft	**Weather Conditions:**	33° F, cloudy		
Height of Water Column	17.08 ft	**Notes:**			
Well Volume	1v = 2.78 gal = 8.34				

Instrument Calibration Information

Horiba U52 - Calibrated to manufacturer's specifications using auto-calibration standard solution

Well Purging Information

Air temp: 33 °F	Start purge:	End purge:	Pump Type: Bailer

Well Purging Information

Purge Volume (gal)	D.O. (mg/L)	T (°C)	ORP (mV)	S.C. (mS/cm)	Turb. (NTU)	pH	Notes
INT	10.36	12.29	-93	1.89	27.4	7.75	Cloudy
0.6	5.21	12.14	-89	1.75	38.2	7.70	"
1.2	10.43	12.28	-79	1.65	53.8	7.61	"
1.8	5.40	12.97	-78	1.68	106	~~7.55~~ 7.59	"
2.4	6.08	12.76	-75	1.81	94.7	7.55	"
3.0	3.71	13.01	-76	1.87	160	7.45	"
3.6	10.72	12.22	-79	1.89	81.4	7.47	"
4.2	10.62	12.28	-80	1.92	99.2	7.38	"
							Bailed dry at 4.1

Laboratory Analysis Information

# of Bottles	Sample ID	Analytes	Preservative	Bottle Type	Lab	Sample Time	Comments

WSP
7000 Genesee Street, Building D, 2nd Floor
Fayetteville, NY 13066 (315) 655-3900 • Fax (315) 655-3907

Low-Flow Groundwater Sampling Monitoring Form

Well ID	EXB-10	**Site ID:**	EPT - Ithaca, New York	**Sample Date:**	12/15/22
Well Diameter	4 in	**Sampling Event:**	Quarterly Groundwater Sampling		
Depth to Water	44.46 ft				
Total Well Depth	64.7 ft	**Samplers**	NTV		
Screen Length	N/A ft	**Weather Conditions and Notes:**	29°F, cloudy		
Pump Intake	59.0 ft	**Flow Rate**	50 ml/min		

Stabilized: ±10-percent for temperature, turbidity, DO, and ORP; ±0.1 unit for pH; and ± 3-percent for specific conductance

Instrument Calibration Information

Horiba U52 with flow-through cell - Calibrated to manufacturer's specifications using auto-calibration standard solution

Well Purging Information

Air temp: 29 °F | Start purge: 0818 | End purge: | Pump Type: QED Sample pro w/ MP-15 and CO_2

Time	DTW	Purge Volume (L)	pH	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/l) *	T (°C)	ORP (mV)	Appearance of Purge Water	Flow Rate (mL/min)
0831	44.48	INT	5.72	2.62	35.2	4.99	6.41	32	clear.	50
0836	44.49	0.25	5.99	2.65	31.3	4.45	6.46	-3	"	"
0841	44.52	0.50	6.40	2.66	39.1	2.60	7.76	-57	"	"
0846	44.53	0.75	6.68	2.68	44.2	1.18	8.59	-85	"	"
0851	44.55	1.0	6.84	2.71	44.5	0.82	8.86	-96	"	"
0856	44.56	1.25	6.92	2.69	36.1	0.71	8.78	-101	"	"
0901	44.58	1.50	6.95	2.69	32.6	0.75	8.90	-101	"	"
0906	44.61	1.75	6.98	2.69	26.5	0.87	8.62	-102	"	"
0911	44.63	2.0	7.01	2.68	24.7	0.90	8.75	-100	"	"
0916	44.63	2.25	7.06	2.69	20.8	0.80	8.73	-95	"	"
0921	44.64	2.50	7.08	2.69	20.6	0.83	8.69	-98	"	"
0926	44.66	2.75	7.10	2.68	18.6	0.80	8.49	-98	"	"
0931	44.70	3.00	7.10	2.69	17.9	0.86	8.22	-96	"	"
0936	44.76	3.25	7.09	2.70	16.6	0.80	8.24	-92	"	"
0941	44.77	3.50	7.08	2.69	15.9	0.72	8.10	-99	"	"
0946	44.80	3.75	7.07	2.69	16.3	0.81	8.16	-96	"	"

Laboratory Analysis Information

# of Bottles	Sample ID	Analytes	Preservative	Bottle Type	Lab	Sample Time	Comments
3	EXB-10	VOCs	HCl	VOA	SGS	0950	
3	MW-121522	VOCs	HCl	VOA	"	0800	

WSP
40 La Riviere Dr., Ste. 320
Buffalo, NY 14202 (716) 853-1220 3907

Low-Flow Groundwater Sampling Monitoring Form

Well ID	EXB-9	**Site ID:**	EPT - Ithaca, New York	**Sample Date:**	12522
Well Diameter	3 in	**Sampling Event:**	Quarterly Groundwater Sampling		
Depth to Water	50.04 ft				
Total Well Depth	64 ft	**Samplers**	DCC, EAG		
Screen Length	N/A ft	**Weather Conditions and Notes:**	Mostly cloudy, 29°F Sheet @ ~1055		
Pump Intake	54.75 ft	**Flow Rate**	80 mL/min		

Stabilized: ±10-percent for temperature, turbidity, DO, and ORP; ±0.1 unit for pH; and ± 3-percent for specific conductance

Instrument Calibration Information

Horiba U52 with flow-through cell - Calibrated to manufacturer's specifications using auto-calibration standard solution

Well Purging Information

Air temp: 29 °F | Start purge: 1030 | End purge: | Pump Type: QED Sample pro w/ ~~MP15 and CO_2~~ MP52

Time	DTW	Purge Volume (L)	pH	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/l) *	T (°C)	ORP (mV)	Appearance of Purge Water	Flow Rate (mL/min)
1050	50.84	1.0	7.16	1.65	3.0	1.56	8.33	-83	clear	125
1055	51.06	1.6	7.04	1.71	1.2	0.62	8.13	-90	clear	50
1100	51.33	1.9	7.01	1.71	0.0	0.36	7.86	-93	clear	"
1105	51.48	2.2	7.00	1.71	0.0	0.38	7.44	-94	"	"
1110	51.60	2.5	~~7.00~~ 7.00	1.70	0.0	0.37	7.27	-95	"	"
1115	51.78	2.8	7.00	1.71	0.0	0.35	7.16	-95	"	"
1120	51.93	3.1	7.00	1.68	0.0	0.29	7.20	-96	"	"

