VERINA Engineering, P.C.

# 2022 PERIODIC REVIEW REPORT

## FORMER DOVER ELECTRONICS SITE
## KIRKWOOD, NEW YORK
## NYSDEC SITE NO. 7-04-026



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# INTRODUCTION

On behalf of Dover Corporation (Dover), Verina Engineering, P.C. (VERINA) has prepared this Periodic Review Report (PRR) to summarize the remedial activities conducted in 2022 at the former Dover Electronics site in Kirkwood, Broome County, New York, New York State Department of Environmental Conservation (NYSDEC) Site No. 7-04-026 (the Site).

The remedial activities implemented in 2022 included:

- In-Situ Chemical Oxidation (ISCO) remediation operation and maintenance (O&M) activities;
- ISCO performance groundwater monitoring;
- Groundwater monitoring well abandonment, replacements and repairs;
- Active sub-slab depressurization (ASD) system O&M activities; and,
- Annual indoor air sampling.

The work was implemented in accordance with the Record of Decision of March 2000; the Order on Consent executed on January 19, 2001; the Record of Decision Amendment of March 2014; the NYSDEC approved Site Management Plan (SMP) of July 17, 2019; and the NYSDEC approved 2021 Periodic Review Report (PRR), Revision 01, prepared for the Site.

## SITE HISTORY AND BACKGROUND

The former Dover Electronics site is located at 29 Industrial Park Drive, Kirkwood, Broome County, New York. The facility is located on approximately 9.58 acres in an industrial setting and consists of an industrial building with associated parking and vegetated areas. The Site is presently occupied by Modern Marketing Concepts, Inc. (MMC). A regional Site location map and a Site plan are shown on Figures 1 and 2, respectively.

The Site had served as one of Universal Instruments Corporation's (UIC) service facilities for product training, research and development, and Odd Form Assembly (OFA), which involves the engineering and assembly of non-standard/specialty circuit boards until 2007. In 2007 the facility was sold to MMC, which handles outsourced customer service and product ordering for other companies.

Several remedial investigations (RIs) at the Site have been conducted since the 1990s. The RIs indicated that soil, groundwater, surface (storm) water and indoor air have been impacted by volatile organic compounds (VOCs), including tetrachloroethene (PCE), trichloroethene (TCE), cis- and trans-1,2-dichloroethene (1,2-DCE), and vinyl chloride (VC). The RI results have been discussed in the Site Management Plan (SMP) dated February 2011 by ARCADIS (ARCADIS 2011b).

On March 30, 2000, NYSDEC signed a Record of Decision (ROD) with Universal Instruments Corporation for the Site to address the VOCs in Site soil and groundwater. Specifically, the March 2000 ROD selected: installation of a soil vapor extraction (SVE) system to treat inaccessible soils, excavation and off-site disposal of accessible soil, installation of a groundwater extraction and treatment system, property restrictions, and an evaluation of an in-situ groundwater treatment technology to shorten duration of the groundwater extraction and treatment. The Site was entered into an Order on Consent by Universal Instruments Corporation, Index No. B7-0515-97-05, with the NYSDEC on January 19, 2001 for remediation at the Site.

On July 25, 2003, NYSDEC approved a remedy modification under an Explanation of Significant Differences (ESD). The significant difference to the remedy approved at that time, compared to the remedy selected in the March 2000 ROD, was to install an active sub-slab depressurization system to address indoor air contamination in lieu of the SVE system to treat soil contamination, and to place a Deed Restriction on the property to address inaccessible soils. The change was in response to information from an SVE pilot test indicating lower than expected soil vapor permeability. As a result, soil vapor could not be effectively drawn out of the subsurface preventing the successful application of the SVE technology.

Prior to issuance of the ROD, two interim remedial measures (IRMs) were attempted to address contamination at the Site. In August 1994, recovery wells (RW-1 and RW-2) were installed near former tetrachloroethene (PCE) tanks as an interim groundwater extraction and the treatment system operated until 1996. Another recovery well (RW-3) was installed in 1997 and operated until December 1998. The groundwater remediation-by-extraction attempts were of limited success due to the tight nature of the glacial till, and the corresponding very low transmissivity across the Site, limiting groundwater recovery.

As a result, two field pilot tests were conducted as part of an alternative groundwater remediation field study. The field tests consisted of an enhanced bioremediation field study and an in-situ chemical oxidation (ISCO) field pilot test. Enhancing biodegradation of PCE in the source area was found to have limited overall effectiveness, while ISCO was shown to be much more effective in remediating the constituents of concern (COCs) in groundwater. To further evaluate the ISCO in-situ alternative, three phases of ISCO field tests were conducted between 2005 and 2008 using sodium permanganate as a full-scale groundwater remedy. The results of the ISCO field tests indicated that the permanganate would be effective at reducing the concentration of COCs in groundwater. A full-scale ISCO groundwater remedy using sodium permanganate was initiated in November 2011 and is currently being implemented. NYSDEC issued a ROD Amendment, in addition to the previous ESD, on March 18, 2014.

In addition to the groundwater remediation efforts, an active sub-slab depressurization (ASD) system was installed and operated to mitigate the potential intrusion of vapors into the building from the remaining soil and groundwater contamination. A Deed Restriction was filed with Broome County in August 2005 stating that there shall be no construction, use or occupancy property that results in the disturbance of the seven soil cover systems or which will result in human exposure to the contaminated soils.

Most recently, a Final Engineering Report (FER) was prepared and submitted to NYSDEC in January 2020 as well as a Site Management Plan (SMP) in July 2020, both of which were subsequently approved by the NYSDEC. Based on the remedial activities completed, and the institutional and engineering controls at the Site, the Site has been re-classified from Class 2 to Class 4 in the NYSDEC's Registry of Inactive Hazardous Waste Disposal Sites in New York State on September 4, 2020.

## SOIL OPERABLE UNIT

The site impacted soil was remediated in accordance with the NYSDEC-approved Remedial Design (RD) Package prepared by Blasland, Bouck and Lee, Inc. (BBL) in June 2003 (BBL 2003). The following is a summary of the remedial actions performed at the site to address the impacted soil:

- Removal of PCE-impacted soils from seven isolated areas beneath and adjacent to the facility building in June and July 2003;
- Abandonment and replacement of the roof leader from the roof drain system that handles storm water runoff from the front part of the roof for the original building section of the facility;
- Extension of the storm water outfall from the southwest catch basin (CB-1547);
- Construction of a soil cap system to eliminate the potential for human contact with fill material and remaining contaminated soil, and eliminate the potential for soil erosion and contaminated soil and storm water runoff from the property;
- Installation of an ASD system in 2003 to address indoor air quality within the facility building;
- Execution and recording of a Deed Restriction for the areas beneath the footprints of the 1978 and 1984 building additions, areas beneath parts of the original building (1973) and the 1982 addition, and for seven additional areas where complete removal of soil to below the NYSDEC criterion for PCE was not achieved. The Deed Restriction also included a restriction on using Site groundwater; and
- Development and implementation of a Soil Management Plan for long term management of remaining contamination as required by the Deed Restriction.

## GROUNDWATER OPERABLE UNIT

After a former aboveground 5,000-gallon flux tank that contained PCE was dismantled in March 1993, a groundwater extraction program was implemented as an Interim Remedial Measure (IRM). Recovery wells (RW-1 and RW-2) were installed near the former PCE tank located at the rear of the facility building and the interim groundwater treatment system became operational in August 1994. The system operated on a limited schedule and it was shut down and abandoned

in 1996. This IRM may have removed up to 12,000 gallons of groundwater. Another recovery well, RW-3, was installed in 1997 adjacent to monitoring well MW-7A as part of a second IRM groundwater extraction and treatment using granulated activated carbon (GAC). This groundwater extraction and treatment system was in operation from April 1998 through December 1998 and was intended to help control the migration of the dissolved-phase PCE plume. During this time, approximately 41,000 gallons of groundwater were extracted from well RW-3.

The groundwater remediation-by-extraction attempts were unsuccessful because of the tight nature of the subsurface glacial till and the corresponding very low transmissivity across the Site. For this reason, two field pilot tests were conducted as part of an alternative groundwater remediation field study. These field tests consisted of an enhanced bioremediation field study and an ISCO field pilot testing. Enhanced biodegradation of PCE in the source area was found to have limited overall effectiveness while ISCO found to be much more effective in remediating the constituents of concern (COCs) in groundwater.

ISCO field testing using sodium permanganate was proposed in the September 2004 Groundwater Bioremediation Progress Report (GBRPR) by BBL for the remaining residual COCs within the central part of the groundwater plume. Sodium permanganate is a proven oxidizer of chlorinated ethenes and has a very high water solubility allowing high dissolved concentrations of the oxidant to be introduced into the aquifer. The field test objective was to reduce the PCE concentration within the area defined by the 1,000 micrograms per liter (µg/L) isoconcentration contour line as presented in the September 2004 report.

Three phases of ISCO field tests were conducted between 2005 and 2008 at the site to evaluate the effectiveness of ISCO using sodium permanganate as a full-scale groundwater remedy. The results of ISCO field tests indicated that the permanganate is effective at reducing the concentration of COCs in groundwater. A full-scale ISCO groundwater remedy using sodium permanganate was implemented in November 2011.

## CURRENT REMEDIAL ACTIVITIES

ISCO was proposed as a full-scale remedy for the remaining residual COCs within the central part of the groundwater plume in the October 2007 Final Groundwater Remediation Progress Report (GRPR) submitted by ARCADIS (ARCADIS 2007) and was conceptually approved by NYSDEC in an e-mail to ARCADIS dated March 25, 2009. A full-scale ISCO Design Report (ARCADIS 2010) and ISCO Construction Package (ARCADIS 2011a) were prepared and submitted by ARCADIS to provide detailed scope of work, design, and operation specifications for the full-scale ISCO treatment system. The full-scale ISCO groundwater remedy was initiated in November 2011 and consisted of the injection of a 5% (by weight) solution of sodium permanganate by a gravity-feed system in the source area along with manual injection downgradient of the source area and associated groundwater performance monitoring. In March 2014, a Record of Decision Amendment was issued by the NYSDEC including ISCO as the remedy to remediate the residual COCs in groundwater at the Site.

In addition, Engineering Controls (EC) and Institutional Controls (IC) for the Site have also been incorporated into the remedial program. The ECs include an ASD system and soil capping system

to control exposure to remaining COCs in soils at the Site and to ensure protection of public health and the environment. The ECs are inspected monthly to ensure that they are properly maintained and operated. The IC for the Site, which places restrictions on Site use, is a Deed Restriction which was granted by the NYSDEC and recorded with the Broome County Clerk for the site. The Deed Restriction is in compliance with the current, approved SMP (VERINA 2020b).

At the end of 2013, permanganate solution was found to be leaking from the injection piping network of the ISCO system (VERINA 2014a). After remediating the release of the permanganate solution at the Site and considering the effectiveness of the gravity-feed system, the use of the ISCO gravity-feed system was suspended. With NYSDEC's approval, monthly manual injections at selected injection points within the impacted groundwater area were implemented in 2014 to replace the gravity feed approach and continue the ISCO remedy. Then, with NYSDEC's approval in April 2022, manual injections at the Site have been reduced to a bimonthly frequency. All manual injection activities utilize a 10% (by weight) sodium permanganate solution. This remedial strategy is also consistent with the approved SMP for the Site.

# ISCO SYSTEM OPERATION, MAINTENANCE, AND MONITORING

The use of the gravity-feed system was suspended in January 2014 and a manual injection program was established in its place. During 2022, injection wells and points received a 10% by weight sodium permanganate oxidant solution. The 10% permanganate solution is stored on-site in the 6,500-gallon aboveground storage tank (AST). As outlined in the approved SMP (VERINA 2020b), the effectiveness of the ISCO remediation is being assessed by groundwater monitoring in both the source and downgradient areas.

## ISCO INJECTION

The manual injection program utilized a total of 13 injection wells in the source area and four injection wells in the Pilot Truck Stop area. A summary of the well points and volumes of ISCO solution injected during 2022 is presented in Table 1. Approximately 800 gallons of ISCO solution was injected into these wells during each injection event on a monthly basis between January and May 2022. After the May 2022 injection event, the manual injection events were then reduced to a bimonthly frequency with NYSDEC's approval. During these bimonthly events, each well's watercolor was assessed. Those wells which had exhibited a purple or pink color were considered to have residual permanganate existing in that well and were not injected into during the given event. Those wells whose water color was clear were injected into during the given event, and the volume injected into each well was based on the amount each well could typically accept based on prior Site experience.

Since the November 1, 2011 initiation of the ISCO remediation, approximately 115,035 gallons of sodium permanganate solution have been injected into the subsurface at the Site, including approximately 4,535 gallons injected during 2022. The 2022 manual injection logs are enclosed in Appendix A.

## GROUNDWATER MONITORING PROGRAM

### Well Repairs, Abandonments and Replacements

As noted in the 2021 PRR prepared for the Site, well MW-39 was identified as needing repair and well MP-4 and MP-5 were found to be obstructed during the September 2021 sampling event. In June 2022, Parratt-Wolff, Inc. (PWI) of Lewisburg, PA conducted the well repair, abandonment and replacement work under the direct supervision of VERINA personnel. At MW-39, the well pad and manhole were replaced so they were centered around the inner well casing. Well MP-4 and MP-5 were abandoned in place, and respective replacement wells MP-4R and MP-5R were installed several feet away from the original well locations. Each well was also constructed in the same manner as the original wells (same well depth, screened interval, and type and diameter of well casing as the original well). MP-4R was constructed of a 1" diameter polyvinyl chloride (PVC) well casing with a screened interval of 17-27 feet below ground surface (ft, bgs). MP-5R was also a 1" diameter PVC well with a screened interval of 14-24 ft, bgs. Each well was then surveyed by Hulbert Engineering and Land Surveying, DPC of Binghamton, NY in September 2022, prior

to the groundwater elevation measurement event. The resultant well survey information is provided in Appendix B.

## Site-Wide Groundwater Elevation Measurements

Groundwater elevation measurements were collected on September 27, 2022 prior to the groundwater sampling event from all accessible on-site monitoring wells and points to assess the groundwater flow direction at the Site. The groundwater elevations from September 2022 are summarized in Table 2. Groundwater elevation isocontour maps for the September 2022 groundwater gauging event are presented on Figures 3 and 4 for the shallow and intermediate aquifers, respectively.

The groundwater elevation isocontour maps indicate the groundwater flow direction with both the shallow and intermediate aquifers to be from the northeast towards the southwest, which is consistent with historical measurements.

Additionally, during the sitewide groundwater gauging event, several wells were noted to be in need of repair. A summary of the repairs needed is included in the Conclusions and Recommendations section at the end of this report.

## Post-Injection Groundwater Monitoring

Groundwater sampling occurred at both the source area and the Pilot Truck Stop area in September 2022 in accordance with the schedule presented in Table 3, which was included in VERINA's 2021 PRR (VERINA 2022). One well which was scheduled to be sampled, MP-8S, was not able to be sampled as very little water was present in the well and the majority of the well screen was found to be silted up. Therefore, this well is planned to be redeveloped in 2023 as discussed in the Conclusions and Recommendations section below.

All of the groundwater sampling activities were performed following the same procedures utilized for the baseline groundwater sampling events. The samples were submitted to ALS Environmental of Rochester, New York for site-specific parameter list (SSPL) VOCs analysis. SSPL VOCs include PCE, TCE, cis- and trans-1,2-DCE, VC, 1,1-dichloroethane, 1,1-dichlorethene, and 1,1,1-trichloroethene. The groundwater sampling logs are presented in Appendix C.

Groundwater samples from those monitoring wells which had exhibited residual permanganate, as indicated by a pink or purple color of the purge water, were collected in laboratory-provided unpreserved vials pre-charged in the field with sodium thiosulfate. Sodium thiosulfate was added to neutralize the residual permanganate in the water as it may influence the performance of the laboratory's analytical instruments. The wells with pink or purple purge water also had their residual sodium permanganate concentration analyzed for in the field immediately subsequent to SSPL VOC sampling using a Hach® DR890 colorimeter. A summary of the residual sodium permanganate groundwater concentrations is presented in Table 4.

## Groundwater Sampling Analytical Results

Analytical results for PCE and its daughter products from the baseline through September 2022 sampling events are summarized in Table 5 and the results for the September 2022 sampling event are summarized on Table 6. The distribution of the PCE concentrations detected during the September 2022 sampling event in the shallow aquifer and intermediate aquifers are shown on Figure 5 and Figure 6, respectively. The total molar concentration of PCE and daughter compounds represented as chloride equivalents detected in groundwater during the September 2022 sampling event is depicted on Figure 7 for the shallow aquifer and on Figure 8 for the intermediate aquifer. Figure 9 shows the decreasing trends of PCE concentrations at selected wells in the shallow and intermediate aquifers.

The laboratory data reports for the September 2022 groundwater sampling event is included in Appendix D. The electronic data deliverables (EDDs) for this sampling event have been previously submitted to NYSDEC via email.

As indicated in Table 6, SSPL VOCs were detected above their respective NYSDEC Groundwater Quality Standards (GWQS) in wells MW-2, MW-3, MW-7A, MW-16, MW-19, MW-27, MP-4R, MP-6S, and MP-14 in the shallow aquifer and in wells MW-38 in the intermediate aquifer.

In comparing the September 2022 groundwater PCE plume maps (Figures 5 and Figure 6) and the total molar concentration, as chloride equivalents, of PCE and daughter compounds plume maps (Figures 7 and 8) to the baseline sampling plume maps presented in VERINA's 2012 Remedial Action Progress Report (RAPR) (VERINA, 2013), the lateral extent and overall concentration of the COC plume has decreased significantly since the ISCO implementation at the Site for both shallow and intermediate aquifers. Overall, the mass reduction of COCs in groundwater in the shallow and intermediate aquifers was estimated at about 80% and 87%, respectively, since the full-scale ISCO remedy was implemented in November 2011. In summary, the concentrations of residual COCs in groundwater are also decreasing in both shallow and intermediate aquifers since the ISCO remedy was implemented.

# ENGINEERING AND INSTITUTIONAL CONTROLS COMPLIANCE

In accordance with the approved Operations, Maintenance, and Monitoring (OM&M) Plan (ARCADIS 2005), engineering and institutional controls (EC/IC) at the Site were inspected monthly from January through December 2022, including:

- Inspection of the ASD system operation and condition;
- Inspection of the soil and asphalt caps placed over former excavation areas where residual PCE-affected soils above NYSDEC standards remain; and,
- Collection and analysis of annual indoor air samples.

## SOIL AND ASPHALT CAP INSPECTIONS

The soil and asphalt caps placed over those areas where PCE-affected soil remains in place above NYSDEC standards (Figure 10) were inspected once per month by VERINA in 2022. The monthly inspections indicated that the engineering controls were in good condition. VERINA's 2022 cap inspection logs are provided in Appendix E.

## ASD SYSTEM INSPECTIONS

The ASD system was installed in the MMC building in June 2003 to mitigate the potential adverse effects on indoor air quality caused by vapor intrusion. In December 2014, MMC initiated building renovations which required the relocation of two sub-slab depressurization points (ASD-2 and ASD-3). The proposed modification plan to the ASD system was approved by NYSDEC on December 11, 2014. The ASD modification work was summarized in VERINA's 2014 Annual Remedial Action Progress Report, submitted in January 2015 (VERINA, 2015). Additionally, during the ASD inspection of May 2015, it was discovered that three depressurization points, ASD-3 through 5, had no observed vacuum and that the fan which was connected to these points was not operating. In response, VERINA replaced the ASD fan and the ASD system was restarted on June 9, 2015.

The ASD system was checked once per month in 2022 to verify that the system was running properly and that the system was in good operating condition. The monthly inspections indicated that the system is operating as designed, is running satisfactorily, and that the ASD system vacuum readings collected in 2022 were generally consistent with the system data collected in 2021. The ASD system will continue to be monitored monthly to ensure proper operation of the system. The ASD Inspection Log showing the monthly ASD system inspection and vacuum readings is presented in Appendix F.

## ANNUAL INDOOR AIR MONITORING

Indoor air sampling was conducted in March 2022 as part of the indoor air monitoring program. The indoor air sampling was conducted in accordance with the approved OM&M Plan (ARCADIS 2005), Remedial Design Package (BBL 2003), and the SMP (VERINA 2020b).

Indoor air samples were collected at the seven sampling locations within the facility building where facility employees regularly work or where SSPL VOC vapors were detected in previous sub-slab samples and one ambient air samples collected from the exterior of the building. The sampling points were labeled according to their location and are shown on Figure 11.

Four sampling points were located in the main building - two sampling points in the primary cubicle area (Office Area #1 and Office Area #2) and two points in Hallway and Cafeteria areas (former cafeteria for Universal Instruments Corporation, but now a work area). There were three sampling points in the rear additions - one by the HVAC equipment (A/C Area), one by the electrical switch gear (Electrical Area), and one in the former computer server room (Computer Servers) which is now used for general storage including some various cleaning chemicals and paints. An outdoor background sample was also collected by the building's HVAC air intakes. The indoor and outdoor air samples were collected over an 8-hour period in 6-liter stainless steel Summa canisters and analyzed for VOCs by USEPA Method TO-15.

The analytical results of the indoor air samples indicated all samples results were below their respective New York State Department of Health (NYSDOH) guidance values. The analytical results of the March 2022 indoor air sampling event are summarized in Table 7. Historical indoor air sampling results are presented in Table 8. A copy of the laboratory data package for the March 2022 indoor air sampling event is provided in Appendix G. The EDDs for the indoor air sampling event have previously been submitted to the NYSDEC via email.

# CONCLUSIONS AND RECOMMENDATIONS

## CONCLUSIONS

Based on the remediation status to date, the following conclusions are made:

- Several wells need to be repaired based on the September 2022 groundwater monitoring event. The repair details are provided in the Recommendations for Site Groundwater Monitoring and Site Reporting section below.

- Ongoing groundwater elevation measurements indicate the direction of groundwater flow in both the shallow and intermediate aquifers is generally towards the southwest, which is consistent with the previously observed groundwater flow direction.

- The groundwater monitoring results indicate that the COCs in groundwater continue to be contained at the Site with no further migration.

- The total PCE concentration and the total molar concentration of PCE and its daughter compounds, have decreased or remained at low levels in both the shallow and intermediate aquifers as compared to the 2021 data.

- Monitoring of the COC concentrations indicate that the ISCO remedy is reducing the COC mass in both the source area and the Pilot Truck Stop area. The COC mass reduction observed in both the shallow and intermediate aquifers indicate that the ISCO application is effective for the reduction of COC mass in both aquifers at the site. To date, the mass reduction of COCs in the shallow and intermediate aquifers is estimated to be about 80% and 87%, respectively, since the full-scale ISCO remedy was implemented in November 2011.

- The analytical results of the annual indoor air sampling conducted in March 2022 indicate all detected compounds were below NYSDOH guidance values. The ASD system is therefore effective at mitigating indoor air COC concentrations.

- The EC/ICs at the Site continue to be maintained in acceptable condition.

## RECOMMENDATIONS FOR THE ISCO SYSTEM OPERATION

Based on the conclusions presented above and additional analysis of the Site conditions, the following recommendations are proposed for the remedial activities in 2023:

- VERINA recommends continuing the bi-monthly injection events into select wells in 2023. The wells selected for manual injection will include: IJ-1, IJ-2, IJ-5, IJ-6, IJ-7, IJ-8, MW-7A, MW-16, MW-24, MW-25R, MW-28, MP-4, MP-5, MP-8S, MP-11, MP-12 and MP-14. During each injection event, each of these wells will have their water color assessed, and only those wells without a pink or purple color will be injected into. VERINA also plans to inject a target volume into each well based on how much injection solution a given well

can typically accept during each manual injection event based on prior field experience. The target injection volumes for each well are provided on the Sodium Permanganate Manual Injection Log provided in Appendix H.

- Based on review of the Site data, ISCO injections will continue utilizing a 10% sodium permanganate solution in 2023, mixing and storing the solution in the AST at the Site.

## RECOMMENDATIONS FOR THE ASD SYSTEM & ENGINEERING CONTROLS

- In 2023, VERINA will continue the monitoring, sampling and analysis program for the ASD system to assure continued, proper operation.

- Based on the historical indoor air sampling results, VERINA recommends discontinuation of the annual indoor air sampling at the site. The indoor air sampling will be resumed if any modification to the ASD system or any disruption of the ASD system operation throughout the year.

- VERINA will continue the monthly inspection of the site engineering controls and will perform maintenance on the soil caps/covers on an as-needed basis if conditions warrant such work.

## RECOMMENDATIONS FOR SITE GROUNDWATER MONITORING & SITE REPORTING

During 2023, VERINA will perform the following groundwater sampling and monitoring programs:

- Based on observations made during the 2022 Site-wide groundwater gauging event, VERINA recommends the following well repairs:

  - Wells MW-5 and IJ-5 require new inner caps
  - Wells MW-5, MW-34 and MP-8S need to be redeveloped as sediment appears to have accumulated within each well
  - Wells MW-22 and MP-13 need to have their pads repaired
  - Well MW-28, which is located in the truck stop area, appears to have sunken down over time and due to such, the top of the inner PVC casing has cracked. The PVC casing and well pad will need to be repaired. Since the well casing is to be modified , this well will also need to be resurveyed.
  - Wells MW-6 and MP-2 need to be located and clearly marked, as each has been covered by dense vegetation.

- VERINA will continue the annual groundwater monitoring program in September 2023 in accordance with the approved SMP (VERINA 2020b). The selected wells to be sampled during the annual groundwater sampling event are summarized in Table 3.

- Remedial action progress reporting will continue for the Site in 2023 as follows:

- The 2023 PRR along with IC/EC Certification will be submitted to NYSDEC in January 2024 and will include details of the activities performed and data collected in 2023 for the Site. This report will also include conclusions and recommendations for future Site activities in 2024.

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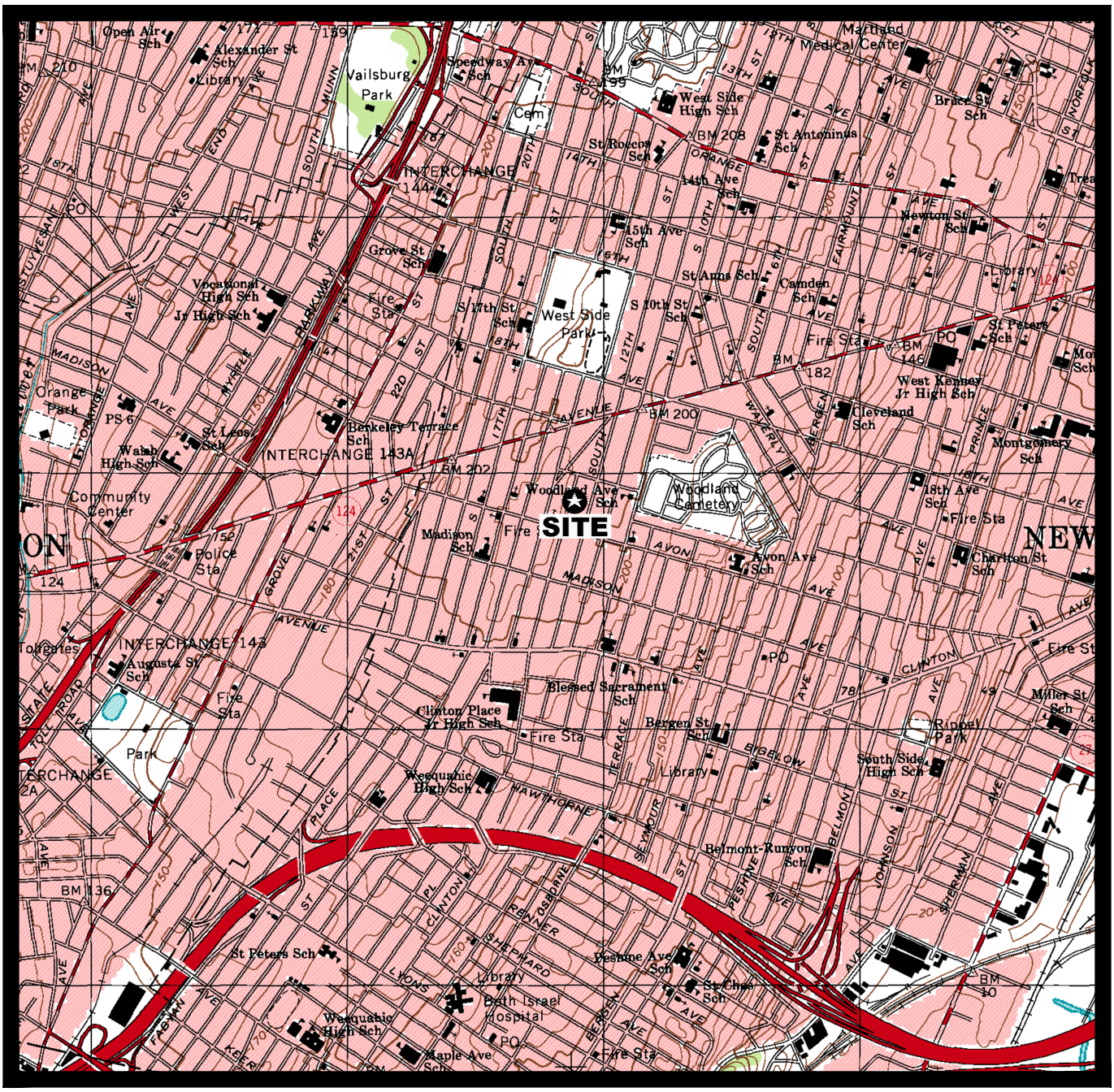
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# Figures




BINGHAMTON EAST QUADRANGLE
7.5–MINUTE SERIES

N

0 2000

APPROXIMATE SCALE

FORMER DOVER ELECTRONICS FACILITY
KIRKWOOD, NEW YORK

# REGIONAL LOCATION MAP

VERINA Engineering, P.C.

1

N

MW-15
MW-21
MW-16
MW-5
MW-17
MW-2
MW-38
MW-18
MW-26
MW-19
MW-27
MW-30
MW-37
MW-39
MW-31
MW-35
MW-32
MW-33
MW-36
MW-3
MW-22
MW-20
MW-6
MW-24
MW-29
MW-9
MW-14
MW-1
MW-23
MW-4
MW-10
MW-13
MW-12
MW-11
MW-8
MW-7A
MW-7
MW-25R
MW-28
MW-25
MW-34

MP-2 (to approx. 45ft)
MP-1 (to approx. 45ft)
(to approx. 75ft) MP-3D
MP-11
MP-4R
MP-4
MP-12
MP-5R
MP-13
MP-14
MP-6S
MP-6D (to approx. 55ft)
MP-10D (to approx. 55ft)
MP-10S
MP-7
MP-9
MP-8S
MP-8D (to approx. 55ft)

IJ-7
IJ-2
IJ-8
IJ-3
IJ-9
IJ-4
IJ-10
IJ-1
IJ-5
IJ-6

BUILDING
FORMER ABOVEGROUND STORAGE TANK
FORMER DRUM STORAGE SHED

CABLE DUCK RAIL
GRAVEL ROAD
PAVED SHOULDER

## EXPLANATION

- **MW-2** — DESIGNATION AND APPROXIMATE LOCATION OF SHALLOW MONITORING WELL
- **MW-6** — DESIGNATION AND APPROXIMATE LOCATION OF INTERMEDIATE MONITORING WELL
- **MW-34** — DESIGNATION AND APPROXIMATE LOCATION OF DEEP MONITORING WELL
- **MW-1** — DESIGNATION AND APPROXIMATE LOCATION OF ABANDONED MONITORING WELL
- **MP-1** — DESIGNATION AND APPROXIMATE LOCATION OF SHALLOW MONITORING POINT
- **MP-10S** — DESIGNATION AND APPROXIMATE LOCATION OF ABANDONED MONITORING POINT
- **MP-6D** — DESIGNATION AND APPROXIMATE LOCATION OF INTERMEDIATE MONITORING POINT
- **IJ-1** — DESIGNATION AND APPROXIMATE LOCATION OF SHALLOW INJECTION WELL
- **IJ-6** — DESIGNATION AND APPROXIMATE LOCATION OF SHALLOW–INTERMEDIATE INJECTION WELL
- **IJ-3** — DESIGNATION AND APPROXIMATE LOCATION OF ABANDONED SHALLOW–INTERMEDIATE INJECTION WELL
- **MW-7A** — WELL IDs WITH YELLOW HIGHLIGHTING INDICATE WELL IS USED FOR INJECTIONS

SOURCE:
SITE MAP AND FEATURES OBTAINED FROM *BOUNDARY AND TOPOGRAPHIC SURVEY UNIVERSAL INSTRUMENTS CORPORATION 29 INDUSTRIAL PARK DRIVE TOWN OF KIRKWOOD BROOME COUNTY NEW YORK STATE* PREPARED BY HAWK ENGINEERING OF BINGHAMTON, NEW YORK
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0 110 FT.
APPROXIMATE SCALE

FORMER DOVER ELECTRONICS FACILITY
KIRKWOOD, NEW YORK

# SITE MAP WITH MONITORING WELL LOCATIONS

VERINA Engineering, P.C.

2

N

MW-15 NM

MW-21

MW-16 859.67

MW-5 855.34

MW-17 846.69

MW-2 853.40

MW-38

MW-18 845.69

MW-27 846.91

MW-26

MW-19 845.80

MW-39

MW-31 845.35

MW-32 848.76

MW-35

MW-33 NM

MW-36 844.16

MW-3 856.66

MW-22

MW-20

MW-30

MW-37

MW-24 871.87

MP-2 NM

(to approx. 45ft)

(to approx. 75ft) MP-3D

MP-11 866.22

MP-4R 875.79

MP-4

MP-12 864.69

MW-7A 876.70

MW-7

MP-5R 870.00

MP-13 875.40

IJ-1 NM

MP-14 860.76

MP-6S 863.72

MP-6D

(to approx. 55ft)

IJ-5 NM

MP-1 NM

(to approx. 45ft)

MW-29 874.23

MW-13 878.12

MW-12

IJ-7

IJ-2

IJ-8

IJ-3

IJ-9

MW-9 877.53

MW-14

MW-1

MW-23 877.51

MW-4

FORMER ABOVEGROUND STORAGE TANK

BUILDING

MW-10

MW-11

FORMER DRUM STORAGE SHED

MW-8

MW-6

IJ-6

MW-25R

MW-25

MW-28 856.25*

MW-34

MP-7

MP-9

MP-8S 844.27

MP-10D

(to approx. 55ft)

MP-10S

MP-8D

(to approx. 55ft)

875.00

870.00

865.00

860.00

855.00

850.00

GRAVEL ROAD

PAVED SHOULDER

## EXPLANATION

- MW-2 — DESIGNATION AND APPROXIMATE LOCATION OF SHALLOW MONITORING WELL
- MW-6 — DESIGNATION AND APPROXIMATE LOCATION OF INTERMEDIATE MONITORING WELL
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- MP-1 — DESIGNATION AND APPROXIMATE LOCATION OF SHALLOW MONITORING POINT
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- IJ-1 — DESIGNATION AND APPROXIMATE LOCATION OF SHALLOW INJECTION WELL
- IJ-6 — DESIGNATION AND APPROXIMATE LOCATION OF SHALLOW–INTERMEDIATE INJECTION WELL
- IJ-3 — DESIGNATION AND APPROXIMATE LOCATION OF ABANDONED SHALLOW–INTERMEDIATE INJECTION WELL
- MW-7A — WELL IDs WITH YELLOW HIGHLIGHTING INDICATE WELL IS USED FOR INJECTIONS
- 876.88 — GROUNDWATER ELEVATION (FT., MSL)

GROUNDWATER ELEVATION ISOCONTOUR INTERVAL IN FT., MSL (DASHED WHERE INFERRED)

ARROW INDICATES GENERALIZED GROUNDWATER FLOW DIRECTION

CONTOUR INTERVAL = 5.0 FT., MSL
AVERAGE HYDRAULIC GRADIENT = 0.015 FT/FT

NOTES:
1) FT., MSL = FEET, MEAN SEA LEVEL
2) NM = NOT MEASURED
3) * = INDICATES RESULT NOT INCLUDED IN GENERATION OF ISOCONTOURS

SOURCE:
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0 110 FT.
APPROXIMATE SCALE

FORMER DOVER ELECTRONICS FACILITY
KIRKWOOD, NEW YORK

# SHALLOW GROUNDWATER ELEVATION ISOCONTOURS SEPTEMBER 27, 2022

VERINA Engineering, P.C.

3

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N

MW-15
MW-21
NM
MW-5
MW-16
MW-17
MW-2
MW-38
855.86
MW-18
MW-19
MW-26
845.47
MW-27
MW-30
MW-37
MW-25R
844.61
MW-28
MW-25
MW-34
MW-39
844.51
MW-31
MW-35
844.46
MW-32
MW-33
MW-36
MW-24
MW-3
MW-22
857.35
MW-20
MW-6
NM
MW-29
MW-9
MW-14
875.55
MW-1
MW-23
MW-4
MW-10
MW-13
MW-12
873.40
MW-11
878.71
MW-7A
MW-7
MW-8

MP-2 (to approx. 45ft)
MP-1 (to approx. 45ft)
MP-3D
873.51
MP-11
MP-4R
MP-4
MP-12
MP-5R
MP-13
MP-14
MP-6S
MP-6D
865.37
(to approx. 55ft)
MP-7
MP-9
MP-8S
MP-10D
(to approx. 55ft)
MP-10S
MP-8D (to approx. 55ft)
844.45

IJ-7
IJ-2
IJ-8
IJ-3
IJ-9
IJ-4
IJ-10
IJ-1
IJ-5
IJ-6

875.00
870.00
865.00
860.00
855.00
850.00

FORMER ABOVEGROUND STORAGE TANK
BUILDING
FORMER DRUM STORAGE SHED
GRAVEL ROAD
PAVED SHOULDER
CABLE GUIDE RAIL

## EXPLANATION

- **MW-2** DESIGNATION AND APPROXIMATE LOCATION OF SHALLOW MONITORING WELL
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- **MP-6D** DESIGNATION AND APPROXIMATE LOCATION OF INTERMEDIATE MONITORING POINT
- **IJ-1** DESIGNATION AND APPROXIMATE LOCATION OF SHALLOW INJECTION WELL
- **IJ-6** DESIGNATION AND APPROXIMATE LOCATION OF SHALLOW–INTERMEDIATE INJECTION WELL
- **IJ-3** DESIGNATION AND APPROXIMATE LOCATION OF ABANDONED SHALLOW–INTERMEDIATE INJECTION WELL
- **MW-7A** WELL IDs WITH YELLOW HIGHLIGHTING INDICATE WELL IS USED FOR INJECTIONS

880.04 GROUNDWATER ELEVATION (FT., MSL)

GROUNDWATER ELEVATION ISOCONTOUR INTERVAL IN FT., MSL (DASHED WHERE INFERRED)

CONTOUR INTERVAL = 5.00 FT., MSL
AVERAGE HYDRAULIC GRADIENT = 0.027 FT/FT

NOTES:
1) FT., MSL = FEET, MEAN SEA LEVEL
2) NM = NOT MEASURED
3) * = INDICATES RESULT NOT INCLUDED IN GENERATION OF ISOCONTOURS

SOURCE:
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0 110 FT.
APPROXIMATE SCALE

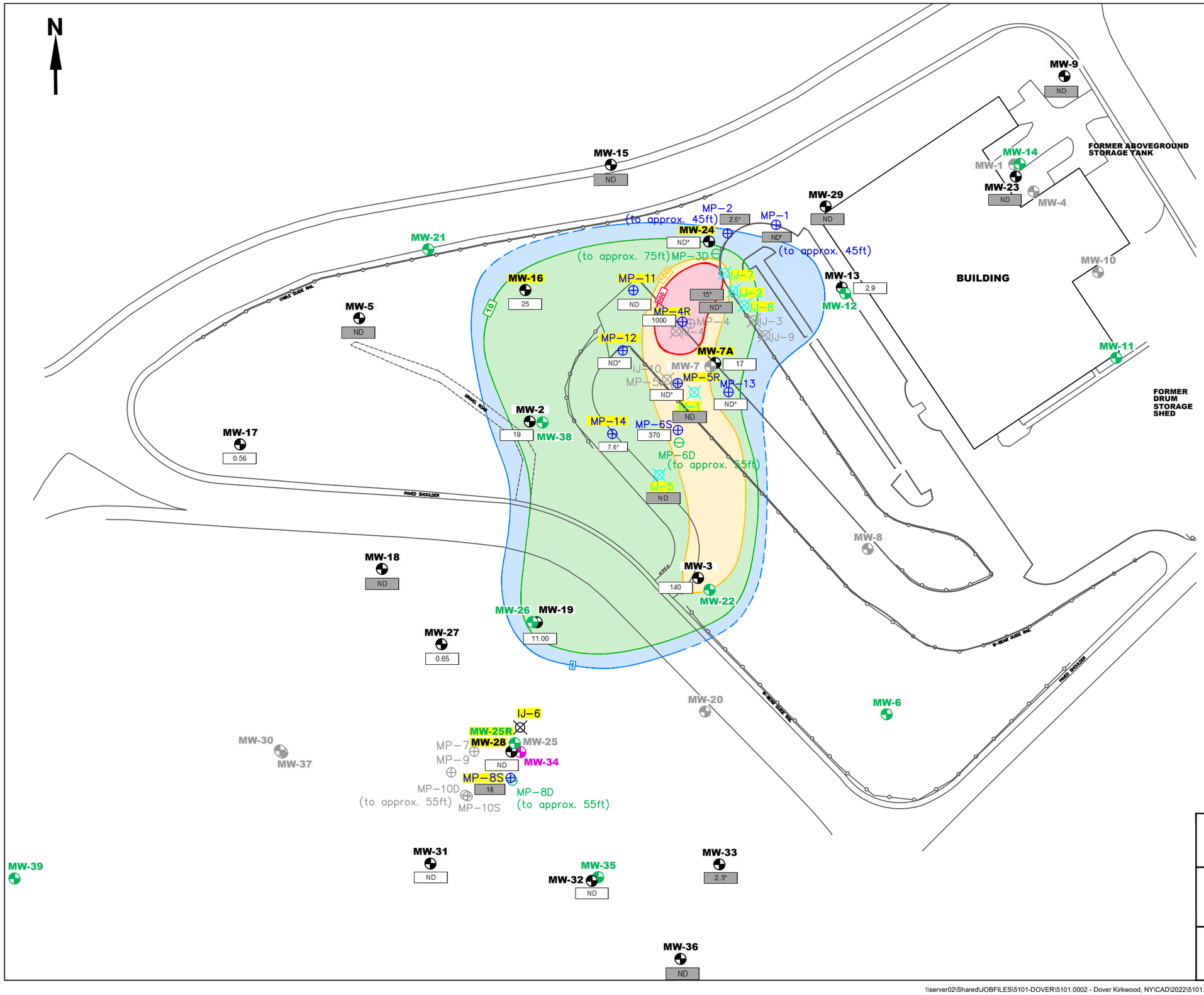
FORMER DOVER ELECTRONICS FACILITY
KIRKWOOD, NEW YORK

# INTERMEDIATE GROUNDWATER ELEVATION ISOCONTOURS SEPTEMBER 27, 2022

VERINA Engineering, P.C.