Laboratory Analysis Information

# of Bottles	Sample ID	Analytes	Preservative	Bottle Type	Lab	Sample Time	Comments
3	EXB-9	VOCs	HCl	40 mL VOA	SGS	1125	

WSP
40 La Riviere Dr., Ste. 320
Buffalo, NY 14202 (716) 853-1220 3907

Low-Flow Groundwater Sampling Monitoring Form

Well ID	EXB-7	**Site ID:**	EPT - Ithaca, New York	**Sample Date:**	12/15/22
Well Diameter	4 in	**Sampling Event:**	Quarterly Groundwater Sampling		
Depth to Water	~~8.46~~ ft 8.01				
Total Well Depth	24.6 ft	**Samplers**	DCC, EAG		
Screen Length	ft	**Weather Conditions and Notes:**	overcast, 28°F		
Pump Intake	17.5 ft	**Flow Rate**	50		

Stabilized: ±10-percent for temperature, turbidity, DO, and ORP; ±0.1 unit for pH; and ± 3-percent for specific conductance

Instrument Calibration Information

Horiba U52 with flow-through cell - Calibrated to manufacturer's specifications using auto-calibration standard solution

Well Purging Information

Air temp: 20 °F | Start purge: 0825 | End purge: 0920 | Pump Type: QED Sample pro w/ ~~MP-15 and CO_2~~ MP-50

Time	DTW	Purge Volume (L)	pH	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/l) *	T (°C)	ORP (mV)	Appearance of Purge Water	Flow Rate (mL/min)
0825	8.47	1.0	6.10	1.87	0.0	8.22	10.66	-72	Clear	175
0830	8.82	2.0	6.84	1.72	0.0	2.80	10.71	-22	clear	175
0835	9.03	~~3.025~~	7.06	1.66	0.0	3.20	10.37	-35	clear	100
0840	9.14	2.9	7.19	1.61	0.0	3.40	9.96	-42	"	~~100~~ 75
0845	9.30	3.3	7.30	1.57	0.0	3.84	9.51	-43	"	75
0850	9.42	3.6	7.39	1.56	0.0	3.93	8.94	-37	"	50
0855	9.49	3.9	~~7.42~~ 7.42	1.52	0.0	4.25	8.60	-34	"	50
0900	9.57	4.2	7.45	1.53	0.0	4.19	8.28	-30	"	50
0905	9.60	4.5	7.47	1.51	0.0	4.18	7.91	-24	"	50
0910	9.63	4.8	7.49	1.52	0.0	4.23	7.49	-18	"	50
0915	9.64	5.1	7.50	1.50	0.0	3.08	7.07	-12	"	50
0920	9.67	5.4	7.50	1.53	0.0	4.34	6.75	-9	"	50

Laboratory Analysis Information

# of Bottles	Sample ID	Analytes	Preservative	Bottle Type	Lab	Sample Time	Comments
3	EXB-7	VOCs	HCl	40mL VOA	SGS	0925	
3	EXB-7-MS	VOCs	HCl	" "	"		
3	EXB-7-MSD	VOCs	HCl	" "	"		

EB-121522
1005

APPENDIX

L DPE SYSTEM O&M FORMS

Operational Checklist

Former EPT
Ithaca, NY

Date: 10/7/2022 **Inspector:** Greg Ernst

Arrival Time: 0800 **Weather Conditions:** 50's, Cloudy

Departure Time:

Reason for Visit (check all that apply):

Bi-Weekly O&M _____ Collect influent/effluent samples **no**

Monthly O&M **x** Assist with carbon changeout **no**

Other _____

System Alarms Active Upon Arrival **None**

TREATMENT SYSTEM CHECKLIST

Soil Vapor Extraction Skid

Motor Run Time (hrs.):	**39,567.3**	screen
Motor Run Time (hrs.):	**73,678.5**	gauge

Nomenclature	*Description*	*Reading*	*Units*
VI201	Vapor Liquid Separator Inlet Vacuum	**-8.5**	"Hg
VLSSG	Vapor Liquid Separator Site Glass	**0**	gal.
VI202	Particulate Filter Inlet Vacuum	**-2**	"Hg
VI203	Particulate Filter Outlet Vacuum	**-8.0**	"Hg
FI201	Soil Vapor Extraction Flow (Manual)	**26***	scfm
TI201	Soil Vapor Extraction Discharge Temperature	**155**	°F
PI201	Soil Vapor Extraction Discharge Pressure	**13**	"W.C.
FT202	Vapor Liquid Separator Water Transfer Pump Totalizer	**158,159**	gal.

***Reading taken from newly installed Anemometer Port**

Operational Checklist

Former EPT
Ithaca, NY

Maintenance Items:

Oil Level:	**OK**
Oil Change (yes/no every 6000hrs.):	**NO**
Grease Lubrication Added (yes/no):	**NO**
Transfer Water Out of Vapor Liquid Separator (yes/no)	**NO**
Particulate Filter Changeout (yes/no)	**NO**

Oil change Needed Every 6,000 hrs. Last changed 11/5/2021 at 37,768.3 hrs.

Replacement Blower Filter is a Solberg 235 P

Replacement Bleed Filter is a Solberg 31 P

Additional Maintenance Needed:

None

Description of Maintenance Actives Completed:

None

Vapor Phase Carbon

Nomenclature	*Description*	*Reading*	*Units*
PI203	Pressure After Carbon Vessel T201	**7.5**	"W.C.
PI204	Pressure After Carbon Vessel T202	**0**	"W.C.
TI202	Inlet Temperature of 1st Carbon Unit	**120**	°F
TI203	Temperature Between the Carbon Units	**112**	°F

Description of Maintenance Actives Completed:

None

Equalization Tank

Nomenclature	*Description*	*Reading*	*Units*
EQSG	Equalization Tank Site Glass	**400**	gal
PI701	Equalization Tank Vacuum	**0**	" W.C.

Description of Maintenance Actives Completed:

Cleaned sight tube.

Operational Checklist

Former EPT
Ithaca, NY

Bag Filter Skid

EQ Pump Run Time (hrs.):	**4,016.5**	screen
EQ Pump Run Time (hrs.):	**10,734.4**	gauge

Nomenclature	*Description*	*Reading*	*Units*
PI211	Transfer Pump Discharge Water Pressure	**33**	psi
PI221	Bag Filter Influent Water Pressure	**0**	psi
PI222	Water Pressure Between PF-221 and PF-222	**0**	pis
PI223	Water Pressure Between PF-222 and PF-223	**0**	psi
PI224	Water Pressure Between PF-224 and PF-225	**0**	psi
PI225	Water Pressure Between PF-225 and PF-226	**0**	psi
PI226	Bag Filtration Exit Water Pressure	**0**	psi
FT221	Bag Filtration Water Totalizer	**394,525.8**	gal
FT221	Bag Filtration Water Flow	**0**	gpm

Maintenance Items:

Changed Bag Filter(s) (yes/no)	**Yes**	If yes, which filters?	**All**
Cleaned Bag Filter(s) (yes/no)	**No**	If yes, which filters?	

Additional Maintenance Needed:

Plumbing into pump still needs replacement.

Description of Maintenance Actives Completed:

Cleaned flow meter.

Operational Checklist

Former EPT
Ithaca, NY

Air-Stripper Skid

AS Blower Run Time (hrs.)	**39,410.9**	screen	
AS Blower Run Time (hrs.)	**97,572.0**	gauge	
AS Transfer Pump Run Time (hrs.)	**1,907.3**	screen	check again next visit
AS Transfer Pump Run Time (hrs.)	**5,164.3**	gauge	

Nomenclature	*Description*	*Reading*	*Units*
PI601	Differential Pressure Before the Butterfly Valve	**2**	"W.C.
PI602	Pressure After the Butterfly Valve	**0.6**	"W.C.
PI603	Back Pressure After Transfer Pump	**5**	psi
PI604	Sump Pressure	**28**	"W.C.
FT601	Flow Totalizer	**1,632,897.3**	gal
FT601	Flow Transmitter	**7.9**	gpm

Maintenance Items:

Cleaned Stripper Trays (yes/no)	**No**	

Additional Maintenance Needed:

None

Description of Maintenance Actives Completed:

None

Liquid Phase Carbon

Nomenclature	*Description*	*Reading*	*Units*
PI611	Pressure Before Carbon Vessel T611	**27**	psi
PI612	Pressure After Carbon Vessel T611	**16**	psi
Effluent Flow	Totalizer	**1,358,049**	gal
Effluent Flow	Flow	**14**	gpm

Operational Checklist

Former EPT
Ithaca, NY

Additional Maintenance Needed:

None

Description of Maintenance Actives Completed:

None

Air Compressor

Motor Run Time (hrs.)	***3,986.5***	screen
Motor Run Time (hrs.)	***11,751.6***	gauge

Nomenclature	*Description*	*Reading*	*Units*
PCV101	Pressure Regulator Valve	**120**	psi
PI-101	Conveyance Line Pressure	**115**	psi
TI-101	Compressed Air Temperature	**68**	°F

Maintenance Items:

Oil Level:	**OK**	**Oil Change needed every 2000 hrs. OR every 12 Months (Which ever comes first).** Last changed 1/13/2022 at 11,231.2 hrs with new compressor pump. Next oil change Interval 13,231.2 hrs. or by 1/13/2023.
Oil Change (yes/no)	**NO**	
Belt Condition:	**OK**	
Coalescing Filter Condition:	**OK**	

Additional Maintenance Needed:

None

Description of Maintenance Actives Completed:

None

Operational Checklist

Former EPT
Ithaca, NY

Miscellaneous Tasks

Maintenance Items:

Snow Removal (yes/no)	**No**
Grass/Weed Removal (yes/no)	**Yes**
Is Shed Clean and Organized on Arrival (yes/no)	**Yes**
Is Shed Clean and Organized on Departure (yes/no)	**Yes**
Other (please specify in detail):	**Building alarm not armed upon arrival.**

WELL VAULT CHECKLIST

Checked Heat Trace Breakers (yes/no):	**Yes - turned on**	
NYSEG Meter Reading (kwh)	**192,849**	

EW-1

Checked Sample Port (yes/no):	**Yes**
Checked Compressed Air Line Drain (yes/no):	**Yes**

Vapor Line	***Reading***	***Units***
Vacuum Gauge	**-8**	inHg

Water Line	***Reading***	***Units***
Pressure Gauge	**4**	psi
Cycle Count	**137,232**	# of cycles

Air Line	***Reading***	***Units***
Pressure Gauge	**115**	psi
Regulator Gauge	**80**	psi

Description of Maintained Activities Completed:

Operational Checklist

Former EPT
Ithaca, NY

EW-2

Checked Sample Port (yes/no):	**Yes**
Checked Compressed Air Line Drain (yes/no):	**Yes**

Vapor Line	***Reading***	***Units***
Vacuum Gauge	**-8.0**	inHg

Water Line	***Reading***	***Units***
Pressure Gauge	**3.0**	psi
Cycle Count	**967,035**	# of cycles

Air Line	***Reading***	***Units***
Pressure Gauge	**120**	psi
Regulator Gauge	**80**	psi

Description of Maintained Activities Completed:

EW-3

Checked Sample Port (yes/no):	**Yes**
Checked Compressed Air Line Drain (yes/no):	**Yes**

Vapor Line	***Reading***	***Units***
Vacuum Gauge	**-8.0**	inHg

Water Line	***Reading***	***Units***
Pressure Gauge	**1**	psi
Cycle Count	**33,951**	# of cycles

Air Line	***Reading***	***Units***
Pressure Gauge	**120**	psi
Regulator Gauge	**80**	psi

Description of Maintained Activities Completed:

Operational Checklist

Former EPT
Ithaca, NY

EW-4

Checked Sample Port (yes/no):	**Yes**
Checked Compressed Air Line Drain (yes/no):	**Yes**

Vapor Line	*Reading*	*Units*
Vacuum Gauge	**-7.0**	inHg

Water Line	*Reading*	*Units*
Pressure Gauge	**3**	psi
Cycle Count	**76,275**	# of cycles 3

Air Line	*Reading*	*Units*
Pressure Gauge	**120**	psi
Regulator Gauge	**80**	psi

Description of Maintained Activities Completed:

EW-5

Checked Sample Port (yes/no):	**Yes**
Checked Compressed Air Line Drain (yes/no):	**Yes**

Vapor Line	*Reading*	*Units*
Vacuum Gauge	**-9**	inHg

Water Line	*Reading*	*Units*
Pressure Gauge	**2**	psi
Cycle Count	**360,629**	# of cycles

Air Line	*Reading*	*Units*
Pressure Gauge	**115**	psi
Regulator Gauge	**80**	psi

Description of Maintained Activities Completed:

Operational Checklist

Former EPT
Ithaca, NY

EW-6

Checked Sample Port (yes/no):	**Yes**
Checked Compressed Air Line Drain (yes/no):	**Yes**

Vapor Line	*Reading*	*Units*
Vacuum Gauge	**-8.5**	inHg

Water Line	*Reading*	*Units*
Pressure Gauge	**4.0**	psi
Cycle Count	**967,038**	# of cycles

Air Line	*Reading*	*Units*
Pressure Gauge	**115**	psi
Regulator Gauge	**80**	psi

Description of Maintained Activities Completed:

EW-7

Checked Sample Port (yes/no):	**Yes**
Checked Compressed Air Line Drain (yes/no):	**Yes**

Vapor Line	*Reading*	*Units*
Vacuum Gauge	**-8**	inHg

Water Line	*Reading*	*Units*
Pressure Gauge	**3.0**	psi
Cycle Count	**233,801**	# of cycles

Air Line	*Reading*	*Units*
Pressure Gauge	**125**	psi
Regulator Gauge	**80**	psi

Description of Maintained Activities Completed:

Operational Checklist

Former EPT
Ithaca, NY

EW-8

Checked Sample Port (yes/no):	**Yes**
Checked Compressed Air Line Drain (yes/no):	**Yes**

Vapor Line	***Reading***	***Units***
Vacuum Gauge	**-8.5**	inHg

Water Line	***Reading***	***Units***
Pressure Gauge	**6**	psi
Cycle Count	**301,196**	# of cycles

Air Line	***Reading***	***Units***
Pressure Gauge	**120**	psi
Regulator Gauge	**80**	psi

Description of Maintained Activities Completed:

EW-10

Checked Sample Port (yes/no):	**Yes**
Checked Compressed Air Line Drain (yes/no):	**Yes**

Vapor Line	***Reading***	***Units***
Vacuum Gauge	**-9.0**	inHg

Water Line	***Reading***	***Units***
Pressure Gauge	**2**	psi
Cycle Count	**169,991**	# of cycles

Air Line	***Reading***	***Units***
Pressure Gauge	**110**	psi
Regulator Gauge	**80**	psi

Description of Maintained Activities Completed:

Operational Checklist

Former EPT
Ithaca, NY

EW-9R (uphill)

Checked Sample Port (yes/no):	**Yes**
Checked Compressed Air Line Drain (yes/no):	**Yes**

Vapor Line	*Reading*	*Units*
Vacuum Gauge	**-11**	inHg

Water Line	*Reading*	*Units*
Pressure Gauge	**6.0**	psi
Cycle Count	**555,738**	# of cycles

Air Line	*Reading*	*Units*
Pressure Gauge	**-**	psi
Regulator Gauge	**80**	psi

Description of Maintained Activities Completed:

EW-11

Checked Sample Port (yes/no):	**Yes**
Checked Compressed Air Line Drain (yes/no):	**Yes**

Vapor Line	*Reading*	*Units*
Vacuum Gauge	**-20.0**	inHg

Water Line	*Reading*	*Units*
Cycle Count	**87,949**	# of cycles

Air Line	*Reading*	*Units*
Regulator Gauge	**80**	psi

Description of Maintained Activities Completed:

EW-12

Checked Sample Port (yes/no):	**Yes**
Checked Compressed Air Line Drain (yes/no):	**Yes**

Vapor Line	*Reading*	*Units*
Vacuum Gauge	**0**	inHg

Water Line	*Reading*	*Units*
Pressure Gauge	**0.0**	psi
Cycle Count	**1,984**	# of cycles

Air Line	*Reading*	*Units*
Regulator Gauge	**80**	psi

Description of Maintained Activities Completed:

Operational Checklist

Former EPT
Ithaca, NY

Date: 11/14/2022 **Inspector:** Greg Ernst

Arrival Time: 0700 **Weather Conditions:** 30's, Cloudy

Departure Time:

Reason for Visit (check all that apply):

Bi-Weekly O&M _____ Collect influent/effluent samples **no**

Monthly O&M **x** Assist with carbon changeout **no**

Other _____

System Alarms Active Upon Arrival **None**

TREATMENT SYSTEM CHECKLIST

Soil Vapor Extraction Skid

Motor Run Time (hrs.):	**40,470.4**	screen
Motor Run Time (hrs.):	**73,678.6**	gauge

Nomenclature	*Description*	*Reading*	*Units*
VI201	Vapor Liquid Separator Inlet Vacuum	**-9.0**	"Hg
VLSSG	Vapor Liquid Separator Site Glass	**0**	gal.
VI202	Particulate Filter Inlet Vacuum	**-4**	"Hg
VI203	Particulate Filter Outlet Vacuum	**-8.0**	"Hg
FI201	Soil Vapor Extraction Flow (Manual)	**26***	scfm
TI201	Soil Vapor Extraction Discharge Temperature	**150**	°F
PI201	Soil Vapor Extraction Discharge Pressure	**13**	"W.C.
FT202	Vapor Liquid Separator Water Transfer Pump Totalizer	**158,159**	gal.