4

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## EXPLANATION

- **MW-2** — DESIGNATION AND APPROXIMATE LOCATION OF SHALLOW MONITORING WELL
- **MW-6** — DESIGNATION AND APPROXIMATE LOCATION OF INTERMEDIATE MONITORING WELL
- **MW-34** — DESIGNATION AND APPROXIMATE LOCATION OF DEEP MONITORING WELL
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- **IJ-3** — DESIGNATION AND APPROXIMATE LOCATION OF ABANDONED SHALLOW–INTERMEDIATE INJECTION WELL
- **MW-7A** — WELL IDs WITH YELLOW HIGHLIGHTING INDICATE WELL IS USED FOR INJECTIONS
- 17 — PCE CONCENTRATION IN ppb

- PCE > 1 ppb
- PCE > 10 ppb
- PCE > 100 ppb
- PCE > 500 ppb

NOTES:
1) PCE = TETRACHLOROETHENE
2) ppb = PARTS PER BILLION
3) * = SAMPLED BUT NOT INCLUDED IN ISOCONCENTRATION MAP
4) ND = NOT DETECTED
5) NM = NOT MEASURED
6) D = INDICATES RESULT OBTAINED FROM SAMPLE DILUTION
7) J = INDICATES ESTIMATED VALUE
8) ND INDICATES RESULT OBTAINED FROM HISTORIC DATA
9) ISOCONTOURS DASHED WHERE INFERRED

SOURCE:
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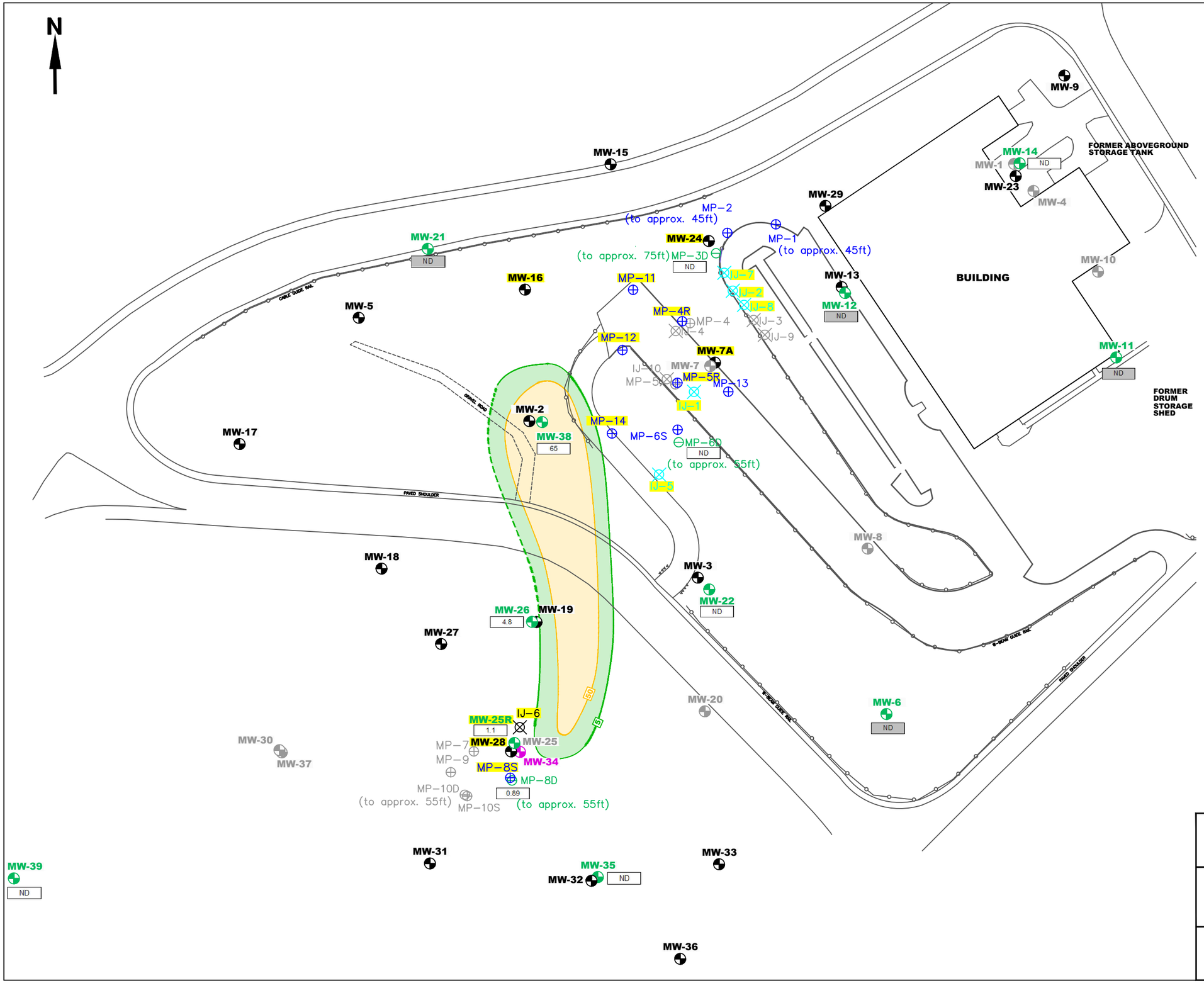
0 110 FT.
APPROXIMATE SCALE

FORMER DOVER ELECTRONICS FACILITY
KIRKWOOD, NEW YORK

# ESTIMATED PCE ISOCONCENTRATION MAP SHALLOW AQUIFER SEPTEMBER 2022

VERINA Engineering, P.C.

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## EXPLANATION

- **MW-2** — DESIGNATION AND APPROXIMATE LOCATION OF SHALLOW MONITORING WELL
- **MW-6** — DESIGNATION AND APPROXIMATE LOCATION OF INTERMEDIATE MONITORING WELL
- **MW-34** — DESIGNATION AND APPROXIMATE LOCATION OF DEEP MONITORING WELL
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- **MP-1** — DESIGNATION AND APPROXIMATE LOCATION OF SHALLOW MONITORING POINT
- **MP-10S** — DESIGNATION AND APPROXIMATE LOCATION OF ABANDONED MONITORING POINT
- **MP-6D** — DESIGNATION AND APPROXIMATE LOCATION OF INTERMEDIATE MONITORING POINT
- **IJ-1** — DESIGNATION AND APPROXIMATE LOCATION OF SHALLOW INJECTION WELL
- **IJ-6** — DESIGNATION AND APPROXIMATE LOCATION OF SHALLOW–INTERMEDIATE INJECTION WELL
- **IJ-3** — DESIGNATION AND APPROXIMATE LOCATION OF ABANDONED SHALLOW–INTERMEDIATE INJECTION WELL
- **MW-7A** — WELL IDs WITH YELLOW HIGHLIGHTING INDICATE WELL IS USED FOR INJECTIONS

4.8 — PCE CONCENTRATION IN ppb

PCE > 5 ppb

PCE > 10 ppb

NOTES:
1) PCE = TETRACHLOROETHENE
2) ppb = PARTS PER BILLION
3) * = SAMPLED BUT NOT INCLUDED IN ISOCONCENTRATION MAP
4) ND = NOT DETECTED
5) NM = NOT MEASURED
6) D = INDICATES RESULT OBTAINED FROM SAMPLE DILUTION
7) J = INDICATES ESTIMATED VALUE
8) ND INDICATES RESULT OBTAINED FROM HISTORIC DATA
9) ISOCONTOURS DASHED WHERE INFERRED

SOURCE:
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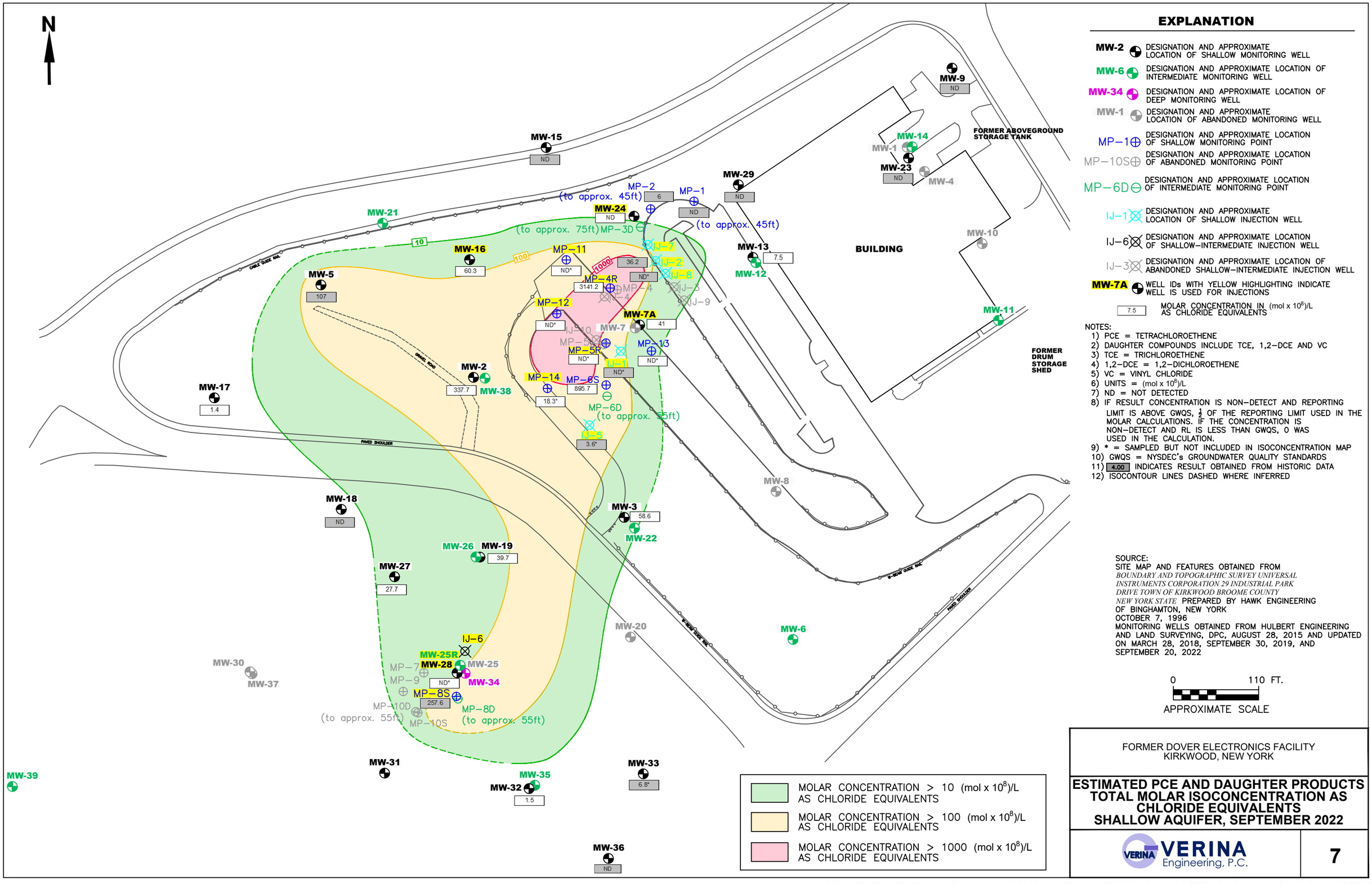
0 110 FT.
APPROXIMATE SCALE

FORMER DOVER ELECTRONICS FACILITY
KIRKWOOD, NEW YORK

# ESTIMATED PCE ISOCONCENTRATION MAP INTERMEDIATE AQUIFER SEPTEMBER 2022

VERINA Engineering, P.C.

6




## EXPLANATION

- **MW-2** — DESIGNATION AND APPROXIMATE LOCATION OF SHALLOW MONITORING WELL
- **MW-6** — DESIGNATION AND APPROXIMATE LOCATION OF INTERMEDIATE MONITORING WELL
- **MW-34** — DESIGNATION AND APPROXIMATE LOCATION OF DEEP MONITORING WELL
- **MW-1** — DESIGNATION AND APPROXIMATE LOCATION OF ABANDONED MONITORING WELL
- **MP-1** — DESIGNATION AND APPROXIMATE LOCATION OF SHALLOW MONITORING POINT
- **MP-10S** — DESIGNATION AND APPROXIMATE LOCATION OF ABANDONED MONITORING POINT
- **MP-6D** — DESIGNATION AND APPROXIMATE LOCATION OF INTERMEDIATE MONITORING POINT
- **IJ-1** — DESIGNATION AND APPROXIMATE LOCATION OF SHALLOW INJECTION WELL
- **IJ-6** — DESIGNATION AND APPROXIMATE LOCATION OF SHALLOW–INTERMEDIATE INJECTION WELL
- **IJ-3** — DESIGNATION AND APPROXIMATE LOCATION OF ABANDONED SHALLOW–INTERMEDIATE INJECTION WELL
- **MW-7A** — WELL IDs WITH YELLOW HIGHLIGHTING INDICATE WELL IS USED FOR INJECTIONS
- 7.5 — MOLAR CONCENTRATION IN (mol x $10^8$)/L AS CHLORIDE EQUIVALENTS

NOTES:
1) PCE = TETRACHLOROETHENE
2) DAUGHTER COMPOUNDS INCLUDE TCE, 1,2–DCE AND VC
3) TCE = TRICHLOROETHENE
4) 1,2–DCE = 1,2–DICHLOROETHENE
5) VC = VINYL CHLORIDE
6) UNITS = (mol x $10^8$)/L
7) ND = NOT DETECTED
8) IF RESULT CONCENTRATION IS NON–DETECT AND REPORTING LIMIT IS ABOVE GWQS, $\frac{1}{2}$ OF THE REPORTING LIMIT USED IN THE MOLAR CALCULATIONS. IF THE CONCENTRATION IS NON–DETECT AND RL IS LESS THAN GWQS, 0 WAS USED IN THE CALCULATION.
9) * = SAMPLED BUT NOT INCLUDED IN ISOCONCENTRATION MAP
10) GWQS = NYSDEC's GROUNDWATER QUALITY STANDARDS
11) 4.00 INDICATES RESULT OBTAINED FROM HISTORIC DATA
12) ISOCONTOUR LINES DASHED WHERE INFERRED

SOURCE:
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0 110 FT.
APPROXIMATE SCALE

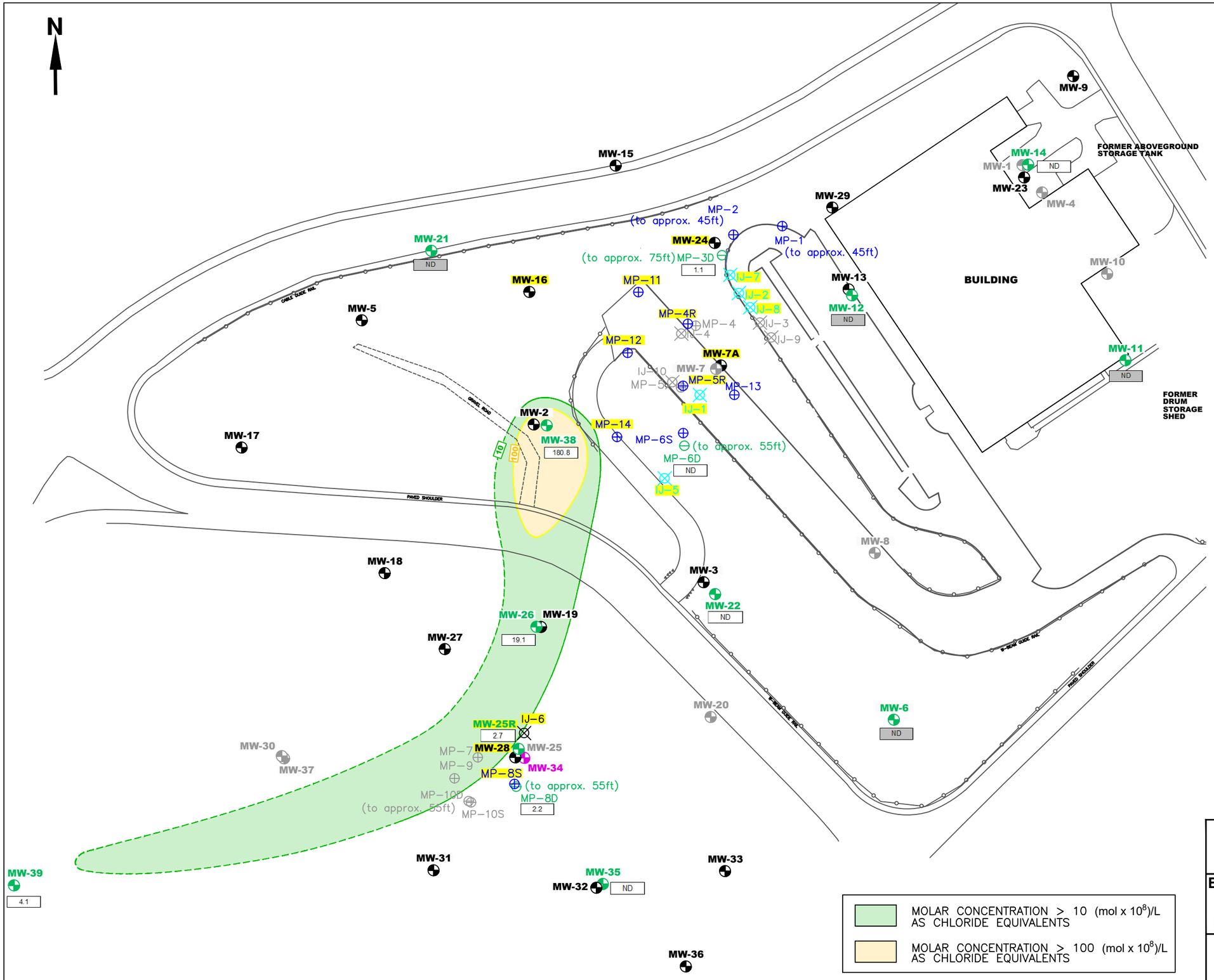
- MOLAR CONCENTRATION > 10 (mol x $10^8$)/L AS CHLORIDE EQUIVALENTS
- MOLAR CONCENTRATION > 100 (mol x $10^8$)/L AS CHLORIDE EQUIVALENTS
- MOLAR CONCENTRATION > 1000 (mol x $10^8$)/L AS CHLORIDE EQUIVALENTS

FORMER DOVER ELECTRONICS FACILITY
KIRKWOOD, NEW YORK

# ESTIMATED PCE AND DAUGHTER PRODUCTS TOTAL MOLAR ISOCONCENTRATION AS CHLORIDE EQUIVALENTS SHALLOW AQUIFER, SEPTEMBER 2022

VERINA Engineering, P.C.

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## EXPLANATION

- **MW-2** — DESIGNATION AND APPROXIMATE LOCATION OF SHALLOW MONITORING WELL
- **MW-6** — DESIGNATION AND APPROXIMATE LOCATION OF INTERMEDIATE MONITORING WELL
- **MW-34** — DESIGNATION AND APPROXIMATE LOCATION OF DEEP MONITORING WELL
- **MW-1** — DESIGNATION AND APPROXIMATE LOCATION OF ABANDONED MONITORING WELL
- **MP-1** — DESIGNATION AND APPROXIMATE LOCATION OF SHALLOW MONITORING POINT
- **MP-10S** — DESIGNATION AND APPROXIMATE LOCATION OF ABANDONED MONITORING POINT
- **MP-6D** — DESIGNATION AND APPROXIMATE LOCATION OF INTERMEDIATE MONITORING POINT
- **IJ-1** — DESIGNATION AND APPROXIMATE LOCATION OF SHALLOW INJECTION WELL
- **IJ-6** — DESIGNATION AND APPROXIMATE LOCATION OF SHALLOW–INTERMEDIATE INJECTION WELL
- **IJ-3** — DESIGNATION AND APPROXIMATE LOCATION OF ABANDONED SHALLOW–INTERMEDIATE INJECTION WELL
- **MW-7A** — WELL IDs WITH YELLOW HIGHLIGHTING INDICATE WELL IS USED FOR INJECTIONS
- **1.88** — MOLAR CONCENTRATION IN (mol x $10^8$)/L AS CHLORIDE EQUIVALENTS

NOTES:
1) PCE = TETRACHLOROETHENE
2) DAUGHTER COMPOUNDS INCLUDE TCE, 1,2–DCE AND VC
3) TCE = TRICHLOROETHENE
4) 1,2–DCE = 1,2–DICHLOROETHENE
5) VC = VINYL CHLORIDE
6) UNITS = (mol x $10^8$)/L
7) ND = NOT DETECTED
8) IF RESULT CONCENTRATION IS NON–DETECT AND REPORTING LIMIT IS ABOVE GWQS, ½ OF THE REPORTING LIMIT USED IN THE MOLAR CALCULATIONS. IF THE CONCENTRATION IS NON–DETECT AND RL IS LESS THAN GWQS, 0 WAS USED IN THE CALCULATION.
9) * = SAMPLED BUT NOT INCLUDED IN ISOCONCENTRATION MAP
10) GWQS = NYSDEC's GROUNDWATER QUALITY STANDARDS
11) 4.00 INDICATES RESULT OBTAINED FROM HISTORIC DATA
12) ISOCONTOURS DASHED WHERE INFERRED

SOURCE:
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0 110 FT.
APPROXIMATE SCALE

- MOLAR CONCENTRATION > 10 (mol x $10^8$)/L AS CHLORIDE EQUIVALENTS
- MOLAR CONCENTRATION > 100 (mol x $10^8$)/L AS CHLORIDE EQUIVALENTS

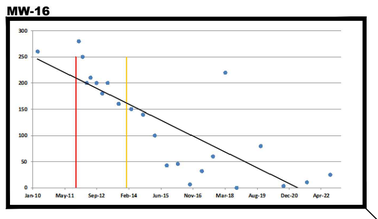
FORMER DOVER ELECTRONICS FACILITY
KIRKWOOD, NEW YORK

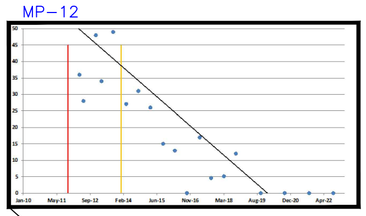
# ESTIMATED PCE AND DAUGHTER PRODUCTS TOTAL MOLAR ISOCONCENTRATION AS CHLORIDE EQUIVALENTS INTERMEDIATE AQUIFER, SEPTEMBER 2022

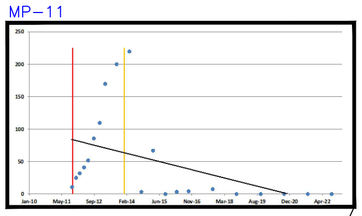
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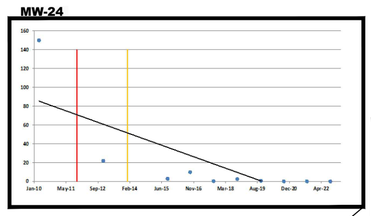
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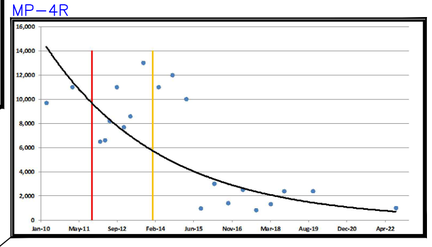
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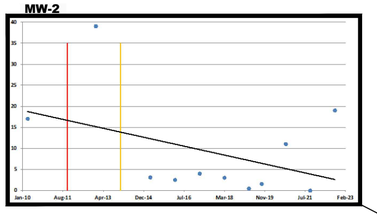


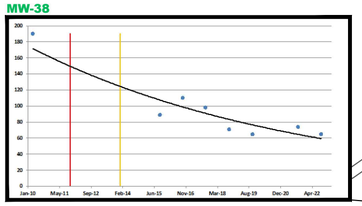



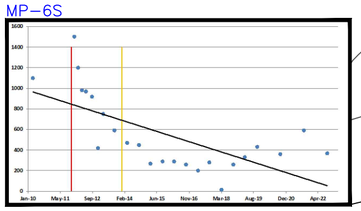



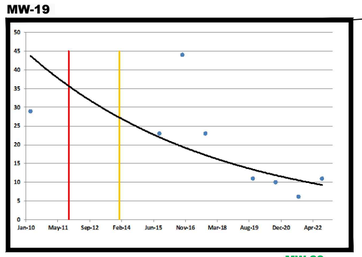



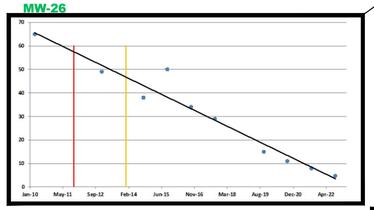



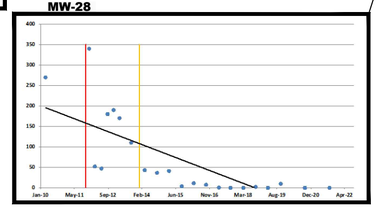



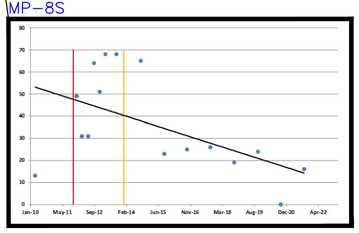



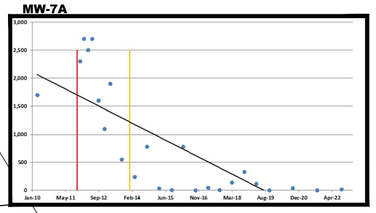



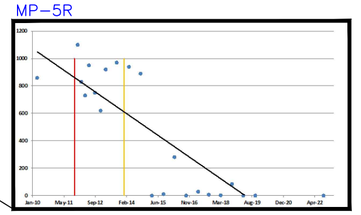



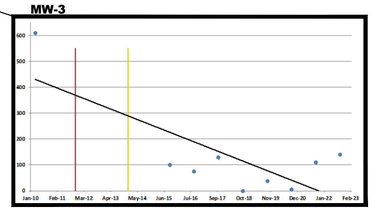



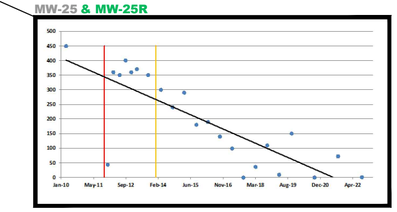




MW-15
MW-21
MW-16
MW-5
MW-17
MW-2
MW-38
MW-18
MW-19
MW-27
MW-26
MW-30
MW-37
MW-39
MW-31
MW-35
MW-32
MW-33
MW-36
MW-20
MW-6
MW-8
MW-3
MW-22
MW-9
MW-14
MW-1
MW-23
MW-4
MW-29
MW-10
MW-13
MW-12
MW-11
BUILDING
MW-24
MW-2
(to approx. 45ft)
MP-3D
(to approx. 75ft)
MP-1
(to approx. 45ft)
MP-11
MP-4R
MP-4
MP-12
MW-7A
MW-7
MP-5
MP-13
MP-5R
MP-14
MP-6S
MP-6D
(to approx. 55ft)
IJ-1
IJ-2
IJ-3
IJ-4
IJ-5
IJ-9
IJ-10
IJ-6
MW-25R
MW-28
MW-25
MW-34
MP-8S
MP-7
MP-9
MP-10D
(to approx. 55ft)
MP-10S
MP-8D
(to approx. 55ft)
GRAVEL ROAD
PAVED ROADWAY

N

## EXPLANATION

- **MW-2** — DESIGNATION AND APPROXIMATE LOCATION OF SHALLOW MONITORING WELL
- **MW-6** — DESIGNATION AND APPROXIMATE LOCATION OF INTERMEDIATE MONITORING WELL
- **MW-34** — DESIGNATION AND APPROXIMATE LOCATION OF DEEP MONITORING WELL
- **MW-1** — DESIGNATION AND APPROXIMATE LOCATION OF ABANDONED MONITORING WELL
- **MP-1** — DESIGNATION AND APPROXIMATE LOCATION OF SHALLOW MONITORING POINT
- **MP-10S** — DESIGNATION AND APPROXIMATE LOCATION OF ABANDONED MONITORING POINT
- **MP-6D** — DESIGNATION AND APPROXIMATE LOCATION OF INTERMEDIATE MONITORING POINT
- **IJ-1** — DESIGNATION AND APPROXIMATE LOCATION OF SHALLOW INJECTION WELL
- **IJ-6** — DESIGNATION AND APPROXIMATE LOCATION OF SHALLOW–INTERMEDIATE INJECTION WELL
- **MW-7A** — WELL IDs WITH YELLOW HIGHLIGHTING INDICATE WELL IS USED FOR INJECTIONS
- GENERALIZED GROUNDWATER FLOW DIRECTION IN BOTH SHALLOW AND INTERMEDIATE AQUIFERS

NOTES:
1) RED LINE = START OF FULL SCALE ISCO INJECTION PROGRAM AT THE SITE (MANUAL AND AUTOMATIC INJECTION METHODS)
2) YELLOW LINE = START OF EXPANDED MANUAL INJECTION PROGRAM AND DISCONTINUANCE OF AUTOMATIC INJECTION SYSTEM

SOURCE:
SITE MAP AND FEATURES OBTAINED FROM *BOUNDARY AND TOPOGRAPHIC SURVEY UNIVERSAL INSTRUMENTS CORPORATION 29 INDUSTRIAL PARK DRIVE TOWN OF KIRKWOOD BROOME COUNTY NEW YORK STATE* PREPARED BY HAWK ENGINEERING OF BINGHAMTON, NEW YORK OCTOBER 7, 1996

0 110 FT.
APPROXIMATE SCALE

FORMER DOVER ELECTRONICS FACILITY
KIRKWOOD, NEW YORK

**PCE TREND ANALYSIS IN SHALLOW AND INTERMEDIATE AQUIFERS**

VERINA Engineering, P.C.

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COLESVILLE ROAD

INDUSTRIAL PARK DRIVE

BUILDING

MW-9
MW-14
MW-1
MW-23
MW-4
MW-29
MW-10
MW-13
MW-12
MW-11

## EXPLANATION

MW-2 DESIGNATION AND APPROXIMATE LOCATION OF MONITORING WELL

MW-1 DESIGNATION AND APPROXIMATE LOCATION OF ABANDONED MONITORING WELL

BUILDING DEED RESTRICTION AREAS

EXTERIOR DEED RESTRICTION AREAS

### DEPTH TO PCE–AFFECTED SOIL

1. 4 FEET
2. 6 FEET
3. 8 FEET
4. 8 FEET
5. 5 FEET
6. 7 FEET
7. 3 FEET

SOURCE:
SITE MAP AND FEATURES OBTAINED FROM *BOUNDARY AND TOPOGRAPHIC SURVEY UNIVERSAL INSTRUMENTS CORPORATION 29 INDUSTRIAL PARK DRIVE TOWN OF KIRKWOOD BROOME COUNTY NEW YORK STATE* PREPARED BY HAWK ENGINEERING OF BINGHAMTON, NEW YORK
OCTOBER 7, 1996

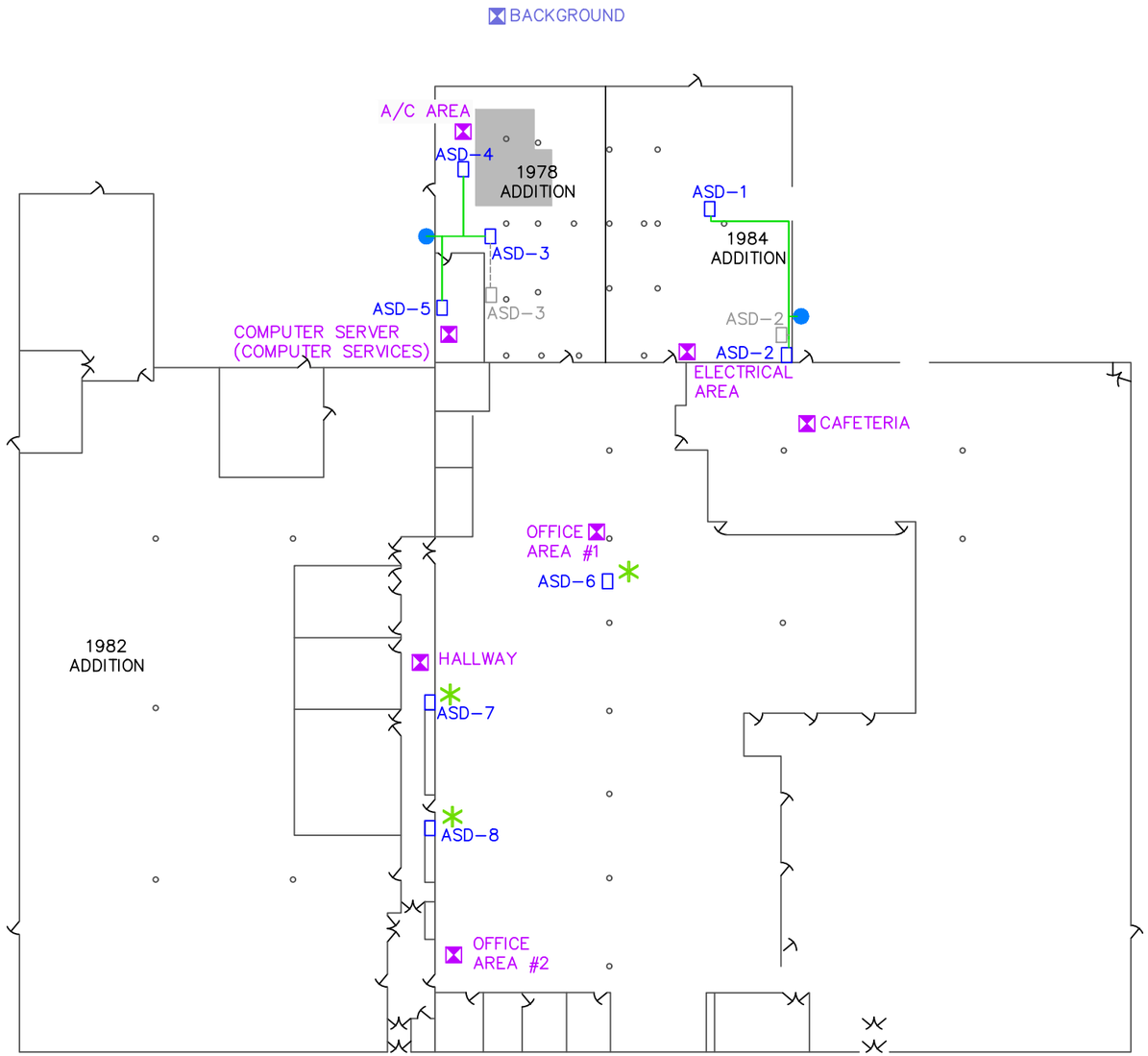
0 50 FT.
APPROXIMATE SCALE

FORMER DOVER ELECTRONICS FACILITY
KIRKWOOD, NEW YORK

# DEED RESTRICTION AND SOIL CAP SYSTEM AREAS

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## EXPLANATION

- EXISTING SUB-SLAB DEPRESSURIZATION POINT LOCATION
- EXISTING ASD PIPING RUN
- PREVIOUS SUB-SLAB DEPRESSURIZATION POINT LOCATION
- PREVIOUS ASD PIPING RUN
- EXTERIOR FAN AND EXHAUST LOCATION
- VERTICAL BUILDING POST
- INACCESSIBLE AREA
- INDOOR AIR SAMPLING LOCATION AND DESIGNATION
- AMBIENT (OUTDOOR) AIR SAMPLING LOCATION AND DESIGNATION
- DEDICATED FAN LOCATED ON RISER PIPE

SOURCE:
BUILDING LAYOUT DIGITIZED FROM PHOTOCOPY OF DRAWING FAXED FROM UNIVERSAL INSTRUMENTS CORPORATION FACILITIES DEPARTMENT.
NO FILE NAME OR SCALE PROVIDED.

DRAWING NOT TO SCALE

FORMER DOVER ELECTRONICS FACILITY
KIRKWOOD, NEW YORK

# ASD SYSTEM LOCATION AND LAYOUT MAP AND INDOOR AIR SAMPLING LOCATIONS

VERINA Engineering, P.C.

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# Tables

**Table 1 ISCO Manual Injection Summary, 2022 - Former Dover Electronics Site, Kirkwood, New York**

| Injection Well ID | Injection Date(s) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | January 17-19, 2022 | February 8-10, 2022 | March 8-10, 2022 | April 12-13, 2022 | May 17-18, 2022 | July 11-13, 2022 | | September 13-15, 2022 | | November 15-17, 2022 | |
| | **Volume Injected (gal)** | **Volume Injected (gal)** | **Volume Injected (gal)** | **Volume Injected (gal)** | **Volume Injected (gal)** | **Purple or Pink? (Y/N)** | **Volume Injected (gal)** | **Purple or Pink? (Y/N)** | **Volume Injected (gal)** | **Purple or Pink? (Y/N)** | **Volume Injected (gal)** |
| MW-7A | 30 | 50 | 20 | 25 | 25 | N | 25 | Y | 0 | N | 5 |
| MW-16 | 80 | 140 | 160 | 150 | 140 | Y | 0 | Y | 0 | Y | 0 |
| MW-24 | 40 | 55 | 50 | 45 | 45 | Y | 0 | Y | 0 | Y | 0 |
| MW-25R | 200 | 0 | 5 | 10 | 15 | N | 0 | N | 5 | N | 0 |
| MW-28 | 50 | 0 | 0 | 0 | 0 | N | 0 | N | 0 | N | 0 |
| MP-4 | 50 | 50 | 0 | 15 | 35 | N | 40 | Y | 0 | N | 5 |
| MP-5 | 80 | 100 | 55 | 80 | 60 | N | 65 | N | 40 | N | 20 |
| MP-8S | 50 | 0 | 0 | 0 | 0 | N/A | 0 | N/A | 0 | N/A | 0 |
| MP-11 | 50 | 55 | 45 | 50 | 65 | N | 65 | Y | 0 | N | 30 |
| MP-12 | 31 | 65 | 135 | 140 | 85 | Y | 0 | Y | 20 | Y | 0 |
| MP-14 | 0 | 95 | 75 | 100 | 90 | N | 60 | N | 35 | Y | 0 |
| IJ-1 | 5 | 70 | 80 | 60 | 95 | N | 65 | Y | 0 | Y | 0 |
| IJ-2 | 0 | 55 | 35 | 45 | 30 | Y | 0 | Y | 0 | Y | 0 |
| IJ-5 | 41 | 0 | 5 | 5 | 5 | Y | 0 | N | 10 | N | 5 |
| IJ-6 | 18 | 25 | 80 | 65 | 35 | Y | 0 | N | 40 | N | 30 |
| IJ-7 | 0 | 20 | 20 | 5 | 45 | Y | 0 | Y | 0 | N | 10 |
| IJ-8 | 25 | 20 | 20 | 5 | 30 | Y | 0 | N | 25 | Y | 0 |
| **Total Injected Volume (gal)** | **750** | **800** | **785** | **800** | **800** | | **320** | | **175** | | **105** |

**NOTES:**

Gal = Gallons

ISCO injection solution is a 10% by weight sodium permanganate solution.

**Table 2 Groundwater Elevation Data - September 2022, Former Dover Electronics Site, Kirkwood, New York**

| Monitoring Well/Point | Top of Casing (ft, msl) | Date | Depth to Water (ft, btoc) | Groundwater Elevation (ft, msl) | Total Depth (ft, btoc) | Screened Interval (ft, btoc) | Water Bearing Unit |
|---|---|---|---|---|---|---|---|
| MW-2 | 863.28 | 9/17/2022 | 9.88 | 853.40 | 16.35 | 5-15 | Shallow |
| MW-3 | 859.16 | 9/17/2022 | 3.50 | 855.66 | 14.19 | 5-15 | Shallow |
| MW-5 | 864.68 | 9/17/2022 | 9.34 | 855.34 | 10.06 | 5-20 | Shallow |
| MW-6 | 863.67 | 9/17/2022 | - | - | - | 15-35 | Intermediate |
| MW-7A | 882.74 | 9/17/2022 | 6.04 | 876.70 | 14.32 | 7-17 | Shallow |
| MW-9 | 923.94 | 9/17/2022 | 46.41 | 877.53 | 59.63 | 30-60 | Shallow |
| MW-11 | 918.87 | 9/17/2022 | 40.16 | 878.71 | 61.50 | 52-62 | Intermediate |
| MW-12 | 912.31 | 9/17/2022 | 38.91 | 873.40 | 72.58 | 63-73 | Intermediate |
| MW-13 | 912.14 | 9/17/2022 | 34.02 | 878.12 | 48.35 | 39-49 | Shallow |
| MW-14 | 915.40 | 9/17/2022 | 39.85 | 875.55 | 71.06 | 62-72 | Intermediate |
| MW-15 | 899.38 | 9/17/2022 | - | - | - | 36-46 | Shallow |
| MW-16 | 878.87 | 9/17/2022 | 19.20 | 859.67 | 34.40 | 18-28 | Shallow |
| MW-17 | 859.29 | 9/17/2022 | 12.60 | 846.69 | 20.00 | 8-18 | Shallow |
| MW-18 | 857.34 | 9/17/2022 | 11.65 | 845.69 | 12.14 | 8-18 | Shallow |
| MW-19 | 859.59 | 9/17/2022 | 13.79 | 845.80 | 18.95 | 8-18 | Shallow |
| MW-21 | 883.22 | 9/17/2022 | - | - | - | 31-41 | Intermediate |
| MW-22 | 861.62 | 9/17/2022 | 4.27 | 857.35 | 21.36 | 17-22 | Intermediate |
| MW-23 | 916.62 | 9/17/2022 | 39.11 | 877.51 | 49.98 | 40.5-50.5 | Shallow |
| MW-24 | 907.66 | 9/17/2022 | 35.79 | 871.87 | 39.29 | 35-45 | Shallow |
| MW-25R | 856.91 | 9/17/2022 | 12.30 | 844.61 | 37.08 | 34-39 | Intermediate |
| MW-26 | 859.04 | 9/17/2022 | 13.57 | 845.47 | 27.22 | 22.5-27.5 | Intermediate |
| MW-27 | 860.01 | 9/17/2022 | 13.10 | 846.91 | 25.64 | 16.5-26.5 | Shallow |
| MW-28 | 857.08 | 9/17/2022 | 0.83 | 856.25 | 23.25 | 15-25 | Shallow |
| MW-29 | 917.36 | 9/17/2022 | 43.13 | 874.23 | 48.70 | 39-49 | Shallow |
| MW-31 | 856.90 | 9/17/2022 | 11.55 | 845.35 | 21.70 | 13-23 | Shallow |
| MW-32 | 861.18 | 9/17/2022 | 12.42 | 848.76 | 23.24 | 15.1-25.1 | Shallow |
| MW-33 | 863.64 | 9/17/2022 | - | - | - | 15-25 | Shallow |
| MW-34 | 857.03 | 9/17/2022 | 0.00 | 857.03 | 52.35 | 53-58 | Deep |
| MW-35 | 856.89 | 9/17/2022 | 12.43 | 844.46 | 35.96 | 32-37 | Intermediate |
| MW-36 | 857.19 | 9/17/2022 | 13.03 | 844.16 | 22.43 | 14-24 | Shallow |
| MW-38 | 862.70 | 9/17/2022 | 6.84 | 855.86 | 23.61 | 20-25 | Intermediate |
| MW-39 | 857.76 | 9/17/2022 | 13.25 | 844.51 | 46.83 | 42-47 | Intermediate |
| MP-1 | 912.63 | 9/17/2022 | DRY | - | 36.60 | 31-41 | Shallow |
| MP-2 | 911.00 | 9/17/2022 | - | - | - | 34-44 | Shallow |
| MP-3D | 910.59 | 9/17/2022 | 37.08 | 873.51 | 72.86 | 46-56 | Intermediate |
| MP-4R | 880.73 | 9/17/2022 | 4.94 | 875.79 | 26.45 | 17-27 | Shallow |
| MP-5R | 881.88 | 9/17/2022 | 11.88 | 870.00 | 23.33 | 14-24 | Shallow |
| MP-6S | 875.67 | 9/17/2022 | 11.95 | 863.72 | 24.78 | 14-24 | Shallow |
| MP-6D | 873.83 | 9/17/2022 | 8.46 | 865.37 | 48.19 | 39-49 | Intermediate |
| MP-8S | 857.40 | 9/17/2022 | 13.13 | 844.27 | 14.66 | 13-23 | Shallow |
| MP-8D | 857.20 | 9/17/2022 | 12.75 | 844.45 | 52.50 | 44-54 | Intermediate |
| MP-11 | 875.80 | 9/17/2022 | 9.58 | 866.22 | 28.14 | 20-30 | Shallow |
| MP-12 | 876.60 | 9/17/2022 | 11.91 | 864.69 | 21.40 | 15-25 | Shallow |
| MP-13 | 884.30 | 9/17/2022 | 8.90 | 875.40 | 24.15 | 15-25 | Shallow |
| MP-14 | 867.80 | 9/17/2022 | 7.04 | 860.76 | 18.02 | 15-25 | Shallow |
| IJ-1 | - | 9/17/2022 | 12.51 | - | 19.90 | 15-25 | Shallow |
| IJ-2 | 908.90 | 9/17/2022 | 31.72 | 877.18 | 43.50 | 30-45 | Shallow |
| IJ-5 | - | 9/17/2022 | 3.18 | - | 24.76 | 10-25 | Shallow |
| IJ-6 | - | 9/17/2022 | 11.94 | - | 33.40 | 10-20, 30-40 | Shallow-Intermediate |
| IJ-7 | 909.00 | 9/17/2022 | 21.18 | 887.82 | 39.16 | 30-45 | Shallow |
| IJ-8 | 909.20 | 9/17/2022 | 12.46 | 896.74 | 40.97 | 30-45 | Shallow |

**Notes:**

-: Not Applicable

All wells gauged within a 24-hour period.

ft, btoc = Feet below top of inner well casing.

ft, msl = Feet above mean sea level.