***Reading taken from newly installed Anemometer Port**

Operational Checklist

Former EPT
Ithaca, NY

Maintenance Items:

Oil Level:	**OK**
Oil Change (yes/no every 6000hrs.):	**Yes**
Grease Lubrication Added (yes/no):	**NO**
Transfer Water Out of Vapor Liquid Separator (yes/no)	**NO**
Particulate Filter Changeout (yes/no)	**NO**

Oil change Needed Every 6,000 hrs. Last changed 11/14/22 40,470.4 hrs. Next oil change due **46,470 hours.**

Replacement Blower Filter is a Solberg 235 P

Replacement Bleed Filter is a Solberg 31 P

Additional Maintenance Needed:

None

Description of Maintenance Actives Completed:

None

Vapor Phase Carbon

Nomenclature	*Description*	*Reading*	*Units*
PI203	Pressure After Carbon Vessel T201	**6.0**	"W.C.
PI204	Pressure After Carbon Vessel T202	**0**	"W.C.
TI202	Inlet Temperature of 1st Carbon Unit	**125**	°F
TI203	Temperature Between the Carbon Units	**110**	°F

Description of Maintenance Actives Completed:

None

Equalization Tank

Nomenclature	*Description*	*Reading*	*Units*
EQSG	Equalization Tank Site Glass	**450**	gal
PI701	Equalization Tank Vacuum	**0**	" W.C.

Description of Maintenance Actives Completed:

Cleaned sight tube.

Operational Checklist

Former EPT
Ithaca, NY

Bag Filter Skid

EQ Pump Run Time (hrs.):	**4,070.6**	screen
EQ Pump Run Time (hrs.):	**10,788.5**	gauge

Nomenclature	*Description*	*Reading*	*Units*
PI211	Transfer Pump Discharge Water Pressure	**33**	psi
PI221	Bag Filter Influent Water Pressure	**0**	psi
PI222	Water Pressure Between PF-221 and PF-222	**0**	pis
PI223	Water Pressure Between PF-222 and PF-223	**0**	psi
PI224	Water Pressure Between PF-224 and PF-225	**0**	psi
PI225	Water Pressure Between PF-225 and PF-226	**0**	psi
PI226	Bag Filtration Exit Water Pressure	**0**	psi
FT221	Bag Filtration Water Totalizer	**394,526.6**	gal
FT221	Bag Filtration Water Flow	**0**	gpm

Maintenance Items:

Changed Bag Filter(s) (yes/no)	**No**	If yes, which filters?
Cleaned Bag Filter(s) (yes/no)	**No**	If yes, which filters?

Additional Maintenance Needed:

Description of Maintenance Actives Completed:

Operational Checklist

Former EPT
Ithaca, NY

Air-Stripper Skid

AS Blower Run Time (hrs.)	**40,314.1**	screen	
AS Blower Run Time (hrs.)	**98,461.5**	gauge	
AS Transfer Pump Run Time (hrs.)	**1,927.1**	screen	check again next visit
AS Transfer Pump Run Time (hrs.)	**5,183.2**	gauge	

Nomenclature	*Description*	*Reading*	*Units*
PI601	Differential Pressure Before the Butterfly Valve	**2**	"W.C.
PI602	Pressure After the Butterfly Valve	**0.65**	"W.C.
PI603	Back Pressure After Transfer Pump	**5**	psi
PI604	Sump Pressure	**28**	"W.C.
FT601	Flow Totalizer	**1,642,426.7**	gal
FT601	Flow Transmitter	**9.0**	gpm

Maintenance Items:

Cleaned Stripper Trays (yes/no)	**No**	

Additional Maintenance Needed:

None

Description of Maintenance Actives Completed:

None

Liquid Phase Carbon

Nomenclature	*Description*	*Reading*	*Units*
PI611	Pressure Before Carbon Vessel T611	**28**	psi
PI612	Pressure After Carbon Vessel T611	**17**	psi
Effluent Flow	Totalizer	**1,375,504**	gal
Effluent Flow	Flow	**15**	gpm

Operational Checklist

Former EPT
Ithaca, NY

Additional Maintenance Needed:

None

Description of Maintenance Actives Completed:

None

Air Compressor

Motor Run Time (hrs.)	***4,037.9***	screen
Motor Run Time (hrs.)	***11,802.6***	gauge

Nomenclature	*Description*	*Reading*	*Units*
PCV101	Pressure Regulator Valve	**130**	psi
PI-101	Conveyance Line Pressure	**120**	psi
TI-101	Compressed Air Temperature	**62**	°F

Maintenance Items:

Oil Level:	**OK**	**Oil Change needed every 2000 hrs. OR every 12 Months (Which ever comes first).** Last changed 1/13/2022 at 11,231.2 hrs with new compressor pump. Next oil change Interval 13,231.2 hrs. or by 1/13/2023.
Oil Change (yes/no)	**NO**	
Belt Condition:	**OK**	
Coalescing Filter Condition:	**OK**	

Additional Maintenance Needed:

None

Description of Maintenance Actives Completed:

Changed fill plug and o-ring.

Operational Checklist

Former EPT
Ithaca, NY

Miscellaneous Tasks

Maintenance Items:

Snow Removal (yes/no)	**No**
Grass/Weed Removal (yes/no)	**No**
Is Shed Clean and Organized on Arrival (yes/no)	**Yes**
Is Shed Clean and Organized on Departure (yes/no)	**Yes**
Other (please specify in detail):	

WELL VAULT CHECKLIST

Checked Heat Trace Breakers (yes/no):	**Yes**	
NYSEG Meter Reading (kwh)	**208,585**	

EW-1

Checked Sample Port (yes/no):	**Yes**
Checked Compressed Air Line Drain (yes/no):	**Yes**

Vapor Line	***Reading***	***Units***
Vacuum Gauge	**-7.5**	inHg

Water Line	***Reading***	***Units***
Pressure Gauge	**0**	psi
Cycle Count	**184,737**	# of cycles

Air Line	***Reading***	***Units***
Pressure Gauge	**125**	psi
Regulator Gauge	**80**	psi

Description of Maintained Activities Completed:

Operational Checklist

Former EPT
Ithaca, NY

EW-2

Checked Sample Port (yes/no):	**Yes**
Checked Compressed Air Line Drain (yes/no):	**Yes**

Vapor Line	***Reading***	***Units***
Vacuum Gauge	**-8.5**	inHg

Water Line	***Reading***	***Units***
Pressure Gauge	**6.0**	psi
Cycle Count	**976,152**	# of cycles

Air Line	***Reading***	***Units***
Pressure Gauge	**120**	psi
Regulator Gauge	**75**	psi

Description of Maintained Activities Completed:

EW-3

Checked Sample Port (yes/no):	**Yes**
Checked Compressed Air Line Drain (yes/no):	**Yes**