**Table 3 Annual Groundwater Monitoring Matrix, Former Dover Electronics Site, Kirkwood, New York**

| Monitoring Well ID | Water Bearing Unit | Well Included in Annual Sampling Program (Sept.) |
|---|---|---|
| MW-2 | Shallow | X |
| MW-3 | Shallow | X |
| MW-5 | Shallow | |
| MW-6 | Intermediate | |
| MW-7A | Shallow | X |
| MW-8 | Abandoned | |
| MW-9 | Shallow | |
| MW-11 | Intermediate | |
| MW-12 | Intermediate | |
| MW-13 | Shallow | X |
| MW-14 | Intermediate | X |
| MW-15 | Shallow | |
| MW-16 | Shallow | X |
| MW-17 | Shallow | X |
| MW-18 | Shallow | |
| MW-19 | Shallow | X |
| MW-20 | Abandoned | |
| MW-21 | Intermediate | |
| MW-22 | Intermediate | X |
| MW-23 | Shallow | |
| MW-24 | Shallow | X |
| MW-25R | Intermediate | X |
| MW-26 | Intermediate | X |
| MW-27 | Shallow | X |
| MW-28 | Shallow | X |
| MW-29 | Shallow | |
| MW-30 | Abandoned | |
| MW-31 | Shallow | X |
| MW-32 | Shallow | X |
| MW-33 | Shallow | |
| MW-34 | Deep | |
| MW-35 | Intermediate | X |
| MW-36 | Shallow | |
| MW-37 | Abandoned | |
| MW-38 | Intermediate | X |
| MW-39 | Intermediate | X |
| MP-1 | Shallow | |
| MP-2 | Shallow | |
| MP-3D | Intermediate | X |
| MP-4 | Abandoned | |
| MP-4R | Shallow | X |
| MP-5 | Abandoned | |
| MP-5R | Shallow | X |
| MP-6S | Shallow | X |
| MP-6D | Intermediate | X |
| MP-7 | Abandoned | |
| MP-8S | Shallow | |
| MP-8D | Intermediate | X |
| MP-9 | Abandoned | |
| MP-10S | Abandoned | |
| MP-10D | Abandoned | |
| MP-11 | Shallow | X |
| MP-12 | Shallow | X |
| MP-13 | Shallow | X |
| MP-14 | Shallow | X |
| IJ-1 | Shallow | |
| IJ-2 | Shallow | |
| IJ-3 | Abandoned | |
| IJ-4 | Abandoned | |
| IJ-5 | Shallow | |
| IJ-6 | Shallow-Intermediate | |
| IJ-7 | Shallow | |
| IJ-8 | Shallow | |
| IJ-9 | Abandoned | |
| IJ-10 | Abandoned | |

**Notes:**

X = Well is sampled as part of the annual sampling program

**Table 4 2022 Residual Permanganate Concentrations, Former Dover Electronics Site, Kirkwood, New York**

| Monitoring Well ID | Water Bearing Unit | Permanganate Concentration September 2022 (mg/L) |
|---|---|---|
| MW-2 | Shallow | NS |
| MW-3 | Shallow | 1.8 |
| MW-5 | Shallow | NS |
| MW-6 | Intermediate | NS |
| MW-7A | Shallow | 40 |
| MW-9 | Shallow | NS |
| MW-11 | Intermediate | NS |
| MW-12 | Intermediate | NS |
| MW-13 | Shallow | NA |
| MW-14 | Intermediate | NA |
| MW-15 | Shallow | NS |
| MW-16 | Shallow | 0.0225 |
| MW-17 | Shallow | NA |
| MW-18 | Shallow | NS |
| MW-19 | Shallow | NA |
| MW-21 | Intermediate | NS |
| MW-22 | Intermediate | NA |
| MW-23 | Shallow | NS |
| MW-24 | Shallow | 12 |
| MW-25/MW-25R | Intermediate | NA |
| MW-26 | Intermediate | NA |
| MW-27 | Shallow | NA |
| MW-28 | Shallow | NA |
| MW-29 | Shallow | NS |
| MW-31 | Shallow | NA |
| MW-32 | Shallow | NA |
| MW-33 | Shallow | NS |
| MW-34 | Deep | NS |
| MW-35 | Intermediate | NA |
| MW-36 | Shallow | NS |
| MW-38 | Intermediate | NA |
| MW-39 | Intermediate | NA |
| MP-1 | Shallow | NS |
| MP-2 | Shallow | NS |
| MP-3D | Intermediate | NA |
| MP-4R | Shallow | 1.5 |
| MP-5R | Shallow | 592 |
| MP-6S | Shallow | 2.5 |
| MP-6D | Intermediate | NA |
| MP-8S | Shallow | NS |
| MP-8D | Intermediate | NA |
| MP-11 | Shallow | 60 |
| MP-12 | Shallow | 64 |
| MP-13 | Shallow | NA |
| MP-14 | Shallow | 14 |
| IJ-1 | Shallow | NS |
| IJ-2 | Intermediate | NS |
| IJ-5 | Shallow | NS |
| IJ-6 | Shallow-Intermediate | NS |
| IJ-7 | Shallow | NS |
| IJ-8 | Shallow | NS |

**Notes:**

mg/L = Miligrams per liter

NA = Purge water was clear and water was not analyzed for residual permanganate

NS= Well not sampled during given sampling event

**Table 5 Historical Groundwater Analytical Results, Former Dover Electronics Site, Kirkwood, New York**

| Sample Location | Sampling Date | Analysis | PCE (µg/L) | TCE (µg/L) | 1,2-DCE Total (µg/L) | Vinyl Chloride (µg/L) |
|---|---|---|---|---|---|---|
| **MW-1** | 11/18/1998 | TAL/TCL | 170 | 11 | 21 | 8.1 |
| **MW-2** | 11/13/1998 | SSPL VOCs | 320 | 3.6J | 4.4J | NA |
| | 09/21/2001 | SSPL VOCs | 22 | 1J | 1J | <1.8 |
| | 12/04/2001 | SSPL VOCs | 150 | 5 | 5 | <6 |
| | 01/29/2002 | SSPL VOCs | 10 | 0.3J | 0.05J | <0.5 |
| | 04/03/2002 | SSPL VOCs | 7 | 0.2J | <0.5 | <0.5 |
| | 09/11/2002 | SSPL VOCs | 100 | 6 | <3 | <3 |
| | 03/26/2003 | SSPL VOCs | 9 | 0.2J | 0.09J | <0.5 |
| | 09/17/2003 | SSPL VOCs | 22 | 0.75 | 0.63 | <0.5 |
| | 04/07/2004 | SSPL VOCs | 14 | 0.26J | <0.5 | <0.5 |
| | 09/21/2004 | SSPL VOCs | 9.5 | 1.2 | 0.8 | <0.5 |
| | 09/28/2005 | SSPL VOCs | 160 | 13 | 5.4 | <2 |
| | 02/01/2006 | Phase II ISCO Field Test | | | | |
| | 03/08/2006 | Phase II ISCO Field Test | | | | |
| | 04/03/2006 | SSPL VOCs | 6.3 | <5.0 | <5.0 | <5.0 |
| | 04/05/2006 | Phase II ISCO Field Test | | | | |
| | 09/20/2006 | SSPL VOCs | 9.7 | 0.66J | <5.0 | <5.0 |
| | 04/03/2007 | SSPL VOCs | 10 | 0.61J | 0.33J | <5.0 |
| | 06/13/2007 | Phase III ISCO Field Test | | | | |
| | 08/29/2007 | Phase III ISCO Field Test | | | | |
| | 10/16/2007 | SSPL VOCs | 160 | 11 | 3.2J | <5.0 |
| | 11/27/2007 | Phase III ISCO Field Test | | | | |
| | 03/26/2008 | SSPL VOCs | 3.0 J | <5.0 | <5.0 | <5.0 |
| | 04/01/2008 | Phase III ISCO Field Test | | | | |
| | 07/24/2008 | Phase III ISCO Field Test | | | | |
| | 10/01/2008 | SSPL VOCs | 120 | 8 | 2.0J | <5.0 |
| | 10/03/2008 | Phase III ISCO Field Test | | | | |
| | 03/19/2009 | SSPL VOCs | 16 | 1.0J | <5.0 | <5.0 |
| | 09/23/2009 | SSPL VOCs | 160 | 11 | 2.5 J | <5.0 |
| | 03/17/2010 | SSPL VOCs | 17.0 | 2.0 J | 1.2 J | <5.0 |
| | 12/27/2012 | SSPL VOCs | 39 | 5.3 | 3.3 J | <5.0 |
| | 03/16/2015 | SSPL VOCs | 3.1 J | 1.8 J | 1.6 J | <5.0 |
| | 03/15/2016 | SSPL VOCs | 2.5 | 4.1 | 4.9 | <5.0 |
| | 03/20/2017 | SSPL VOCs | 4.0 | 2.6 | 0.74 J | <1.0 |
| | 03/19/2018 | SSPL VOCs | 3.0 | 1.4 | 0.31 J | <1.0 |
| | 03/18/2019 | SSPL VOCs | 0.43 J | 2.4 | 2.6 | <1.0 |
| | 09/24/2019 | SSPL VOCs | 1.5 | 3.7 | 4.2 | <1.0 |
| | 09/16/2020 | SSPL VOCs | 11 | 4.4 | 4.0 | <1.0 |
| | 09/16/2021 | SSPL VOCs | 1.0 U | 2.8 | 3.2 | 1.0 U |
| | 09/15/2022 | SSPL VOCs | 19 | 3.5 | 2.3 | <1.0 |
| **MW-3** | 11/12/1998 | SSPL VOCs | 200 | <5.0 | <5.0 | ND |
| | 09/20/2001 | SSPL VOCs | 11 | <0.5 | <0.5 | <0.5 |
| | 09/13/2002 | SSPL VOCs | 110 | 3J | 5 | <2.0 |
| | 03/12/2010 | SSPL VOCs | 610 D | 7.2 | 10.0 | <5.0 |
| | 09/20/2015 | SSPL VOCs | 100 | 1.4 J | 2.8 J | <5.0 |
| | 09/14/2016 | SSPL VOCs | 75 | 1.3 | 1.1 | <1.0 |
| | 09/12/2017 | SSPL VOCs | 130 | 0.60 J | 2.0 | <1.0 |
| | 09/19/2018 | SSPL VOCs | <1.0 | <1.0 | <1.0 | <1.0 |
| | 09/24/2019 | SSPL VOCs | 38 | <1.0 | <1.0 | <1.0 |
| | 09/16/2020 | SSPL VOCs | 5.6 | <1.0 | <1.0 | <1.0 |
| | 09/16/2021 | SSPL VOCs | 110 | <1.0 | <1.0 | <1.0 |
| | 09/15/2022 | SSPL VOCs | 140 | <1.0 | <1.0 | <1.0 |
| **MW-5** | 11/13/1998 | SSPL VOCs | 14 | <5.0 | <5.0 | ND |
| | 09/21/2001 | SSPL VOCs | 12 | <0.5 | <0.5 | <0.5 |
| | 09/13/2002 | SSPL VOCs | 13 B | 0.2 J | <0.5 | <0.5 |
| | 03/18/2010 | SSPL VOCs | 31 | <5.0 | <5.0 | <5.0 |
| | 11/18/2014 | SSPL VOCs | 45 | 2.3 J | <5.0 | <5.0 |
| | 09/21/2015 | SSPL VOCs | 44 | 0.38 J | <5.0 | <5.0 |
| **MW-6** | 11/11/1998 | SSPL VOCs | <5.0 | <5.0 | <5.0 | ND |
| | 09/21/2001 | SSPL VOCs | <0.5 | <0.5 | <0.5 | <0.5 |
| | 09/13/2002 | SSPL VOCs | 0.2JB | <0.5 | <0.5 | <0.5 |
| | 03/18/2010 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 03/14/2013 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 09/24/2013 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 09/18/2014 | SSPL VOCs | <5.0 (<5.0) | <5.0 (<5.0) | <5.0 (<5.0) | <5.0 (<5.0) |
| **MW-7A** | 11/16/1998 | SSPL VOCs | 1,300 | <5.0 | <50 | ND |
| | 09/19/2001 | SSPL VOCs | 3,600 | <130 | <130 | <130 |
| | 12/04/2001 | SSPL VOCs | 6,000 | <160 | <160 | <160 |
| | 01/28/2002 | SSPL VOCs | 3,900 | <84 | <84 | <84 |
| | 04/02/2002 | SSPL VOCs | 3,800 | 38J | <170 | <170 |
| | 09/11/2002 | SSPL VOCs | 3,600 | <83 | <83 | <83 |
| | 03/25/2003 | SSPL VOCs | 7,700 | 53J | <250 | <250 |
| | 09/17/2003 | SSPL VOCs | 2,700 | 9.9J | <83 | <83 |
| | 04/07/2004 | SSPL VOCs | 6,200 | 3.2J | 0.6J | <130 |
| | 09/24/2004 | SSPL VOCs | 4,100 | <130 | <130 | <130 |
| | 09/28/2005 | SSPL VOCs | 2,700 | 2.4 | <2 | <2 |
| | 02/01/2006 | Phase II ISCO Field Test | | | | |
| | 03/06/2006 | SSPL VOCs | 2,900D | <50 | <50 | <50 |
| | 03/08/2006 | Phase II ISCO Field Test | | | | |
| | 04/03/2006 | SSPL VOCs | 1,000 | <5.0 | <5.0 | <5.0 |
| | 04/05/2006 | Phase II ISCO Field Test | | | | |
| | 09/20/2006 | SSPL VOCs | 1,900 | <50 | 3.9 J | <50 |
| | 04/03/2007 | SSPL VOCs | 2,400D | 4.5 J | <50 | <50 |
| | 06/13/2007 | Phase III ISCO Field Test | | | | |
| | 08/29/2007 | Phase III ISCO Field Test | | | | |
| | 10/16/2007 | SSPL VOCs | 2,000 | <100 | <100 | <100 |
| | 11/27/2007 | Phase III ISCO Field Test | | | | |
| | 03/25/2008 | SSPL VOCs | < 5.0 | <5.0 | < 5.0 | < 5.0 |
| | 04/01/2008 | Phase III ISCO Field Test | | | | |
| | 07/24/2008 | Phase III ISCO Field Test | | | | |
| | 10/01/2008 | SSPL VOCs | 1,600D | 1.8 J | 2.2 J | <25 |
| | 10/03/2008 | Phase III ISCO Field Test | | | | |
| | 03/19/2009 | SSPL VOCs | 2,100D | <50 | <50 | <50 |
| | 09/24/2009 | SSPL VOCs | 3,700 | <100 | <100 | <100 |
| | 03/17/2010 | SSPL VOCs | 1,700 | <50 | <50 | <50 |
| | 12/19/2011 | SSPL VOCs | 2300 D | 3.7 J | <50 | <100 |
| | 02/14/2012 | SSPL VOCs | 2,700 | 5.8 J | <100 | <100 |
| | 04/18/2012 | SSPL VOCs | 2,500 | <100 | <100 | <100 |
| | 06/19/2012 | SSPL VOCs | 2,700 | <100 | <100 | <100 |
| | 09/20/2012 | SSPL VOCs | 1,600 | <50 | <50 | <50 |
| | 12/20/2012 | SSPL VOCs | 1,100 | <50 | <50 | <50 |
| | 03/15/2013 | SSPL VOCs | 1900 D | <100 | <100 | <100 |
| | 09/04/2013 | SSPL VOCs | 550 | <25 | <25 | <25 |
| | 03/18/2014 | SSPL VOCs | 240 | <10 | <10 | <10 |
| | 09/17/2014 | SSPL VOCs | 780 D | <25 | <25 | <25 |
| | 03/17/2015 | SSPL VOCs | 35 (37) | <5.0 (<5.0) | <5.0 (<5.0) | <5.0 (<5.0) |
| | 09/22/2015 | SSPL VOCs | 4.1 J | <25 | <25 | <25 |
| | 03/15/2016 | SSPL VOCs | 780 D | 0.22 J | <5.0 | <5.0 |
| | 09/15/2016 | SSPL VOCs | <5.0 (<5.0) | <5.0 (<5.0) | <5.0 (<5.0) | <5.0 (<5.0) |
| | 03/23/2017 | SSPL VOCs | 44 | <5.0 | <5.0 | <5.0 |
| | 09/13/2017 | SSPL VOCs | 6.2 | <1.0 | <1.0 | <1.0 |
| | 03/21/2018 | SSPL VOCs | 140 | <1.0 | <1.0 | <1.0 |
| | 09/20/2018 | SSPL VOCs | 330 D | <1.0 | <1.0 | <1.0 |
| | 03/19/2019 | SSPL VOCs | 120 | <1.0 | <1.0 | <1.0 |
| | 09/26/2019 | SSPL VOCs | 0.87 J (0.66 J) | <1.0 (<1.0) | <1.0 (<1.0) | <1.0 (<1.0) |
| | 09/16/2020 | SSPL VOCs | 38 | <1.0 | <1.0 | <1.0 |
| | 09/16/2021 | SSPL VOCs | <1.0 | <1.0 | <1.0 | <1.0 |
| | 09/13/2022 | SSPL VOCs | 17 | <1.0 | <1.0 | <1.0 |

See notes on last page

| Sample Location | Sampling Date | Analysis | PCE (µg/L) | TCE (µg/L) | 1,2-DCE Total (µg/L) | Vinyl Chloride (µg/L) |
|---|---|---|---|---|---|---|
| MW-8 | 11/16/1998 | SSPL VOCs | <5.0 | <5.0 | <5.0 | ND |
| | 09/21/2001 | SSPL VOCs | <0.5 | <0.5 | <0.5 | <0.5 |
| | 09/13/2002 | SSPL VOCs | <0.5 | <0.5 | <0.5 | <0.5 |
| | 03/18/2010 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 12/28/2012 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 09/24/2013 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| MW-9 | 11/18/1998 | SSPL VOCs | <5.0 | <5.0 | <5.0 | ND |
| | 09/19/2001 | SSPL VOCs | <0.5 | <0.5 | <0.5 | <0.5 |
| | 09/13/2002 | SSPL VOCs | 0.07 JB | <0.5 | <0.5 | <0.5 |
| | 03/16/2010 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| MW-11 | 11/13/1998 | SSPL VOCs | <5.0 | <5.0 | <5.0 | ND |
| | 09/19/2001 | SSPL VOCs | <0.5 | <0.5 | <0.5 | <0.5 |
| | 09/13/2002 | SSPL VOCs | 0.1 JB | <0.5 | <0.5 | <0.5 |
| | 03/18/2010 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 09/18/2014 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| MW-12 | 11/17/1998 | SSPL VOCs | <5.0 | <5.0 | <5.0 | ND |
| | 02/02/1999 | SSPL VOCs | <5.0 | <5.0 | <5.0 | ND |
| | 09/19/2001 | SSPL VOCs | <0.5 | <0.5 | <0.5 | <0.5 |
| | 12/03/2001 | SSPL VOCs | 0.09J | <0.5 | <0.5 | <0.5 |
| | 01/28/2002 | SSPL VOCs | 0.09J | <0.5 | <0.5 | <0.5 |
| | 04/02/2002 | SSPL VOCs | <0.5 | 0.03J | <0.5 | <0.5 |
| | 09/10/2002 | SSPL VOCs | 0.2J | <0.5 | <0.5 | <0.5 |
| | 03/25/2003 | SSPL VOCs | 0.1J | <0.5 | <0.5 | <0.5 |
| | 09/17/2003 | SSPL VOCs | 0.16J | <0.5 | <0.5 | <0.5 |
| | 04/08/2004 | SSPL VOCs | 0.26J | <0.5 | <0.5 | <0.5 |
| | 09/24/2004 | SSPL VOCs | 0.27J | <0.5 | <0.5 | <0.5 |
| | 09/28/2005 | SSPL VOCs | <1.0 | <1.0 | <2.0 | <2.0 |
| | 02/01/2006 | Phase II ISCO Field Test | | | | |
| | 03/08/2006 | Phase II ISCO Field Test | | | | |
| | 04/03/2006 | SSPL VOCs | 1.1 J | <5.0 | <5.0 | <5.0 |
| | 04/05/2006 | Phase II ISCO Field Test | | | | |
| | 09/20/2006 | SSPL VOCs | 0.46J | <5.0 | <5.0 | <5.0 |
| | 04/03/2007 | SSPL VOCs | 0.55J | <5.0 | <5.0 | <5.0 |
| | 06/13/2007 | Phase III ISCO Field Test | | | | |
| | 08/29/2007 | Phase III ISCO Field Test | | | | |
| | 10/16/2007 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 11/27/2007 | Phase III ISCO Field Test | | | | |
| | 03/25/2008 | SSPL VOCs | 4.4J | <5.0 | <5.0 | <5.0 |
| | 04/01/2008 | Phase III ISCO Field Test | | | | |
| | 07/24/2008 | Phase III ISCO Field Test | | | | |
| | 10/02/2008 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 10/03/2008 | Phase III ISCO Field Test | | | | |
| | 03/19/2009 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 09/25/2009 | SSPL VOCs | 0.58J | <5.0 | <5.0 | <5.0 |
| | 03/19/2010 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 12/27/2012 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 09/18/2014 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| MW-13 | 11/12/1998 | SSPL VOCs | 13 | <5.0 | <5.0 | ND |
| | 02/02/1999 | SSPL VOCs | 9.7 | <5.0 | <5.0 | ND |
| | 09/19/2001 | SSPL VOCs | 13 | 0.3J | <0.5 | <0.5 |
| | 12/03/2001 | SSPL VOCs | 14 | 0.3J | 0.06J | <0.5 |
| | 01/28/2002 | SSPL VOCs | 13 | <0.5 | <0.5 | <0.5 |
| | 04/02/2002 | SSPL VOCs | 8 | 0.2J | <0.5 | <0.5 |
| | 09/10/2002 | SSPL VOCs | 7 | 0.2J | <0.5 | <0.5 |
| | 03/25/2003 | SSPL VOCs | 20 | 0.5J | 0.9 | <0.5 |
| | 09/17/2003 | SSPL VOCs | 12 | 0.25J | <0.5 | <0.5 |
| | 04/08/2004 | SSPL VOCs | 23 | 0.16J | <0.5 | <0.5 |
| | 09/24/2004 | SSPL VOCs | 10 | 0.26J | <0.5 | <0.5 |
| | 09/28/2005 | SSPL VOCs | 4 | <1 | <2 | <2 |
| | 02/01/2006 | Phase II ISCO Field Test | | | | |
| | 03/08/2006 | Phase II ISCO Field Test | | | | |
| | 04/03/2006 | SSPL VOCs | 1.4 J | <5.0 | <5.0 | <5.0 |
| | 04/05/2006 | Phase II ISCO Field Test | | | | |
| | 09/20/2006 | SSPL VOCs | 11 | <5.0 | <5.0 | <5.0 |
| | 04/03/2007 | SSPL VOCs | 14 | 0.31J | <5.0 | <5.0 |
| | 06/13/2007 | Phase III ISCO Field Test | | | | |
| | 08/29/2007 | Phase III ISCO Field Test | | | | |
| | 10/16/2007 | SSPL VOCs | 11 | 0.32 J | <5.0 | <5.0 |
| | 11/27/2007 | Phase III ISCO Field Test | | | | |
| | 03/25/2008 | SSPL VOCs | 3.6J | <5.0 | <5.0 | <5.0 |
| | 04/01/2008 | Phase III ISCO Field Test | | | | |
| | 07/24/2008 | Phase III ISCO Field Test | | | | |
| | 10/02/2008 | SSPL VOCs | 5.2 | <5.0 | <5.0 | <5.0 |
| | 10/03/2008 | Phase III ISCO Field Test | | | | |
| | 03/19/2009 | SSPL VOCs | <1 | <5.0 | <5.0 | <5.0 |
| | 09/25/2009 | SSPL VOCs | 13 | <5.0 | <5.0 | <5.0 |
| | 03/19/2010 | SSPL VOCs | 15 | <5.0 | <5.0 | <5.0 |
| | 09/22/2015 | SSPL VOCs | 17 | 0.59 J | <5.0 | <5.0 |
| | 09/14/2016 | SSPL VOCs | 33 | 1.4 | <1.0 | <1.0 |
| | 09/11/2017 | SSPL VOCs | 19 | 0.60 J | <1.0 | <1.0 |
| | 09/20/2018 | SSPL VOCs | 13 | 0.99 J | <1.0 | <1.0 |
| | 09/25/2019 | SSPL VOCs | 6.3 | 0.54 J | <1.0 | <1.0 |
| | 09/17/2020 | SSPL VOCs | 3.1 | 0.41 J | <1.0 | <1.0 |
| | 09/16/2021 | SSPL VOCs | 14 | 0.56 J | <1.0 | <1.0 |
| | 09/16/2022 | SSPL VOCs | 2.9 | 0.22 J | <1.0 | <1.0 |
| MW-14 | 11/17/1998 | SSPL VOCs | <5.0 | <5.0 | <5.0 | ND |
| | 09/19/2001 | SSPL VOCs | 0.3J | <0.5 | <0.5 | <0.5 |
| | 09/13/2002 | SSPL VOCs | 0.5J | <0.5 | <0.5 | <0.5 |
| | 03/18/2010 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 03/23/2017 | SSPL VOCs | 15 | <1.0 | <1.0 | <1.0 |
| | 09/26/2019 | SSPL VOCs | <1.0 | <1.0 | <1.0 | <1.0 |
| | 09/15/2020 | SSPL VOCs | <1.0 | <1.0 | <1.0 | <1.0 |
| | 09/15/2021 | SSPL VOCs | <1.0 | <1.0 | <1.0 | <1.0 |
| | 09/16/2022 | SSPL VOCs | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-15 | 02/04/1999 | SSPL VOCs | <5.0 | <5.0 | <5.0 | ND |
| | 03/11/1999 | SSPL VOCs | <5.0 | <5.0 | <5.0 | ND |
| | 09/26/2001 | SSPL VOCs | <0.5 | <0.5 | <0.5 | <0.5 |
| | 12/03/2001 | SSPL VOCs | 0.2J | <0.5 | 0.03J | <0.5 |
| | 01/28/2002 | SSPL VOCs | <0.5 | 0.03J | <0.5 | <0.5 |
| | 04/02/2002 | SSPL VOCs | 0.2 | 0.05J | 0.08J | NA |
| | 09/12/2002 | SSPL VOCs | 0.2J | <0.5 | <0.5 | <0.5 |
| | 03/25/2003 | SSPL VOCs | 0.1J | <0.5 | <0.5 | <0.5 |
| | 09/17/2003 | SSPL VOCs | 0.023J | 0.086J | 0.051J | <0.5 |
| | 04/08/2004 | SSPL VOCs | <0.5 | <0.5 | <0.5 | <0.5 |
| | 09/24/2004 | SSPL VOCs | 0.18J | <0.5 | <0.5 | <0.5 |
| | 09/28/2005 | SSPL VOCs | <1 | <1 | <2 | <2 |
| | 02/01/2006 | Phase II ISCO Field Test | | | | |
| | 03/08/2006 | Phase II ISCO Field Test | | | | |
| | 04/05/2006 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 04/05/2006 | Phase II ISCO Field Test | | | | |
| | 09/21/2006 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 04/04/2007 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |

See notes on last page

| Sample Location | Sampling Date | Analysis | PCE (µg/L) | TCE (µg/L) | 1,2-DCE Total (µg/L) | Vinyl Chloride (µg/L) |
|---|---|---|---|---|---|---|
| MW-16 | 11/12/1998 | SSPL VOCs | 570 | 11J | 16J | NA |
| | 02/01/1999 | SSPL VOCs | 470 | 15J | 12J | NA |
| | 09/19/2001 | SSPL VOCs | 2 | <0.5 | <0.5 | <0.5 |
| | 12/03/2001 | SSPL VOCs | 92 | 2J | 4 | <3 |
| | 01/28/2002 | SSPL VOCs | 8 | 0.3J | 0.3J | <0.5 |
| | 04/02/2002 | SSPL VOCs | 180 | 5J | 6J | <6 |
| | 09/11/2002 | SSPL VOCs | 160 | 7J | 6 | <0.5 |
| | 3/252003 | SSPL VOCs | 45 | 1J | 1J | <0.5 |
| | 09/17/2003 | SSPL VOCs | 160 | 4.5J | 5.4J | <6.3 |
| | 04/07/2004 | SSPL VOCs | 530 | 8.7J | 11J | <13 |
| | 09/24/2004 | SSPL VOCs | 220 | 5.1 | 5.3 | <8.3 |
| | 09/28/2005 | SSPL VOCs | 53 | 1.4 | 2 | <2 |
| | 02/01/2006 | Phase II ISCO Field Test | | | | |
| | 03/06/2006 | SSPL VOCs | 380D | <10 | <10 | <10 |
| | 03/08/2006 | Phase II ISCO Field Test | | | | |
| | 04/05/2006 | Phase II ISCO Field Test | | | | |
| | 09/20/2006 | SSPL VOCs | 23 | <5.0 | <5.0 | <5.0 |
| | 04/03/2007 | SSPL VOCs | 420D | 13 | 10 | <5.0 |
| | 06/13/2007 | Phase III ISCO Field Test | | | | |
| | 08/29/2007 | Phase III ISCO Field Test | | | | |
| | 10/16/2007 | SSPL VOCs | 240 | 5.4J | 5.1J | <10.0 |
| | 11/27/2007 | Phase III ISCO Field Test | | | | |
| | 03/26/2008 | SSPL VOCs | 300 | 9.1 J | 8.4J | < 13.0 |
| | 04/01/2008 | Phase III ISCO Field Test | | | | |
| | 07/24/2008 | Phase III ISCO Field Test | | | | |
| | 10/01/2008 | SSPL VOCs | NS | NS | NS | NS |
| | 10/03/2008 | Phase III ISCO Field Test | | | | |
| | 03/19/2009 | SSPL VOCs | NS | NS | NS | NS |
| | 09/24/2009 | SSPL VOCs | 260 | 6.2J | 4.6J | <10 |
| | 03/17/2010 | SSPL VOCs | 260 | 5.8 J | 4.0 J | <10 |
| | 12/21/2011 | SSPL VOCs | 280 | 6.5 J | 4.5 J | < 10 |
| | 02/15/2012 | SSPL VOCs | 250 | 5.3 J | 4.7 J | < 10 |
| | 04/19/2012 | SSPL VOCs | 200 | 4.3 DJ | 3.8 DJ | <10 |
| | 06/21/2012 | SSPL VOCs | 210 | 4.4 J | 2.8 J | <10 |
| | 09/20/2012 | SSPL VOCs | 200 | 4.5 J | 2.7 J | <5.0 |
| | 12/18/2012 | SSPL VOCs | 180 | 4.3 J | 2.9 J | < 5.0 |
| | 03/13/2013 | SSPL VOCs | 200 D | 4.2 DJ | 2.9 DJ | <13 |
| | 09/04/2013 | SSPL VOCs | 160 | 3.3 J | 2.0 J | <5.0 |
| | 03/18/2014 | SSPL VOCs | 150 | 3.6 J | 1.9 J | <5.0 |
| | 09/18/2014 | SSPL VOCs | 140 | 2.4 J | 1.3 J | <5.0 |
| | 03/16/2015 | SSPL VOCs | 100 | 2.1 J | 1.1 J | <5.0 |
| | 09/22/2015 | SSPL VOCs | 43 | 0.39 J | <5.0 | <5.0 |
| | 03/15/2016 | SSPL VOCs | 46 | 0.69 | 0.34 J | <5.0 |
| | 09/14/2016 | SSPL VOCs | 6.5 | <1.0 | <1.0 | <1.0 |
| | 03/23/2017 | SSPL VOCs | 32 | <1.0 | <1.0 | <1.0 |
| | 09/13/2017 | SSPL VOCs | 60 | 0.28 J | <1.0 | <1.0 |
| | 03/21/2018 | SSPL VOCs | 220 D | 3.5 | 2.8 | <1.0 |
| | 09/20/2018 | SSPL VOCs | <1.0 | 3.6 | 24 | <1.0 |
| | 03/19/2019 | SSPL VOCs | 0.66 J | <2.0 | <2.0 | <2.0 |
| | 09/25/2019 | SSPL VOCs | 80 | <1.0 | <1.0 | <1.0 |
| | 09/16/2020 | SSPL VOCs | 4 | <1.0 | <1.0 | <1.0 |
| | 09/16/2021 | SSPL VOCs | 11 | <1.0 | <1.0 | <1.0 |
| | 09/16/2022 | SSPL VOCs | 25 | <1.0 | <1.0 | <1.0 |
| MW-17 | 11/11/1998 | SSPL VOCs | 4.7J | <5.0 | <5.0 | ND |
| | 02/04/1999 | SSPL VOCs | 3 J | <5.0 | <5.0 | ND |
| | 09/25/2001 | SSPL VOCs | 3 | <0.5 | <0.5 | <0.5 |
| | 09/13/2002 | SSPL VOCs | 3B | 0.2J | 0.08J | <0.5 |
| | 03/18/2010 | SSPL VOCs | 1.9 | <5.0 | <5.0 | <5.0 |
| | 12/27/2012 | SSPL VOCs | 1.5 J | <5.0 | <5.0 | <5.0 |
| | 09/24/2013 | SSPL VOCs | 1.8 J | 0.24 J | <5.0 | <5.0 |
| | 11/18/2014 | SSPL VOCs | 1.8 J | 0.28 J | <5.0 | <5.0 |
| | 09/15/2016 | SSPL VOCs | 3.7 | <1.0 | <1.0 | <1.0 |
| | 03/19/2018 | SSPL VOCs | 2.2 | <1.0 | <1.0 | <1.0 |
| | 03/19/2019 | SSPL VOCs | 0.79 J | <1.0 | 0.23 J | <1.0 |
| | 09/25/2019 | SSPL VOCs | 0.73 J | 0.22 J | <1.0 | <1.0 |
| | 09/16/2020 | SSPL VOCs | 0.62 J | <1.0 | <1.0 | <1.0 |
| | 09/16/2021 | SSPL VOCs | 0.76 J | <1.0 | <1.0 | <1.0 |
| | 09/15/2022 | SSPL VOCs | 0.56 J | <1.0 | <1.0 | <1.0 |
| MW-18 | 11/18/1998 | SSPL VOCs | <5.0 | <5.0 | <5.0 | ND |
| | 02/03/1999 | SSPL VOCs | 2.7J | 0.81 J | <5.0 | ND |
| | 03/10/1999 | SSPL VOCs | 2 J | <5.0 | <5.0 | ND |
| | DRY | ------ | | | | |
| | 3/15/2010 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 12/29/2012 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 9/24/2013 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 9/19/2014 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 9/18/2018 | SSPL VOCs | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-19 | 11/11/1998 | SSPL VOCs | 68 | 8.8 | 9 | NA |
| | 02/05/1999 | SSPL VOCs | 160 | 18 | 17 | NA |
| | 03/10/1999 | SSPL VOCs | 160 | 17 | 16 | NA |
| | 09/24/2001 | SSPL VOCs | 88 | 20 | <4.2 | <4.2 |
| | 09/13/2002 | SSPL VOCs | 11 | 4.0 | 4.0 | <0.5 |
| | 03/12/2010 | SSPL VOCs | 29 | 8.7 | 15.8 | <5.0 |
| | 09/20/2015 | SSPL VOCs | 23 | 7.1 | 15.41 J | 0.58 J |
| | 09/14/2016 | SSPL VOCs | 44 | 9.3 | 14 | <1.0 |
| | 09/12/2017 | SSPL VOCs | 23 | 5.9 | 11.49 | 0.60 J |
| | 09/25/2019 | SSPL VOCs | 11 | 3.9 | 6.22 J | <1.0 |
| | 09/16/2020 | SSPL VOCs | 10 | 3.8 | 5.4 | 0.24 J |
| | 09/15/2021 | SSPL VOCs | 6.2 | 1.9 | 2.6 | <1.0 |
| | 09/14/2022 | SSPL VOCs | 11 | 3.5 | 2.5 | <1.0 |
| MW-20 | 11/10/1998 | SSPL VOCs | 9.3 | <5.0 | <5.0 | ND |
| | 02/04/1999 | SSPL VOCs | 12 | <5.0 | <5.0 | ND |
| | 03/15/1999 | SSPL VOCs | 63 | 1.3 J | <5.0 | ND |
| | 09/26/2001 | SSPL VOCs | 8 | <0.5 | <0.5 | <0.5 |
| | 09/13/2002 | SSPL VOCs | 4 | 0.1 J | <0.5 | <0.5 |
| MW-21 | 02/01/1999 | SSPL VOCs | <5.0 | <5.0 | <5.0 | ND |
| | 03/12/1999 | SSPL VOCs | <5.0 | <5.0 | <5.0 | ND |
| | 09/26/2001 | SSPL VOCs | <0.5 | <0.5 | <0.5 | <0.5 |
| | 09/13/2002 | SSPL VOCs | 0.9J | <0.5 | <0.5 | <0.5 |
| | 03/12/2010 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| MW-22 | 11/13/1998 | SSPL VOCs | <5.0 | <5.0 | <5.0 | ND |
| | 02/04/1999 | SSPL VOCs | <5.0 | <5.0 | <5.0 | ND |
| | 09/19/2001 | SSPL VOCs | <0.5 | <0.5 | <0.5 | <0.5 |
| | 09/13/2002 | SSPL VOCs | 0.3J | <0.5 | <0.3 | <0.5 |
| | 03/12/2010 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 12/28/2012 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 09/24/2013 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 03/19/2018 | SSPL VOCs | <1.0 | <1.0 | <1.0 | <1.0 |
| | 03/18/2019 | SSPL VOCs | <1.0 | <1.0 | <1.0 | <1.0 |
| | 09/24/2019 | SSPL VOCs | 0.27 J | <1.0 | <1.0 | <1.0 |
| | 09/17/2020 | SSPL VOCs | <1.0 | <1.0 | <1.0 | <1.0 |
| | 09/16/2021 | SSPL VOCs | <1.0 | <1.0 | <1.0 | <1.0 |
| | 09/15/2022 | SSPL VOCs | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-23 | 11/18/1998 | TAL/TCL | 48 | <50 | <42 | NA |
| | 02/05/1999 | SSPL VOCs | 21 | <5.0 | <5.0 | ND |
| | 03/19/1999 | SSPL VOCs | 13 | <5.0 | <5.0 | ND |
| | 09/19/2001 | SSPL VOCs | 0.3J | 2.0 | 5.0 | <0.5 |
| | 09/13/2002 | SSPL VOCs | 2.0 | 2.0 | 0.3J | <0.5 |
| | 03/17/2010 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |

See notes on last page

| Sample Location | Sampling Date | Analysis | PCE (µg/L) | TCE (µg/L) | 1,2-DCE Total (µg/L) | Vinyl Chloride (µg/L) |
|---|---|---|---|---|---|---|
| MW-24 | 11/13/1998 | SSPL VOCs | 2,100 | 8.8J | <5.0 | NA |
| | 02/03/1999 | SSPL VOCs | 2,700 | <100 | 24J | NA |
| | 09/19/2001 | SSPL VOCs | 2,500 | 26J | 46J | <84 |
| | 12/03/2001 | SSPL VOCs | 1,600 | 12J | 35J | <42 |
| | 01/28/2002 | SSPL VOCs | 1,500 | 12J | 31J | <42 |
| | 04/02/2002 | SSPL VOCs | 1,600 | 40J | 610 | <63 |
| | 09/10/2002 | SSPL VOCs | 660 | 330 | 1,200 | <36 |
| | 03/25/2003 | SSPL VOCs | 42 | 23 | 1,100 | 42 |
| | 09/17/2003 | SSPL VOCs | 2.5J | 0.5J | 180 | 19 |
| | 04/07/2004 | SSPL VOCs | 2.4J | 2J | 87 | 22 |
| | 09/24/2004 | SSPL VOCs | 4 | 2.2 | 57 | 37 |
| | 09/28/2005 | SSPL VOCs | 2.1 | 1.2 | 23.8 | 14 |
| | 02/01/2006 | Phase II ISCO Field Test | | | | |
| | 03/06/2006 | SSPL VOCs | <50 | <50 | <50 | <50 |
| | 03/08/2006 | Phase II ISCO Field Test | | | | |
| | 04/05/2006 | Phase II ISCO Field Test | | | | |
| | 09/20/2006 | SSPL VOCs | 310 | 17 | 69 | 1.8J |
| | 04/03/2007 | SSPL VOCs | 470D | 30 | 78 | 6.8J |
| | 06/13/2007 | Phase III ISCO Field Test | | | | |
| | 08/29/2007 | Phase III ISCO Field Test | | | | |
| | 10/16/2007 | SSPL VOCs | 58 | <5.0 | <5.0 | <5.0 |
| | 11/27/2007 | Phase III ISCO Field Test | | | | |
| | 03/26/2008 | SSPL VOCs | 100 | 7.6 | 19.62J | 0.99 J |
| | 04/01/2008 | Phase III ISCO Field Test | | | | |
| | 07/24/2008 | Phase III ISCO Field Test | | | | |
| | 10/01/2008 | SSPL VOCs | NS | NS | NS | NS |
| | 10/03/2008 | Phase III ISCO Field Test | | | | |
| | 03/19/2009 | SSPL VOCs | NS | NS | NS | NS |
| | 09/23/2009 | SSPL VOCs | 240 | 11 | 23 | <10 |
| | 03/19/2010 | SSPL VOCs | 150 | 5.0 J | 4.2 J | <5.0 |
| | 12/21/2012 | SSPL VOCs | 22 | < 5.0 | < 5.0 | < 5.0 |
| | 09/22/2015 | SSPL VOCs | 2.8 J | <5.0 | <5.0 | <5.0 |
| | 09/13/2016 | SSPL VOCs | 9.8 | <1.0 | <1.0 | <1.0 |
| | 09/12/2017 | SSPL VOCs | 0.30 | <1.0 | <1.0 | <1.0 |
| | 09/19/2018 | SSPL VOCs | 2.5 J | <5.0 | <5.0 | <5.0 |
| | 09/25/2019 | SSPL VOCs | 0.57 J | <1.0 | <1.0 | <1.0 |
| | 09/17/2020 | SSPL VOCs | <1.0 | <1.0 | <1.0 | <1.0 |
| | 09/16/2021 | SSPL VOCs | <10 | <10 | <10 | <10 |
| | 09/15/2022 | SSPL VOCs | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-25/MW-25R | 03/19/1999 | SSPL VOCs | 1,200 | 6.7 J | 20 J | ND |
| | 04/23/1999 | SSPL VOCs | 1,100 | <50 | <33 | ND |
| | 09/25/2001 | SSPL VOCs | 630 | <25 | <25 | <25 |
| | 12/05/2001 | SSPL VOCs | 960 | 6 J | 5 J | <25 |
| | 01/30/2002 | SSPL VOCs | 250 | 250 | 10 | <6 |
| | 04/04/2002 | SSPL VOCs | 670 | 13 J | 4 J | <25 |
| | 09/16/2002 | SSPL VOCs | 610 | 6 J | 6 J | <25 |
| | 03/27/2003 | SSPL VOCs | 620 | 7 J | 11 J | <14 |
| | 09/17/2003 | SSPL VOCs | 990 | 13 J | 24 | <21 |
| | 04/07/2004 | SSPL VOCs | 760 | 9.7 J | 24 J | <31 |
| | 09/24/2004 | SSPL VOCs | 1,110 | 14 | 24 | <36 |
| | 09/28/2005 | SSPL VOCs | 770 | 10 | 21 | <2 |
| | 02/01/2006 | Phase II ISCO Field Test | | | | |
| | 03/06/2006 | SSPL VOCs | 250D | 5.8J | 12 | <10 |
| | 03/08/2006 | Phase II ISCO Field Test | | | | |
| | 04/04/2006 | SSPL VOCs | 630D | 9.2J | 16 | <13 |
| | 04/05/2006 | Phase II ISCO Field Test | | | | |
| | 09/20/2006 | SSPL VOCs | 470 | 8.4J | 14 | <13 |
| | 04/03/2007 | SSPL VOCs | 160 | 140 | 130 | <5.0 |
| | 06/13/2007 | Phase III ISCO Field Test | | | | |
| | 08/29/2007 | Phase III ISCO Field Test | | | | |
| | 10/16/2007 | SSPL VOCs | 390D | 6.0J | 8.7J | <25.0 |
| | 11/27/2007 | Phase III ISCO Field Test | | | | |
| | 03/27/2008 | SSPL VOCs | 390D | 7.3 | 9.2 | <5.0 |
| | 04/01/2008 | Phase III ISCO Field Test | | | | |
| | 07/24/2008 | Phase III ISCO Field Test | | | | |
| | 09/30/2008 | SSPL VOCs | 400D | 7.8 | 10 | <5.0 |
| | 10/03/2008 | Phase III ISCO Field Test | | | | |
| | 03/17/2009 | SSPL VOCs | 170D | <5.0 | 4.0 J | <5.0 |
| | 09/22/2009 | SSPL VOCs | 530 | 8.2 J | 8.5 J | <25 |
| | 03/17/2010 | SSPL VOCs | 450 | 6.5 J | 8.2 J | <13 |
| | 12/20/2011 | SSPL VOCs | 43 | 44 | 63.9 J | 0.82 J |
| | 03/15/2012 | SSPL VOCs | 360 D | 6.5 DJ | 4.8 DJ | <25 |
| | 06/20/2012 | SSPL VOCs | 350 | 6.5 J | 4.4 J | <13 |
| | 09/21/2012 | SSPL VOCs | 400 | 6.0 J | 4.5 J | <13 |
| | 12/19/2012 | SSPL VOCs | 360 | 6.3 J | 5.1 J | < 13 |
| | 03/15/2013 | SSPL VOCs | 370 | 5.9 J | 4.6 J | <13 |
| | 09/04/2013 | SSPL VOCs | 350 | 5.4 J | 3.3 J | <13 |
| | 03/20/2014 | SSPL VOCs | 300 | 5.3 J | 2.5 J | <13 |
| | 09/19/2014 | SSPL VOCs | 240 | 3.0 J | 1.4 J | <13 |
| | 03/17/2015 | SSPL VOCs | 290 | 4.4 J | 1.8 J | <10 |
| | 09/21/2015 | SSPL VOCs | 180 | 1.9 J | 0.90 J | <10 |
| | 03/16/2016 | SSPL VOCs | 190 | 2.0 | 1.3 | <5.0 |
| | 09/14/2016 | SSPL VOCs | 140 | 1.5 | 0.83 J | <1.0 |
| | 03/23/2017 | SSPL VOCs | 99 | 2.2 | 1.5 | <1.0 |
| | 09/13/2017 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 03/21/2018 | SSPL VOCs | 36 | 0.49 J | 0.36 J | <1.0 |
| | 09/19/2018 | SSPL VOCs | 110 | 2.0 J | <5.0 | <5.0 |
| | 03/19/2019 | SSPL VOCs | 9.3 | 0.21 J | <1.0 | <1.0 |
| | 09/26/2019 | SSPL VOCs | 150 | 3.6 J | 3.2 J | <5.0 |
| | 09/17/2020 | SSPL VOCs | <1.0 | <1.0 | <1.0 | <1.0 |
| | 09/15/2021 | SSPL VOCs | 72 | 2.6 | 2.1 | <1.0 |
| | 09/16/2022 | SSPL VOCs | 1.1 | <1.0 | <1.0 | <1.0 |
| MW-26 | 02/05/1999 | SSPL VOCs | 200 | 6J | <50 | NA |
| | 03/10/1999 | SSPL VOCs | 150 | 4.1J | 8.9 | NA |
| | 09/24/2001 | SSPL VOCs | 94 | 5.0 | 5.0 | <5.0 |
| | 09/13/2002 | SSPL VOCs | 11 | 1.0 | 0.9 | <0.5 |
| | 03/06/2006 | SSPL VOCs | 1.6J | <5.0 | <5.0 | <5.0 |
| | 03/12/2010 | SSPL VOCs | 65 | 4.5 J | 5.3 | <5.0 |
| | 12/29/2012 | SSPL VOCs | 49 | 4.8 J | 5.9 | <5.0 |
| | 09/19/2014 | SSPL VOCs | 38 | 3.5 J | 4.0 J | <5.0 |
| | 09/20/2015 | SSPL VOCs | 50 | 4.3 J | 6.7 | <5.0 |
| | 09/14/2016 | SSPL VOCs | 34 | 3.3 | 4.8 | <1.0 |
| | 09/12/2017 | SSPL VOCs | 29 | 3.4 | 4.93 | <1.0 |
| | 09/26/2019 | SSPL VOCs | 15 | 2.3 | 2.7 | <1.0 |
| | 09/16/2020 | SSPL VOCs | 11 | 1.5 | 1.9 | <1.0 |
| | 09/16/2021 | SSPL VOCs | 8.0 | 1.8 | 2.5 | <1.0 |
| | 09/14/2022 | SSPL VOCs | 4.8 | 1.5 | 2 | <1.0 |
| MW-27 | 02/03/1999 | SSPL VOCs | 73 | 2.5J | 5.3 | NA |
| | 03/11/1999 | SSPL VOCs | 100 | 2.6J | <5.0 | NA |
| | 09/26/2001 | SSPL VOCs | 56 | 5.0 | 6.0 | <2.5 |
| | 09/13/2002 | SSPL VOCs | 29 | 11 | 10 | <1.0 |
| | 03/15/2010 | SSPL VOCs | 72 | 3.4 J | 1.2 J | <5.0 |
| | 09/20/2015 | SSPL VOCs | 20 | 7.7 | 15 | <5.0 |
| | 09/14/2016 | SSPL VOCs | 34 | 5.7 | 14 | <1.0 |
| | 09/12/2017 | SSPL VOCs | 1.3 | 0.51 J | 11 | <1.0 |
| | 03/19/2018 | SSPL VOCs | 2.8 | 0.53 J | 1.5 | <1.0 |
| | 03/18/2019 | SSPL VOCs | 0.55 J | 0.57 J | 11 | <1.0 |
| | 09/26/2019 | SSPL VOCs | 0.54 J | 0.54 J | 20 | <1.0 |
| | 09/17/2020 | SSPL VOCs | 0.75 J | 1.1 | 22 | <1.0 |
| | 09/15/2021 | SSPL VOCs | 0.65 J | 1.5 | 16 | <1.0 |
| | 09/14/2022 | SSPL VOCs | 0.65 J | 0.59 J | 12 | <1.0 |

See notes on last page

| Sample Location | Sampling Date | Analysis | PCE (µg/L) | TCE (µg/L) | 1,2-DCE Total (µg/L) | Vinyl Chloride (µg/L) |
|---|---|---|---|---|---|---|
| MW-28 | 02/03/1999 | SSPL VOCs | 1,200 | 10J | <5.0 | NA |
| | 03/17/1999 | SSPL VOCs | <5.0 | 10J | 14J | NA |
| | 09/25/2001 | SSPL VOCs | 70 | 1J | 3J | <3.6 |
| | 12/05/2001 | SSPL VOCs | 440 | 5J | 10J | <17 |
| | 01/30/2002 | SSPL VOCs | 550 | 9J | 8J | <18 |
| | 04/04/2002 | SSPL VOCs | 930 | 12J | 17J | <31 |
| | 09/16/2002 | SSPL VOCs | 44 | 39 | 85 | <3.0 |
| | 03/27/2003 | SSPL VOCs | 140 | 170 | 290 | <13 |
| | 09/17/2003 | SSPL VOCs | 100 | 58 | 89 | <3.1 |
| | 04/07/2004 | SSPL VOCs | 110 | 54 | 72 | <3.6 |
| | 09/24/2004 | SSPL VOCs | 240 | 2.6 | 4.6 | <8.3 |
| | 09/29/2005 | SSPL VOCs | 6.8 | 7.4 | 30 | <2.0 |
| | 02/01/2006 | Phase II ISCO Field Test | | | | |
| | 03/06/2006 | SSPL VOCs | 160 | 62 | 120 | <5.0 |
| | 03/08/2006 | Phase II ISCO Field Test | | | | |
| | 04/04/2006 | SSPL VOCs | 200D | 56 | 68 | <5.0 |
| | 04/05/2006 | Phase II ISCO Field Test | | | | |
| | 09/20/2006 | SSPL VOCs | 48 | 22 | 39 | 0.44J |
| | 04/03/2007 | SSPL VOCs | 480D | 7.6J | 11 | <10 |
| | 06/13/2007 | Phase III ISCO Field Test | | | | |
| | 08/29/2007 | Phase III ISCO Field Test | | | | |
| | 10/16/2007 | SSPL VOCs | 410 | 78 | 71.5J | <13 |
| | 11/27/2007 | Phase III ISCO Field Test | | | | |
| | 03/27/2008 | SSPL VOCs | 180 | 98 | 97.1J | < 5.0 |
| | 04/01/2008 | Phase III ISCO Field Test | | | | |
| | 07/24/2008 | Phase III ISCO Field Test | | | | |
| | 09/30/2008 | SSPL VOCs | 160 | 57 | 68.2J | < 5.0 |
| | 10/03/2008 | Phase III ISCO Field Test | | | | |
| | 03/17/2009 | SSPL VOCs | 280 | 130 | 85.8J | <10 |
| | 09/25/2009 | SSPL VOCs | 18 | 20 | 37.9J | < 5.0 |
| | 03/15/2010 | SSPL VOCs | 270 | 110 | 66 | <13 |
| | 12/20/2011 | SSPL VOCs | 340 | 5.5 J | 4.3 | <13 |
| | 03/15/2012 | SSPL VOCs | 52 | 49 | 58.5 J | 0.55 J |
| | 06/20/2012 | SSPL VOCs | 47 | 48 | 57.4 J | 0.58 J |
| | 09/21/2012 | SSPL VOCs | 180 | 77 | 57.2 J | 0.32 J |
| | 12/19/2012 | SSPL VOCs | 190 | 64 | 41.8 J | < 5.0 |
| | 03/15/2013 | SSPL VOCs | 170 | 60 | 49.4 J | 0.41 J |
| | 09/04/2013 | SSPL VOCs | 110 | 53 | 53.3 J | 0.42 J |
| | 03/20/2014 | SSPL VOCs | 43 | 50 | 57.4 J | <5.0 |
| | 09/19/2014 | SSPL VOCs | 36 | 27 | 26.65 J | <5.0 |
| | 03/17/2015 | SSPL VOCs | 41 | 12 | 12.56 J | <5.0 |
| | 09/21/2015 | SSPL VOCs | 3.8 J | 3.1 J | 2.2 J | <5.0 |
| | 03/16/2016 | SSPL VOCs | 11 | 2.1 | 2.4 | <5.0 |
| | 09/13/2016 | SSPL VOCs | 7.5 | 0.31 J | <1.0 | <1.0 |
| | 03/23/2017 | SSPL VOCs | 0.41 J | <1.0 | <1.0 | <1.0 |
| | 09/12/2017 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 03/21/2018 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 09/19/2018 | SSPL VOCs | 1.8 J | <5.0 | <5.0 | <5.0 |
| | 03/19/2019 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5 .0 |
| | 09/25/2019 | SSPL VOCs | 9.7 | 7.0 | 8.0 | <5.0 |
| | 09/16/2020 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 09/15/2021 | SSPL VOCs | <5.0 | 1.5 J | 4.1 J | <5.0 |
| | 09/14/2022 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| MW-29 | 02/03/1999 | SSPL VOCs | <5.0 | <5.0 | 15J | ND |
| | 03/12/1999 | SSPL VOCs | <5.0 | <5.0 | < 5 | ND |
| | 09/19/2001 | SSPL VOCs | <0.5 | <0.5 | <0.5 | <0.5 |
| | 09/13/2002 | SSPL VOCs | 0.1J | <0.5 | <0.5 | <0.5 |
| | 03/19/2010 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 12/27/2012 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 09/25/2013 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| MW-30 | 03/19/1999 | SSPL VOCs | <5.0 | 0.8 J | <5.0 | ND |
| | 04/23/1999 | SSPL VOCs | <5.0 | 0.97 J | <5.0 | ND |
| | 09/26/2001 | SSPL VOCs | <0.5 | 1 | 0.6 | <0.5 |
| | 12/05/2001 | SSPL VOCs | 2 | 0.4J | 0.4J | <0.5 |
| | 01/29/2002 | SSPL VOCs | 0.07J | 0.7 | 0.5 | <0.5 |
| | 04/04/2002 | SSPL VOCs | 0.06J | 0.6 | 0.5 | <0.5 |
| | 09/17/2002 | SSPL VOCs | 0.1J | 0.6 | 0.5 | <0.5 |
| | 03/26/2003 | SSPL VOCs | 0.3J | 0.5J | 0.4J | <0.5 |
| | 09/18/2003 | SSPL VOCs | 1.7 | 0.55J | 0.49J | <0.5 |
| | 04/08/2004 | SSPL VOCs | <0.5 | 0.36J | 0.34J | <0.5 |
| | 09/24/2004 | SSPL VOCs | <0.5 | 0.51 | 0.64 | <0.5 |
| | 09/29/2005 | SSPL VOCs | <1 | <1 | <2 | <2 |
| | 02/01/2006 | Phase II ISCO Field Test | | | | |
| | 03/08/2006 | Phase II ISCO Field Test | | | | |
| | 04/05/2006 | SSPL VOCs | <5.0 | 0.58J | 0.54J | <5.0 |
| | 04/05/2006 | Phase II ISCO Field Test | | | | |
| | 09/21/2006 | SSPL VOCs | <5.0 | 0.43J | 0.60J | <5.0 |
| | 04/04/2007 | SSPL VOCs | 1.6J | 0.78J | 0.58J | <5.0 |
| | 06/13/2007 | Phase III ISCO Field Test | | | | |
| | 08/29/2007 | Phase III ISCO Field Test | | | | |
| | 10/16/2007 | SSPL VOCs | 8.5 | 0.71 J | 0.64 J | <5.0 |
| | 11/27/2007 | Phase III ISCO Field Test | | | | |
| | 03/26/2008 | SSPL VOCs | 12 | 1.0J | <5.0 | <5.0 |
| | 04/01/2008 | Phase III ISCO Field Test | | | | |
| | 07/24/2008 | Phase III ISCO Field Test | | | | |
| | 09/30/2008 | SSPL VOCs | 14 | 0.65J | <5.0 | <5.0 |
| | 10/03/2008 | Phase III ISCO Field Test | | | | |
| | 03/17/2009 | SSPL VOCs | 24 | 0.89J | <5.0 | <5.0 |
| | 09/23/2009 | SSPL VOCs | 18 | 0.73J | <5.0 | <5.0 |
| | 03/17/2010 | SSPL VOCs | 7.5 | <5.0 | <5.0 | <5.0 |
| | 12/21/2011 | SSPL VOCs | <5.0 | 0.37 J | 0.32 J | <5.0 |
| | 03/15/2012 | SSPL VOCs | <5.0 | < 5.0 | <5.0 | <5.0 |
| | 06/20/2012 | SSPL VOCs | <5.0 | 0.35 J | 0.30 J | <5.0 |
| | 09/20/2012 | SSPL VOCs | <5.0 | 0.28 J | <5.0 | <5.0 |
| | 12/20/2012 | SSPL VOCs | <5.0 | 0.28 J | <5.0 | <5.0 |
| | 09/24/2013 | SSPL VOCs | <5.0 | < 5.0 | <5.0 | <5.0 |
| | 09/19/2014 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 09/20/2015 | SSPL VOCs | <5.0 | 0.59 J | 0.51 J | <5.0 |
| | 09/12/2016 | SSPL VOCs | <1.0 | 0.57 J | 0.93 J | <1.0 |
| | 09/12/2017 | SSPL VOCs | <1.0 | 0.51 J | 0.59 J | <1.0 |

See notes on last page

| Sample Location | Sampling Date | Analysis | PCE (µg/L) | TCE (µg/L) | 1,2-DCE Total (µg/L) | Vinyl Chloride (µg/L) |
|---|---|---|---|---|---|---|
| MW-31 | 03/18/1999 | SSPL VOCs | 1.3J | 1.9 J | <5.0 | ND |
| | 04/22/1999 | SSPL VOCs | <5.0 | 1.4 J | <5.0 | ND |
| | 09/26/2001 | SSPL VOCs | 1 | 3 | 1 | <0.5 |
| | 12/05/2001 | SSPL VOCs | 0.7 | 1 | 0.8 | <0.5 |
| | 01/31/2002 | SSPL VOCs | 1 | 2 | 1 | 0.07J |
| | 04/04/2002 | SSPL VOCs | 1 | 2 | 1 | <0.5 |
| | 09/16/2002 | SSPL VOCs | 0.7 | 2 | 2 | <0.5 |
| | 03/27/2003 | SSPL VOCs | 0.9 | 1.0 | 2.0 | <0.5 |
| | 09/18/2003 | SSPL VOCs | 0.26J | 1.5 | 2..3 | <0.5 |
| | 04/08/2004 | SSPL VOCs | <0.5 | 0.56 | 1.3 | <0.5 |
| | 09/24/2004 | SSPL VOCs | <0.5 | 0.81 | 1.3 | <0.5 |
| | 09/29/2005 | SSPL VOCs | <1.0 | <1.0 | <2.0 | <2.0 |
| | 02/01/2006 | Phase II ISCO Field Test | | | | |
| | 03/08/2006 | Phase II ISCO Field Test | | | | |
| | 04/04/2006 | SSPL VOCs | <5.0 | 0.61 J | 1.7 J | <5.0 |
| | 04/05/2006 | Phase II ISCO Field Test | | | | |
| | 09/20/2006 | SSPL VOCs | <5.0 | 0.56 J | 1.4 J | <5.0 |
| | 04/04/2007 | SSPL VOCs | <5.0 | 0.33 J | 0.42 J | <5.0 |
| | 06/13/2007 | Phase III ISCO Field Test | | | | |
| | 08/29/2007 | Phase III ISCO Field Test | | | | |
| | 10/16/2007 | SSPL VOCs | <5.0 | 0.33 J | 1.20 J | <5.0 |
| | 11/27/2007 | Phase III ISCO Field Test | | | | |
| | 03/27/2008 | SSPL VOCs | 0.75 J | 0.67 J | 1.1 J | <5.0 |
| | 04/01/2008 | Phase III ISCO Field Test | | | | |
| | 07/24/2008 | Phase III ISCO Field Test | | | | |
| | 10/01/2008 | SSPL VOCs | <5.0 | <5.0 | 0.97 J | <5.0 |
| | 10/03/2008 | Phase III ISCO Field Test | | | | |
| | 03/18/2009 | SSPL VOCs | <5.0 | <5.0 | 1.1 J | <5.0 |
| | 09/22/2009 | SSPL VOCs | <5.0 | <5.0 | 0.98 J | <5.0 |
| | 03/16/2010 | SSPL VOCs | <5.0 | <5.0 | 0.73 J | <5.0 |
| | 12/28/2012 | SSPL VOCs | <5.0 | 0.47 J | 0.85 J | <5.0 |
| | 09/24/2013 | SSPL VOCs | <5.0 | 0.33 J | 0.42 J | <5.0 |
| | 11/18/2014 | SSPL VOCs | <5.0 (<5.0) | 0.38 J (0.39 J) | 0.38 J (0.37 J) | <5.0 (<5.0) |
| | 12/22/2015 | SSPL VOCs | <1.0 | 0.80 J | 0.49 J | <1.0 |
| | 09/12/2016 | SSPL VOCs | <1.0 | 0.44 J | <1.0 | <1.0 |
| | 09/11/2017 | SSPL VOCs | <1.0 | 0.61 J | 0.44 J | <1.0 |
| | 09/18/2018 | SSPL VOCs | <1.0 | 0.35 J | 0.48 J | <1.0 |
| | 09/15/2020 | SSPL VOCs | <1.0 | <1.0 | 0.74 J | <1.0 |
| | 09/16/2021 | SSPL VOCs | <1.0 | <1.0 | 0.47 J | <1.0 |
| | 09/14/2022 | SSPL VOCs | <1.0 | <1.0 | 0.28 J | <1.0 |
| MW-32 | 03/19/1999 | SSPL VOCs | <5.0 | <5.0 | <5.0 | ND |
| | 04/22/1999 | SSPL VOCs | <5.0 | <5.0 | <5.0 | ND |
| | 09/25/2001 | SSPL VOCs | <0.5 | <0.5 | <0.5 | <0.5 |
| | 12/05/2001 | SSPL VOCs | 0.5J | <0.5 | 0.07J | <0.5 |
| | 01/29/2002 | SSPL VOCs | <0.5 | <0.5 | 0.2J | <0.5 |
| | 04/03/2002 | SSPL VOCs | 0.4J | 0.07J | 0.1J | <0.5 |
| | 09/13/2002 | SSPL VOCs | 0.2J | 0.03J | <0.5 | <0.5 |
| | 03/27/2003 | SSPL VOCs | 0.4J | 0.2J | <0.5 | <0.5 |
| | 09/17/2003 | SSPL VOCs | 0.33J | 0.031J | 0.15J | <0.5 |
| | 04/07/2004 | SSPL VOCs | 0.39J | <0.5 | <0.5 | <0.5 |
| | 09/24/2004 | SSPL VOCs | <0.5 | <0.5 | <0.5 | <0.5 |
| | 09/29/2005 | SSPL VOCs | <1.0 | <1.0 | <2.0 | <2.0 |
| | 02/01/2006 | Phase II ISCO Field Test | | | | |
| | 03/08/2006 | Phase II ISCO Field Test | | | | |
| | 04/04/2006 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 04/05/2006 | Phase II ISCO Field Test | | | | |
| | 09/20/2006 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 04/03/2007 | SSPL VOCs | <5.0 | <5.0 | 0.32J | <5.0 |
| | 06/13/2007 | Phase III ISCO Field Test | | | | |
| | 08/29/2007 | Phase III ISCO Field Test | | | | |
| | 10/16/2007 | SSPL VOCs | 0.43 J | <5.0 | <5.0 | <5.0 |
| | 11/27/2007 | Phase III ISCO Field Test | | | | |
| | 03/26/2008 | SSPL VOCs | 1.2 J | <5.0 | <5.0 | <5.0 |
| | 04/01/2008 | Phase III ISCO Field Test | | | | |
| | 07/24/2008 | Phase III ISCO Field Test | | | | |
| | 10/01/2008 | SSPL VOCs | <10 | <10 | <10 | <10 |
| | 10/03/2008 | Phase III ISCO Field Test | | | | |
| | 03/18/2009 | SSPL VOCs | <5.0 | <5.0 | 0.53 J | <5.0 |
| | 09/22/2009 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 03/12/2010 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 12/28/2012 | SSPL VOCs | <5.0 | <5.0 | 0.38 J | <5.0 |
| | 09/20/2015 | SSPL VOCs | <5.0 | <5.0 | 0.57 J | <5.0 |
| | 09/12/2016 | SSPL VOCs | <1.0 | 0.38 J | 0.89 J | <1.0 |
| | 09/11/2017 | SSPL VOCs | <1.0 | 0.30 J | 0.84 J | <1.0 |
| | 09/19/2018 | SSPL VOCs | <1.0 | 0.44 J | 0.61 J | <1.0 |
| | 09/15/2020 | SSPL VOCs | <1.0 | <1.0 | <1.0 | <1.0 |
| | 09/14/2021 | SSPL VOCs | <1.0 | <1.0 | <1.0 | <1.0 |
| | 09/14/2022 | SSPL VOCs | <1.0 | 0.27 J | 0.41 J | <1.0 |
| MW-33 | 03/18/1999 | SSPL VOCs | 37 | 1.1 J | < 5 | ND |
| | 04/22/1999 | SSPL VOCs | 27 | 0.74 J | < 5 | ND |
| | 09/26/2001 | SSPL VOCs | 13 | 0.6 | 0.8 | <0.5 |
| | 09/13/2002 | SSPL VOCs | 6 | 0.8 | 0.2 J | <0.05 |
| | 03/15/2010 | SSPL VOCs | 0.91 J | <5.0 | <5.0 | <5.0 |
| | 09/24/2013 | SSPL VOCs | 1.8 J | <5.0 | <5.0 | <5.0 |
| | 09/20/2014 | SSPL VOCs | 2.3 J | 0.56 J | <5.0 | <5.0 |
| MW-34 | 04/21/1999 | SSPL VOCs | <5.0 | <5.0 | <5.0 | ND |
| | 09/25/2001 | SSPL VOCs | <0.5 | <0.5 | <0.5 | <0.5 |
| | 12/05/2001 | SSPL VOCs | 0.05J | <0.5 | <0.5 | <0.5 |
| | 01/30/2002 | SSPL VOCs | <0.5 | <0.5 | <0.5 | <0.5 |
| | 04/04/2002 | SSPL VOCs | 0.2J | <0.5 | <0.5 | <0.5 |
| | 09/16/2002 | SSPL VOCs | 0.2J | 0.05J | <0.5 | <0.5 |
| | 03/27/2003 | SSPL VOCs | 0.2J | <0.5 | <0.5 | <0.5 |
| | 09/17/2003 | SSPL VOCs | 0.68 | 0.086J | 0.076J | <0.5 |
| | 04/07/2004 | SSPL VOCs | 0.31J | <0.5 | <0.5 | <0.5 |
| | 09/24/2004 | SSPL VOCs | 0.39J | <0.5 | <0.5 | <0.5 |
| | 09/29/2005 | SSPL VOCs | <1 | <1 | <2 | <2 |
| | 02/01/2006 | Phase II ISCO Field Test | | | | |
| | 03/08/2006 | Phase II ISCO Field Test | | | | |
| | 04/04/2006 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 04/05/2006 | Phase II ISCO Field Test | | | | |
| | 09/20/2006 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 04/03/2007 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 06/13/2007 | Phase III ISCO Field Test | | | | |
| | 08/29/2007 | Phase III ISCO Field Test | | | | |
| | 10/16/2007 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 11/27/2007 | Phase III ISCO Field Test | | | | |
| | 03/27/2008 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 04/01/2008 | Phase III ISCO Field Test | | | | |
| | 07/24/2008 | Phase III ISCO Field Test | | | | |
| | 09/30/2008 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 10/03/2008 | Phase III ISCO Field Test | | | | |
| | 03/17/2009 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 09/22/2009 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 03/15/2010 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |

See notes on last page

| Sample Location | Sampling Date | Analysis | PCE (µg/L) | TCE (µg/L) | 1,2-DCE Total (µg/L) | Vinyl Chloride (µg/L) |
|---|---|---|---|---|---|---|
| MW-35 | 04/21/1999 | SSPL VOCs | <5.0 | <5.0 | <5.0 | ND |
| | 09/25/2001 | SSPL VOCs | <0.5 | <0.5 | <0.5 | <0.5 |
| | 12/05/2001 | SSPL VOCs | 0.04J | <0.5 | 0.04J | <0.5 |
| | 01/29/2002 | SSPL VOCs | <0.5 | <0.5 | 0.09J | <0.5 |
| | 04/03/2002 | SSPL VOCs | <0.5 | <0.5 | 0.1J | <0.5 |
| | 09/16/2002 | SSPL VOCs | 0.08J | <0.5 | <0.5 | <0.5 |
| | 03/27/2003 | SSPL VOCs | 0.2J | <0.5 | <0.5 | <0.5 |
| | 09/17/2003 | SSPL VOCs | 0.17J | <0.5 | 0.12J | <0.5 |
| | 04/07/2004 | SSPL VOCs | 0.18J | <0.5 | 1.1 | <0.5 |
| | 09/24/2004 | SSPL VOCs | 0.37J | <0.5 | <0.5 | <0.5 |
| | 09/29/2005 | SSPL VOCs | <1 | <1 | <2 | <2 |
| | 02/01/2006 | Phase II ISCO Field Test | | | | |
| | 03/08/2006 | Phase II ISCO Field Test | | | | |
| | 04/04/2006 | SSPL VOCs | <2.4 | <5.0 | <5.0 | <5.0 |
| | 04/05/2006 | Phase II ISCO Field Test | | | | |
| | 09/20/2006 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 04/03/2007 | SSPL VOCs | 0.72J | <5.0 | <5.0 | <5.0 |
| | 06/13/2007 | Phase III ISCO Field Test | | | | |
| | 08/29/2007 | Phase III ISCO Field Test | | | | |
| | 10/16/2007 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 11/27/2007 | Phase III ISCO Field Test | | | | |
| | 03/26/2008 | SSPL VOCs | 1.5J | <5.0 | <5.0 | <5.0 |
| | 04/01/2008 | Phase III ISCO Field Test | | | | |
| | 07/24/2008 | Phase III ISCO Field Test | | | | |
| | 10/01/2008 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 10/03/2008 | Phase III ISCO Field Test | | | | |
| | 03/18/2009 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 09/22/2009 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 03/12/2010 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 09/12/2017 | SSPL VOCs | <1.0 | <1.0 | 0.43 J | <1.0 |
| | 09/15/2020 | SSPL VOCs | <1.0 | <1.0 | 0.65 J | <1.0 |
| | 09/14/2021 | SSPL VOCs | <1.0 | <1.0 | 0.42 J | <1.0 |
| | 09/14/2022 | SSPL VOCs | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-36 | 04/21/1999 | SSPL VOCs | <5.0 | <5.0 | 0.97 J | ND |
| | 09/26/2001 | SSPL VOCs | <0.5 | <0.5 | 0.5 | <0.5 |
| | 09/13/2002 | SSPL VOCs | 0.07J | <0.5 | 0.3J | <0.5 |
| | 03/16/2010 | SSPL VOCs | <13 | <13 | <13 | <13 |
| MW-37 | 09/28/2001 | SSPL VOCs | 24 | 0.7 | <0.5 | <0.5 |
| | 12/05/2001 | SSPL VOCs | 43 | 0.9J | 0.2J | <2 |
| | 01/29/2002 | SSPL VOCs | 30 | 1 | <0.8 | <0.8 |
| | 04/03/2002 | SSPL VOCs | 44 | 1J | <1 | <1 |
| | 09/17/2002 | SSPL VOCs | 16 | 0.8 | 0.07J | <0.05 |
| | 03/25/2003 | SSPL VOCs | 40 | 1 | <0.5 | <0.5 |
| | 09/18/2003 | SSPL VOCs | 18 | 0.98 | 0.026J | <0.5 |
| | 04/08/2004 | SSPL VOCs | 41 | 1.6 | <0.5 | <0.5 |
| | 09/24/2004 | SSPL VOCs | 18 | 0.85 | <0.5 | <0.5 |
| | 09/29/2005 | SSPL VOCs | 11 | <1 | <2 | <2 |
| | 02/01/2006 | Phase II ISCO Field Test | | | | |
| | 03/08/2006 | Phase II ISCO Field Test | | | | |
| | 04/05/2006 | SSPL VOCs | 15 | 0.87J | <5.0 | <5.0 |
| | 04/05/2006 | Phase II ISCO Field Test | | | | |
| | 09/21/2006 | SSPL VOCs | 14 | 0.92J | <5.0 | <5.0 |
| | 04/04/2007 | SSPL VOCs | 36 | 1.2J | <5.0 | <5.0 |
| | 06/13/2007 | Phase III ISCO Field Test | | | | |
| | 08/29/2007 | Phase III ISCO Field Test | | | | |
| | 10/16/2007 | SSPL VOCs | 19 | 1.2J | <5.0 | <5.0 |
| | 11/27/2007 | Phase III ISCO Field Test | | | | |
| | 03/26/2008 | SSPL VOCs | 0.34J | 0.34J | <5.0 | <5.0 |
| | 04/01/2008 | Phase III ISCO Field Test | | | | |
| | 07/24/2008 | Phase III ISCO Field Test | | | | |
| | 09/30/2008 | SSPL VOCs | 0.99J | 0.75J | 0.85J | <5.0 |
| | 10/03/2008 | Phase III ISCO Field Test | | | | |
| | 03/17/2009 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 09/23/2009 | SSPL VOCs | 4.1J | <5.0 | <5.0 | <5.0 |
| | 03/16/2010 | SSPL VOCs | <13 | <13 | <13 | <13 |
| | 09/24/2013 | SSPL VOCs | 18 | 0.78 J | <5.0 | <5.0 |
| | 09/19/2014 | SSPL VOCs | 8.0 | 0.38 J | <5.0 | <5.0 |
| | 09/20/2015 | SSPL VOCs | 17 | 0.52 J | <5.0 | <5.0 |
| | 09/12/2016 | SSPL VOCs | 27 | 1.3 | <1.0 | <1.0 |
| | 09/12/2017 | SSPL VOCs | 1.1 | <1.0 | <1.0 | <1.0 |
| MW-38 | 09/28/2001 | SSPL VOCs | 140 | 10 | 10 | <6.3 |
| | 12/04/2001 | SSPL VOCs | 330 | 21 | 23 | <10 |
| | 01/29/2002 | SSPL VOCs | 400 | 28 | 19 | <8 |
| | 04/03/2002 | SSPL VOCs | 320 | 21 | 18 | <8 |
| | 09/11/2002 | SSPL VOCs | 350 | 40 | 20 | <13 |
| | 03/26/2003 | SSPL VOCs | 290 | 24 | 15 | <13 |
| | 09/17/2003 | SSPL VOCs | 300 | 23 | 16 | <9.6 |
| | 04/07/2004 | SSPL VOCs | 310 | 27 | 16 | <13 |
| | 09/24/2004 | SSPL VOCs | 300 | 20 | 13 | <10 |
| | 09/29/2005 | SSPL VOCs | 330 | 26 | 17 | <2.0 |
| | 02/01/2006 | Phase II ISCO Field Test | | | | |
| | 03/06/2006 | SSPL VOCs | 6.3 | <5.0 | <5.0 | <5.0 |
| | 03/08/2006 | Phase II ISCO Field Test | | | | |
| | 04/05/2006 | Phase II ISCO Field Test | | | | |
| | 09/20/2006 | SSPL VOCs | 290 | 21 | 9.5J | <10 |
| | 04/03/2007 | SSPL VOCs | 240 | 19 | 10J | <10 |
| | 06/13/2007 | Phase III ISCO Field Test | | | | |
| | 08/29/2007 | Phase III ISCO Field Test | | | | |
| | 10/16/2007 | SSPL VOCs | 250 | 20 | 10 | <10 |
| | 11/27/2007 | Phase III ISCO Field Test | | | | |
| | 03/25/2008 | SSPL VOCs | 180 | 15 | 7.8 | <5.0 |
| | 04/01/2008 | Phase III ISCO Field Test | | | | |
| | 07/24/2008 | Phase III ISCO Field Test | | | | |
| | 10/01/2008 | SSPL VOCs | 270D | 19 | 8.6 | <5.0 |
| | 10/03/2008 | Phase III ISCO Field Test | | | | |
| | 03/19/2009 | SSPL VOCs | 6.1 | 0.69J | <5.0 | <5.0 |
| | 09/23/2009 | SSPL VOCs | 250D | 20 | 6.7 | <5.0 |
| | 03/17/2010 | SSPL VOCs | 190 | 13 | 4.4 J | <5.0 |
| | 09/21/2015 | SSPL VOCs | 89 | 5.2 | 1.3 J | <5.0 |
| | 09/14/2016 | SSPL VOCs | 110 | 7.0 | 1.2 | <1.0 |
| | 09/12/2017 | SSPL VOCs | 98 | 6.4 | 1.3 | <1.0 |
| | 09/19/2018 | SSPL VOCs | 71 | 5.2 | 0.99 J | <1.0 |
| | 09/26/2019 | SSPL VOCs | 65 | 4.6 | 2.1 | <1.0 |
| | 09/16/2020 | SSPL VOCs | 76 | 5.9 | 3.7 | 0.25 J |
| | 09/16/2021 | SSPL VOCs | 74 | 6.2 | 3.2 | <1.0 |
| | 09/15/2022 | SSPL VOCs | 65 | 6.1 | 4.9 | <1.0 |
| MW-39 | 09/24/2019 | SSPL VOCs | 0.75 J | 3.5 | <1.0 | <1.0 |
| | 09/15/2020 | SSPL VOCs | 0.44 J | 2.0 | <1.0 | <1.0 |
| | 09/14/2022 | SSPL VOCs | <1.0 | 1.8 | <1.0 | <1.0 |
| MP-1 | 03/18/2010 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| MP-2 | 01/28/2002 | SSPL VOCs | 350 | 10 J | 22 | <16 |
| | 04/02/2002 | SSPL VOCs | 290 | 4 J | 9 | <8.0 |
| | 03/25/2003 | SSPL VOCs | 16 | 0.3 J | 0.6 | <0.5 |
| | 04/08/2004 | SSPL VOCs | 21 | 0.49 J | 0.75 J | <0.8 |
| | 09/24/2004 | SSPL VOCs | 30 | 0.71 | 0.62 | <1.0 |
| | 02/01/2006 | Phase II ISCO Field Test | | | | |
| | 03/08/2006 | Phase II ISCO Field Test | | | | |
| | 04/05/2006 | Phase II ISCO Field Test | | | | |
| | 04/03/2007 | SSPL VOCs | 3.5 J | <5.0 | <5.0 | <5.0 |
| | 06/13/2007 | Phase III ISCO Field Test | | | | |
| | 08/29/2007 | Phase III ISCO Field Test | | | | |
| | 11/27/2007 | Phase III ISCO Field Test | | | | |
| | 04/01/2008 | Phase III ISCO Field Test | | | | |
| | 07/24/2008 | Phase III ISCO Field Test | | | | |
| | 10/03/2008 | Phase III ISCO Field Test | | | | |
| | 03/18/2010 | SSPL VOCs | 10 | <5.0 | <5.0 | <5.0 |
| | 12/21/2012 | SSPL VOCs | 2.5 J | < 5.0 | < 5.0 | < 5.0 |

See notes on last page

| Sample Location | Sampling Date | Analysis | PCE (µg/L) | TCE (µg/L) | 1,2-DCE Total (µg/L) | Vinyl Chloride (µg/L) |
|---|---|---|---|---|---|---|
| MP-3D | 09/28/2001 | SSPL VOCs | 1 | <0.5 | <0.5 | <0.5 |
| | 12/03/2001 | SSPL VOCs | 0.1 J | 0.03 J | 0.06 J | <0.5 |
| | 01/28/2002 | SSPL VOCs | 0.2 J | <0.5 | <0.5 | <0.5 |
| | 04/02/2002 | SSPL VOCs | 0.03 J | <0.5 | <0.5 | <0.5 |
| | 09/10/2002 | SSPL VOCs | <0.5 | <0.5 | 0.02 J | <0.5 |
| | 03/25/2003 | SSPL VOCs | 0.2 J | 0.06 J | 0.4 J | <0.5 |
| | 09/17/2003 | SSPL VOCs | 1.1 | 0.062 J | 0.2 J | <0.5 |
| | 04/08/2004 | SSPL VOCs | 0.44 J | <0.5 | 0.94 | 1.5 |
| | 09/24/2004 | SSPL VOCs | 2.6 | <0.5 | 0.96 | <0.5 |
| | 09/28/2005 | SSPL VOCs | <1 | <1 | <2 | <2 |
| | 02/01/2006 | Phase II ISCO Field Test | | | | |
| | 03/08/2006 | Phase II ISCO Field Test | | | | |
| | 04/03/2006 | SSPL VOCs | 3.1 J | <5.0 | <5.0 | 0.58 J |
| | 04/05/2006 | Phase II ISCO Field Test | | | | |
| | 09/20/2006 | SSPL VOCs | 0.41 J | <5.0 | <5.0 | 0.86 J |
| | 04/30/2007 | SSPL VOCs | 0.46 J | <5.0 | 0.45 J | 2.0 J |
| | 06/13/2007 | Phase III ISCO Field Test | | | | |
| | 08/29/2007 | Phase III ISCO Field Test | | | | |
| | 10/16/2007 | SSPL VOCs | 0.4 J | <5.0 | <5.0 | 1.2 J |
| | 11/27/2007 | Phase III ISCO Field Test | | | | |
| | 03/26/2008 | SSPL VOCs | <5.0 | <5.0 | <5.0 | 0.98 J |
| | 04/01/2008 | Phase III ISCO Field Test | | | | |
| | 07/24/2008 | Phase III ISCO Field Test | | | | |
| | 10/02/2008 | SSPL VOCs | <50 | <50 | <50 | <50 |
| | 10/03/2008 | Phase III ISCO Field Test | | | | |
| | 03/18/2009 | SSPL VOCs | <5.0 | <5.0 | <5.0 | 0.81J |
| | 09/24/2009 | SSPL VOCs | <5.1 | <5.0 | <5.0 | 0.72J |
| | 03/18/2010 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 09/23/2013 | SSPL VOCs | <5.0 | <5.0 | 1.2 J | 0.40 J |
| | 09/18/2014 | SSPL VOCs | <5.0 | <5.0 | 0.85 J | <5.0 |
| | 03/19/2018 | SSPL VOCs | <1.0 | <1.0 | 0.32 J | <1.0 |
| | 03/18/2019 | SSPL VOCs | <1.0 | <1.0 | 0.63J | <1.0 |
| | 09/15/2020 | SSPL VOCs | <1.0 | <1.0 | <1.0 | <1.0 |
| | 09/17/2021 | SSPL VOCs | <1.0 | <1.0 | 0.53 J | <1.0 |
| | 09/14/2022 | SSPL VOCs | <1.0 | <1.0 | 0.55 J | <1.0 |
| MP-4/MP-4R | 09/27/2001 | SSPL VOCs | 7,700 | <250 | <250 | <250 |
| | 12/04/2001 | SSPL VOCs | 1,100 | 4J | 3J | <25 |
| | 01/29/2002 | SSPL VOCs | 9,300 | 47J | <310 | <310 |
| | 04/02/2002 | SSPL VOCs | 7,500 | 82J | 13J | <250 |
| | 09/11/2002 | SSPL VOCs | 7,800 | 23J | <250 | <250 |
| | 03/25/2003 | SSPL VOCs | 5,600 | <160 | <160 | <160 |
| | 09/17/2003 | SSPL VOCs | 2,900 | 22J | 10J | <130 |
| | 04/08/2004 | SSPL VOCs | 8,100 | 4.6J | 1.3J | <250 |
| | 09/24/2004 | SSPL VOCs | 9,900 | <250 | <250 | <250 |
| | 09/28/2005 | SSPL VOCs | 6,200 | 6.1 | 2.2 | <2.0 |
| | 02/01/2006 | Phase II ISCO Field Test | | | | |
| | 03/06/2006 | SSPL VOCs | 13,000 D | <250 | <250 | <250 |
| | 03/08/2006 | Phase II ISCO Field Test | | | | |
| | 04/03/2006 | SSPL VOCs | 11,000 D | <250 | <250 | <250 |
| | 04/05/2006 | Phase II ISCO Field Test | | | | |
| | 09/20/2006 | SSPL VOCs | 7,900 | <250 | <250 | <250 |
| | 04/03/2007 | SSPL VOCs | 7,000 | <250 | <250 | <250 |
| | 06/13/2007 | Phase III ISCO Field Test | | | | |
| | 08/29/2007 | Phase III ISCO Field Test | | | | |
| | 10/16/2007 | SSPL VOCs | 17,000D | <500 | <500 | <500 |
| | 11/27/2007 | Phase III ISCO Field Test | | | | |
| | 03/25/2008 | SSPL VOCs | 3,600 | <130 | <130 | <130 |
| | 04/01/2008 | Phase III ISCO Field Test | | | | |
| | 07/24/2008 | Phase III ISCO Field Test | | | | |
| | 10/01/2008 | SSPL VOCs | 9,100 D | <250 | <250 | <250 |
| | 10/03/2008 | Phase III ISCO Field Test | | | | |
| | 03/18/2009 | SSPL VOCs | 9,100 | <250 | <250 | <250 |
| | 09/22/2009 | SSPL VOCs | 17,000 D | <100 | <100 | <100 |
| | 03/16/2010 | SSPL VOCs | 9,700 | <250 | <250 | <250 |
| | 02/19/2011 | SSPL VOCs | 11,000 | 32 | <500 | <500 |
| | 02/15/2012 | SSPL VOCs | 6,500 | <250 | <250 | <250 |
| | 04/18/2012 | SSPL VOCs | 6,600 | <250 | <250 | <250 |
| | 06/19/2012 | SSPL VOCs | 8,200 | <250 | <250 | <250 |
| | 09/19/2012 | SSPL VOCs | 11,000 D | <500 | <500 | <500 |
| | 12/20/2012 | SSPL VOCs | 7,700 | <250 | <250 | <250 |
| | 03/14/2013 | SSPL VOCs | 8,600 | <250 | <250 | <250 |
| | 09/04/2013 | SSPL VOCs | 13,000 D | 26 DJ | <500 | <500 |
| | 03/19/2014 | SSPL VOCs | 11,000 | <500 | <500 | <500 |
| | 09/17/2014 | SSPL VOCs | 12,000 | <500 | <500 | <500 |
| | 03/17/2015 | SSPL VOCs | 10,000 | <500 | <500 | <500 |
| | 09/22/2015 | SSPL VOCs | 970 (1,200) | <50 (<50) | <50 (<50) | <50 (<50) |
| | 03/16/2016 | SSPL VOCs | 3,000 D | <50 | <50 | <50 |
| | 09/14/2016 | SSPL VOCs | 1,400 (1,300) | <10 (<10) | <10 (<10) | <10 (<10) |
| | 03/23/2017 | SSPL VOCs | 2,500 D (2,800 D) | <10 (<10) | <10 (<10) | <10 (<10) |
| | 09/13/2017 | SSPL VOCs | 820 | <5.0 | <5.0 | <5.0 |
| | 03/22/2018 | SSPL VOCs | 1,300 (1,300) | <10 (<10) | <10 (<10) | <10 (<10) |
| | 09/19/2018 | SSPL VOCs | 2,400 | <10 | <10 | <10 |
| | 03/18/2019 | SSPL VOCs | 1.0 J | <2.5 | <2.5 | <2.5 |
| | 09/25/2019 | SSPL VOCs | 2,400 D | 0.29 J | <1.0 | <1.0 |
| | 09/15/2022 | SSPL VOCs | 1,300 (1,000) | 2.4 J (<10) | <10 (<10) | <10 |
| MP-5/MP-5R | 09/27/2001 | SSPL VOCs | 1,500 | <50 | <50 | <50 |
| | 12/04/2001 | SSPL VOCs | 410 | 0.8J | 1J | <13 |
| | 01/29/2002 | SSPL VOCs | 1,100 | 4J | 11J | <42 |
| | 04/02/2002 | SSPL VOCs | 1,300 | 100 | 130 | <42 |
| | 09/11/2002 | SSPL VOCs | 1,300 | 150 | 150 | <36 |
| | 03/25/2003 | SSPL VOCs | 1,200 | 33 | 110 | <36 |
| | 09/17/2003 | SSPL VOCs | 1,100 | 33 | 87 | <42 |
| | 04/08/2004 | SSPL VOCs | 1,700 | 28J | 120 | <63 |
| | 09/24/2004 | SSPL VOCs | 710 | 16 | 67 | <31 |
| | 5/10 to 6/14/2005 | Phase I ISCO Field Test | | | | |
| | 09/28/2005 | SSPL VOCs | 510 | 19 | 95 | 8.6 |
| | 02/01/2006 | Phase II ISCO Field Test | | | | |
| | 03/06/2006 | SSPL VOCs | <10 | <10 | <10 | <10 |
| | 03/08/2006 | Phase II ISCO Field Test | | | | |
| | 04/05/2006 | SSPL VOCs | 130 | <5.0 | <5.0 | <5.0 |
| | 04/05/2006 | Phase II ISCO Field Test | | | | |
| | 09/20/2006 | SSPL VOCs | 830D | 33 | 85 | 7.9 |
| | 04/03/2007 | SSPL VOCs | 710D | 27 | 98 | 20 |
| | 06/13/2007 | Phase III ISCO Field Test | | | | |
| | 08/29/2007 | Phase III ISCO Field Test | | | | |
| | 10/16/2007 | SSPL VOCs | 880 | 23.0J | 102J | 1.6J |
| | 11/27/2007 | Phase III ISCO Field Test | | | | |
| | 03/25/2008 | SSPL VOCs | 530 | 24 J | 76 | 17 J |
| | 04/01/2008 | Phase III ISCO Field Test | | | | |
| | 07/24/2008 | Phase III ISCO Field Test | | | | |
| | 10/01/2008 | SSPL VOCs | NS | NS | NS | NS |
| | 10/03/2008 | Phase III ISCO Field Test | | | | |
| | 03/18/2009 | SSPL VOCs | 720 D | 13 | 53 | 17 |
| | 09/24/2009 | SSPL VOCs | 560 | 28 | 66 | 23J |
| | 03/17/2010 | SSPL VOCs | 860 | 28 | 31 | 6.7 J |
| | 12/19/2011 | SSPL VOCs | 1,100 D | 42 | 38 | 13 J |
| | 02/16/2012 | SSPL VOCs | 830 D | 29 DJ | 27 DJ | 8.5 DJ |
| | 04/18/2012 | SSPL VOCs | 730 | 32 | 33 | 11 J |
| | 06/19/2012 | SSPL VOCs | 950 | 42 | 29 | 6.6 J |
| | 09/20/2012 | SSPL VOCs | 750 | 31 | 23 J | 3.9 J |
| | 12/20/2012 | SSPL VOCs | 620 | 25 | 15 J | 2.0 J |
| | 03/14/2013 | SSPL VOCs | 920 | 28 | 19 J | 3.0 J |
| | 09/03/2013 | SSPL VOCs | 970 | 36 | 23 J | 4.1 J |
| | 03/19/2014 | SSPL VOCs | 940 (940) | 33 J (33) | 20 J (20 J) | 4.7 J (5.1 J) |
| | 09/17/2014 | SSPL VOCs | 890 | 32 | 14 J | 1.7 J |
| | 03/17/2015 | SSPL VOCs | <25 | <25 | <25 | <25 |
| | 09/21/2015 | SSPL VOCs | 11 | <5.0 | <5.0 | <5.0 |
| | 03/15/2016 | SSPL VOCs | 280 D | 0.58 J | <5.0 | <5.0 |
| | 09/13/2016 | SSPL VOCs | <2.5 | <2.5 | <2.5 | <2.5 |
| | 03/23/2017 | SSPL VOCs | 29 | <2.5 | <2.5 | <2.5 |
| | 09/13/2017 | SSPL VOCs | 7.8 | <2.0 | <2.0 | <2.0 |
| | 03/21/2018 | SSPL VOCs | 1.6 J | <5.0 | <5.0 | <5.0 |
| | 09/18/2018 | SSPL VOCs | 86 | <5.0 | <5.0 | <5.0 |
| | 03/18/2019 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 09/24/2019 | SSPL VOCs | <10 | <10 | <10 | <10 |
| | 09/14/2022 | SSPL VOCs | <10 | <10 | <10 | <10 |

See notes on last page

| Sample Location | Sampling Date | Analysis | PCE (µg/L) | TCE (µg/L) | 1,2-DCE Total (µg/L) | Vinyl Chloride (µg/L) |
|---|---|---|---|---|---|---|
| MP-6S | 09/24/2001 | SSPL VOCs | 120 | <5.0 | <5.0 | <5.0 |
| | 12/04/2001 | SSPL VOCs | 37 | <2 | 0.2J | <2 |
| | 01/29/2002 | SSPL VOCs | 890 | 50J | 9J | <31 |
| | 04/03/2002 | SSPL VOCs | 2,100 | 39J | 100 | <84 |
| | 09/12/2002 | SSPL VOCs | 150 | 6 | 16 | <4 |
| | 03/26/2003 | SSPL VOCs | 1,900 | 46 | 110 | <63 |
| | 09/17/2003 | SSPL VOCs | 1,500 | 48 | 130 | <63 |
| | 04/07/2004 | SSPL VOCs | 3,200 | 43J | 110 | <83 |
| | 09/24/2004 | SSPL VOCs | 2,400 | 34 | 63 | <100 |
| | 5/10 to 6/14/2005 | Phase I ISCO Field Test | | | | |
| | 09/28/2005 | SSPL VOCs | 2,700 | 26 | 34 | <2 |
| | 02/01/2006 | Phase II ISCO Field Test | | | | |
| | 03/06/2006 | SSPL VOCs | 1,200D | 10J | 11J | <25 |
| | 03/08/2006 | Phase II ISCO Field Test | | | | |
| | 04/05/2006 | SSPL VOCs | 1,800 | <50 | <50 | <50 |
| | 04/05/2006 | Phase II ISCO Field Test | | | | |
| | 09/20/2006 | SSPL VOCs | 2,100D | 20J | 15J | <50 |
| | 04/03/2007 | SSPL VOCs | 1,300 | <50 | <50 | <50 |
| | 06/13/2007 | Phase III ISCO Field Test | | | | |
| | 08/29/2007 | Phase III ISCO Field Test | | | | |
| | 10/16/2007 | SSPL VOCs | 2,300D | 18J | 15 J | <100 |
| | 11/27/2007 | Phase III ISCO Field Test | | | | |
| | 03/25/2008 | SSPL VOCs | NS | NS | NS | NS |
| | 04/01/2008 | Phase III ISCO Field Test | | | | |
| | 07/24/2008 | Phase III ISCO Field Test | | | | |
| | 10/01/2008 | SSPL VOCs | 2,200 | 11J | 9.4 J | <100 |
| | 10/03/2008 | Phase III ISCO Field Test | | | | |
| | 03/19/2009 | SSPL VOCs | NS | NS | NS | NS |
| | 09/23/2009 | SSPL VOCs | 1,000 | 7.2 J | 6.5 J | <50 |
| | 03/17/2010 | SSPL VOCs | 1,100 | <50 | <50 | <50 |
| | 12/19/2011 | SSPL VOCs | 1500 (1000) | 8.0 J (6.3 J) | 5.4 J (4.7 J) | < 50 (<50) |
| | 02/16/2012 | SSPL VOCs | 1,200 | 7.8 J | 5.5 J | <50 |
| | 04/18/2012 | SSPL VOCs | 980 | 5.9 J | 5.1 J | <50 |
| | 06/19/2012 | SSPL VOCs | 970 | 6.1 J | 3.6 J | <50 |
| | 09/19/2012 | SSPL VOCs | 920 | 6.5 J | 4.8 J | <25 |
| | 12/20/2012 | SSPL VOCs | 420 | 4.2 J | 3.0 J | < 13 |
| | 03/14/2013 | SSPL VOCs | 750 D | 4.5 DJ | 3.2 DJ | <25 |
| | 09/03/2013 | SSPL VOCs | 590 | 2.2 J | <25 | <25 |
| | 03/19/2014 | SSPL VOCs | 470 | 2.7 J | 1.4 J | <13 |
| | 09/17/2014 | SSPL VOCs | 450 | 3.4 J | 1.8 J | <13 |
| | 03/17/2015 | SSPL VOCs | 270 | 1.1 J | <13 | <13 |
| | 09/21/2015 | SSPL VOCs | 290 | 1.5 J | 1.4 J | <13 |
| | 03/16/2016 | SSPL VOCs | 290 D | 1.0 | 0.81 J | <5.0 |
| | 09/13/2016 | SSPL VOCs | 260 | 1.8 J | 2.3 J | <2.5 |
| | 03/23/2017 | SSPL VOCs | 200 (200) | 0.66 J (0.73 J) | <2.0 (0.57 J) | <2.0 (<1.0) |
| | 09/12/2017 | SSPL VOCs | 280 D | 2.3 | 2.3 | <1.0 |
| | 03/22/2018 | SSPL VOCs | 13 | <2.5 | <2.5 | <2.5 |
| | 09/19/2018 | SSPL VOCs | 260 | 0.90 J | <2.5 | < 2.5 |
| | 03/18/2019 | SSPL VOCs | 330 D (350 D) | <1.0 (<1.0) | <1.0 (<1.0) | <1.0 (<1.0) |
| | 09/16/2020 | SSPL VOCs | 360 | 2.1 J | 4.6 J | <2.5 |
| | 09/16/2021 | SSPL VOCs | 590 D | 2.7 | 1.7 J | <2.5 |
| | 09/15/2022 | SSPL VOCs | 370 | 1.4 J | <5.0 | <5.0 |
| MP-6D | 09/24/2001 | SSPL VOCs | 2 | <0.5 | <0.5 | <0.5 |
| | 12/04/2001 | SSPL VOCs | <0.5 | <0.5 | <0.5 | <0.5 |
| | 01/29/2002 | SSPL VOCs | 1 | 0.3J | <0.5 | <0.5 |
| | 04/03/2002 | SSPL VOCs | 0.6 | <0.5 | <0.5 | <0.5 |
| | 09/12/2002 | SSPL VOCs | 14 | 0.06J | <0.5 | <0.5 |
| | 03/26/2003 | SSPL VOCs | 0.4J | <0.5 | <0.5 | <0.5 |
| | 09/18/2003 | SSPL VOCs | 0.81 | <0.5 | <0.5 | <0.5 |
| | 04/07/2004 | SSPL VOCs | 1.3 | <0.5 | <0.5 | <0.5 |
| | 09/24/2004 | SSPL VOCs | 1.1 | <0.5 | <0.5 | <0.5 |
| | 5/10 to 6/14/2005 | Phase I ISCO Field Test | | | | |
| | 09/28/2005 | SSPL VOCs | <1 | <1 | <2 | <2 |
| | 02/01/2006 | Phase II ISCO Field Test | | | | |
| | 03/08/2006 | Phase II ISCO Field Test | | | | |
| | 04/05/2006 | SSPL VOCs | 0.62J | <5.0 | <5.0 | <5.0 |
| | 04/05/2006 | Phase II ISCO Field Test | | | | |
| | 09/20/2006 | SSPL VOCs | 0.38J | <5.0 | <5.0 | <5.0 |
| | 04/03/2007 | SSPL VOCs | 1.2J | <5.0 | <5.0 | <5.0 |
| | 06/13/2007 | Phase III ISCO Field Test | | | | |
| | 08/29/2007 | Phase III ISCO Field Test | | | | |
| | 10/16/2007 | SSPL VOCs | 5.4 | <5.0 | <5.0 | <5.0 |
| | 11/27/2007 | Phase III ISCO Field Test | | | | |
| | 03/25/2008 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 04/01/2008 | Phase III ISCO Field Test | | | | |
| | 07/24/2008 | Phase III ISCO Field Test | | | | |
| | 10/01/2008 | SSPL VOCs | 1.5J | <5.0 | <5.0 | <5.0 |
| | 10/03/2008 | Phase III ISCO Field Test | | | | |
| | 03/19/2009 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 09/23/2009 | SSPL VOCs | 140 | <5.0 | <5.0 | <5.0 |
| | 03/17/2010 | SSPL VOCs | <13 | <13 | <13 | <13 |
| | 12/19/2011 | SSPL VOCs | 0.28 J | <5.0 | <5.0 | <5.0 |
| | 02/16/2012 | SSPL VOCs | 15 | <5.0 | <5.0 | <5.0 |
| | 04/18/2012 | SSPL VOCs | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| | 06/19/2012 | SSPL VOCs | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| | 09/20/2012 | SSPL VOCs | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| | 12/21/2012 | SSPL VOCs | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| | 03/14/2013 | SSPL VOCs | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| | 09/05/2013 | SSPL VOCs | 1.3 J | < 5.0 | < 5.0 | < 5.0 |
| | 03/20/2014 | SSPL VOCs | 0.37 J | <5.0 | <5.0 | <5.0 |
| | 09/17/2014 | SSPL VOCs | 1.4 J | <5.0 | <5.0 | <5.0 |
| | 09/20/2015 | SSPL VOCs | 0.54 J | <5.0 | <5.0 | <5.0 |
| | 09/12/2016 | SSPL VOCs | <1.0 | <1.0 | <1.0 | <1.0 |
| | 09/12/2017 | SSPL VOCs | 0.33 J | <1.0 | <1.0 | <1.0 |
| | 09/18/2018 | SSPL VOCs | <1.0 | <1.0 | <1.0 | <1.0 |
| | 09/15/2020 | SSPL VOCs | <1.0 | <1.0 | <1.0 | <1.0 |
| | 09/16/2021 | SSPL VOCs | <1.0 | <1.0 | <1.0 | <1.0 |
| | 09/14/2022 | SSPL VOCs | <1.0 | <1.0 | <1.0 | <1.0 |
| MP-7 | 12/06/2001 | SSPL VOCs | 25 | 0.5J | 2.0 | <1.0 |
| | 01/31/2002 | SSPL VOCs | 0.3J | <0.5 | <0.5 | <0.5 |
| | 04/05/2002 | SSPL VOCs | 0.2 J | <0.5 | <0.5 | <0.5 |

See notes on last page

| Sample Location | Sampling Date | Analysis | PCE (µg/L) | TCE (µg/L) | 1,2-DCE Total (µg/L) | Vinyl Chloride (µg/L) |
|---|---|---|---|---|---|---|
| MP-8S | 09/27/2001 | SSPL VOCs | 150 | 2.0 J | 6.0 | 0.2J |
| | 12/04/2001 | SSPL VOCs | 10 | 1.0 | 2.0 | <0.5 |
| | 01/30/2002 | SSPL VOCs | 100 | 3.0 J | 6.0 J | <3 |
| | 04/04/2002 | SSPL VOCs | 260 | 7.0 J | 12 | <8 |
| | 09/17/2002 | SSPL VOCs | 0.02J | <0.5 | <0.5 | <0.5 |
| | 03/26/2003 | SSPL VOCs | 110 | 8.0 | 5.0 | <0.5 |
| | 09/18/2003 | SSPL VOCs | 17 | 6.7 | 8.4 | <0.5 |
| | 04/09/2004 | SSPL VOCs | 72 | 36 | 16 | <2.8 |
| | 09/22/2004 | SSPL VOCs | 76 | 22 | 7.8 | <2.8 |
| | 09/29/2005 | SSPL VOCs | 1.6 | 8.8 | 16 | <2.0 |
| | 02/01/2006 | Phase II ISCO Field Test | | | | |
| | 03/08/2006 | Phase II ISCO Field Test | | | | |
| | 04/04/2006 | SSPL VOCs | 3.0J | 12 | 17 | <5.0 |
| | 04/05/2006 | Phase II ISCO Field Test | | | | |
| | 09/21/2006 | SSPL VOCs | 1.2J | 4.2J | 6.8 | <5.0 |
| | 04/04/2007 | SSPL VOCs | 2.9J | 11 | 15 | <5.0 |
| | 06/13/2007 | Phase III ISCO Field Test | | | | |
| | 08/29/2007 | Phase III ISCO Field Test | | | | |
| | 10/16/2007 | SSPL VOCs | 5.5 | 6.0 | 14.4 J | <5.0 |
| | 11/27/2007 | Phase III ISCO Field Test | | | | |
| | 03/27/2008 | SSPL VOCs | 1.0 J | 4.7 J | 8.08 J | <5.0 |
| | 04/01/2008 | Phase III ISCO Field Test | | | | |
| | 07/24/2008 | Phase III ISCO Field Test | | | | |
| | 09/30/2008 | SSPL VOCs | 1.6 J | 19 | 43.1J | <5.0 |
| | 10/03/2008 | Phase III ISCO Field Test | | | | |
| | 03/17/2009 | SSPL VOCs | 1.1 J | 15 | 27 | 0.83 J |
| | 09/23/2009 | SSPL VOCs | NS | NS | NS | NS |
| | 03/15/2010 | SSPL VOCs | 13 | 36 | 75.6 | 1.5 J |
| | 12/20/2011 | SSPL VOCs | 49 | 51 | 88.5 | 1.9 J |
| | 03/16/2012 | SSPL VOCs | 31 | 34 | 69.6 | 1.5 J |
| | 06/20/2012 | SSPL VOCs | 31 | 58 | 91.6 | 1.7 J |
| | 09/21/2012 | SSPL VOCs | 64 | 63 | 102 | 1.7 J |
| | 12/19/2012 | SSPL VOCs | 51 | 59 | 86.3 | 1.8 J |
| | 03/15/2013 | SSPL VOCs | 68 | 61 | 94.9 | 1.9 J |
| | 09/04/2013 | SSPL VOCs | 68 | 61 | 92.3 | 1.2 J |
| | 09/19/2014 | SSPL VOCs | 65 | 59 | 87.3 | 0.84 J |
| | 09/21/2015 | SSPL VOCs | 23 | 25 | 67.7 J | 0.46 J |
| | 09/13/2016 | SSPL VOCs | 25 | 30 | 55.1 | 0.36 J |
| | 09/12/2017 | SSPL VOCs | 26 | 32 | 82.9 | 0.74 J |
| | 09/19/2018 | SSPL VOCs | 19 (35) | 15 (38) | 24.7 (82) | <1.0 (0.71 J) |
| | 09/16/2020 | SSPL VOCs | <1.0 | <1.0 | <1.0 | <1.0 |
| | 09/16/2021 | SSPL VOCs | 16 | 28 | 74.7 | 0.62 J |
| MP-8D | 09/27/2001 | SSPL VOCs | 2 | <0.5 | <0.5 | <0.5 |
| | 12/04/2001 | SSPL VOCs | 26 | 0.6J | 0.3J | <0.8 |
| | 01/30/2002 | SSPL VOCs | 0.3J | 0.03J | <0.5 | <0.5 |
| | 04/04/2002 | SSPL VOCs | 0.2J | 0.04J | <0.5 | <0.5 |
| | 09/17/2002 | SSPL VOCs | 1.0 | <0.5 | <0.5 | <0.5 |
| | 03/26/2003 | SSPL VOCs | 0.7 | <0.5 | <0.5 | <0.5 |
| | 09/18/2003 | SSPL VOCs | 3.2 | 0.067J | <0.5 | <0.5 |
| | 04/09/2004 | SSPL VOCs | 1.6 | <0.5 | <0.5 | <0.5 |
| | 09/22/2004 | SSPL VOCs | 0.8 | <0.5 | <0.5 | <0.5 |
| | 09/29/2005 | SSPL VOCs | 1.5 | <1.0 | <2.0 | <2.0 |
| | 02/01/2006 | Phase II ISCO Field Test | | | | |
| | 03/08/2006 | Phase II ISCO Field Test | | | | |
| | 04/04/2006 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 04/05/2006 | Phase II ISCO Field Test | | | | |
| | 09/21/2006 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 04/04/2007 | SSPL VOCs | 1.6 J | <5.0 | <5.0 | <5.0 |
| | 06/13/2007 | Phase III ISCO Field Test | | | | |
| | 08/29/2007 | Phase III ISCO Field Test | | | | |
| | 10/16/2007 | SSPL VOCs | 12 | 0.3 J | <5.0 | <5.0 |
| | 11/27/2007 | Phase III ISCO Field Test | | | | |
| | 03/27/2008 | SSPL VOCs | 1.9J | <5.0 | <5.0 | <5.0 |
| | 04/01/2008 | Phase III ISCO Field Test | | | | |
| | 07/24/2008 | Phase III ISCO Field Test | | | | |
| | 09/30/2008 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 10/03/2008 | Phase III ISCO Field Test | | | | |
| | 03/17/2009 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 09/24/2009 | SSPL VOCs | 8.1 | 8.6 | 19.7J | <5.0 |
| | 03/15/2010 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 12/20/2011 | SSPL VOCs | 0.45 J | < 5.0 | < 5.0 | < 5.0 |
| | 03/16/2012 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 06/20/2012 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 09/21/2012 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 12/19/2012 | SSPL VOCs | 0.89 | <5.0 | <5.0 | <5.0 |
| | 09/23/2013 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 09/19/2014 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 09/21/2015 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 09/13/2016 | SSPL VOCs | <1.0 | <1.0 | <1.0 | <1.0 |
| | 09/12/2017 | SSPL VOCs | <1.0 | <1.0 | <1.0 | <1.0 |
| | 09/18/2018 | SSPL VOCs | 0.68 J | <1.0 | <1.0 | <1.0 |
| | 09/15/2020 | SSPL VOCs | 1.9 | <1.0 | <1.0 | <1.0 |
| | 09/17/2021 | SSPL VOCs | 0.85 J | 0.24 J | <1.0 | <1.0 |
| | 09/15/2022 | SSPL VOCs | 0.89 J | <1.0 | <1.0 | <1.0 |
| MP-9 | 12/06/2001 | SSPL VOCs | 18 | 0.3J | 2 | <0.8 |
| | 01/31/2002 | SSPL VOCs | 5 | 0.2J | 0.7 | <0.5 |
| | 04/05/2002 | SSPL VOCs | 3 | 0.1J | 0.7 | <0.5 |
| MP-10S | 12/06/2001 | SSPL VOCs | 1 | <0.5 | 0.05 J | <0.5 |
| | 01/30/2002 | SSPL VOCs | 1 | 0.03J | 0.03 J | <0.5 |
| | 04/04/2002 | SSPL VOCs | 0.8 | <0.5 | 0.06 J | <0.5 |
| | 09/17/2002 | SSPL VOCs | 0.4 J | <0.5 | <0.5 | <0.5 |
| | 03/27/2003 | SSPL VOCs | <0.5 | <0.5 | <0.5 | <0.5 |
| MP-10D | 09/27/2001 | SSPL VOCs | <0.5 | <0.5 | <0.5 | <0.5 |
| | 12/06/2002 | SSPL VOCs | 0.07J | <0.5 | <0.5 | <0.5 |
| | 01/30/2002 | SSPL VOCs | 0.1J | <0.5 | <0.5 | <0.5 |
| | 04/04/2002 | SSPL VOCs | 0.3J | 0.04J | <0.5 | <0.5 |
| | 09/17/2002 | SSPL VOCs | 0.3J | <0.5 | <0.5 | <0.5 |
| | 03/27/2003 | SSPL VOCs | 0.5 | <0.5 | <0.5 | <0.5 |
| | 09/18/2003 | SSPL VOCs | 1.8 | <0.5 | <0.5 | <0.5 |
| | 04/09/2004 | SSPL VOCs | <0.5 | <0.5 | <0.5 | <0.5 |
| | 09/22/2004 | SSPL VOCs | 0.83 | <0.5 | <0.5 | <0.5 |
| | 09/29/2005 | SSPL VOCs | <1 | <1 | <2 | <2 |
| | 02/01/2006 | Phase II ISCO Field Test | | | | |
| | 03/08/2006 | Phase II ISCO Field Test | | | | |
| | 04/04/2006 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 04/05/2006 | Phase II ISCO Field Test | | | | |
| | 09/21/2006 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 04/04/2007 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 06/13/2007 | Phase III ISCO Field Test | | | | |
| | 08/29/2007 | Phase III ISCO Field Test | | | | |
| | 10/16/2007 | SSPL VOCs | 2.5J | <5.0 | <5.0 | <5.0 |
| | 11/27/2007 | Phase III ISCO Field Test | | | | |
| | 03/27/2008 | SSPL VOCs | 2.5J | <5.0 | <5.0 | <5.0 |
| | 04/01/2008 | Phase III ISCO Field Test | | | | |
| | 07/24/2008 | Phase III ISCO Field Test | | | | |
| | 10/01/2008 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 10/03/2008 | Phase III ISCO Field Test | | | | |
| | 03/17/2009 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 09/25/2009 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 03/15/2010 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 12/20/2011 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 03/15/2012 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 06/20/2012 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 09/21/2012 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 12/19/2012 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 09/23/2013 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| MP-11 | 10/28/2011 | SSPL VOCs | 11 | 0.28 J | 5.4 | 9.2 |
| | 12/19/2011 | SSPL VOCs | 25 | 0.36 J | 15 | 18 |
| | 02/15/2012 | SSPL VOCs | 32 | 0.36 J | 24 | 22 |
| | 04/19/2012 | SSPL VOCs | 41 | 0.34 J | 30 | 32 |
| | 06/21/2012 | SSPL VOCs | 52 | 0.49 J | 23 J | 31 |
| | 09/19/2012 | SSPL VOCs | 86 | 0.99 J | 38 | 32 |
| | 12/18/2012 | SSPL VOCs | 110 | 1.0 J | 50.35 J | 44 |
| | 03/13/2013 | SSPL VOCs | 170 | 1.4 J | 52.36 J | 23 |
| | 09/04/2013 | SSPL VOCs | 200 D | 1.8 DJ | 43.80 DJ | 26 D |
| | 03/18/2014 | SSPL VOCs | 220 | 1.6 J | 34 | 17 |
| | 09/17/2014 | SSPL VOCs | 3.1 J | <5.0 | <5.0 | <5.0 |
| | 03/16/2015 | SSPL VOCs | 67 | <5.0 | 2.3 J | <5.0 |
| | 09/22/2015 | SSPL VOCs | <25 | <25 | <25 | <25 |
| | 03/15/2016 | SSPL VOCs | 3.4 J | <5.0 | <5.0 | <5.0 |
| | 09/13/2016 | SSPL VOCs | 4.1 | <1.0 | <1.0 | <1.0 |
| | 09/13/2017 | SSPL VOCs | 7.7 | <1.0 | <1.0 | <1.0 |
| | 09/19/2018 | SSPL VOCs | <1.0 | <1.0 | <1.0 | <1.0 |
| | 09/15/2020 | SSPL VOCs | <10 | <10 | <10 | <10 |
| | 09/16/2021 | SSPL VOCs | <10 | <10 | <10 | <10 |
| | 09/13/2022 | SSPL VOCs | <10 | <10 | <10 | <10 |

See notes on last page

| Sample Location | Sampling Date | Analysis | PCE (µg/L) | TCE (µg/L) | 1,2-DCE Total (µg/L) | Vinyl Chloride (µg/L) |
|---|---|---|---|---|---|---|
| MP-12 | 10/28/2011 | SSPL VOCs | 78 | 4.4 J | 4.5 J | <5.0 |
| | 12/20/2011 | SSPL VOCs | 77 | 3.9 J | 4.5 J | <5.0 |
| | 02/15/2012 | SSPL VOCs | 51 | 2.8 J | 2.7 J | <5.0 |
| | 04/19/2012 | SSPL VOCs | 36 | 2.1 J | 2.2J | <5.0 |
| | 06/19/2012 | SSPL VOCs | 28 | 1.6 J | 1.4 J | <5.0 |
| | 09/19/2012 | SSPL VOCs | 79 | 3.7 J | 2.9 J | <5.0 |
| | 12/18/2012 | SSPL VOCs | 48 | 2.7 J | 2.5 J | <5.0 |
| | 03/14/2013 | SSPL VOCs | 34 | 1.8 J | 2.0 J | <5.0 |
| | 09/04/2013 | SSPL VOCs | 49 | 2.7 J | 2.2 J | <5.0 |
| | 03/18/2014 | SSPL VOCs | 27 | 1.4 J | 1.9 J | <5.0 |
| | 09/18/2014 | SSPL VOCs | 31 | 1.2 J | 1.1 J | <5.0 |
| | 03/16/2015 | SSPL VOCs | 26 | 0.88 J | 0.93 J | <5.0 |
| | 09/21/2015 | SSPL VOCs | 15 | 0.54 J | 0.78 J | <5.0 |
| | 03/15/2016 | SSPL VOCs | 13 | 0.44 J | 0.71 J | <5.0 |
| | 09/13/2016 | SSPL VOCs | <1.0 | <1.0 | <1.0 | <1.0 |
| | 03/23/2017 | SSPL VOCs | 17 | <1.0 | <1.0 | <1.0 |
| | 09/12/2017 | SSPL VOCs | 4.6 | <2.0 | <2.0 | <2.0 |
| | 03/21/2018 | SSPL VOCs | 5.1 J | <10 | <10 | <10 |
| | 09/19/2018 | SSPL VOCs | 12 | <5.0 | <5.0 | <5.0 |
| | 03/19/2019 | SSPL VOCs | <10 | <10 | <10 | <10 |
| | 09/15/2020 | SSPL VOCs | <10 | <10 | <10 | <10 |
| | 09/15/2021 | SSPL VOCs | <10 | <10 | <10 | <10 |
| | 09/13/2022 | SSPL VOCs | <10 | <10 | <10 | <10 |
| MP-13 | 10/28/2011 | SSPL VOCs | < 5.0 | 1.2 J | < 5.0 | <5.0 |
| | 12/19/2011 | SSPL VOCs | 1.2 J | 0.9 J | <5.0 | <5.0 |
| | 02/15/2012 | SSPL VOCs | 3.7 J | 0.50 J | <5.0 | <5.0 |
| | 04/18/2012 | SSPL VOCs | 0.82 J | 0.38 J | <5.0 | <5.0 |
| | 06/19/2012 | SSPL VOCs | 0.6 J | 0.51 J | <5.0 | <5.0 |
| | 09/20/2012 | SSPL VOCs | <5.0 | 0.51 | <5.0 | <5.0 |
| | 12/21/2012 | SSPL VOCs | 0.61 J | 0.41 J | <5.0 | <5.0 |
| | 09/25/2013 | SSPL VOCs | <5.0 | 0.32 J | <5.0 | <5.0 |
| | 09/17/2014 | SSPL VOCs | <5.0 | 0.33 J | <5.0 | <5.0 |
| | 09/22/2015 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 09/13/2016 | SSPL VOCs | <1.0 | <1.0 | <1.0 | <1.0 |
| | 09/11/2017 | SSPL VOCs | <1.0 | 0.26 J | <1.0 | <1.0 |
| | 09/18/2018 | SSPL VOCs | <1.0 | <1.0 | <1.0 | <1.0 |
| | 09/15/2020 | SSPL VOCs | <1.0 | <1.0 | <1.0 | <1.0 |
| | 09/15/2021 | SSPL VOCs | <1.0 | 0.36 J | <1.0 | <1.0 |
| | 09/15/2022 | SSPL VOCs | <1.0 | <1.0 | <1.0 | <1.0 |
| MP-14 | 10/31/2011 | SSPL VOCs | 30 | 1.6 J | 0.98 J | < 5.0 |
| | 12/21/2011 | SSPL VOCs | 37 | 2.0 J | 1.1 J | < 5.0 |
| | 02/15/2012 | SSPL VOCs | 29 | 1.7 J | 1.3 J | <5.0 |
| | 04/19/2012 | SSPL VOCs | 25 | 1.2 J | 1.1 J | <5.0 |
| | 06/20/2012 | SSPL VOCs | 30 | 1.6 J | 1.2 J | <5.0 |
| | 09/20/2012 | SSPL VOCs | 30 | 1.6 J | 1.1 J | <5.0 |
| | 12/18/2012 | SSPL VOCs | 27 | 1.5 J | 1.2 J | < 5.0 |
| | 03/14/2013 | SSPL VOCs | 32 | 1.6 J | 1.6 J | <5.0 |
| | 09/05/2013 | SSPL VOCs | 32 | 1.5 J | 1.2 J | < 5.0 |
| | 03/19/2014 | SSPL VOCs | 37 | 1.9 J | 1.9 J | <5.0 |
| | 09/18/2014 | SSPL VOCs | 45 | 1.9 J | 1.2 J | <5.0 |
| | 03/16/2015 | SSPL VOCs | 53 | 1.7 J | 1.2 J | <5.0 |
| | 09/21/2015 | SSPL VOCs | 50 | 0.71 J | 0.66 J | <5.0 |
| | 03/16/2016 | SSPL VOCs | 89 | 1.9 | 1.3 | <5.0 |
| | 09/14/2016 | SSPL VOCs | 10 | <1.0 | <1.0 | <1.0 |
| | 09/12/2017 | SSPL VOCs | 26 | 0.38 J | <1.0 | <1.0 |
| | 03/21/2018 | SSPL VOCs | 25 | 0.45 J | <1.0 | <1.0 |
| | 09/19/2018 | SSPL VOCs | 33 | 1.1 | 0.51 J | <1.0 |
| | 03/18/2019 | SSPL VOCs | 9.7 | <1.0 | <1.0 | <1.0 |
| | 09/17/2020 | SSPL VOCs | 6.1 | 0.25 J | <1.0 | <1.0 |
| | 09/16/2021 | SSPL VOCs | 14 | 0.32 J | <1.0 | <1.0 |
| | 09/15/2022 | SSPL VOCs | 7.6 | <1.0 | <1.0 | <1.0 |
| IJ-1 | 01/30/2006 | SSPL VOCs | <50 | <50 | <50 | <50 |
| | 12/20/2011 | SSPL VOCs | 180 | 1.6 J | 1 J | <5.0 |
| | 02/14/2012 | SSPL VOCs | 180D | 2.0 DJ | 1.2 DJ | <10 |
| | 04/18/2012 | SSPL VOCs | <10 | <10 | <10 | <10 |
| | 06/21/2012 | SSPL VOCs | < 5.0 | < 5.0 | < 5.0 | < 5.0 |
| | 09/20/2012 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 12/20/2012 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 09/03/2013 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 09/17/2014 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 09/22/2015 | SSPL VOCs | <50 | <50 | <50 | <50 |
| | 09/13/2016 | SSPL VOCs | <10 | <10 | <10 | <10 |
| | 09/12/2017 | SSPL VOCs | <10 | <10 | <10 | <10 |
| | 09/18/2018 | SSPL VOCs | <10 | <10 | <10 | <10 |
| IJ-2 | 01/30/2006 | SSPL VOCs | 15 J | <25 | <25 | <25 |
| IJ-3 | 01/30/2006 | SSPL VOCs | 10 | 3.5 J | <10 | <10 |
| IJ-4 | 01/30/2006 | SSPL VOCs | 6,700 | 40J | 55J | <250 |
| | 12/21/2011 | SSPL VOCs | 7,300 | 100 J | 200 J | <250 |
| | 02/15/2012 | SSPL VOCs | 7,200 | 120 J | 240 J | <250 |
| | 04/18/2012 | SSPL VOCs | <10 | <10 | <10 | <10 |
| | 06/21/2012 | SSPL VOCs | 1200 D | 4.0 J | 2.8 J | <10 |
| | 09/19/2012 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 12/20/2012 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 03/14/2013 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 09/04/2013 | SSPL VOCs | <10 | <10 | <10 | <10 |
| | 03/18/2014 | SSPL VOCs | 190 | 0.39 J | 0.34 J | <5.0 |
| | 09/17/2014 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 03/17/2015 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 09/22/2015 | SSPL VOCs | <25 | <25 | <25 | <25 |
| | 03/15/2016 | SSPL VOCs | <25 | <25 | <25 | <25 |
| | 09/13/2016 | SSPL VOCs | <2.5 | <2.5 | <2.5 | <2.5 |
| | 03/23/2017 | SSPL VOCs | <10 | <10 | <10 | <10 |
| | 09/12/2017 | SSPL VOCs | <10 | <10 | <10 | <10 |
| | 03/21/2018 | SSPL VOCs | 4.8 J | <5.0 | <5.0 | <5.0 |
| | 09/19/2018 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 03/18/2019 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| IJ-5 | 01/30/2006 | SSPL VOCs | <5.0 | 6.7 | 8.5 | <5.0 |
| | 12/21/2011 | SSPL VOCs | 0.90 J | <5.0 | <5.0 | <5.0 |
| | 02/15/2012 | SSPL VOCs | 0.44 J | <5.0 | <5.0 | <5.0 |
| | 04/19/2012 | SSPL VOCs | < 5.0 | <5.0 | <5.0 | <5.0 |
| | 06/20/2012 | SSPL VOCs | 0.22 J | <5.0 | <5.0 | <5.0 |
| | 09/20/2012 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 12/18/2012 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 03/15/2013 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 09/05/2013 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 03/19/2014 | SSPL VOCs | 0.32 J | <5.0 | <5.0 | <5.0 |
| | 09/18/2014 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 03/21/2018 | SSPL VOCs | 1.5 J | <5.0 | <5.0 | <5.0 |
| | 03/18/2019 | SSPL VOCs | <1.0 | <1.0 | <1.0 | <1.0 |
| IJ-6 | 01/30/2006 | SSPL VOCs | 390 | 4 J | 9.7 J | <13 |
| IJ-8 | 03/21/2018 | SSPL VOCs | 0.36 J | <1.0 | <1.0 | <1.0 |
| | 03/19/2019 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| IJ-10 | 10/28/2011 | SSPL VOCs | 200 | 150 | 380.7 J | 1.1 J |
| | 12/20/2011 | SSPL VOCs | 310 | 110 | 302.5 J | 2.0 J |
| | 02/14/2012 | SSPL VOCs | 230 | 88 | 364.1 J | 3.0 J |
| | 04/18/2012 | SSPL VOCs | <13 | <13 | <13 | <13 |
| | 06/21/2012 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 09/20/2012 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 12/20/2012 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 03/14/2013 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 09/03/2013 | SSPL VOCs | 2.0 J | <5.0 | <5.0 | <5.0 |
| | 03/19/2014 | SSPL VOCs | 0.92 J | <5.0 | <5.0 | <5.0 |
| | 09/17/2014 | SSPL VOCs | 1.5 J | <5.0 | <5.0 | <5.0 |
| | 03/17/2015 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 09/22/2015 | SSPL VOCs | <50 | <50 | <50 | <50 |
| | 03/15/2016 | SSPL VOCs | <50 (<50) | <50 (<50) | <50 (<50) | <50 (<50) |
| | 09/13/2016 | SSPL VOCs | <10 | <10 | <10 | <10 |
| | 03/23/2017 | SSPL VOCs | 7.6 J | <10 | <10 | <10 |
| | 09/12/2017 | SSPL VOCs | <10 | <10 | <10 | <10 |
| | 03/21/2018 | SSPL VOCs | 8.1 J | <10 | <10 | <10 |
| | 09/20/2018 | SSPL VOCs | <5.0 | <5.0 | <5.0 | <5.0 |
| | 03/20/2019 | SSPL VOCs | <10 | <10 | <10 | <10 |