Vapor Line	***Reading***	***Units***
Vacuum Gauge	**-8.5**	inHg

Water Line	***Reading***	***Units***
Pressure Gauge	**6**	psi
Cycle Count	**35,528**	# of cycles

Air Line	***Reading***	***Units***
Pressure Gauge	**115**	psi
Regulator Gauge	**80**	psi

Description of Maintained Activities Completed:

Operational Checklist

Former EPT
Ithaca, NY

EW-4

Checked Sample Port (yes/no):	**Yes**
Checked Compressed Air Line Drain (yes/no):	**Yes**

Vapor Line	*Reading*	*Units*
Vacuum Gauge	**-6.0**	inHg

Water Line	*Reading*	*Units*
Pressure Gauge	**2**	psi
Cycle Count	**79,083**	# of cycles 3

Air Line	*Reading*	*Units*
Pressure Gauge	**115**	psi
Regulator Gauge	**80**	psi

Description of Maintained Activities Completed:

Vaccuum leak at well head. Reset fernco at wellhead and reconnected air line to pump, which had separated.

EW-5

Checked Sample Port (yes/no):	**Yes**
Checked Compressed Air Line Drain (yes/no):	**Yes**

Vapor Line	*Reading*	*Units*
Vacuum Gauge	**-8.5**	inHg

Water Line	*Reading*	*Units*
Pressure Gauge	**2**	psi
Cycle Count	**376,637**	# of cycles

Air Line	*Reading*	*Units*
Pressure Gauge	**122**	psi
Regulator Gauge	**75**	psi

Description of Maintained Activities Completed:

Operational Checklist

Former EPT
Ithaca, NY

EW-6

Checked Sample Port (yes/no):	**Yes**
Checked Compressed Air Line Drain (yes/no):	**Yes**

Vapor Line	***Reading***	***Units***
Vacuum Gauge	**-8.5**	inHg

Water Line	***Reading***	***Units***
Pressure Gauge	**0.0**	psi
Cycle Count	**967,038**	# of cycles

Air Line	***Reading***	***Units***
Pressure Gauge	**120**	psi
Regulator Gauge	**75**	psi

Description of Maintained Activities Completed:

EW-7

Checked Sample Port (yes/no):	**Yes**
Checked Compressed Air Line Drain (yes/no):	**Yes**

Vapor Line	***Reading***	***Units***
Vacuum Gauge	**-8.5**	inHg

Water Line	***Reading***	***Units***
Pressure Gauge	**7.0**	psi
Cycle Count	**247,785**	# of cycles

Air Line	***Reading***	***Units***
Pressure Gauge	**120**	psi
Regulator Gauge	**80**	psi

Description of Maintained Activities Completed:

Operational Checklist

Former EPT
Ithaca, NY

EW-8

Checked Sample Port (yes/no):	**Yes**
Checked Compressed Air Line Drain (yes/no):	**Yes**

Vapor Line	***Reading***	***Units***
Vacuum Gauge	**-8.5**	inHg

Water Line	***Reading***	***Units***
Pressure Gauge	**6**	psi
Cycle Count	**319,549**	# of cycles

Air Line	***Reading***	***Units***
Pressure Gauge	**115**	psi
Regulator Gauge	**80**	psi

Description of Maintained Activities Completed:

EW-10

Checked Sample Port (yes/no):	**Yes**
Checked Compressed Air Line Drain (yes/no):	**Yes**

Vapor Line	***Reading***	***Units***
Vacuum Gauge	**-8.5**	inHg

Water Line	***Reading***	***Units***
Pressure Gauge	**7**	psi
Cycle Count	**175,142**	# of cycles

Air Line	***Reading***	***Units***
Pressure Gauge	**110**	psi
Regulator Gauge	**80**	psi

Description of Maintained Activities Completed:

Operational Checklist

Former EPT
Ithaca, NY

EW-9R (uphill)

Checked Sample Port (yes/no):	**Yes**
Checked Compressed Air Line Drain (yes/no):	**Yes**

Vapor Line	*Reading*	*Units*
Vacuum Gauge	**-12**	inHg

Water Line	*Reading*	*Units*
Pressure Gauge	**3.0**	psi
Cycle Count	**555,738**	# of cycles

Air Line	*Reading*	*Units*
Pressure Gauge	**80**	psi
Regulator Gauge	**120**	psi

Description of Maintained Activities Completed:

EW-11

Checked Sample Port (yes/no):	**Yes**
Checked Compressed Air Line Drain (yes/no):	**Yes**

Vapor Line	*Reading*	*Units*
Vacuum Gauge	**-20.0**	inHg

Water Line	*Reading*	*Units*
Cycle Count	**92,216**	# of cycles

Air Line	*Reading*	*Units*
Regulator Gauge	**70**	psi

Description of Maintained Activities Completed:

Need new heat tape. Lid spring is broken.

EW-12

Checked Sample Port (yes/no):	**Yes**
Checked Compressed Air Line Drain (yes/no):	**Yes**

Vapor Line	*Reading*	*Units*
Vacuum Gauge	**0**	inHg

Water Line	*Reading*	*Units*
Pressure Gauge	**0.0**	psi
Cycle Count	**2,024**	# of cycles

Air Line	*Reading*	*Units*
Regulator Gauge	**75**	psi

Description of Maintained Activities Completed:

Operational Checklist

Former EPT
Ithaca, NY

Date: 12/7/2022 **Inspector:** Greg Ernst

Arrival Time: 0800 **Weather Conditions:** 40's Cloudy with showers

Departure Time:

Reason for Visit (check all that apply):

Bi-Weekly O&M _____ Collect influent/effluent samples **no**

Monthly O&M **x** Assist with carbon changeout **no**

Other _____

System Alarms Active Upon Arrival **None**

TREATMENT SYSTEM CHECKLIST

Soil Vapor Extraction Skid

Motor Run Time (hrs.):	**41,029.8**	screen
Motor Run Time (hrs.):	**73,678.6**	gauge

Nomenclature	*Description*	*Reading*	*Units*
VI201	Vapor Liquid Separator Inlet Vacuum	**-9.0**	"Hg
VLSSG	Vapor Liquid Separator Site Glass	**0**	gal.
VI202	Particulate Filter Inlet Vacuum	**-2**	"Hg
VI203	Particulate Filter Outlet Vacuum	**-8.0**	"Hg
FI201	Soil Vapor Extraction Flow (Manual)	**26***	scfm
TI201	Soil Vapor Extraction Discharge Temperature	**155**	°F
PI201	Soil Vapor Extraction Discharge Pressure	**12**	"W.C.
FT202	Vapor Liquid Separator Water Transfer Pump Totalizer	**158,159**	gal.