**Notes:**

= Concentration exceeds NYSDEC GWQS

= Baseline sample before full-scale ISCO system initiation

'= Well has since been abandoned

J = Result is an estimated concentration

D = Result if from a sample dilution

< = Compound not detected above laboratory reporting limit given

PCE = Tetrachloroethene

TCE = Trichloroethene

1,2 DCE = Sum of cis-1,2-Dichloroethene and trans-1,2-Dichloroethene isomers

NS = Not sampled

µg/L = Micrograms per liter

SSPL VOCs = Site specific parameter list volatile organic compounds

( ) = Result in parentheses indicates result is from a sample duplicate

**Table 6 Summary of SSPL VOC Groundwater Analytical Results – September 2022, Former Dover Electronics Site, Kirkwood, New York**

| Sample ID | | MW2-091522 | MW3-091522 | MW7A-091322 | MW13-091622 | MW14-091622 |
|---|---|---|---|---|---|---|
| Laboratory ID | | R2208844-005 | R2208844-009 | R2208794-002 | R2208844-015 | R2208844-018 |
| Date Sampled | NYSDEC | 9/15/2022 | 9/15/2022 | 9/13/2022 | 9/16/2022 | 9/16/2022 |
| Units | GWQS | ug/L | ug/L | ug/L | ug/L | ug/L |
| 1,1,1-Trichloroethane | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| 1,1-Dichloroethane | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| 1,1-Dichloroethene | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Tetrachloroethene | 5 | 19 | 140 | 17 | 2.9 | 1.0 U |
| Trichloroethene | 5 | 3.5 | 1.0 U | 1.0 U | 0.22 J | 1.0 U |
| Vinyl Chloride | 2 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| cis-1,2-Dichloroethene | 5 | 2.3 | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| trans-1,2-Dichloroethene | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |

| Sample ID | | MW16-091622 | MW17-091522 | MW19-091422 | MW22-091522 | MW24-091522 |
|---|---|---|---|---|---|---|
| Laboratory ID | | R2208844-017 | R2208844-010 | R2208794-012 | R2208844-012 | R2208844-004 |
| Date Sampled | NYSDEC | 9/16/2022 | 9/15/2022 | 9/14/2022 | 9/15/2022 | 9/15/2022 |
| Units | GWQS | ug/L | ug/L | ug/L | ug/L | ug/L |
| 1,1,1-Trichloroethane | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| 1,1-Dichloroethane | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| 1,1-Dichloroethene | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Tetrachloroethene | 5 | 25 | 0.56 J | 11 | 1.0 U | 1.0 U |
| Trichloroethene | 5 | 1.0 U | 1.0 U | 3.5 | 1.0 U | 1.0 U |
| Vinyl Chloride | 2 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| cis-1,2-Dichloroethene | 5 | 1.0 U | 1.0 U | 2.5 | 1.0 U | 1.0 U |
| trans-1,2-Dichloroethene | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |

| Sample ID | | MW25R-091622 | MW26-091422 | MW27-091422 | MW28-091422 | MW31-091422 |
|---|---|---|---|---|---|---|
| Laboratory ID | | R2208844-016 | R2208794-014 | R2208794-013 | R2208794-011 | R2208794-009 |
| Date Sampled | NYSDEC | 9/16/2022 | 9/14/2022 | 9/14/2022 | 9/14/2022 | 9/14/2022 |
| Units | GWQS | ug/L | ug/L | ug/L | ug/L | ug/L |
| 1,1,1-Trichloroethane | 5 | 1.0 U | 1.0 U | 1.0 U | 5.0 U | 1.0 U |
| 1,1-Dichloroethane | 5 | 1.0 U | 1.0 U | 1.0 U | 5.0 U | 1.0 U |
| 1,1-Dichloroethene | 5 | 1.0 U | 1.0 U | 1.0 U | 5.0 U | 1.0 U |
| Tetrachloroethene | 5 | 1.1 | 4.8 | 0.65 J | 5.0 U | 1.0 U |
| Trichloroethene | 5 | 1.0 U | 1.5 | 0.59 J | 5.0 U | 1.0 U |
| Vinyl Chloride | 2 | 1.0 U | 1.0 U | 1.0 U | 5.0 U | 1.0 U |
| cis-1,2-Dichloroethene | 5 | 1.0 U | 2.0 | 12 | 5.0 U | 0.28 J |
| trans-1,2-Dichloroethene | 5 | 1.0 U | 1.0 U | 1.0 U | 5.0 U | 1.0 U |

| Sample ID | | MW-32-091422 | MW-35-091422 | MW38-091522 | MW39-091422 | MP3D-091422 |
|---|---|---|---|---|---|---|
| Laboratory ID | | R2208794-006 | R2208794-005 | R2208844-003 | R2208794-008 | R2208794-015 |
| Date Sampled | NYSDEC | 9/14/2022 | 9/14/2022 | 9/15/2022 | 9/14/2022 | 9/14/2022 |
| Units | GWQS | ug/L | ug/L | ug/L | ug/L | ug/L |
| 1,1,1-Trichloroethane | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| 1,1-Dichloroethane | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| 1,1-Dichloroethene | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Tetrachloroethene | 5 | 1.0 U | 1.0 U | 65 | 1.0 U | 1.0 U |
| Trichloroethene | 5 | 0.27 J | 1.0 U | 6.1 | 1.8 | 1.0 U |
| Vinyl Chloride | 2 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| cis-1,2-Dichloroethene | 5 | 0.41 J | 1.0 U | 4.9 | 1.0 U | 0.55 J |
| trans-1,2-Dichloroethene | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |

| Sample ID | | MP4R-091522 | DUP-091522 | MP5R-091422 | MP6S-091522 | MP-6D-091422 |
|---|---|---|---|---|---|---|
| Laboratory ID | | R2208844-007 | R2208844-008 | R2208794-010 | R2208844-006 | R2208794-007 |
| Date Sampled | NYSDEC | 9/15/2022 | 9/15/2022 | 9/14/2022 | 9/15/2022 | 9/14/2022 |
| Units | GWQS | ug/L | ug/L | ug/L | ug/L | ug/L |
| 1,1,1-Trichloroethane | 5 | 10 U | 10 U | 10 U | 5.0 U | 1.0 U |
| 1,1-Dichloroethane | 5 | 10 U | 10 U | 10 U | 5.0 U | 1.0 U |
| 1,1-Dichloroethene | 5 | 10 U | 10 U | 10 U | 5.0 U | 1.0 U |
| Tetrachloroethene | 5 | 1300 | 1000 | 10 U | 370 | 1.0 U |
| Trichloroethene | 5 | 2.4 J | 10 U | 10 U | 1.4 J | 1.0 U |
| Vinyl Chloride | 2 | 10 U | 10 U | 10 U | 5.0 U | 1.0 U |
| cis-1,2-Dichloroethene | 5 | 10 U | 10 U | 10 U | 5.0 U | 1.0 U |
| trans-1,2-Dichloroethene | 5 | 10 U | 10 U | 10 U | 5.0 U | 1.0 U |

| Sample ID | | MP8D-091522 | MP-11-091322 | MP-12-091322 | MP13-091522 | MP-14-091522 |
|---|---|---|---|---|---|---|
| Laboratory ID | | R2208844-011 | R2208794-004 | R2208794-003 | R2208844-002 | R2208844-013 |
| Date Sampled | NYSDEC | 9/15/2022 | 9/13/2022 | 9/13/2022 | 9/15/2022 | 9/15/2022 |
| Units | GWQS | ug/L | ug/L | ug/L | ug/L | ug/L |
| 1,1,1-Trichloroethane | 5 | 1.0 U | 10 U | 10 U | 1.0 U | 1.0 U |
| 1,1-Dichloroethane | 5 | 1.0 U | 10 U | 10 U | 1.0 U | 1.0 U |
| 1,1-Dichloroethene | 5 | 1.0 U | 10 U | 10 U | 1.0 U | 1.0 U |
| Tetrachloroethene | 5 | 0.89 J | 10 U | 10 U | 1.0 U | 7.6 |
| Trichloroethene | 5 | 1.0 U | 10 U | 10 U | 1.0 U | 1.0 U |
| Vinyl Chloride | 2 | 1.0 U | 10 U | 10 U | 1.0 U | 1.0 U |
| cis-1,2-Dichloroethene | 5 | 1.0 U | 10 U | 10 U | 1.0 U | 1.0 U |
| trans-1,2-Dichloroethene | 5 | 1.0 U | 10 U | 10 U | 1.0 U | 1.0 U |

| Sample ID | | TB-091422 | TB-091622 | FB-091422 | FB-091522 | FB-091622 |
|---|---|---|---|---|---|---|
| Laboratory ID | | R2208794-017 | R2208844-001 | R2208794-016 | R2208844-014 | R2208844-019 |
| Date Sampled | NYSDEC | 9/13/2022 | 9/16/2022 | 9/14/2022 | 9/15/2022 | 9/16/2022 |
| Units | GWQS | ug/L | ug/L | ug/L | ug/L | ug/L |
| 1,1,1-Trichloroethane | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| 1,1-Dichloroethane | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| 1,1-Dichloroethene | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Tetrachloroethene | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Trichloroethene | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Vinyl Chloride | 2 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| cis-1,2-Dichloroethene | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| trans-1,2-Dichloroethene | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |

**Notes:**

Yellow highlight = concentration exceeds NYSDEC GWQS

NYSDEC = New York State Department of Environmental Conservation

U = Compound analyzed for but not detected aboive method reporting limit given

"DUP" indicates the sample is a duplicate sample of that sample immediately preceding the duplicate sample on this table

GWQS = Ground Water Quality Standards

J = Estimated value

µg/l = micrograms per liter

"FB" indicates the sample is an equipment blank sample

"TB" indicates the sample is a trip blank sample

**Table 7 Indoor Air Sampling Analytical Results - March 2022 - Former Dover Electronics Site, Kirkwood, New York**

| Sample Location | Computer Servers | | | | Hallway | | | | Office Area #1 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Date | 3/9/2022 | | | | 3/9/2022 | | | | 3/9/2022 | | | |
| Laboratory Sample ID | P2201095-001 | | | | P2201095-002 | | | | P2201095-003 | | | |
| Units | ppbv | Q | µg/m³ | Q | ppbv | Q | µg/m³ | Q | ppbv | Q | µg/m³ | Q |
| Volatile Organic Compounds | | | | | | | | | | | | |
| Dichlorodifluoromethane (Freon 12) | **0.92** | | **4.6** | | **0.81** | | **4.0** | | **0.63** | | **3.1** | |
| Chloromethane | **0.15** | | **0.32** | | **0.14** | | **0.29** | | **0.17** | | **0.35** | |
| Freon 114 | 0.10 | U | 0.72 | U | 0.10 | U | 0.72 | U | 0.10 | U | 0.71 | U |
| Vinyl Chloride | 0.057 | U | 0.15 | U | 0.058 | U | 0.15 | U | 0.057 | U | 0.15 | U |
| 1,3-Butadiene | 0.13 | U | 0.28 | U | 0.13 | U | 0.28 | U | 0.13 | U | 0.28 | U |
| Bromomethane | 0.072 | U | 0.28 | U | 0.072 | U | 0.28 | U | 0.071 | U | 0.28 | U |
| Chloroethane | 0.11 | U | 0.28 | U | 0.11 | U | 0.28 | U | 0.11 | U | 0.28 | U |
| Ethanol | **340** | **E** | **650** | **E** | **260** | **E** | **490** | **E** | **110** | | **210** | |
| Acetonitrile | 0.79 | U | 1.3 | U | 0.80 | U | 1.3 | U | 0.79 | U | 1.3 | U |
| Acrolein | 0.58 | U | 1.3 | U | 0.58 | U | 1.3 | U | 0.58 | U | 1.3 | U |
| Acetone | 2.9 | U | 6.9 | U | **3.0** | | **7.0** | | 2.9 | U | 6.9 | U |
| Trichlorofluoromethane (Freon 11) | **1.9** | | **11** | | **2.3** | | **13** | | **3.1** | | **17** | |
| 2-Propanol (Isopropyl Alcohol) | 0.54 | U | 1.3 | U | **1.2** | | **2.9** | | **0.94** | | **2.3** | |
| Acrylonitrile | 0.61 | U | 1.3 | U | 0.62 | U | 1.3 | U | 0.61 | U | 1.3 | U |
| 1,1-Dichloroethene | 0.037 | U | 1.5 | U | 0.037 | U | 0.15 | U | 0.037 | U | 0.15 | U |
| Methylene Chloride | **0.21** | | **0.73** | | 0.20 | U | 0.70 | U | 0.20 | U | 0.69 | U |
| 3-Chloro-1-propene (Allyl Chloride) | 0.23 | U | 0.70 | U | 0.23 | U | 0.71 | U | 0.22 | U | 0.70 | U |
| Trichlorotrifluoroethane (Freon 113) | 0.094 | U | 0.72 | U | 0.094 | U | 0.72 | U | 0.093 | U | 0.71 | U |
| Carbon Disulfide | 0.47 | U | 1.5 | U | 0.47 | U | 1.5 | U | 0.47 | U | 1.5 | U |
| trans-1,2-Dichloroethene | 0.037 | U | 0.15 | U | 0.037 | U | 0.15 | U | 0.037 | U | 0.15 | U |
| 1,1-Dichloroethane | 0.036 | U | 0.15 | U | 0.036 | U | 0.15 | U | 0.036 | U | 0.15 | U |
| Methyl tert-Butyl Ether | 0.20 | U | 0.70 | U | 0.20 | U | 0.71 | U | 0.19 | U | 0.70 | U |
| Vinyl Acetate | 1.9 | U | 6.7 | U | 1.9 | U | 6.7 | U | 1.9 | U | 6.6 | U |
| 2-Butanone (MEK) | 0.45 | U | 1.3 | U | 0.45 | U | 1.3 | U | **0.52** | | **1.5** | |
| cis-1,2-Dichloroethene | 0.037 | U | 0.15 | U | 0.037 | U | 0.15 | U | 0.037 | U | 0.15 | U |
| n-Hexane | 0.20 | U | 0.70 | U | 0.20 | U | 0.71 | U | 0.20 | U | 0.70 | U |
| Chloroform | 0.030 | U | 0.15 | U | 0.030 | U | 0.15 | U | 0.030 | U | 0.15 | U |
| 1,2-Dichloroethane | 0.036 | U | 0.15 | U | 0.036 | U | 0.15 | U | 0.036 | U | 0.15 | U |
| 1,1,1-Trichloroethane | 0.027 | U | 0.15 | U | 0.027 | U | 0.15 | U | 0.027 | U | 0.15 | U |
| Benzene | **0.23** | | **0.73** | | **0.22** | | **0.70** | | **0.19** | | **0.62** | |
| Carbon Tetrachloride | **0.058** | | **0.37** | | **0.057** | | **0.36** | | **0.056** | | **0.35** | |
| 1,2-Dichloropropane | 0.032 | U | 0.15 | U | 0.032 | U | 0.15 | U | 0.031 | U | 0.15 | U |
| Bromodichloromethane | 0.022 | U | 0.15 | U | 0.022 | U | 0.15 | U | 0.022 | U | 0.15 | U |
| Trichloroethene (TCE) | 0.027 | U | 0.15 | U | 0.027 | U | 0.15 | U | 0.027 | U | 0.15 | U |
| 1,4-Dioxane | 0.19 | U | 0.69 | U | 0.19 | U | 0.70 | U | 0.19 | U | 0.69 | U |
| cis-1,3-Dichloropropene | 0.16 | U | 0.70 | U | 0.16 | U | 0.71 | U | 0.15 | U | 0.70 | U |
| 4-Methyl-2-pentanone | 0.36 | U | 1.5 | U | 0.36 | U | 1.5 | U | 0.35 | U | 1.5 | U |
| trans-1,3-Dichloropropene | 0.15 | U | 0.68 | U | 0.15 | U | 0.68 | U | 0.15 | U | 0.67 | U |
| 1,1,2-Trichloroethane | 0.027 | U | 0.15 | U | 0.027 | U | 0.15 | U | 0.027 | U | 0.15 | U |
| Toluene | **0.71** | | **0.19** | | **0.27** | | **1.0** | | **0.21** | | **0.81** | |
| 2-Hexanone | 0.36 | U | 1.5 | U | 0.36 | U | 1.5 | U | 0.35 | U | 1.5 | U |
| Dibromochloromethane | 0.017 | U | 0.15 | U | 0.017 | U | 0.15 | U | 0.017 | U | 0.15 | U |
| 1,2-Dibromoethane | 0.019 | U | 0.15 | U | 0.019 | U | 0.15 | U | 0.019 | U | 0.15 | U |
| n-Butyl Acetate | 0.31 | U | 1.5 | U | 0.31 | U | 1.5 | U | 0.31 | U | 1.5 | U |
| Tetrachloroethene (PCE) | **0.15** | | **1.0** | | **0.19** | | **1.3** | | **0.18** | | **1.2** | |
| Chlorobenzene | 0.15 | U | 0.69 | U | 0.15 | U | 0.70 | U | 0.15 | U | 0.69 | U |
| Ethylbenzene | 0.16 | U | 0.69 | U | 0.16 | U | 0.70 | U | 0.16 | U | 0.69 | U |
| m,p-Xylenes | 0.34 | U | 1.5 | U | 0.34 | U | 1.5 | U | 0.33 | U | 1.5 | U |
| Bromoform | 0.067 | U | 0.69 | U | 0.067 | U | 0.70 | U | 0.066 | U | 0.69 | U |
| Styrene | 0.16 | U | 0.69 | U | 0.16 | U | 0.70 | U | 0.16 | U | 0.69 | U |
| o-Xylene | 0.16 | U | 0.69 | U | 0.16 | U | 0.70 | U | 0.16 | U | 0.69 | U |
| n-Nonane | 0.13 | U | 0.69 | U | 0.13 | U | 0.70 | U | 0.13 | U | 0.69 | U |
| 1,1,2,2-Tetrachloroethane | 0.021 | U | 0.15 | U | 0.021 | U | 0.15 | U | 0.021 | U | 0.15 | U |
| Cumene | 0.14 | U | 0.69 | U | 0.14 | U | 0.70 | U | 0.14 | U | 0.69 | U |
| alpha-Pinene | 0.13 | U | 0.72 | U | **0.15** | | **0.85** | | 0.13 | U | 0.71 | U |
| 4-Ethyltoluene | 0.14 | U | 0.70 | U | 0.14 | U | 0.71 | U | 0.14 | U | 0.70 | U |
| 1,3,5-Trimethylbenzene | 0.14 | U | 0.69 | U | 0.14 | U | 0.70 | U | 0.14 | U | 0.69 | U |
| 1,2,4-Trimethylbenzene | 0.14 | U | 0.69 | U | 0.14 | U | 0.70 | U | 0.14 | U | 0.69 | U |
| Benzyl Chloride | 0.28 | U | 1.5 | U | 0.28 | U | 1.5 | U | 0.28 | U | 1.5 | U |
| 1,3-Dichlorobenzene | 0.12 | U | 0.69 | U | 0.12 | U | 0.70 | U | 0.11 | U | 0.69 | U |
| 1,4-Dichlorobenzene | 0.12 | U | 0.69 | U | 0.12 | U | 0.70 | U | 0.11 | U | 0.69 | U |
| 1,2-Dichlorobenzene | 0.12 | U | 0.70 | U | 0.12 | U | 0.71 | U | 0.12 | U | 0.70 | U |
| d-Limonene | 0.12 | U | 0.69 | U | **0.24** | | **1.4** | | 0.12 | U | 0.69 | U |
| 1,2-Dibromo-3-chloropropane | 0.14 | U | 1.3 | U | 0.14 | U | 1.3 | U | 0.14 | U | 1.3 | U |
| 1,2,4-Trichlorobenzene | 0.18 | U | 1.3 | U | 0.18 | U | 1.3 | U | 0.18 | U | 1.3 | U |
| Naphthalene | 0.13 | U | 0.69 | U | 0.13 | U | 0.70 | U | 0.13 | U | 0.69 | U |
| Hexachlorobutadiene | 0.065 | U | 0.69 | U | 0.065 | U | 0.70 | U | 0.064 | U | 0.69 | U |

**Notes:**

**Bold = compound detected in sample**

Yellow = compounds of concern

µg/m³ = micrograms per cubic meter

ppbv = parts per billion by volume

All samples analyzed by ALS Environmental of Simi Valley, CA

Q = Qualifier

U = Constituent not detected above reporting limit given

E = Estimated; concentration exceeded calibration range

**Table 7 (Continued) Indoor Air Sampling Analytical Results - March 2022 - Former Dover Electronics Site, Kirkwood, New York**

| Sample Location | Cafeteria | | | | A/C Area | | | | Office Area #2 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Date | 3/9/2022 | | | | 3/9/2022 | | | | 3/9/2022 | | | |
| Laboratory Sample ID | P2201095-004 | | | | P2201095-005 | | | | P2201095-006 | | | |
| Units | ppbv | Q | µg/m³ | Q | ppbv | Q | µg/m³ | Q | ppbv | Q | µg/m³ | Q |
| Volatile Organic Compounds | | | | | | | | | | | | |
| Dichlorodifluoromethane (Freon 12) | **0.63** | | **3.1** | | **0.66** | | **3.3** | | **0.64** | | **3.2** | |
| Chloromethane | **0.16** | | **0.33** | | **0.17** | | **0.35** | | 0.14 | U | 0.29 | U |
| Freon 114 | 0.11 | U | 0.75 | U | 0.10 | U | 0.73 | U | 0.11 | U | 0.76 | U |
| Vinyl Chloride | 0.059 | U | 0.15 | U | 0.058 | U | 0.15 | U | 0.060 | U | 0.15 | U |
| 1,3-Butadiene | 0.13 | U | 0.29 | U | 0.13 | U | 0.28 | U | 0.13 | U | 0.29 | U |
| Bromomethane | 0.075 | U | 0.29 | U | 0.073 | U | 0.28 | U | 0.076 | U | 0.29 | U |
| Chloroethane | 0.11 | U | 0.29 | U | 0.11 | U | 0.28 | U | 0.11 | U | 0.29 | U |
| Ethanol | **96** | | **180** | | **130** | | **240** | | **110** | | **200** | |
| Acetonitrile | 0.82 | U | 1.4 | U | 0.80 | U | 1.4 | U | 0.83 | U | 1.4 | U |
| Acrolein | 0.60 | U | 1.4 | U | 0.59 | U | 1.4 | U | 0.61 | U | 1.4 | U |
| Acetone | 3.0 | U | 7.2 | U | **4.2** | | **10** | | **3.8** | | **9.1** | |
| Trichlorofluoromethane (Freon 11) | **3.0** | | **17** | | **2.1** | | **12** | | **3.0** | | **17** | |
| 2-Propanol (Isopropyl Alcohol) | **2.6** | | **6.4** | | **1.1** | | **2.8** | | **0.78** | | **1.9** | |
| Acrylonitrile | 0.64 | U | 1.4 | U | 0.62 | U | 1.4 | U | 0.65 | U | 1.4 | U |
| 1,1-Dichloroethene | 0.038 | U | 0.15 | U | 0.037 | U | 0.15 | U | 0.039 | U | 0.15 | U |
| Methylene Chloride | 0.21 | U | 0.72 | U | 0.20 | U | 0.70 | U | 0.21 | U | 0.73 | U |
| 3-Chloro-1-propene (Allyl Chloride) | 0.23 | U | 0.73 | U | 0.23 | U | 0.72 | U | 0.24 | U | 0.74 | U |
| Trichlorotrifluoroethane (Freon 113) | 0.097 | U | 0.75 | U | 0.095 | U | 0.73 | U | 0.099 | U | 0.76 | U |
| Carbon Disulfide | 0.49 | U | 1.5 | U | 0.48 | U | 1.5 | U | 0.49 | U | 1.5 | U |
| trans-1,2-Dichloroethene | 0.038 | U | 0.15 | U | 0.037 | U | 0.15 | U | 0.039 | U | 0.15 | U |
| 1,1-Dichloroethane | 0.038 | U | 0.15 | U | 0.037 | U | 0.15 | U | 0.038 | U | 0.15 | U |
| Methyl tert-Butyl Ether | 0.20 | U | 0.73 | U | 0.20 | U | 0.72 | U | 0.21 | U | 0.74 | U |
| Vinyl Acetate | 2.0 | U | 6.9 | U | 1.9 | U | 6.8 | U | 2.0 | U | 7.0 | U |
| 2-Butanone (MEK) | 0.47 | U | 1.4 | U | 0.46 | U | 1.4 | U | 0.47 | U | 1.4 | U |
| cis-1,2-Dichloroethene | 0.038 | U | 0.15 | U | 0.037 | U | 0.15 | U | 0.039 | U | 0.15 | U |
| n-Hexane | 0.21 | U | 0.73 | U | 0.20 | U | 0.72 | U | 0.21 | U | 0.74 | U |
| Chloroform | 0.031 | U | 0.15 | U | 0.030 | U | 0.15 | U | 0.032 | U | 0.15 | U |
| 1,2-Dichloroethane | 0.038 | U | 0.15 | U | 0.037 | U | 0.15 | U | 0.038 | U | 0.15 | U |
| 1,1,1-Trichloroethane | 0.028 | U | 0.15 | U | 0.027 | U | 0.15 | U | 0.028 | U | 0.15 | U |
| Benzene | **0.24** | | **0.76** | | **0.20** | | **0.63** | | **0.20** | | **0.64** | |
| Carbon Tetrachloride | **0.057** | | **0.36** | | **0.056** | | **0.35** | | **0.055** | | **0.34** | |
| 1,2-Dichloropropane | 0.033 | U | 0.15 | U | 0.032 | U | 0.15 | U | 0.033 | U | 0.15 | U |
| Bromodichloromethane | 0.023 | U | 0.15 | U | 0.022 | U | 0.15 | U | 0.023 | U | 0.15 | U |
| Trichloroethene (TCE) | 0.028 | U | 0.15 | U | 0.028 | U | 0.15 | U | 0.029 | U | 0.15 | U |
| 1,4-Dioxane | 0.20 | U | 0.72 | U | 0.19 | U | 0.70 | U | 0.20 | U | 0.73 | U |
| cis-1,3-Dichloropropene | 0.16 | U | 0.73 | U | 0.16 | U | 0.72 | U | 0.16 | U | 0.74 | U |
| 4-Methyl-2-pentanone | 0.37 | U | 1.5 | U | 0.36 | U | 1.5 | U | 0.38 | U | 1.5 | U |
| trans-1,3-Dichloropropene | 0.16 | U | 0.7 | U | 0.15 | U | 0.69 | U | 0.16 | U | 0.71 | U |
| 1,1,2-Trichloroethane | 0.028 | U | 0.15 | U | 0.027 | U | 0.15 | U | 0.028 | U | 0.15 | U |
| Toluene | **0.63** | | **2.4** | | **0.23** | | **0.86** | | **0.29** | | **1.1** | |
| 2-Hexanone | 0.37 | U | 1.5 | U | 0.36 | U | 1.5 | U | 0.38 | U | 1.5 | U |
| Dibromochloromethane | 0.018 | U | 0.15 | U | 0.017 | U | 0.15 | U | 0.018 | U | 0.15 | U |
| 1,2-Dibromoethane | 0.020 | U | 0.15 | U | 0.019 | U | 0.15 | U | 0.020 | U | 0.15 | U |
| n-Butyl Acetate | 0.32 | U | 1.5 | U | 0.31 | U | 1.5 | U | 0.32 | U | 1.5 | U |
| Tetrachloroethene (PCE) | **0.17** | | **1.2** | | **0.26** | | **1.7** | | **0.17** | | **1.1** | |
| Chlorobenzene | 0.16 | U | 0.72 | U | 0.15 | U | 0.70 | U | 0.16 | U | 0.73 | U |
| Ethylbenzene | 0.17 | U | 0.72 | U | 0.16 | U | 0.70 | U | 0.17 | U | 0.73 | U |
| m,p-Xylenes | 0.35 | U | 1.5 | U | 0.34 | U | 1.5 | U | 0.35 | U | 1.5 | U |
| Bromoform | 0.069 | U | 0.72 | U | 0.068 | U | 0.70 | U | 0.070 | U | 0.73 | U |
| Styrene | 0.17 | U | 0.72 | U | 0.16 | U | 0.70 | U | 0.17 | U | 0.73 | U |
| o-Xylene | 0.17 | U | 0.72 | U | 0.16 | U | 0.70 | U | 0.17 | U | 0.73 | U |
| n-Nonane | 0.14 | U | 0.72 | U | 0.13 | U | 0.70 | U | 0.14 | U | 0.73 | U |
| 1,1,2,2-Tetrachloroethane | 0.02 | U | 0.15 | U | 0.022 | U | 0.15 | U | 0.022 | U | 0.15 | U |
| Cumene | 0.15 | U | 0.72 | U | 0.14 | U | 0.70 | U | 0.15 | U | 0.73 | U |
| alpha-Pinene | 0.13 | U | 0.75 | U | 0.13 | U | 0.73 | U | 0.14 | U | 0.76 | U |
| 4-Ethyltoluene | 0.15 | U | 0.73 | U | 0.15 | U | 0.72 | U | 0.15 | U | 0.74 | U |
| 1,3,5-Trimethylbenzene | 0.15 | U | 0.72 | U | 0.14 | U | 0.70 | U | 0.15 | U | 0.73 | U |
| 1,2,4-Trimethylbenzene | 0.15 | U | 0.72 | U | 0.14 | U | 0.70 | U | 0.15 | U | 0.73 | U |
| Benzyl Chloride | 0.29 | U | 1.5 | U | 0.29 | U | 1.5 | U | 0.30 | U | 1.5 | U |
| 1,3-Dichlorobenzene | 0.12 | U | 0.72 | U | 0.12 | U | 0.70 | U | 0.12 | U | 0.73 | U |
| 1,4-Dichlorobenzene | 0.12 | U | 0.72 | U | 0.12 | U | 0.70 | U | 0.12 | U | 0.73 | U |
| 1,2-Dichlorobenzene | 0.12 | U | 0.73 | U | 0.12 | U | 0.72 | U | 0.12 | U | 0.74 | U |
| d-Limonene | 0.13 | U | 0.72 | U | 0.13 | U | 0.70 | U | 0.13 | U | 0.73 | U |
| 1,2-Dibromo-3-chloropropane | 0.140 | U | 1.4 | U | 0.14 | U | 1.4 | U | 0.14 | U | 1.4 | U |
| 1,2,4-Trichlorobenzene | 0.19 | U | 1.4 | U | 0.18 | U | 1.4 | U | 0.19 | U | 1.4 | U |
| Naphthalene | 0.14 | U | 0.72 | U | 0.13 | U | 0.70 | U | 0.14 | U | 0.73 | U |
| Hexachlorobutadiene | 0.067 | U | 0.72 | U | 0.066 | U | 0.70 | U | 0.068 | U | 0.73 | U |

**Notes:**

**Bold = compound detected in sample**

Yellow = compounds of concern

µg/m³ = micrograms per cubic meter

ppbv = parts per billion by volume

All samples analyzed by ALS Environmental of Simi Valley, CA

Q = Qualifier

U = Constituent not detected above reporting limit given

E = Estimated; concentration exceeded calibration range

**Table 7 (Continued) Indoor Air Sampling Analytical Results - March 2022 - Former Dover Electronics Site, Kirkwood, New York**

| Sample Location | Electrical Area | | | |
|---|---|---|---|---|
| Sampling Date | P2201095-007 | | | |
| Laboratory Sample ID | 3/9/2022 | | | |
| Units | ppbv | Q | µg/m³ | Q |
| Volatile Organic Compounds | | | | |
| Dichlorodifluoromethane (Freon 12) | **0.66** | | **3.3** | |
| Chloromethane | 0.17 | U | 0.35 | U |
| Freon 114 | 0.13 | U | 0.89 | U |
| Vinyl Chloride | 0.071 | U | 0.18 | U |
| 1,3-Butadiene | 0.16 | U | 0.35 | U |
| Bromomethane | 0.089 | U | 0.35 | U |
| Chloroethane | 0.13 | U | 0.35 | U |
| Ethanol | **99** | | **190** | |
| Acetonitrile | 0.98 | U | 1.7 | U |
| Acrolein | 0.72 | U | 1.7 | U |
| Acetone | 3.6 | U | 8.6 | U |
| Trichlorofluoromethane (Freon 11) | **2.2** | | **13** | |
| 2-Propanol (Isopropyl Alcohol) | **0.83** | | **2.0** | |
| Acrylonitrile | 0.76 | U | 1.7 | U |
| 1,1-Dichloroethene | 0.046 | U | 0.18 | U |
| Methylene Chloride | 0.25 | U | 0.86 | U |
| 3-Chloro-1-propene (Allyl Chloride) | 0.28 | U | 0.87 | U |
| Trichlorotrifluoroethane (Freon 113) | 0.12 | U | 0.89 | U |
| Carbon Disulfide | 0.58 | U | 1.8 | U |
| trans-1,2-Dichloroethene | 0.046 | U | 0.18 | U |
| 1,1-Dichloroethane | 0.045 | U | 0.18 | U |
| Methyl tert-Butyl Ether | 0.24 | U | 0.87 | U |
| Vinyl Acetate | 2.3 | U | 8.3 | U |
| 2-Butanone (MEK) | 0.56 | U | 1.7 | U |
| cis-1,2-Dichloroethene | 0.046 | U | 0.18 | U |
| n-Hexane | 0.25 | U | 0.87 | U |
| Chloroform | 0.037 | U | 0.18 | U |
| 1,2-Dichloroethane | 0.045 | U | 0.18 | U |
| 1,1,1-Trichloroethane | 0.033 | U | 0.18 | U |
| Benzene | **0.19** | | **0.61** | |
| Carbon Tetrachloride | **0.055** | | **0.35** | |
| 1,2-Dichloropropane | 0.039 | U | 0.18 | U |
| Bromodichloromethane | 0.027 | U | 0.18 | U |
| Trichloroethene (TCE) | 0.034 | U | 0.18 | U |
| 1,4-Dioxane | 0.24 | U | 0.86 | U |
| cis-1,3-Dichloropropene | 0.19 | U | 0.87 | U |
| 4-Methyl-2-pentanone | 0.44 | U | 1.8 | U |
| trans-1,3-Dichloropropene | 0.19 | U | 0.84 | U |
| 1,1,2-Trichloroethane | 0.033 | U | 0.18 | U |
| Toluene | **0.24** | | **0.91** | |
| 2-Hexanone | 0.44 | U | 1.8 | U |
| Dibromochloromethane | 0.021 | U | 0.18 | U |
| 1,2-Dibromoethane | 0.024 | U | 0.18 | U |
| n-Butyl Acetate | 0.38 | U | 1.8 | U |
| Tetrachloroethene (PCE) | **0.24** | | **1.6** | |
| Chlorobenzene | 0.19 | U | 0.86 | U |
| Ethylbenzene | 0.20 | U | 0.86 | U |
| m,p-Xylenes | 0.42 | U | 1.8 | U |
| Bromoform | 0.083 | U | 0.86 | U |
| Styrene | 0.20 | U | 0.86 | U |
| o-Xylene | 0.20 | U | 0.86 | U |
| n-Nonane | 0.16 | U | 0.86 | U |
| 1,1,2,2-Tetrachloroethane | 0.026 | U | 0.18 | U |
| Cumene | 0.17 | U | 0.86 | U |
| alpha-Pinene | 0.16 | U | 0.89 | U |
| 4-Ethyltoluene | 0.18 | U | 0.87 | U |
| 1,3,5-Trimethylbenzene | 0.17 | U | 0.86 | U |
| 1,2,4-Trimethylbenzene | 0.17 | U | 0.86 | U |
| Benzyl Chloride | 0.35 | U | 1.8 | U |
| 1,3-Dichlorobenzene | 0.14 | U | 0.86 | U |
| 1,4-Dichlorobenzene | 0.14 | U | 0.86 | U |
| 1,2-Dichlorobenzene | 0.15 | U | 0.87 | U |
| d-Limonene | 0.15 | U | 0.86 | U |
| 1,2-Dibromo-3-chloropropane | 0.17 | U | 1.7 | U |
| 1,2,4-Trichlorobenzene | 0.22 | U | 1.7 | U |
| Naphthalene | 0.16 | U | 0.86 | U |
| Hexachlorobutadiene | 0.080 | U | 0.86 | U |

**Notes:**

**Bold = compound detected in sample**

Yellow = compounds of concern

µg/m³ = micrograms per cubic meter

ppbv = parts per billion by volume

All samples analyzed by ALS Environmental of Simi Valley, CA

Q = Qualifier

U = Constituent not detected above reporting limit given

E = Estimated; concentration exceeded calibration range

**Table 8 Historical Indoor Air Analytical Results, Former Dover Electronics Site, Kirkwood, New York**

| Sample Location | Sample Date | PCE µg/m˘ | TCE µg/m˘ | Cis-1,2-DCE µg/m˘ | Vinyl Chloride µg/m˘ |
|---|---|---|---|---|---|
| OFFICE AREA #1 | Nov-98 | 61 | - | - | - |
| | Dec-98 | 35 | - | - | - |
| | Mar-99 | 58 | - | - | - |
| | Feb-02 | 36 | - | - | - |
| | Apr-02 | 68 | - | - | - |
| | May-02 | 27 | - | - | - |
| | Sep-02 | 60 | 1.3 | - | - |
| | Aug-03 | 20 | - | - | - |
| | Sep-03 | 52 | - | - | - |
| | Jan-04 | 110 | 1.3 | - | - |
| | Apr-04 | 79 | - | - | - |
| | Sep-04 | 66 | - | - | - |
| | Mar-05 | 51 | - | - | - |
| | Sep-05 | 120 | - | - | - |
| | Apr-06 | 47 | 0.2 | - | - |
| | Sep-06 | 31 | 0.9 | 16 | 0.8 |
| | Mar-07 | 8.3 | - | - | - |
| | Aug-07 | 11 | - | - | - |
| | Mar-08 | 4.1 | - | - | - |
| | Dec-08 | 6.0 | - | - | - |
| | Mar-09 | 3.9 | 0.24 | - | - |
| | Oct-09 | 1.7 | - | - | - |
| | Mar-10 | 2.6 | - | - | - |
| | Mar-11 | 4.0 | - | - | - |
| | Mar-12 | 2.8 | - | - | - |
| | Mar-13 | 3.5 | - | - | - |
| | Mar-14 | 1.6 | - | - | - |
| | Mar-15 | 1.1 | - | - | - |
| | Mar-16 | 0.93 | - | - | - |
| | Mar-17 | 1.70 | - | - | - |
| | Mar-18 | 0.84 | - | - | - |
| | Mar-19 | - | - | - | - |
| | Mar-20 | 1.4 | - | - | - |
| | Mar-21 | - | 5.4 | - | - |
| | Apr-21 | 1.1 (1.3) | - (-) | - (-) | - (-) |
| | Mar-22 | 1.2 | - | - | - |
| OFFICE AREA #2 | Aug-03 | 28 | - | - | - |
| | Sep-03 | 24 | - | - | - |
| | Jan-04 | 87 | - | - | - |
| | Apr-04 | 44 | - | - | - |
| | Sep-04 | 41 | - | - | - |
| | Mar-05 | 39 | - | - | - |
| | Sep-05 | 120 | - | - | - |
| | Apr-06 | 40 | 0.3 | - | - |
| | Sep-06 | 24 | 0.2 | - | - |
| | Mar-07 | 5.3 | - | - | - |
| | Aug-07 | 2.9 | 0.1 | - | - |
| | Mar-08 | 2.6 | - | - | - |
| | Dec-08 | 4.9 | 0.3 | - | - |
| | Mar-09 | 3.0 | 0.19 | - | - |
| | Oct-09 | 1.2 | - | - | - |
| | Mar-10 | 2.2 | - | - | - |
| | Mar-11 | 3.0 | - | - | - |
| | Mar-12 | 2.4 | - | - | - |
| | Mar-13 | 1.6 | - | - | - |
| | Mar-14 | 1.3 | 0.14 | - | - |
| | Mar-15 | 1.1 | - | - | - |
| | Mar-16 | - | - | - | - |
| | Mar-17 | - | - | - | - |
| | Mar-18 | 0.88 | - | - | - |
| | Mar-19 | - | - | - | - |
| | Mar-20 | - | - | - | - |
| | Mar-21 | 1.9 | - | - | - |
| | Mar-22 | 1.1 | - | - | - |

See Notes on last page

**Table 8 (Continued) Historical Indoor Air Analytical Results, Former Dover Electronics Site, Kirkwood, New York**

| Sample Location | Sample Date | PCE µg/m˘ | TCE µg/m˘ | Cis-1,2-DCE µg/m˘ | Vinyl Chloride µg/m˘ |
|---|---|---|---|---|---|
| CAFETERIA | Aug-03 | 17 | - | - | - |
| | Sep-03 | 23 | - | - | - |
| | Jan-04 | 110 | 1.7 | 3.5 | - |
| | Apr-04 | 43 | - | 1.5 | - |
| | Sep-04 | 27 | - | - | - |
| | Mar-05 | 40 | - | - | - |
| | Sep-05 | 120 | - | - | - |
| | Apr-06 | 43 | 0.2 | - | - |
| | Sep-06 | 27 | 0.7 | 3.3 | - |
| | Mar-07 | 5.2 | - | - | - |
| | Aug-07 | 8.6 | - | - | - |
| | Mar-08 | 3.0 | - | - | - |
| | Dec-08 | 5.1 | - | - | - |
| | Mar-09 | 3.3 | - | - | - |
| | Oct-09 | 1.9 | - | - | - |
| | Mar-10 | 2.3 | - | - | - |
| | Mar-11 | 3.7 | - | - | - |
| | Mar-12 | 2.9 | - | - | - |
| | Mar-13 | 1.8 | 0.33 | - | - |
| | Mar-14 | 2.8 | 0.24 | - | - |
| | Mar-15 | 1.5 | - | - | - |
| | Mar-16 | 1.5 | - | - | - |
| | Mar-17 | 1.6 | - | - | - |
| | Mar-18 | 1.0 | - | - | - |
| | Mar-19 | 2.3 | - | - | - |
| | Mar-20 | 3.3 | - | - | - |
| | Mar-21 | 2.5 | 0.23 | - | - |
| | Mar-22 | 1.2 | - | - | - |
| ELECTRICAL ROOM/AREA | Nov-98 | 1,017 | - | 17.8 | - |
| | Dec-98 | 678 | - | 9.5 | - |
| | Mar-99 | 387 | - | 6.3 | - |
| | Feb-02 | 186 | 4.4 | 6.1 | - |
| | Apr-02 | 406 | 8.2 | 14.1 | 1.6 |
| | May-02 | 165 | 1.9 | 4.8 | - |
| | Sep-02 | 124 | 2.6 | 3.7 | - |
| | Aug-03 | 64 | - | - | - |
| | Sep-03 | 62 | - | - | - |
| | Jan-04 | 75 | - | - | - |
| | Apr-04 | 88 | 2.7 | 2.1 | - |
| | Sep-04 | 70 | - | - | - |
| | Mar-05 | 60 | - | - | - |
| | Sep-05 | 110 | - | 1.5 | - |
| | Apr-06 | 61 | 0.5 | 0.9 | - |
| | Sep-06 | 84 | 0.6 | 1.2 | - |
| | Mar-07 | 9.8 | - | - | - |
| | Aug-07 | 14 | 0.2 | - | - |
| | Mar-08 | 5.8 | - | - | - |
| | Dec-08 | 6.7 | - | - | - |
| | Mar-09 | 5.3 | 0.17 | - | - |
| | Oct-09 | 5.0 | - | - | - |
| | Mar-10 | 4.1 | - | - | - |
| | Mar-11 | 6.0 | - | - | - |
| | Mar-12 | 4.1 | - | - | - |
| | Mar-13 | 3.8 | - | - | - |
| | Mar-14 | 2.7 | - | - | - |
| | Mar-15 | 12 | - | - | - |
| | Mar-16 | 4.9 | - | - | - |
| | Mar-17 | 12 | - | - | - |
| | Mar-18 | 2.7 | - | - | - |
| | Mar-19 | 1.1 | - | - | - |
| | Mar-20 | 2.5 | - | - | - |
| | Mar-21 | 2.8 | 0.25 | - | - |
| | Mar-22 | 1.6 | - | - | - |