***Reading taken from newly installed Anemometer Port**

Operational Checklist

Former EPT
Ithaca, NY

Maintenance Items:

Oil Level:	**OK**
Oil Change (yes/no every 6000hrs.):	**NO**
Grease Lubrication Added (yes/no):	**NO**
Transfer Water Out of Vapor Liquid Separator (yes/no)	**NO**
Particulate Filter Changeout (yes/no)	**NO**

Oil change Needed Every 6,000 hrs. Last changed 11/14/22 40,470.4 hrs. Next oil change due **46,470 hours.**

Replacement Blower Filter is a Solberg 235 P

Replacement Bleed Filter is a Solberg 31 P

Additional Maintenance Needed:

None

Description of Maintenance Actives Completed:

None

Vapor Phase Carbon

Nomenclature	*Description*	*Reading*	*Units*
PI203	Pressure After Carbon Vessel T201	**5.0**	"W.C.
PI204	Pressure After Carbon Vessel T202	**0**	"W.C.
TI202	Inlet Temperature of 1st Carbon Unit	**120**	°F
TI203	Temperature Between the Carbon Units	**110**	°F

Description of Maintenance Actives Completed:

None

Equalization Tank

Nomenclature	*Description*	*Reading*	*Units*
EQSG	Equalization Tank Site Glass	**525**	gal
PI701	Equalization Tank Vacuum	**0**	" W.C.

Description of Maintenance Actives Completed:

None

Operational Checklist

Former EPT
Ithaca, NY

Bag Filter Skid

EQ Pump Run Time (hrs.):	**4,105.5**	screen
EQ Pump Run Time (hrs.):	**10,823.3**	gauge

Nomenclature	*Description*	*Reading*	*Units*
PI211	Transfer Pump Discharge Water Pressure	**32**	psi
PI221	Bag Filter Influent Water Pressure	**0**	psi
PI222	Water Pressure Between PF-221 and PF-222	**0**	pis
PI223	Water Pressure Between PF-222 and PF-223	**0**	psi
PI224	Water Pressure Between PF-224 and PF-225	**0**	psi
PI225	Water Pressure Between PF-225 and PF-226	**0**	psi
PI226	Bag Filtration Exit Water Pressure	**0**	psi
FT221	Bag Filtration Water Totalizer	**400,906.7**	gal
FT221	Bag Filtration Water Flow	**4**	gpm

Maintenance Items:

Changed Bag Filter(s) (yes/no)	**No**	If yes, which filters?
Cleaned Bag Filter(s) (yes/no)	**No**	If yes, which filters?

Additional Maintenance Needed:

Description of Maintenance Actives Completed:

Changed piping from tank into transfer pump to correct leaks.

Operational Checklist

Former EPT
Ithaca, NY

Air-Stripper Skid

AS Blower Run Time (hrs.)	**40,874.2**	screen	
AS Blower Run Time (hrs.)	**99,012.8**	gauge	
AS Transfer Pump Run Time (hrs.)	**1,943.5**	screen	check again next visit
AS Transfer Pump Run Time (hrs.)	**5,199.0**	gauge	

Nomenclature	*Description*	*Reading*	*Units*
PI601	Differential Pressure Before the Butterfly Valve	**4**	"W.C.
PI602	Pressure After the Butterfly Valve	**0.7**	"W.C.
PI603	Back Pressure After Transfer Pump	**5**	psi
PI604	Sump Pressure	**27**	"W.C.
FT601	Flow Totalizer	**1,650,187.9**	gal
FT601	Flow Transmitter	**7.2**	gpm

Maintenance Items:

Cleaned Stripper Trays (yes/no)	**No**	

Additional Maintenance Needed:

Gasket replacement on LGAC cam locks.

Description of Maintenance Actives Completed:

None

Liquid Phase Carbon

Nomenclature	*Description*	*Reading*	*Units*
PI611	Pressure Before Carbon Vessel T611	**28**	psi
PI612	Pressure After Carbon Vessel T611	**15**	psi
Effluent Flow	Totalizer	**1,389,660**	gal
Effluent Flow	Flow	**14**	gpm

Operational Checklist

Former EPT
Ithaca, NY

Additional Maintenance Needed:

Replacement gaskets on LGAC cam lock fittings.

Description of Maintenance Actives Completed:

None.

Air Compressor

Motor Run Time (hrs.)	***4,078.2***	screen
Motor Run Time (hrs.)	***11,842.0***	gauge

Nomenclature	*Description*	*Reading*	*Units*
PCV101	Pressure Regulator Valve	**125**	psi
PI-101	Conveyance Line Pressure	**125**	psi
TI-101	Compressed Air Temperature	**64**	°F

Maintenance Items:

Oil Level:	**OK**	**Oil Change needed every 2000 hrs. OR every 12 Months (Which ever comes first).** Last changed 1/13/2022 at 11,231.2 hrs with new compressor pump. Next oil change Interval 13,231.2 hrs. or by 1/13/2023.
Oil Change (yes/no)	**NO**	
Belt Condition:	**OK**	
Coalescing Filter Condition:	**OK**	

Additional Maintenance Needed:

Belt occasionally squeals on startup. May need alignment.

Description of Maintenance Actives Completed:

Operational Checklist

Former EPT
Ithaca, NY

Miscellaneous Tasks

Maintenance Items:

Snow Removal (yes/no)	**No**
Grass/Weed Removal (yes/no)	**No**
Is Shed Clean and Organized on Arrival (yes/no)	**Yes**
Is Shed Clean and Organized on Departure (yes/no)	**Yes**
Other (please specify in detail):	

WELL VAULT CHECKLIST

Checked Heat Trace Breakers (yes/no):	**Yes**	
NYSEG Meter Reading (kwh)	**227,343**	

EW-1

Checked Sample Port (yes/no):	**Yes**
Checked Compressed Air Line Drain (yes/no):	**Yes**

Vapor Line	***Reading***	***Units***
Vacuum Gauge	**-7.5**	inHg

Water Line	***Reading***	***Units***
Pressure Gauge	**5**	psi
Cycle Count	**214,416**	# of cycles

Air Line	***Reading***	***Units***
Pressure Gauge	**120**	psi
Regulator Gauge	**80**	psi

Description of Maintained Activities Completed:

Operational Checklist

Former EPT
Ithaca, NY

EW-2

Checked Sample Port (yes/no):	**Yes**
Checked Compressed Air Line Drain (yes/no):	**Yes**

Vapor Line	*Reading*	*Units*
Vacuum Gauge	**-8.5**	inHg

Water Line	*Reading*	*Units*
Pressure Gauge	**6.0**	psi
Cycle Count	**982,270**	# of cycles

Air Line	*Reading*	*Units*
Pressure Gauge	**120**	psi
Regulator Gauge	**75**	psi

Description of Maintained Activities Completed:

EW-3

Checked Sample Port (yes/no):	**Yes**
Checked Compressed Air Line Drain (yes/no):	**Yes**

Vapor Line	*Reading*	*Units*
Vacuum Gauge	**-8.5**	inHg

Water Line	*Reading*	*Units*
Pressure Gauge	**5**	psi
Cycle Count	**39,915**	# of cycles

Air Line	*Reading*	*Units*
Pressure Gauge	**125**	psi
Regulator Gauge	**75**	psi

Description of Maintained Activities Completed:

Operational Checklist

Former EPT
Ithaca, NY

EW-4

Checked Sample Port (yes/no):	**Yes**
Checked Compressed Air Line Drain (yes/no):	**Yes**

Vapor Line	*Reading*	*Units*
Vacuum Gauge	**-7.0**	inHg

Water Line	*Reading*	*Units*
Pressure Gauge	**15**	psi
Cycle Count	**80,987**	# of cycles 3

Air Line	*Reading*	*Units*
Pressure Gauge	**125**	psi
Regulator Gauge	**80**	psi

Description of Maintained Activities Completed:

EW-5

Checked Sample Port (yes/no):	**Yes**
Checked Compressed Air Line Drain (yes/no):	**Yes**

Vapor Line	*Reading*	*Units*
Vacuum Gauge	**-9**	inHg

Water Line	*Reading*	*Units*
Pressure Gauge	**3**	psi
Cycle Count	**402,424**	# of cycles

Air Line	*Reading*	*Units*
Pressure Gauge	**110**	psi
Regulator Gauge	**75**	psi

Description of Maintained Activities Completed:

Operational Checklist

Former EPT
Ithaca, NY

EW-6

Checked Sample Port (yes/no):	**Yes**
Checked Compressed Air Line Drain (yes/no):	**Yes**

Vapor Line	*Reading*	*Units*
Vacuum Gauge	**-9.0**	inHg

Water Line	*Reading*	*Units*
Pressure Gauge	**>15**	psi
Cycle Count	**967,038**	# of cycles

Air Line	*Reading*	*Units*
Pressure Gauge	**110**	psi
Regulator Gauge	**75**	psi

Description of Maintained Activities Completed:

EW-7

Checked Sample Port (yes/no):	**Yes**
Checked Compressed Air Line Drain (yes/no):	**Yes**

Vapor Line	*Reading*	*Units*
Vacuum Gauge	**-8.5**	inHg

Water Line	*Reading*	*Units*
Pressure Gauge	**6.0**	psi
Cycle Count	**257,868**	# of cycles

Air Line	*Reading*	*Units*
Pressure Gauge	**115**	psi
Regulator Gauge	**75**	psi

Description of Maintained Activities Completed:

Operational Checklist

Former EPT
Ithaca, NY

EW-8

Checked Sample Port (yes/no):	**Yes**
Checked Compressed Air Line Drain (yes/no):	**Yes**

Vapor Line	***Reading***	***Units***
Vacuum Gauge	**-8.5**	inHg

Water Line	***Reading***	***Units***
Pressure Gauge	**6**	psi
Cycle Count	**333,297**	# of cycles

Air Line	***Reading***	***Units***
Pressure Gauge	**115**	psi
Regulator Gauge	**75**	psi

Description of Maintained Activities Completed:

EW-10

Checked Sample Port (yes/no):	**Yes**
Checked Compressed Air Line Drain (yes/no):	**Yes**

Vapor Line	***Reading***	***Units***
Vacuum Gauge	**-9.5**	inHg

Water Line	***Reading***	***Units***
Pressure Gauge	**15**	psi
Cycle Count	**178,959**	# of cycles

Air Line	***Reading***	***Units***
Pressure Gauge	**120**	psi
Regulator Gauge	**75**	psi

Description of Maintained Activities Completed:

Operational Checklist

Former EPT
Ithaca, NY

EW-9R (uphill)

Checked Sample Port (yes/no):	**Yes**
Checked Compressed Air Line Drain (yes/no):	**Yes**

Vapor Line	*Reading*	*Units*
Vacuum Gauge	**-12**	inHg

Water Line	*Reading*	*Units*
Pressure Gauge	**6.0**	psi
Cycle Count	**555,738**	# of cycles

Air Line	*Reading*	*Units*
Pressure Gauge	**NA**	psi
Regulator Gauge	**80**	psi

Description of Maintained Activities Completed:

EW-11

Checked Sample Port (yes/no):	**Yes**
Checked Compressed Air Line Drain (yes/no):	**Yes**

Vapor Line	*Reading*	*Units*
Vacuum Gauge	**0.0**	inHg

Water Line	*Reading*	*Units*
Cycle Count	**94,747**	# of cycles

Air Line	*Reading*	*Units*
Regulator Gauge	**80**	psi

Description of Maintained Activities Completed:

Replaced heat trace but still not working correctly. Need follow up to further diagnose.

EW-12

Checked Sample Port (yes/no):	**Yes**
Checked Compressed Air Line Drain (yes/no):	**Yes**

Vapor Line	*Reading*	*Units*
Vacuum Gauge	**0**	inHg

Water Line	*Reading*	*Units*
Pressure Gauge	**0.0**	psi
Cycle Count	**2,011**	# of cycles

Air Line	*Reading*	*Units*
Regulator Gauge	**75**	psi

Description of Maintained Activities Completed:

Replaced heat trace. Working at departure.