See Notes on last page

**Table 8 (Continued) Historical Indoor Air Analytical Results, Former Dover Electronics Site, Kirkwood, New York**

| Sample Location | Sample Date | PCE µg/m3 | TCE µg/m3 | Cis-1,2-DCE µg/m3 | Vinyl Chloride µg/m3 |
|---|---|---|---|---|---|
| A/C AREA | Nov-98 | 482 | 6.5 | 15.9 | - |
| | Dec-98 | 244 | 3.6 | 7.5 | - |
| | Mar-99 | 183 | - | 5.6 | - |
| | Feb-02 | 165 | 4.9 | 8.1 | - |
| | Apr-02 | 248 | 4.9 | 10.5 | - |
| | May-02 | 138 | 2.1 | 5.2 | - |
| | Sep-02 | 110 | 2.6 | 3.6 | - |
| | Aug-03 | 94 | - | 1.4 | - |
| | Sep-03 | 88 | - | - | - |
| | Jan-04 | 85 | 1.7 | 3.6 | - |
| | Apr-04 | 100 | 1.4 | 2.1 | - |
| | Sep-04 | 62 | - | - | - |
| | Mar-05 | 85 | - | 1.4 | - |
| | Sep-05 | 11 | - | - | - |
| | Apr-06 | 74 | 0.8 | 1.5 | - |
| | Sep-06 | 76 | 0.6 | 2.1 | - |
| | Mar-07 | 9.7 | - | - | - |
| | Aug-07 | 14 | 0.3 | - | - |
| | Mar-08 | 4.4 | - | - | - |
| | Dec-08 | 5.3 | - | - | - |
| | Mar-09 | 5.9 | 0.25 | - | - |
| | Oct-09 | 4.1 | - | - | - |
| | Mar-10 | 3.9 | - | - | - |
| | Mar-11 | 5.9 | - | - | - |
| | Mar-12 | 3.1 | - | - | - |
| | Mar-13 | 2.9 | - | - | - |
| | Mar-14 | 2.8 | - | - | - |
| | Mar-15 | 9.9 | 0.71 | - | - |
| | Mar-16 | 5.8 | - | - | - |
| | Mar-17 | 11 | - | - | - |
| | Mar-18 | 2.2 | - | - | - |
| | Mar-19 | 2.4 | - | - | - |
| | Mar-20 | 3.2 | - | - | - |
| | Mar-21 | 2.3 | 0.34 | - | - |
| | Mar-22 | 1.7 | - | - | - |
| HALLWAY | Aug-07 | 3.9 | - | - | - |
| | Mar-08 | - | - | - | - |
| | Dec-08 | - | - | - | - |
| | Mar-09 | 1.7 | - | - | - |
| | Oct-09 | - | - | - | - |
| | Mar-10 | 1.2 | - | - | - |
| | Mar-11 | - | - | - | - |
| | Mar-12 | 1.0 | - | - | - |
| | Mar-13 | - | - | - | - |
| | Mar-14 | - | - | - | - |
| | Mar-15 | - | 2.2 | 1.6 | - |
| | Mar-16 | - | - | - | - |
| | Mar-17 | - | - | - | - |
| | Mar-18 | - | - | - | - |
| | Mar-19 | 1.4 | - | - | - |
| | Mar-21 | 3.1 | - | - | - |
| | Mar-21 | 5.1 | 0.33 | - | - |
| | Mar-22 | 1.3 | - | - | - |

See Notes on last page

**Table 8 (Continued) Historical Indoor Air Analytical Results, Former Dover Electronics Site, Kirkwood, New York**

| Sample Location | Sample Date | PCE µg/m˘ | TCE µg/m˘ | Cis-1,2-DCE µg/m˘ | Vinyl Chloride µg/m˘ |
|---|---|---|---|---|---|
| COMPUTER SERVICES/ SERVERS | Aug-07 | 46 | - | - | - |
| | Mar-08 | - | - | - | - |
| | Dec-08 | 34 | 0.2 | - | - |
| | Mar-09 | 27 | 0.15 | - | - |
| | Oct-09 | 5.4 | - | - | - |
| | Mar-10 | 20 | - | - | - |
| | Mar-11 | 10 | 0.37 | - | - |
| | Mar-12 | 6.3 | - | - | - |
| | Mar-13 | 4.1 | - | - | - |
| | Mar-14 | 11 | 2.1 | - | - |
| | Mar-15 | 110 | - | - | - |
| | Jun-15 | 91 | - | - | - |
| | Mar-16 | 13 | - | - | - |
| | Mar-17 | 12 | - | - | - |
| | Mar-18 | 2.2 | - | - | - |
| | Mar-19 | 1.3 | - | - | - |
| | Mar-20 | 3.9 | - | - | - |
| | Mar-21 | 2.4 | 0.31 | - | - |
| | Mar-22 | 1.0 | - | - | - |
| BACKGROUND | Nov-98 | - | - | - | - |
| | Dec-98 | - | - | - | - |
| | Mar-99 | - | - | - | - |
| | Feb-02 | - | - | - | - |
| | Apr-02 | 13 | 4.4 | - | - |
| | May-02 | - | - | - | - |
| | Sep-02 | - | - | - | - |
| | Aug-03 | - | - | - | - |
| | Sep-03 | 2.2 | - | - | - |
| | Jan-04 | - | - | - | - |
| | Apr-04 | 1.8 | - | - | - |
| | Sep-04 | - | - | - | - |
| | Mar-05 | - | - | - | - |
| | Sep-05 | - | - | - | - |
| | Apr-06 | - | - | - | - |
| | Sep-06 | - | - | - | - |
| | Mar-07 | 1.1 | - | - | - |
| | Aug-07 | 1.0 | - | - | - |
| | Mar-08 | - | - | - | - |
| | Dec-08 | - | - | - | - |
| | Mar-09 | - | 0.55 | - | - |
| | Oct-09 | - | - | - | - |
| | Mar-10 | - | - | - | - |
| | Mar-11 | - | - | - | - |
| | Mar-12 | - | - | - | - |
| | Mar-13 | - | - | - | - |
| | Mar-14 | - | - | - | - |
| | Mar-15 | - | - | - | - |
| | Mar-16 | 2.2 | - | - | - |
| | Mar-17 | - | - | - | - |
| | Mar-18 | - | - | - | - |
| | Mar-19 | - | - | - | - |
| | Mar-20 | - | - | - | - |
| | Mar-21 | - | - | - | - |

**Notes:**

- = Non-detect

( ) = Indicates result is from a duplicate sample

µg/m³ = micrograms per cubic meter

# Appendix A

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**Sch. 40 PVC conversion factors:**
**2" PVC = 0.171 gal/ft**
**4" PVC = 0.652 gal/ft**
**6" PVC = 1.484 gal/ft**

## SODIUM PERMANGANATE MANUAL INJECTION LOG

Project Number: 5101.0002
Weather: Snowy/Cloudy 21°

Personnel: CP & CRM

**Injection Solution Characteristics:**

Concentration of Injection Solution: 10%

| Date: | 1/17/2022 | | | | | | | Total Injected Volume (gal) | Comments |
|---|---|---|---|---|---|---|---|---|---|
| Tank # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | | |
| Injection Well ID | Volume Injected (gal) | Volume Injected (gal) | Volume Injected (gal) | Volume Injected (gal) | Volume Injected (gal) | Volume Injected (gal) | Volume Injected (gal) | | |
| MW-7A | 30 | | | | | | | 30 | |
| MW-16 | 80 | | | | | | | 80 | |
| MW-24 | 40 | | | | | | | 40 | |
| MW-25R | 200 | | | | | | | 200 | |
| MW-28 | 50 | | | | | | | 50 | |
| MP-4 | 50 | | | | | | | 50 | |
| MP-5 | 80 | | | | | | | 80 | |
| MP-8S | 50 | | | | | | | 50 | |
| MP-11 | 50 | | | | | | | 50 | |
| MP-12 | 31 | | | | | | | 31 | |
| MP-14 | | | | | | | | 0 | |
| IJ-1 | 5 | | | | | | | 5 | |
| IJ-2 | | | | | | | | 0 | |
| IJ-5 | 41 | | | | | | | 41 | |
| IJ-6 | 18 | | | | | | | 18 | |
| IJ-7 | | | | | | | | 0 | |
| IJ-8 | 25 | | | | | | | 25 | |
| **Total Injected Volume** | **750** | **0** | **0** | **0** | | | | **750** | |

VERINA Consulting Group, LLC

**Sch. 40 PVC conversion factors:**
**2" PVC = 0.171 gal/ft**
**4" PVC = 0.652 gal/ft**
**6" PVC = 1.484 gal/ft**

## SODIUM PERMANGANATE MANUAL INJECTION LOG

Project Number: 5101.0002
Weather: Clear, 30s

Personnel: MKS, CJP, & MC

**Injection Solution Characteristics:**

Concentration of Injection Solution: 10%

| Date: | 2/8/2022 | 2/9/2022 | 2/10/2022 | 2/10/2022 | | | | Total Injected Volume (gal) | Comments |
|---|---|---|---|---|---|---|---|---|---|
| Tank # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | | |
| Injection Well ID | Volume Injected (gal) | Volume Injected (gal) | Volume Injected (gal) | Volume Injected (gal) | Volume Injected (gal) | Volume Injected (gal) | Volume Injected (gal) | | |
| MW-7A | 15 | 15 | 15 | 5 | | | | **50** | |
| MW-16 | | | | 140 | | | | **140** | |
| MW-24 | 15 | 20 | 15 | 5 | | | | **55** | |
| MW-25R | | | | | | | | **0** | |
| MW-28 | | | | | | | | **0** | |
| MP-4 | 5 | 20 | 15 | 10 | | | | **50** | |
| MP-5 | 30 | 35 | 25 | 10 | | | | **100** | |
| MP-8S | | | | | | | | **0** | |
| MP-11 | 10 | 25 | 20 | | | | | **55** | |
| MP-12 | 25 | 10 | 30 | | | | | **65** | |
| MP-14 | 10 | 35 | 35 | 15 | | | | **95** | |
| IJ-1 | 25 | 25 | 20 | | | | | **70** | |
| IJ-2 | 40 | 5 | | 10 | | | | **55** | |
| IJ-5 | | | | | | | | **0** | |
| IJ-6 | | | 25 | | | | | **25** | |
| IJ-7 | 10 | 5 | | 5 | | | | **20** | |
| IJ-8 | 15 | 5 | | | | | | **20** | |
| **Total Injected Volume** | **200** | **200** | **200** | **200** | | | | **800** | |

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**Sch. 40 PVC conversion factors:**
**2" PVC = 0.171 gal/ft**
**4" PVC = 0.652 gal/ft**
**6" PVC = 1.484 gal/ft**

## SODIUM PERMANGANATE MANUAL INJECTION LOG

Project Number: 5101.0002
Weather: Snow, 30s

Personnel: MKS & CF

**Injection Solution Characteristics:**

Concentration of Injection Solution: 10%

| Date: | 3/8/2022 | 3/8/2022 | 3/9/2022 | 3/9/2022 | 3/10/2022 | | | Total Injected Volume (gal) | Comments |
|---|---|---|---|---|---|---|---|---|---|
| Tank # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | | |
| Injection Well ID | Volume Injected (gal) | Volume Injected (gal) | Volume Injected (gal) | Volume Injected (gal) | Volume Injected (gal) | Volume Injected (gal) | Volume Injected (gal) | | |
| MW-7A | 5 | 5 | 5 | | 5 | | | **20** | |
| MW-16 | | | | 160 | | | | **160** | |
| MW-24 | 10 | 10 | 15 | 5 | 10 | | | **50** | |
| MW-25R | | | 5 | | | | | **5** | |
| MW-28 | | | | | | | | **0** | |
| MP-4 | | | | | | | | **0** | |
| MP-5 | 10 | 10 | 15 | 5 | 15 | | | **55** | |
| MP-8S | | | | | | | | **0** | |
| MP-11 | 10 | 10 | 15 | 5 | 5 | | | **45** | |
| MP-12 | 40 | 30 | 65 | | | | | **135** | |
| MP-14 | 15 | 15 | 25 | 5 | 15 | | | **75** | |
| IJ-1 | 15 | 10 | 30 | 10 | 15 | | | **80** | |
| IJ-2 | 35 | | | | 15 | | | **35** | |
| IJ-5 | | | 5 | | | | | **5** | |
| IJ-6 | 20 | 10 | 20 | 10 | 20 | | | **80** | |
| IJ-7 | 20 | | | | | | | **20** | |
| IJ-8 | 20 | | | | | | | **20** | |
| **Total Injected Volume** | **200** | **100** | **200** | **200** | **100** | | | **800** | |

VERINA Consulting Group, LLC

**Sch. 40 PVC conversion factors:**
**2" PVC = 0.171 gal/ft**
**4" PVC = 0.652 gal/ft**
**6" PVC = 1.484 gal/ft**

## SODIUM PERMANGANATE MANUAL INJECTION LOG

Project Number: 5101.0002
Weather: Rainy, 50s

Personnel: CF& CRM

**Injection Solution Characteristics:**

Concentration of Injection Solution: 10%

| Date: | 4/12/2022 | 4/12/2022 | 4/13/2022 | 4/13/2022 | | | | Total Injected Volume (gal) | Comments |
|---|---|---|---|---|---|---|---|---|---|
| Tank # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | | |
| Injection Well ID | Volume Injected (gal) | Volume Injected (gal) | Volume Injected (gal) | Volume Injected (gal) | Volume Injected (gal) | Volume Injected (gal) | Volume Injected (gal) | | |
| MW-7A | 5 | 5 | 10 | 5 | | | | **25** | |
| MW-16 | | | | 150 | | | | **150** | |
| MW-24 | 10 | 15 | 15 | 5 | | | | **45** | |
| MW-25R | 5 | | 5 | | | | | **10** | |
| MW-28 | | | | | | | | **0** | |
| MP-4 | 5 | 5 | 5 | | | | | **15** | |
| MP-5 | 20 | 25 | 30 | 5 | | | | **80** | |
| MP-8S | | | | | | | | **0** | |
| MP-11 | 10 | 15 | 20 | 5 | | | | **50** | |
| MP-12 | 35 | 75 | 30 | | | | | **140** | |
| MP-14 | 20 | 35 | 40 | 5 | | | | **100** | |
| IJ-1 | 15 | 10 | 20 | 15 | | | | **60** | |
| IJ-2 | 45 | | | | | | | **45** | |
| IJ-5 | | | 5 | | | | | **5** | |
| IJ-6 | 20 | 15 | 20 | 10 | | | | **65** | |
| IJ-7 | 5 | | | | | | | **5** | |
| IJ-8 | 5 | | | | | | | **5** | |
| **Total Injected Volume** | **200** | **200** | **200** | **200** | | | | | |

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**Sch. 40 PVC conversion factors:**
**2" PVC = 0.171 gal/ft**
**4" PVC = 0.652 gal/ft**
**6" PVC = 1.484 gal/ft**

## SODIUM PERMANGANATE MANUAL INJECTION LOG

Project Number: 5101.0002
Weather: Cloudy, 50s

Personnel: MKS & CP

**Injection Solution Characteristics:**

Concentration of Injection Solution: 10%

| Date: | 5/17/2022 | 5/17/2022 | 5/18/2022 | 5/18/2022 | | | | Total Injected Volume (gal) | Comments |
|---|---|---|---|---|---|---|---|---|---|
| Tank # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | | |
| Injection Well ID | Volume Injected (gal) | Volume Injected (gal) | Volume Injected (gal) | Volume Injected (gal) | Volume Injected (gal) | Volume Injected (gal) | Volume Injected (gal) | | |
| MW-7A | 5 | 10 | 10 | | | | | **25** | |
| MW-16 | | | | 140 | | | | **140** | |
| MW-24 | 15 | 10 | 15 | 5 | | | | **45** | |
| MW-25R | | 5 | 10 | | | | | **15** | |
| MW-28 | | | | | | | | **0** | |
| MP-4 | 5 | 15 | 15 | | | | | **35** | |
| MP-5 | 15 | 20 | 15 | 10 | | | | **60** | |
| MP-8S | | | | | | | | **0** | |
| MP-11 | 15 | 20 | 25 | 5 | | | | **65** | |
| MP-12 | 20 | 25 | 40 | | | | | **85** | |
| MP-14 | 25 | 30 | 25 | 10 | | | | **90** | |
| IJ-1 | 20 | 30 | 30 | 15 | | | | **95** | |
| IJ-2 | 25 | | 5 | | | | | **30** | |
| IJ-5 | | 5 | | | | | | **5** | |
| IJ-6 | | 30 | | 5 | | | | **35** | |
| IJ-7 | 35 | | 5 | 5 | | | | **45** | |
| IJ-8 | 20 | | 5 | 5 | | | | **30** | |
| **Total Injected Volume** | **200** | **200** | **200** | **200** | | | | | |

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**Sch. 40 PVC conversion factors:**
**2" PVC = 0.171 gal/ft**
**4" PVC = 0.652 gal/ft**
**6" PVC = 1.484 gal/ft**

## SODIUM PERMANGANATE MANUAL INJECTION LOG

Project Number: 5101.0002
Weather: Clear, 70s

Personnel: MKS & CP

**Injection Solution Characteristics:**

Concentration of Injection Solution: 10%

| Date: | 7/12/2022 | 7/13/2022 | | | | | | Total Injected Volume (gal) | Comments |
|---|---|---|---|---|---|---|---|---|---|
| Tank # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | | |
| Injection Well ID | Volume Injected (gal) | Volume Injected (gal) | Volume Injected (gal) | Volume Injected (gal) | Volume Injected (gal) | Volume Injected (gal) | Volume Injected (gal) | | |
| MW-7A | 25 | | | | | | | **25** | |
| MW-16 | | | | | | | | **0** | |
| MW-24 | | | | | | | | **0** | |
| MW-25R | | | | | | | | **0** | |
| MW-28 | | | | | | | | **0** | |
| MP-4R | 20 | 20 | | | | | | **40** | |
| MP-5R | 40 | 25 | | | | | | **65** | |
| MP-8S | | | | | | | | **0** | |
| MP-11 | 40 | 25 | | | | | | **65** | |
| MP-12 | | | | | | | | **0** | |
| MP-14 | 35 | 25 | | | | | | **60** | |
| IJ-1 | 45 | 20 | | | | | | **65** | |
| IJ-2 | | | | | | | | **0** | |
| IJ-5 | | | | | | | | **0** | |
| IJ-6 | | | | | | | | **0** | |
| IJ-7 | | | | | | | | **0** | |
| IJ-8 | | | | | | | | **0** | |
| **Total Injected Volume** | **205** | **115** | **0** | **0** | | | | **320** | |

VERINA Consulting Group, LLC

**Sch. 40 PVC conversion factors:**
**2" PVC = 0.171 gal/ft**
**4" PVC = 0.652 gal/ft**
**6" PVC = 1.484 gal/ft**

## SODIUM PERMANGANATE MANUAL INJECTION LOG

Project Number: 5101.0002
Weather: Cloudy, 50s

Personnel: MKS & DCK

**Injection Solution Characteristics:**

Concentration of Injection Solution: 10%

| Date: | 9/27/2022 | 9/28/2022 | | | | | | Total Injected Volume (gal) | Comments |
|---|---|---|---|---|---|---|---|---|---|
| Tank # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | | |
| Injection Well ID | Volume Injected (gal) | Volume Injected (gal) | Volume Injected (gal) | Volume Injected (gal) | Volume Injected (gal) | Volume Injected (gal) | Volume Injected (gal) | | |
| MW-7A | | | | | | | | | purple |
| MW-16 | | | | | | | | | purple |
| MW-24 | | | | | | | | | purple |
| MW-25R | | 5 | | | | | | **5** | clear |
| MW-28 | | | | | | | | | clear |
| MP-4R | | | | | | | | | purple |
| MP-5R | 15 | 25 | | | | | | **40** | clear |
| MP-8S | | | | | | | | | needs repair |
| MP-11 | | | | | | | | | purple |
| MP-12 | 20 | | | | | | | **20** | purple |
| MP-14 | 20 | 15 | | | | | | **35** | clear |
| IJ-1 | | | | | | | | | purple |
| IJ-2 | | | | | | | | | purple |
| IJ-5 | 5 | 5 | | | | | | **10** | clear |
| IJ-6 | 20 | 20 | | | | | | **40** | clear |
| IJ-7 | | | | | | | | | purple |
| IJ-8 | 20 | 5 | | | | | | **25** | clear |
| **Total Injected Volume** | **100** | **75** | | | | | | **175** | |

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**Sch. 40 PVC conversion factors:**
**2" PVC = 0.171 gal/ft**
**4" PVC = 0.652 gal/ft**
**6" PVC = 1.484 gal/ft**

## SODIUM PERMANGANATE MANUAL INJECTION LOG

Project Number: 5101.0002
Weather: 30's, snow

Personnel: MKS & SK

**Injection Solution Characteristics:**

Concentration of Injection Solution: 10%

| Date: | 11/15/2022 | 11/17/2022 | | | | | | Total Injected Volume (gal) | Comments |
|---|---|---|---|---|---|---|---|---|---|
| Tank # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | | |
| Injection Well ID | Volume Injected (gal) | Volume Injected (gal) | Volume Injected (gal) | Volume Injected (gal) | Volume Injected (gal) | Volume Injected (gal) | Volume Injected (gal) | | |
| MW-7A | 5 | | | | | | | **5** | |
| MW-16 | | | | | | | | **0** | |
| MW-24 | | | | | | | | **0** | |
| MW-25R | | | | | | | | **0** | |
| MW-28 | | | | | | | | **0** | |
| MP-4 | 5 | | | | | | | **5** | |
| MP-5 | 15 | 5 | | | | | | **20** | |
| MP-8S | | | | | | | | **0** | |
| MP-11 | 15 | 15 | | | | | | **30** | |
| MP-12 | | | | | | | | **0** | |
| MP-14 | | | | | | | | **0** | |
| IJ-1 | | | | | | | | **0** | |
| IJ-2 | | | | | | | | **0** | |
| IJ-5 | 5 | | | | | | | **5** | |
| IJ-6 | 15 | 15 | | | | | | **30** | |
| IJ-7 | | 10 | | | | | | **10** | |
| IJ-8 | | | | | | | | **0** | |
| **Total Injected Volume** | **60** | **45** | | | | | | **105** | |

# Appendix B

MONITORING WELL LOCATIONS
Industrial Park Drive
Town of Kirkwood, Broome County
Field Locations: September 14, 2022

Hulbert Engineering and Land Surveying, DPC
September 20, 2022
Job# 22316.01

| | LATITUDE | LONGITUDE | NORTHING | EASTING | ELEVATION |
|---|---|---|---|---|---|
| MONITORING WELL MW-39 | | | | | |
| Ground Surface (concrete) | 42°06'04.48220"N | 75°50'11.43745"W | 766431.89 | 1022875.21 | 858.21 |
| Outer Casing (steel)* | 42°06'04.48587"N | 75°50'11.43996"W | 766432.26 | 1022875.02 | 858.23 |
| Inner Casing (PVC) | 42°06'04.48322"N | 75°50'11.43816"W | 766431.99 | 1022875.16 | 857.76 |
| | | | | | |
| MONITORING WELL MP-5R | | | | | |
| Ground Surface (concrete) | 42°06'10.06231"N | 75°50'01.22178"W | 767003.46 | 1023640.33 | 882.28 |
| Outer Casing (steel) | 42°06'10.06607"N | 75°50'01.22396"W | 767003.84 | 1023640.16 | 882.27 |
| Inner Casing (PVC) | 42°06'10.06243"N | 75°50'01.22211"W | 767003.47 | 1023640.31 | 881.88 |
| | | | | | |
| MONITORING WELL MP-4R | | | | | |
| Ground Surface (concrete) | 42°06'10.76365"N | 75°50'01.14029"W | 767074.51 | 1023645.85 | 881.08 |
| Outer Casing (steel) | 42°06'10.76819"N | 75°50'01.14242"W | 767074.97 | 1023645.69 | 881.07 |
| Inner Casing (PVC) | 42°06'10.76428"N | 75°50'01.13934"W | 767074.57 | 1023645.92 | 880.73 |

Note: All coordinates based on New York State Plane Central Zone NAD83(CORS 2011)/NAVD88 US Survey Feet

# Appendix C

## LOW FLOW GROUND WATER PURGE/SAMPLING LOG

***Former Dover Electronics Site, Kirkwood, NY (5101.0002)***

| | | | | |
|---|---|---|---|---|
| Project Name: | Dover-Kirkwood | Project #: | 5101.0002 | Page 1 of 1 |
| Monitoring Well: | MW-2 | Date: | 9/15/2022 | |
| Field Personnel: | JR | Weather: | 70's, Sunny | |

### PRE-PURGE INFO:

| | | | |
|---|---|---|---|
| Well Depth (ft btoc): | 16.4 | Depth to Water (ft btoc): | 11 |
| PID Beneath PVC Cap (ppm) | NA | Screened/Open Interval (ft btoc): | 5 - 15 |
| Pump Used: | 2" Bladder | Depth of Pump (ft btoc): | 14 |

### POST-PURGE INFO:

| | | | |
|---|---|---|---|
| Color: | Clear | $Mn/MnO_4$ (mg/L): | NA |
| Volume Purged (gal): | ~1 | Sample ID: | MW-2 091522 |
| Final Depth to Water (ft btoc): | 11.00 | Sample Time: | 12:20 |

### WELL PURGE DATA:

| Time 5 minute intervals | Temperature (°C) | pH (units) | Conductivity (ms/cm) | REDOX (Eh-mV) | DO (mg/L) | Turbidity (NTU) | Depth to Water (ft) | Salinity (PPT) | Pumping Rate (ml/min) | Comment |
|---|---|---|---|---|---|---|---|---|---|---|
| | Reading | Reading | Reading | Reading | Reading | Reading | Reading | | | |
| | 3% | 0.1 unit | 3% | 10 mV | 10% | 10% | 0.3 ft | | 100 - 500 | |
| 11:30 | 15.78 | 8.12 | 0.719 | 9.9 | 1.32 | NA | 11.00 | 0.37 | 100 | |
| 11:35 | 16.02 | 8.08 | 0.822 | 7.0 | 1.22 | NA | 11.00 | 0.38 | 100 | |
| 11:40 | 15.24 | 7.70 | 0.813 | 4.6 | 1.11 | NA | 11.00 | 0.41 | 100 | |
| 11:45 | 15.15 | 7.74 | 0.810 | -14.6 | 0.85 | NA | 11.00 | 0.42 | 100 | |
| 11:50 | 15.16 | 5.36 | 0.807 | 22.3 | 0.85 | NA | 11.00 | 0.43 | 100 | |
| 11:55 | 15.20 | 5.39 | 0.804 | 28.2 | 0.90 | NA | 11.00 | 0.45 | 100 | |
| 12:00 | 15.22 | 5.68 | 0.801 | 32.4 | 0.99 | 217 | 11.00 | 0.45 | 100 | |
| 12:05 | 15.20 | 5.19 | 0.798 | 39.1 | 1.07 | 148 | 11.00 | 0.45 | 100 | |
| 12:10 | 15.12 | 5.15 | 0.796 | 45.9 | 1.11 | 140 | 11.00 | 0.45 | 100 | |
| 12:15 | 15.05 | 5.19 | 0.794 | 39.4 | 1.08 | 130 | 11.00 | 0.45 | 100 | |
| 12:20 | 15.03 | 5.11 | 0.793 | 42.2 | 1.05 | 128 | 11.0 | 0.45 | 100 | |
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## LOW FLOW GROUND WATER PURGE/SAMPLING LOG

***Former Dover Electronics Site, Kirkwood, NY (5101.0002)***

| | | | | |
|---|---|---|---|---|
| Project Name: | Dover-Kirkwood | Project #: | 5101.0002 | Page 1 of 1 |
| Monitoring Well: | MW-3 | Date: | 9/15/2022 | |
| Field Personnel: | JR | Weather: | Sunny 70s | |

### PRE-PURGE INFO:

| | | | |
|---|---|---|---|
| Well Depth (ft btoc): | 14.4 | Depth to Water (ft btoc): | 4.4 |
| PID Beneath PVC Cap (ppm) | NA | Screened/Open Interval (ft btoc): | 5 - 15 |
| Pump Used: | 2" Bladder | Depth of Pump (ft btoc): | 10 |

### POST-PURGE INFO:

| | | | |
|---|---|---|---|
| Color: | Purple | $Mn/MnO_4$ (mg/L): | 1.8 |
| Volume Purged (gal): | 1 | Sample ID: | MW-3 091522 |
| Final Depth to Water (ft btoc): | 4.40 | Sample Time: | 16:00 |

### WELL PURGE DATA:

| **Time** 5 minute intervals | **Temperature (°C)** | **pH (units)** | **Conductivity (ms/cm)** | **REDOX (Eh-mV)** | **DO (mg/L)** | **Turbidity (NTU)** | **Depth to Water (ft)** | **Salinity (PPT)** | **Pumping Rate (ml/min)** | **Comment** |
|---|---|---|---|---|---|---|---|---|---|---|
| | Reading | Reading | Reading | Reading | Reading | Reading | Reading | | | |
| | 3% | 0.1 unit | 3% | 10 mV | 10% | 10% | 0.3 ft | | 100 - 500 | |
| 15:05 | 18.82 | 2.09 | 0.807 | 601.0 | 3.70 | 207 | 4.40 | 0.28 | 120 | |
| 15:10 | 19.00 | 1.57 | 0.761 | 589.0 | 2.89 | 177 | 4.40 | 0.29 | 120 | |
| 15:15 | 18.80 | 1.18 | 0.603 | 540.0 | 2.51 | 140 | 4.40 | 0.30 | 120 | |
| 15:20 | 17.73 | 0.92 | 0.620 | 583.2 | 1.93 | 142 | 4.40 | 0.31 | 120 | |
| 15:25 | 17.71 | 1.24 | 0.645 | 600.9 | 1.93 | 128 | 4.40 | 0.31 | 120 | |
| 15:30 | 17.78 | 1.54 | 0.695 | 612.6 | 2.15 | 102 | 4.40 | 0.33 | 120 | |
| 15:35 | 17.75 | 1.65 | 0.740 | 622.4 | 2.34 | 77.1 | 4.40 | 0.33 | 120 | |
| 15:40 | 17.76 | 1.85 | 0.775 | 631.0 | 2.51 | 55.7 | 4.40 | 0.33 | 120 | |
| 15:45 | 17.73 | 1.92 | 0.795 | 636.4 | 2.62 | 40.1 | 4.40 | 0.31 | 120 | |
| 15:50 | 17.69 | 1.87 | 0.812 | 634.8 | 2.71 | 38.7 | 4.40 | 0.32 | 120 | |
| 15:55 | 17.54 | 1.94 | 0.825 | 643.7 | 2.76 | 36.2 | 4.40 | 0.33 | 120 | |
| 16:00 | 17.58 | 1.91 | 0.826 | 644.1 | 2.63 | 35.9 | 4.40 | 0.32 | 120 | |
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## LOW FLOW GROUND WATER PURGE/SAMPLING LOG

***Former Dover Electronics Site, Kirkwood, NY (5101.0002)***

| | | | | |
|---|---|---|---|---|
| Project Name: | Dover-Kirkwood | Project #: | 5101.0002 | Page 1 of 1 |
| Monitoring Well: | MW-7A | Date: | 9/13/2022 | |
| Field Personnel: | MKS | Weather: | Cloudy 60s | |

### PRE-PURGE INFO:

| | | | |
|---|---|---|---|
| Well Depth (ft btoc): | 17.2 | Depth to Water (ft btoc): | 7.15 |
| PID Beneath PVC Cap (ppm) | NA | Screened/Open Interval (ft btoc): | 7 - 17 |
| Pump Used: | 2" Bladder | Depth of Pump (ft btoc): | 12 |

### POST-PURGE INFO:

| | | | |
|---|---|---|---|
| Color: | Purple | $Mn/MnO_4$ (mg/L): | 40 |
| Volume Purged (gal): | 2 | Sample ID: | MW-7A - 091322 |
| Final Depth to Water (ft btoc): | 7.15 | Sample Time: | 17:25 |

### WELL PURGE DATA:

| Time 5 minute intervals | Temperature (°C) | pH (units) | Conductivity (ms/cm) | REDOX (Eh-mV) | DO (mg/L) | Turbidity (NTU) | Depth to Water (ft) | Salinity (PPT) | Pumping Rate (ml/min) | Comment |
|---|---|---|---|---|---|---|---|---|---|---|
| | Reading | Reading | Reading | Reading | Reading | Reading | Reading | | | |
| | 3% | 0.1 unit | 3% | 10 mV | 10% | 10% | 0.3 ft | | 100 - 500 | |
| 16:15 | 19.97 | 7.42 | 2.511 | 661.3 | 8.81 | NA | 6.98 | 1.11 | 100 | |
| 16:20 | 19.85 | 7.51 | 2.411 | 651.3 | 8.79 | NA | 7.01 | 1.10 | 100 | |
| 16:25 | 19.81 | 7.61 | 2.311 | 615.8 | 8.11 | 981 | 7.09 | 1.10 | 100 | |
| 16:30 | 19.82 | 7.69 | 2.126 | 643.7 | 8.51 | 883 | 7.15 | 1.09 | 100 | |
| 16:35 | 19.50 | 7.78 | 2.075 | 644.7 | 8.56 | 876 | 7.13 | 1.07 | 100 | |
| 16:40 | 19.47 | 7.73 | 1.991 | 640.7 | 8.47 | 891 | 7.15 | 1.01 | 100 | |
| 16:45 | 19.44 | 8.67 | 1.985 | 631.7 | 8.46 | 881 | NA | 0.99 | 100 | |
| 16:50 | 19.40 | 8.26 | 1.976 | 627.8 | 8.42 | 886 | NA | 0.99 | 100 | |
| 16:55 | 19.10 | 8.12 | 1.941 | 632.7 | 7.48 | 881 | NA | 0.98 | 100 | |
| 17:00 | 19.38 | 7.90 | 1.939 | 639.1 | 7.31 | 431 | NA | 0.98 | 100 | |
| 17:05 | 19.35 | 7.82 | 1.931 | 640.1 | 7.27 | 291 | NA | 0.98 | 100 | |
| 17:10 | 19.31 | 7.80 | 1.928 | 649.9 | 7.13 | 220 | NA | 0.98 | 100 | |
| 17:15 | 19.27 | 7.79 | 1.918 | 651.2 | 7.06 | 215 | NA | 0.95 | 100 | |
| 17:20 | 19.23 | 7.75 | 1.919 | 658.5 | 7.05 | 212 | NA | 0.98 | 100 | |
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## LOW FLOW GROUND WATER PURGE/SAMPLING LOG

***Former Dover Electronics Site, Kirkwood, NY (5101.0002)***

| | | | | |
|---|---|---|---|---|
| Project Name: | Dover-Kirkwood | Project #: | 5101.0002 | Page 1 of 1 |
| Monitoring Well: | MW-13 | Date: | 9/16/2022 | |
| Field Personnel: | MKS | Weather: | Sunny 60s | |

### PRE-PURGE INFO:

| | | | |
|---|---|---|---|
| Well Depth (ft btoc): | 24.8 | Depth to Water (ft btoc): | 34.3 |
| PID Beneath PVC Cap (ppm) | NA | Screened/Open Interval (ft btoc): | 15 - 25 |
| Pump Used: | 2" Bladder | Depth of Pump (ft btoc): | 20 |

### POST-PURGE INFO:

| | | | |
|---|---|---|---|
| Color: | Clear | $Mn/MnO_4$ (mg/L): | NA |
| Volume Purged (gal): | ~2 | Sample ID: | MW-13 091622 |
| Final Depth to Water (ft btoc): | 36.40 | Sample Time: | 11:25 |

### WELL PURGE DATA:

| **Time** 5 minute intervals | **Temperature (°C)** | **pH (units)** | **Conductivity (ms/cm)** | **REDOX (Eh-mV)** | **DO (mg/L)** | **Turbidity (NTU)** | **Depth to Water (ft)** | **Salinity (PPT)** | **Pumping Rate (ml/min)** | **Comment** |
|---|---|---|---|---|---|---|---|---|---|---|
| | Reading | Reading | Reading | Reading | Reading | Reading | Reading | | | |
| | 3% | 0.1 unit | 3% | 10 mV | 10% | 10% | 0.3 ft | | 100 - 500 | |
| 10:25 | 15.33 | 6.25 | 0.372 | 562.3 | 12.75 | 17.3 | 34.30 | 0.14 | 100 | |
| 10:30 | 15.71 | 6.28 | 0.351 | 400.1 | 11.31 | 14.2 | 35.10 | 0.14 | 100 | |
| 10:35 | 15.87 | 6.41 | 0.324 | 347.2 | 10.27 | 12.3 | 35.20 | 0.14 | 100 | |
| 10:40 | 16.01 | 6.53 | 0.301 | 332.1 | 9.13 | 8.41 | 35.60 | 0.14 | 100 | |
| 10:45 | 16.10 | 6.88 | 0.289 | 322.4 | 8.69 | 7.51 | 35.80 | 0.14 | 100 | |
| 10:50 | 16.32 | 6.79 | 0.273 | 315.1 | 6.71 | 7.45 | 36.01 | 0.14 | 100 | |
| 10:55 | 16.51 | 6.88 | 0.286 | 311.6 | 5.31 | 7.23 | 36.21 | 0.14 | 100 | |
| 11:00 | 16.63 | 7.09 | 0.288 | 308.1 | 4.75 | 7.31 | 36.40 | 0.14 | 100 | |
| 11:05 | 17.16 | 7.16 | 0.288 | 302.1 | 4.33 | 7.13 | 36.40 | 0.14 | 100 | |
| 11:10 | 17.19 | 7.17 | 0.288 | 301.8 | 4.30 | 7.03 | 31.40 | 0.14 | 100 | |
| 11:15 | 17.00 | 7.16 | 0.281 | 299.7 | 4.25 | 6.95 | 36.40 | 0.14 | 100 | |
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## LOW FLOW GROUND WATER PURGE/SAMPLING LOG

***Former Dover Electronics Site, Kirkwood, NY (5101.0002)***

| | | | | |
|---|---|---|---|---|
| Project Name: | Dover-Kirkwood | Project #: | 5101.0002 | Page 1 of 1 |
| Monitoring Well: | MW-14 | Date: | 9/16/2022 | |
| Field Personnel: | MKS | Weather: | 70's, Sunny | |

### PRE-PURGE INFO:

| | | | |
|---|---|---|---|
| Well Depth (ft btoc): | 72.7 | Depth to Water (ft btoc): | 40.25 |
| PID Beneath PVC Cap (ppm) | NA | Screened/Open Interval (ft btoc): | 62 - 72 |
| Pump Used: | 2" Bladder | Depth of Pump (ft btoc): | 66 |

### POST-PURGE INFO:

| | | | |
|---|---|---|---|
| Color: | Clear | $Mn/MnO_4$ (mg/L): | NA |
| Volume Purged (gal): | ~7 | Sample ID: | MW-14 091622 |
| Final Depth to Water (ft btoc): | 40.20 | Sample Time: | 14:00 |

### WELL PURGE DATA:

| **Time** 5 minute intervals | **Temperature (°C)** | **pH (units)** | **Conductivity (ms/cm)** | **REDOX (Eh-mV)** | **DO (mg/L)** | **Turbidity (NTU)** | **Depth to Water (ft)** | **Salinity (PPT)** | **Pumping Rate (ml/min)** | **Comment** |
|---|---|---|---|---|---|---|---|---|---|---|
| | Reading | Reading | Reading | Reading | Reading | Reading | 40.81 | | | |
| | 3% | 0.1 unit | 3% | 10 mV | 10% | 10% | 0.3 ft | | 100 - 500 | |
| 13:00 | 16.98 | 5.98 | 5.275 | 175.8 | 4.12 | 291 | 40.21 | 2.88 | 150 | |
| 13:05 | 16.96 | 5.92 | 5.265 | 157.8 | 3.54 | 174 | 40.21 | 2.88 | 150 | |
| 13:10 | 16.33 | 5.82 | 5.253 | 139.8 | 1.81 | 133 | 40.20 | 2.88 | 150 | |
| 13:15 | 16.36 | 5.79 | 5.338 | 137.2 | 1.87 | 88.3 | 40.20 | 2.90 | 150 | |
| 13:20 | 16.42 | 5.77 | 5.386 | 138.6 | 1.92 | 67.3 | 40.20 | 2.92 | 150 | |
| 13:25 | 16.34 | 5.75 | 5.461 | 139.3 | 1.75 | 45.9 | 40.20 | 2.96 | 150 | |
| 13:30 | 16.31 | 5.73 | 5.482 | 139.7 | 1.91 | 44.7 | 40.20 | 2.98 | 150 | |
| 13:35 | 16.25 | 5.72 | 5.507 | 142.0 | 2.08 | 32.6 | 40.20 | 3.00 | 150 | |
| 13:40 | 16.19 | 5.72 | 5.516 | 143.0 | 1.75 | 31.5 | 40.20 | 3.00 | 150 | |
| 13:45 | 16.22 | 5.71 | 5.544 | 144.2 | 1.98 | 26.2 | 40.20 | 3.01 | 150 | |
| 13:50 | 16.14 | 5.70 | 5.547 | 144.7 | 1.81 | 20.6 | 40.20 | 3.01 | 150 | |
| 13:55 | 16.15 | 5.70 | 5.542 | 145.6 | 1.81 | 19.6 | 40.20 | 3.02 | 150 | |
| 14:00 | 16.17 | 5.69 | 5.558 | 146.7 | 1.90 | 19.6 | 40.20 | 3.02 | 150 | |
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## LOW FLOW GROUND WATER PURGE/SAMPLING LOG

***Former Dover Electronics Site, Kirkwood, NY (5101.0002)***

| | | | | |
|---|---|---|---|---|
| Project Name: | Dover-Kirkwood | Project #: | 5101.0002 | Page 1 of 1 |
| Monitoring Well: | MW-16 | Date: | 9/16/2022 | |
| Field Personnel: | CRM | Weather: | Sunny, 50-70's | |

### PRE-PURGE INFO:

| | | | |
|---|---|---|---|
| Well Depth (ft btoc): | 28.1 | Depth to Water (ft btoc): | 19.88 |
| PID Beneath PVC Cap (ppm) | NA | Screened/Open Interval (ft btoc): | 18 - 28 |
| Pump Used: | 2" Bladder | Depth of Pump (ft btoc): | 25 |

### POST-PURGE INFO:

| | | | |
|---|---|---|---|
| Color: | Purple | $Mn/MnO_4$ (mg/L): | 0.0225 |
| Volume Purged (gal): | ~1.5 | Sample ID: | MW-16 091822 |
| Final Depth to Water (ft btoc): | 19.96 | Sample Time: | 12:15 |

### WELL PURGE DATA:

| **Time** 5 minute intervals | **Temperature (°C)** | **pH (units)** | **Conductivity (ms/cm)** | **REDOX (Eh-mV)** | **DO (mg/L)** | **Turbidity (NTU)** | **Depth to Water (ft)** | **Salinity (PPT)** | **Pumping Rate (ml/min)** | **Comment** |
|---|---|---|---|---|---|---|---|---|---|---|
| | Reading | Reading | Reading | Reading | Reading | Reading | Reading | | | |
| | 3% | 0.1 unit | 3% | 10 mV | 10% | 10% | 0.3 ft | | 100 - 500 | |
| 10:50 | 14.19 | 7.42 | 2.558 | 554.8 | 51.2 | 83.3 | 19.89 | NA | 200 | |
| 10:55 | 14.25 | 7.40 | 2.562 | 662.7 | 54.3 | 77.1 | 19.89 | NA | 150 | |
| 11:00 | 13.96 | 7.40 | 2.580 | 667.4 | 52.3 | 85.4 | 20.17 | NA | 200 | |
| 11:05 | 13.96 | 7.40 | 2.580 | 667.4 | NA | 78.3 | 20.13 | 1.34 | 200 | |
| 11:10 | 13.96 | 7.40 | 2.580 | 667.4 | NA | 79.7 | 20.12 | 1.34 | 200 | |
| 11:15 | 13.96 | 7.40 | 2.580 | 667.4 | NA | 83.2 | 20.10 | 1.34 | 200 | |
| 11:20 | 13.96 | 7.40 | 2.580 | 667.4 | NA | 73.8 | 20.09 | 1.34 | 200 | |
| 11:25 | 13.96 | 7.40 | 2.580 | 667.4 | NA | 67.5 | 20.09 | 1.34 | 200 | |
| 11:30 | 13.96 | 7.40 | 2.580 | 667.4 | NA | 65.2 | 20.07 | 1.34 | 200 | |
| 11:35 | 13.96 | 7.40 | 2.580 | 667.4 | NA | 56.3 | 20.02 | 1.34 | 200 | |
| 11:40 | 13.62 | 7.19 | 2.400 | 672.6 | 73.1 | 56.3 | 20.01 | 1.24 | 150 | |
| 11:45 | 13.67 | 7.17 | 2.389 | 633.1 | 62.5 | 51.0 | 20.01 | 1.24 | 150 | |
| 11:50 | 13.71 | 7.17 | 2.385 | 646.2 | 59.4 | 50.8 | 19.97 | 1.24 | 150 | |
| 11:55 | 13.85 | 7.16 | 2.379 | 650.9 | 58.4 | 49.5 | 19.96 | 1.23 | NA | |
| 12:00 | 13.92 | 7.15 | 2.365 | 664.7 | 59.4 | 44.4 | 19.96 | 1.22 | NA | |
| 12:05 | 14.31 | 7.13 | 2.362 | 669.0 | 58.4 | 44.5 | 19.96 | 1.22 | NA | |
| 12:10 | 14.07 | 7.11 | 2.359 | 671.4 | 57.3 | 43.7 | 19.96 | 1.22 | NA | |
| 12:15 | 14.00 | 7.08 | 2.344 | 673.1 | 56.3 | 41.6 | 19.96 | 1.21 | NA | |
| | | | | | | | | | | |

## LOW FLOW GROUND WATER PURGE/SAMPLING LOG

***Former Dover Electronics Site, Kirkwood, NY (5101.0002)***

| | | | | |
|---|---|---|---|---|
| Project Name: | Dover-Kirkwood | Project #: | 5101.0002 | Page 1 of 1 |
| Monitoring Well: | MW-17 | Date: | 9/15/2022 | |
| Field Personnel: | MKS | Weather: | Sunny 70's | |

### PRE-PURGE INFO:

| | | | |
|---|---|---|---|
| Well Depth (ft btoc): | 19.20 | Depth to Water (ft btoc): | 13.15 |
| PID Beneath PVC Cap (ppm) | NA | Screened/Open Interval (ft btoc): | 8 - 18 |
| Pump Used: | 2" Bladder | Depth of Pump (ft btoc): | 13 |

### POST-PURGE INFO:

| | | | |
|---|---|---|---|
| Color: | Clear | $Mn/MnO_4$ (mg/L): | NA |
| Volume Purged (gal): | 3 | Sample ID: | MW-17 091522 |
| Final Depth to Water (ft btoc): | 14.13 | Sample Time: | 16:20 |

### WELL PURGE DATA:

| **Time** 5 minute intervals | **Temperature (°C)** | **pH (units)** | **Conductivity (ms/cm)** | **REDOX (Eh-mV)** | **DO (mg/L)** | **Turbidity (NTU)** | **Depth to Water (ft)** | **Salinity (PPT)** | **Pumping Rate (ml/min)** | **Comment** |
|---|---|---|---|---|---|---|---|---|---|---|
| | Reading | Reading | Reading | Reading | Reading | Reading | Reading | | | |
| | 3% | 0.1 unit | 3% | 10 mV | 10% | 10% | 0.3 ft | | 100 - 500 | |
| 15:30 | 14.32 | 7.93 | 2.101 | 113.2 | 5.73 | 857 | 13.15 | 1.26 | 150 | |
| 15:35 | 14.23 | 7.73 | 2.173 | 157.8 | 5.62 | 748 | 12.34 | 1.27 | NA | |
| 15:40 | 14.15 | 7.52 | 2.282 | 201.3 | 5.83 | 687 | 13.98 | 1.27 | NA | |
| 15:45 | 14.05 | 7.32 | 2.305 | 237.8 | 5.21 | 621 | 14.05 | 1.27 | NA | |
| 15:50 | 14.01 | 7.01 | 2.327 | 287.5 | 4.73 | 587 | 14.12 | 1.28 | NA | |
| 15:55 | 13.99 | 6.57 | 2.412 | 323.3 | 4.29 | 527 | 14.13 | 1.28 | NA | |
| 16:00 | 13.97 | 6.22 | 2.487 | 352.1 | 3.96 | 411 | NA | 1.28 | 150 | |
| 16:05 | 13.85 | 6.21 | 2.450 | 387.2 | 3.78 | 287 | NA | 1.30 | NA | |
| 16:10 | 13.72 | 6.20 | 2.510 | 408.8 | 3.85 | 163 | NA | 1.31 | NA | |
| 16:15 | 13.60 | 6.20 | 2.577 | 412.0 | 3.63 | 155 | NA | 1.31 | NA | |
| 16:20 | 13.65 | 6.20 | 2.551 | 414.5 | 3.71 | 150 | NA | 1.32 | NA | |
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## LOW FLOW GROUND WATER PURGE/SAMPLING LOG

***Former Dover Electronics Site, Kirkwood, NY (5101.0002)***

| | | | | |
|---|---|---|---|---|
| Project Name: | Dover-Kirkwood | Project #: | 5101.0002 | Page 1 of 1 |
| Monitoring Well: | MW-19 | Date: | 9/14/2022 | |
| Field Personnel: | JR | Weather: | Sunny 70s | |

### PRE-PURGE INFO:

| | | | |
|---|---|---|---|
| Well Depth (ft btoc): | 19.2 | Depth to Water (ft btoc): | 14.6 |
| PID Beneath PVC Cap (ppm) | NA | Screened/Open Interval (ft btoc): | 8 - 18 |
| Pump Used: | 2" Bladder | Depth of Pump (ft btoc): | 13 |

### POST-PURGE INFO:

| | | | |
|---|---|---|---|
| Color: | Clear | $Mn/MnO_4$ (mg/L): | NA |
| Volume Purged (gal): | 1 | Sample ID: | MW-19 091422 |
| Final Depth to Water (ft btoc): | 14.60 | Sample Time: | 15:45 |

### WELL PURGE DATA:

| **Time** 5 minute intervals | **Temperature (°C)** | **pH (units)** | **Conductivity (ms/cm)** | **REDOX (Eh-mV)** | **DO (mg/L)** | **Turbidity (NTU)** | **Depth to Water (ft)** | **Salinity (PPT)** | **Pumping Rate (ml/min)** | **Comment** |
|---|---|---|---|---|---|---|---|---|---|---|
| | Reading | Reading | Reading | Reading | Reading | Reading | Reading | | | |
| | 3% | 0.1 unit | 3% | 10 mV | 10% | 10% | 0.3 ft | | 100 - 500 | |
| 15:00 | 18.07 | 9.96 | 1.277 | 141.7 | 3.71 | 3.22 | 14.60 | 0.27 | 120 | |
| 15:05 | 18.01 | 9.79 | 1.272 | 132.0 | 2.99 | 3.27 | 14.60 | 0.26 | 120 | |
| 15:10 | 17.97 | 9.55 | 1.256 | 116.2 | 2.89 | 3.21 | 14.60 | 0.26 | 120 | |
| 15:15 | 16.66 | 9.15 | 1.241 | 105.5 | 1.48 | 3.07 | 14.60 | 0.25 | 120 | |
| 15:20 | 16.22 | 9.07 | 1.241 | 102.3 | 1.30 | 2.86 | 14.60 | 0.24 | 120 | |
| 15:25 | 16.25 | 9.19 | 1.236 | 96.1 | 1.15 | 2.43 | 14.60 | 0.24 | 120 | |
| 15:30 | 16.18 | 9.26 | 1.231 | 92.0 | 1.06 | 1.84 | 14.60 | 0.24 | 120 | |
| 15:35 | 16.18 | 9.26 | 1.230 | 84.0 | 0.98 | 1.50 | 14.60 | 0.24 | 120 | |
| 15:40 | 16.15 | 9.26 | 1.226 | 78.7 | 0.93 | 1.43 | 14.60 | 0.24 | 120 | |
| 15:45 | 16.03 | 9.27 | 1.228 | 84.4 | 0.94 | 1.38 | 14.60 | 0.25 | 120 | |
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## LOW FLOW GROUND WATER PURGE/SAMPLING LOG

***Former Dover Electronics Site, Kirkwood, NY (5101.0002)***

| | | | | |
|---|---|---|---|---|
| Project Name: | Dover-Kirkwood | Project #: | 5101.0002 | Page 1 of 1 |
| Monitoring Well: | MW-22 | Date: | 9/15/2022 | |
| Field Personnel: | JR | Weather: | Sunny 70s | |

### PRE-PURGE INFO:

| | | | |
|---|---|---|---|
| Well Depth (ft btoc): | 21.5 | Depth to Water (ft btoc): | 4.5 |
| PID Beneath PVC Cap (ppm) | NA | Screened/Open Interval (ft btoc): | 17 - 22 |
| Pump Used: | 2" bladder | Depth of Pump (ft btoc): | 20 |

### POST-PURGE INFO:

| | | | |
|---|---|---|---|
| Color: | Clear | $Mn/MnO_4$ (mg/L): | NA |
| Volume Purged (gal): | 2 | Sample ID: | MW-22 091522 |
| Final Depth to Water (ft btoc): | 4.5 | Sample Time: | 17:50 |

### WELL PURGE DATA:

| **Time** 5 minute intervals | **Temperature (°C)** | **pH (units)** | **Conductivity (ms/cm)** | **REDOX (Eh-mV)** | **DO (mg/L)** | **Turbidity (NTU)** | **Depth to Water (ft)** | **Salinity (PPT)** | **Pumping Rate (ml/min)** | **Comment** |
|---|---|---|---|---|---|---|---|---|---|---|
| | Reading | Reading | Reading | Reading | Reading | Reading | Reading | | | |
| | 3% | 0.1 unit | 3% | 10 mV | 10% | 10% | 0.3 ft | | 100 - 500 | |
| 17:05 | 15.92 | -0.56 | 0.288 | 299.0 | 0.91 | 70.6 | 4.50 | NA | 120 | |
| 17:10 | 15.69 | -0.40 | 0.282 | 292.3 | 0.71 | 67.8 | 4.50 | 0.86 | 120 | |
| 17:15 | 15.62 | -0.32 | 0.255 | 281.9 | 0.55 | 55.6 | 4.50 | 0.87 | 120 | |
| 17:20 | 15.15 | 0.40 | 0.252 | 263.8 | 0.40 | 37.1 | 4.50 | 0.87 | 120 | |
| 17:25 | 15.05 | 1.51 | 0.251 | 232.2 | 0.37 | 33.0 | 4.50 | 0.87 | 120 | |
| 17:30 | 15.03 | 1.90 | 0.251 | 221.6 | 0.34 | 32.5 | 4.50 | 0.87 | 120 | |
| 17:35 | 15.02 | 2.47 | 0.252 | 205.0 | 0.33 | 37.1 | 4.50 | 0.87 | 120 | |
| 17:40 | 15.00 | 2.99 | 0.253 | 185.2 | 0.32 | 40.8 | 4.50 | 0.87 | 120 | |
| 17:45 | 14.98 | 3.06 | 0.254 | 179.8 | 0.31 | 40.2 | 4.50 | 0.87 | 120 | |
| 17:50 | 14.92 | 3.08 | 0.255 | 176.2 | 0.31 | 39.0 | 4.50 | 0.87 | 120 | |
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## LOW FLOW GROUND WATER PURGE/SAMPLING LOG

***Former Dover Electronics Site, Kirkwood, NY (5101.0002)***

| | | | | |
|---|---|---|---|---|
| Project Name: | Dover-Kirkwood | Project #: | 5101.0002 | Page 1 of 1 |
| Monitoring Well: | MW-24 | Date: | 9/15/2022 | |
| Field Personnel: | MKS | Weather: | Sunny | |

### PRE-PURGE INFO:

| | | | |
|---|---|---|---|
| Well Depth (ft btoc): | 44.5 | Depth to Water (ft btoc): | 35.1 |
| PID Beneath PVC Cap (ppm) | NA | Screened/Open Interval (ft btoc): | 35 - 45 |
| Pump Used: | 2" Bladder | Depth of Pump (ft btoc): | 40 |

### POST-PURGE INFO:

| | | | |
|---|---|---|---|
| Color: | Heavy Purple | $Mn/MnO_4$ (mg/L): | 12 |
| Volume Purged (gal): | 1 | Sample ID: | MW-24 091522 |
| Final Depth to Water (ft btoc): | 37.40 | Sample Time: | 12:20 |

### WELL PURGE DATA:

| **Time** 5 minute intervals | **Temperature (°C)** | **pH (units)** | **Conductivity (ms/cm)** | **REDOX (Eh-mV)** | **DO (mg/L)** | **Turbidity (NTU)** | **Depth to Water (ft)** | **Salinity (PPT)** | **Pumping Rate (ml/min)** | **Comment** |
|---|---|---|---|---|---|---|---|---|---|---|
| | Reading | Reading | Reading | Reading | Reading | Reading | Reading | | | |
| | 3% | 0.1 unit | 3% | 10 mV | 10% | 10% | 0.3 ft | | 100 - 500 | |
| 11:30 | 11.31 | 8.87 | 0.777 | 422.8 | 11.31 | NA | 35.10 | 0.39 | 100 | |
| 11:35 | 10.31 | 8.94 | 0.780 | 431.3 | 12.21 | 831 | 36.70 | 0.39 | NA | |
| 11:40 | 10.72 | 9.10 | 0.783 | 453.1 | 13.03 | 727 | 36.90 | 0.39 | NA | |
| 11:45 | 10.51 | 9.19 | 0.798 | 480.7 | 14.01 | 621 | 37.20 | 0.39 | NA | |
| 11:50 | 10.31 | 9.23 | 0.800 | 491.3 | 14.31 | 567 | 37.30 | 0.41 | NA | |
| 11:55 | 10.70 | 9.28 | 0.810 | 507.1 | 15.31 | 432 | 37.40 | 0.41 | NA | |
| 12:00 | 9.87 | 9.28 | 0.815 | 502.3 | 15.45 | 395 | NA | 0.41 | NA | |
| 12:05 | 9.71 | 9.28 | 0.810 | 502.2 | 16.37 | 392 | NA | 0.41 | NA | |
| 12:10 | 9.62 | 9.37 | 0.810 | 513.7 | 16.43 | 383 | NA | 0.41 | NA | |
| 12:15 | 9.57 | 9.38 | 0.810 | 515.0 | 16.70 | 381 | NA | 0.41 | NA | |
| 12:20 | 9.46 | 9.40 | 0.810 | 516.8 | 16.78 | 372 | NA | 0.41 | NA | |
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## LOW FLOW GROUND WATER PURGE/SAMPLING LOG

***Former Dover Electronics Site, Kirkwood, NY (5101.0002)***

| | | | | |
|---|---|---|---|---|
| Project Name: | Dover-Kirkwood | Project #: | 5101.0002 | Page 1 of 1 |
| Monitoring Well: | MW-25R | Date: | 9/16/2022 | |
| Field Personnel: | JR | Weather: | Sunny 70s | |

### PRE-PURGE INFO:

| | | | |
|---|---|---|---|
| Well Depth (ft btoc): | 37.6 | Depth to Water (ft btoc): | 13.1 |
| PID Beneath PVC Cap (ppm) | NA | Screened/Open Interval (ft btoc): | 34 - 39 |
| Pump Used: | 2" bladder | Depth of Pump (ft btoc): | 37 |

### POST-PURGE INFO:

| | | | |
|---|---|---|---|
| Color: | Clear | $Mn/MnO_4$ (mg/L): | NA |
| Volume Purged (gal): | 2 | Sample ID: | MW-25R 091622 |
| Final Depth to Water (ft btoc): | 13.1 | Sample Time: | 11:55 |

### WELL PURGE DATA:

| **Time** 5 minute intervals | **Temperature (°C)** | **pH (units)** | **Conductivity (ms/cm)** | **REDOX (Eh-mV)** | **DO (mg/L)** | **Turbidity (NTU)** | **Depth to Water (ft)** | **Salinity (PPT)** | **Pumping Rate (ml/min)** | **Comment** |
|---|---|---|---|---|---|---|---|---|---|---|
| | Reading | Reading | Reading | Reading | Reading | Reading | Reading | | | |
| | 3% | 0.1 unit | 3% | 10 mV | 10% | 10% | 0.3 ft | | 100 - 500 | |
| 11:10 | 18.18 | 6.98 | 5.266 | 206.9 | 4.70 | 422 | 13.10 | 0.87 | 120 | |
| 11:15 | 17.48 | 6.92 | 5.424 | 213.9 | 3.56 | 309 | 13.10 | 0.89 | 120 | |
| 11:20 | 17.16 | 6.88 | 5.440 | 227.9 | 2.98 | 313 | 13.10 | 0.91 | 120 | |
| 11:25 | 17.07 | 6.87 | 5.400 | 230.9 | 2.55 | 322 | 13.10 | 0.92 | 120 | |
| 11:30 | 17.05 | 6.87 | 5.367 | 228.5 | 2.16 | 303 | 13.10 | 0.95 | 120 | |
| 11:35 | 17.04 | 6.87 | 5.351 | 225.6 | 1.98 | 241 | 13.10 | 0.92 | 120 | |
| 11:40 | 17.07 | 6.87 | 5.339 | 222.9 | 1.88 | 218 | 13.10 | 0.92 | 120 | |
| 11:45 | 17.12 | 6.87 | 5.325 | 220.5 | 1.80 | 207 | 13.10 | NA | 120 | |
| 11:50 | 17.16 | 6.87 | 5.314 | 218.6 | 1.78 | 206 | 13.10 | NA | 120 | |
| 11:55 | 17.20 | 6.86 | 5.306 | 217.3 | 1.80 | 198 | 13.10 | NA | 120 | |
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## LOW FLOW GROUND WATER PURGE/SAMPLING LOG

***Former Dover Electronics Site, Kirkwood, NY (5101.0002)***

| | | | | |
|---|---|---|---|---|
| Project Name: | Dover-Kirkwood | Project #: | 5101.0002 | Page 1 of 1 |
| Monitoring Well: | MW-26 | Date: | 9/14/2022 | |
| Field Personnel: | JR | Weather: | Sunny 70S | |

### PRE-PURGE INFO:

| | | | |
|---|---|---|---|
| Well Depth (ft btoc): | 27 | Depth to Water (ft btoc): | 14.4 |
| PID Beneath PVC Cap (ppm) | NA | Screened/Open Interval (ft btoc): | 22.5 - 27.5 |
| Pump Used: | 2" bladder | Depth of Pump (ft btoc): | 25 |

### POST-PURGE INFO:

| | | | |
|---|---|---|---|
| Color: | Clear | $Mn/MnO_4$ (mg/L): | NA |
| Volume Purged (gal): | 2 | Sample ID: | MW-26 091422 |
| Final Depth to Water (ft btoc): | 14.4 | Sample Time: | 17:45 |

### WELL PURGE DATA:

| **Time** 5 minute intervals | **Temperature (°C)** | **pH (units)** | **Conductivity (ms/cm)** | **REDOX (Eh-mV)** | **DO (mg/L)** | **Turbidity (NTU)** | **Depth to Water (ft)** | **Salinity (PPT)** | **Pumping Rate (ml/min)** | **Comment** |
|---|---|---|---|---|---|---|---|---|---|---|
| | Reading | Reading | Reading | Reading | Reading | Reading | Reading | | | |
| | 3% | 0.1 unit | 3% | 10 mV | 10% | 10% | 0.3 ft | | 100 - 500 | |
| 16:40 | 16.97 | 9.51 | 0.407 | 47.0 | 1.16 | 159 | 14.40 | 0.41 | 120 | |
| 16:45 | 17.06 | 9.47 | 0.377 | 46.0 | 0.98 | 150 | 14.40 | 0.40 | 120 | |
| 16:50 | 17.04 | 9.29 | 0.315 | 33.0 | 0.61 | 117 | 14.40 | 0.40 | 120 | |
| 16:55 | 16.02 | 9.26 | 0.329 | -25.5 | 0.42 | 69.3 | 14.40 | 0.38 | 120 | |
| 17:00 | 15.35 | 9.36 | 0.348 | -67.6 | 0.36 | 49.5 | 14.40 | 0.37 | 120 | |
| 17:05 | 15.24 | 9.37 | 0.367 | -85.1 | 0.31 | 42.5 | 14.40 | 0.38 | 120 | |
| 17:10 | 15.27 | 9.35 | 0.411 | -103.8 | 0.29 | 33.6 | 14.40 | 0.36 | 120 | |
| 17:15 | 15.22 | 9.40 | 0.469 | -116.6 | 0.29 | 31.7 | 14.40 | 0.36 | 120 | |
| 17:20 | 15.11 | 9.69 | 0.586 | -126.2 | 0.29 | 33.7 | 14.40 | 0.35 | 120 | |
| 17:25 | 14.87 | 9.74 | 0.672 | -129.7 | 0.28 | 33.4 | 14.40 | 0.35 | 120 | |
| 17:30 | 14.83 | 9.79 | 0.783 | -129.0 | 0.29 | 31.3 | 14.40 | 0.35 | 120 | |
| 17:35 | 14.77 | 9.84 | 0.855 | -129.6 | 0.29 | 27.1 | 14.40 | 0.35 | 120 | |
| 17:40 | 14.64 | 9.88 | 0.871 | -126.0 | 0.30 | 26.1 | 14.40 | 0.35 | 120 | |
| 17:45 | 14.54 | 9.87 | 0.876 | -122.0 | 0.30 | 25.8 | 14.40 | 0.35 | 120 | |
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## LOW FLOW GROUND WATER PURGE/SAMPLING LOG

***Former Dover Electronics Site, Kirkwood, NY (5101.0002)***

| | | | | |
|---|---|---|---|---|
| Project Name: | Dover-Kirkwood | Project #: | 5101.0002 | Page 1 of 1 |
| Monitoring Well: | MW-27 | Date: | 9/14/2022 | |
| Field Personnel: | MKS | Weather: | Sunny 60s | |

### PRE-PURGE INFO:

| | | | |
|---|---|---|---|
| Well Depth (ft btoc): | 25.9 | Depth to Water (ft btoc): | 13.4 |
| PID Beneath PVC Cap (ppm) | NA | Screened/Open Interval (ft btoc): | 16.5 - 26.5 |
| Pump Used: | 2" bladder | Depth of Pump (ft btoc): | 21 |

### POST-PURGE INFO:

| | | | |
|---|---|---|---|
| Color: | Clear | $Mn/MnO_4$ (mg/L): | NA |
| Volume Purged (gal): | ~3 | Sample ID: | MW-27 091422 |
| Final Depth to Water (ft btoc): | 14.63 | Sample Time: | 17:25 |

### WELL PURGE DATA:

| **Time** 5 minute intervals | **Temperature (°C)** | **pH (units)** | **Conductivity (ms/cm)** | **REDOX (Eh-mV)** | **DO (mg/L)** | **Turbidity (NTU)** | **Depth to Water (ft)** | **Salinity (PPT)** | **Pumping Rate (ml/min)** | **Comment** |
|---|---|---|---|---|---|---|---|---|---|---|
| | Reading | Reading | Reading | Reading | Reading | Reading | Reading | | | |
| | 3% | 0.1 unit | 3% | 10 mV | 10% | 10% | 0.3 ft | | 100 - 500 | |
| 16:40 | 16.95 | 6.81 | 1.680 | 62.3 | 4.51 | 142.1 | 13.40 | 0.71 | 150 | |
| 16:45 | 16.41 | 6.78 | 1.590 | 51.2 | 4.23 | 121.7 | 13.90 | 0.71 | 150 | |
| 16:50 | 16.81 | 6.68 | 1.431 | 49.5 | 4.07 | 47.2 | 14.03 | 0.71 | 150 | |
| 16;55 | 16.97 | 6.54 | 1.398 | 36.0 | 3.93 | 74.9 | 14.12 | 0.71 | 150 | |
| 17:00 | 16.17 | 6.47 | 1.395 | 28.0 | 3.97 | 49.1 | 14.32 | 0.70 | 150 | |
| 17:05 | 16.30 | 6.43 | 1.398 | 20.3 | 3.88 | 37.8 | 14.43 | 0.70 | NA | |
| 17:10 | 16.23 | 6.42 | 1.397 | 19.1 | 3.71 | 29.9 | 14.50 | 0.70 | NA | |
| 17:15 | 16.12 | 6.40 | 1.394 | 19.8 | 3.85 | 24.0 | 14.53 | 0.70 | NA | |
| 17:20 | 16.03 | 6.39 | 1.393 | 15.3 | 3.75 | 22.3 | NA | 0.70 | NA | |
| 17:25 | 15.99 | 6.39 | 1.392 | 12.4 | 3.70 | 22.2 | NA | 0.70 | NA | |
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## LOW FLOW GROUND WATER PURGE/SAMPLING LOG

***Former Dover Electronics Site, Kirkwood, NY (5101.0002)***

| | | | | |
|---|---|---|---|---|
| Project Name: | Dover-Kirkwood | Project #: | 5101.0002 | Page 1 of 1 |
| Monitoring Well: | MW-28 | Date: | 9/14/2022 | |
| Field Personnel: | MKS | Weather: | 70s, Sunny | |

### PRE-PURGE INFO:

| | | | |
|---|---|---|---|
| Well Depth (ft btoc): | 23.2 | Depth to Water (ft btoc): | TOC |
| PID Beneath PVC Cap (ppm) | NA | Screened/Open Interval (ft btoc): | 15 - 25 |
| Pump Used: | 2" bladder | Depth of Pump (ft btoc): | 20 |

### POST-PURGE INFO:

| | | | |
|---|---|---|---|
| Color: | Very Cloudy | $Mn/MnO_4$ (mg/L): | NA |
| Volume Purged (gal): | ~3 | Sample ID: | MW-28 091422 |
| Final Depth to Water (ft btoc): | 7.32 | Sample Time: | 15:40 |

### WELL PURGE DATA:

| **Time** 5 minute intervals | **Temperature (°C)** | **pH (units)** | **Conductivity (ms/cm)** | **REDOX (Eh-mV)** | **DO (mg/L)** | **Turbidity (NTU)** | **Depth to Water (ft)** | **Salinity (PPT)** | **Pumping Rate (ml/min)** | **Comment** |
|---|---|---|---|---|---|---|---|---|---|---|
| | Reading | Reading | Reading | Reading | 0.79 | Reading | Reading | | | |
| | 3% | 0.1 unit | 3% | 10 mV | 1% | 10% | 0.3 ft | | 100 - 500 | |
| 14:30 | 20.92 | 8.92 | 0.631 | -27.8 | 0.79 | NA | TOC | 0.29 | 150 | |
| 14:35 | 20.79 | 8.95 | 0.621 | -27.1 | 0.72 | NA | 3.27 | 0.29 | 150 | |
| 14:40 | 20.31 | 8.97 | 0.579 | -28.7 | 0.69 | NA | 4.81 | 0.29 | 150 | |
| 14:45 | 20.84 | 8.80 | 0.575 | -29.9 | 0.62 | NA | 5.31 | 0.28 | 150 | |
| 14:50 | 22.13 | 8.81 | 0.571 | -40.2 | 0.66 | NA | 6.31 | 0.28 | NA | |
| 14:55 | 23.32 | 8.79 | 0.567 | -46.3 | 0.67 | NA | 6.81 | 0.27 | NA | |
| 15:00 | 24.10 | 8.70 | 0.563 | -50.6 | 0.68 | NA | 7.01 | 0.27 | NA | |
| 15:05 | 24.32 | 8.72 | 0.560 | -55.2 | 0.67 | NA | 7.47 | 0.27 | NA | |
| 15:10 | 25.48 | 8.73 | 0.557 | -65.0 | 0.66 | NA | 7.36 | 0.27 | NA | |
| 15:20 | 20.70 | 8.51 | 0.495 | -18.7 | 0.62 | 831 | 7.32 | 0.24 | NA | |
| 15:25 | 20.74 | 8.50 | 0.493 | -17.9 | 0.53 | 827 | NA | 0.23 | NA | |
| 15:30 | 20.85 | 8.48 | 0.485 | -16.8 | 0.52 | 810 | NA | 0.23 | NA | |
| 15:35 | 20.81 | 8.48 | 0.481 | -16.6 | 0.50 | 798 | NA | 0.23 | NA | |
| 15:40 | 20.78 | 8.47 | 0.480 | -16.5 | 0.50 | 782 | NA | 0.23 | NA | |
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## LOW FLOW GROUND WATER PURGE/SAMPLING LOG

***Former Dover Electronics Site, Kirkwood, NY (5101.0002)***

| | | | | |
|---|---|---|---|---|
| Project Name: | Dover-Kirkwood | Project #: | 5101.0002 | Page 1 of 1 |
| Monitoring Well: | MW-31 | Date: | 9/14/2022 | |
| Field Personnel: | JR | Weather: | 70's, Sunny | |

### PRE-PURGE INFO:

| | | | |
|---|---|---|---|
| Well Depth (ft btoc): | 22.81 | Depth to Water (ft btoc): | 12 |
| PID Beneath PVC Cap (ppm) | NA | Screened/Open Interval (ft btoc): | 13 - 23 |
| Pump Used: | 2" bladder | Depth of Pump (ft btoc): | 18 |

### POST-PURGE INFO:

| | | | |
|---|---|---|---|
| Color: | Clear | $Mn/MnO_4$ (mg/L): | NA |
| Volume Purged (gal): | 1 | Sample ID: | MW-31 091422 |
| Final Depth to Water (ft btoc): | 12 | Sample Time: | 12:30 |

### WELL PURGE DATA:

| Time 5 minute intervals | Temperature (°C) | pH (units) | Conductivity (ms/cm) | REDOX (Eh-mV) | DO (mg/L) | Turbidity (NTU) | Depth to Water (ft) | Salinity (PPT) | Pumping Rate (ml/min) | Comment |
|---|---|---|---|---|---|---|---|---|---|---|
| | Reading | Reading | Reading | Reading | Reading | Reading | Reading | | | |
| | 3% | 0.1 unit | 3% | 10 mV | 10% | 10% | 0.3 ft | | 100 - 500 | |
| 12:40 | 18.51 | 7.70 | 2.416 | -37.4 | 2.46 | 39.20 | 12.00 | 0.31 | 120 | |
| 12:45 | 18.47 | 7.46 | 2.230 | -35.8 | 2.37 | 35.50 | 12.00 | 0.31 | 120 | |
| 12:50 | 18.84 | 7.86 | 2.579 | -37.0 | 1.99 | 22.20 | 12.00 | 0.31 | 120 | |
| 12:55 | 18.87 | 9.10 | 2.714 | -46.4 | 1.82 | 17.10 | 12.00 | 0.31 | 120 | |
| 13:00 | 18.93 | 8.97 | 2.774 | -47.4 | 1.73 | 14.10 | 12.00 | 0.31 | 120 | |
| 13:05 | 18.99 | 8.97 | 2.812 | -48.1 | 1.69 | 10.60 | 12.00 | 0.31 | 120 | |
| 13:10 | 18.97 | 8.87 | 2.839 | -48.9 | 1.62 | 9.12 | 12.00 | 0.31 | 120 | |
| 13:15 | 19.07 | 8.88 | 2.868 | -48.8 | 1.56 | 8.64 | 12.00 | 0.31 | 120 | |
| 13:20 | 19.27 | 8.97 | 2.878 | -46.1 | 1.61 | 7.25 | 12.00 | 0.31 | 120 | |
| 13:25 | 19.16 | 8.95 | 2.878 | -49.1 | 1.53 | 7.17 | 12.00 | 0.31 | 120 | |
| 13:30 | 19.09 | 8.91 | 2.885 | -51.5 | 1.53 | 7.12 | 12.00 | 0.31 | 120 | |
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## LOW FLOW GROUND WATER PURGE/SAMPLING LOG

***Former Dover Electronics Site, Kirkwood, NY (5101.0002)***

| | | | | |
|---|---|---|---|---|
| Project Name: | Dover-Kirkwood | Project #: | 5101.0002 | Page 1 of 1 |
| Monitoring Well: | MW-32 | Date: | 9/14/2022 | |
| Field Personnel: | JR | Weather: | Cloudy 70s | |

### PRE-PURGE INFO:

| | | | |
|---|---|---|---|
| Well Depth (ft btoc): | 24 | Depth to Water (ft btoc): | 12.2 |
| PID Beneath PVC Cap (ppm) | NA | Screened/Open Interval (ft btoc): | 15.1 - 25.1 |
| Pump Used: | 2" bladder | Depth of Pump (ft btoc): | 20 |

### POST-PURGE INFO:

| | | | |
|---|---|---|---|
| Color: | Clear | $Mn/MnO_4$ (mg/L): | NA |
| Volume Purged (gal): | ~7 | Sample ID: | MW-32 091422 |
| Final Depth to Water (ft btoc): | 12.2 | Sample Time: | 11:20 |

### WELL PURGE DATA:

| **Time** 5 minute intervals | **Temperature (°C)** | **pH (units)** | **Conductivity (ms/cm)** | **REDOX (Eh-mV)** | **DO (mg/L)** | **Turbidity (NTU)** | **Depth to Water (ft)** | **Salinity (PPT)** | **Pumping Rate (ml/min)** | **Comment** |
|---|---|---|---|---|---|---|---|---|---|---|
| | Reading | Reading | Reading | Reading | Reading | Reading | Reading | | | |
| | 3% | 0.1 unit | 3% | 10 mV | 10% | 349% | 0.3 ft | | 100 - 500 | |
| 10:20 | 17.90 | 9.38 | 1.904 | -47.2 | 5.25 | 349 | 12.20 | 0.43 | 100 | |
| 10:25 | 18.09 | 9.27 | 1.863 | -46.0 | 2.33 | 338 | 12.20 | 0.44 | 100 | |
| 10:30 | 18.15 | 9.25 | 1.766 | -43.9 | 1.87 | 276 | 12.20 | 0.44 | 100 | |
| 10:35 | 18.18 | 9.12 | 1.662 | -48.9 | 1.72 | 215 | 12.20 | 0.44 | 100 | |
| 10:40 | 18.15 | 9.17 | 1.584 | -60.5 | 1.69 | 153 | 12.20 | 0.44 | 100 | |
| 10:45 | 18.16 | 9.18 | 1.591 | -68.2 | 1.48 | 110 | 12.20 | 0.44 | 100 | |
| 10:50 | 18.02 | 9.16 | 1.619 | -76.1 | 1.39 | 88.2 | 12.20 | 0.44 | 100 | |
| 10:55 | 17.92 | 9.05 | 1.643 | -80.1 | 1.34 | 69.8 | 12.20 | 0.44 | 100 | |
| 11:00 | 17.97 | 9.04 | 1.641 | -82.2 | 1.40 | 62.9 | 12.20 | 0.45 | 100 | |
| 11:05 | 17.83 | 9.05 | 1.682 | -88.0 | 1.38 | 46.6 | 12.20 | NA | 100 | |
| 11:10 | 17.85 | 9.13 | 1.691 | -90.6 | 1.26 | 46.0 | 12.20 | 0.45 | 100 | |
| 11:15 | 17.78 | 9.13 | 1.704 | -92.1 | 1.25 | 44.8 | 12.20 | 0.45 | 100 | |
| 11:20 | 17.72 | 9.10 | 1.701 | -95.0 | 1.18 | 42.9 | 12.20 | 0.45 | 100 | |
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## LOW FLOW GROUND WATER PURGE/SAMPLING LOG

***Former Dover Electronics Site, Kirkwood, NY (5101.0002)***

| | | | | |
|---|---|---|---|---|
| Project Name: | Dover-Kirkwood | Project #: | 5101.0002 | Page 1 of 1 |
| Monitoring Well: | MW-35 | Date: | 9/14/2022 | |
| Field Personnel: | MKS | Weather: | Sunny 70s | |

### PRE-PURGE INFO:

| | | | |
|---|---|---|---|
| Well Depth (ft btoc): | 36.72 | Depth to Water (ft btoc): | 12.43 |
| PID Beneath PVC Cap (ppm) | NA | Screened/Open Interval (ft btoc): | 32 - 37 |
| Pump Used: | 2" bladder | Depth of Pump (ft btoc): | 35 |

### POST-PURGE INFO:

| | | | |
|---|---|---|---|
| Color: | Clear | $Mn/MnO_4$ (mg/L): | NA |
| Volume Purged (gal): | ~3 | Sample ID: | MW-35 091422 |
| Final Depth to Water (ft btoc): | 12.80 | Sample Time: | 11:10 |

### WELL PURGE DATA:

| **Time** 5 minute intervals | **Temperature (°C)** | **pH (units)** | **Conductivity (ms/cm)** | **REDOX (Eh-mV)** | **DO (mg/L)** | **Turbidity (NTU)** | **Depth to Water (ft)** | **Salinity (PPT)** | **Pumping Rate (ml/min)** | **Comment** |
|---|---|---|---|---|---|---|---|---|---|---|
| | Reading | Reading | Reading | Reading | Reading | Reading | Reading | | | |
| | 3% | 0.1 unit | 3% | 10 mV | 10% | 10% | 0.3 ft | | 100 - 500 | |
| 10:05 | 16.82 | 6.81 | 0.482 | 81.2 | 0.89 | NA | 12.43 | 0.22 | 100 | |
| 10:10 | 16.85 | 6.87 | 0.498 | 78.3 | 1.01 | NA | 12.59 | 0.22 | 100 | |
| 10:15 | 17.10 | 6.91 | 0.513 | 68.5 | 1.07 | 892 | 12.75 | 0.23 | 100 | |
| 10:20 | 17.30 | 6.99 | 0.500 | 33.4 | 1.08 | 707 | 12.80 | 0.24 | 100 | |
| 10:25 | 17.30 | 7.00 | 0.671 | 10.8 | 1.11 | 550 | NA | 0.28 | NA | |
| 10:30 | 17.32 | 7.02 | 0.646 | -27.7 | 1.14 | 420 | NA | 0.34 | NA | |
| 10:35 | 17.38 | 7.01 | 0.767 | -41.5 | 1.24 | 387 | NA | 0.38 | NA | |
| 10:40 | 17.40 | 6.95 | 0.823 | -51.2 | 1.42 | 302 | NA | 0.45 | NA | |
| 10:45 | 17.44 | 6.93 | 0.986 | -63.2 | 1.58 | 214 | NA | 0.49 | NA | |
| 10:50 | 17.41 | 6.90 | 1.023 | -65.3 | 1.89 | 182 | NA | 0.55 | NA | |
| 10:55 | 17.38 | 6.88 | 1.111 | -67.6 | 2.00 | 166 | NA | 0.57 | NA | |
| 11:00 | 17.41 | 6.83 | 1.248 | -67.9 | 2.03 | 127 | NA | 0.59 | NA | |
| 11:05 | 17.42 | 6.83 | 1.250 | -69.8 | 2.07 | 122 | NA | 0.61 | NA | |
| 11:10 | 17.43 | 6.61 | 1.259 | -69.2 | 2.11 | 117 | NA | 0.63 | NA | |
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## LOW FLOW GROUND WATER PURGE/SAMPLING LOG

***Former Dover Electronics Site, Kirkwood, NY (5101.0002)***

| | | | | | |
|---|---|---|---|---|---|
| Project Name: | Dover-Kirkwood | Project #: | 5101.0002 | Page 1 of 1 | |
| Monitoring Well: | MW-38 | Date: | 9/15/2022 | | |
| Field Personnel: | JR | Weather: | 60's, Sunny | | |

### PRE-PURGE INFO:

| | | | |
|---|---|---|---|
| Well Depth (ft btoc): | 23.9 | Depth to Water (ft btoc): | 8.50 |
| PID Beneath PVC Cap (ppm) | NA | Screened/Open Interval (ft btoc): | 20 - 25 |
| Pump Used: | 2" bladder | Depth of Pump (ft btoc): | 23 |

### POST-PURGE INFO:

| | | | |
|---|---|---|---|
| Color: | Clear | $Mn/MnO_4$ (mg/L): | NA |
| Volume Purged (gal): | 1 | Sample ID: | MW-38 091522 |
| Final Depth to Water (ft btoc): | 8.5 | Sample Time: | 10:25 |

### WELL PURGE DATA:

| Time 5 minute intervals | Temperature (°C) | pH (units) | Conductivity (ms/cm) | REDOX (Eh-mV) | DO (mg/L) | Turbidity (NTU) | Depth to Water (ft) | Salinity (PPT) | Pumping Rate (ml/min) | Comment |
|---|---|---|---|---|---|---|---|---|---|---|
| | Reading | Reading | Reading | Reading | Reading | Reading | Reading | | | |
| | 3% | 0.1 unit | 3% | 10 mV | 10% | 10% | 0.3 ft | | 100 - 500 | |
| 9:20 | 13.21 | 7.50 | 1.012 | 40.2 | 2.21 | 10.0 | 8.50 | 0.32 | 100 | |
| 9:25 | 13.26 | 7.47 | 1.002 | 41.9 | 1.86 | 9.81 | 8.50 | 0.32 | 100 | |
| 9:30 | 13.17 | 7.12 | 1.007 | 37.6 | 1.70 | 7.72 | 8.50 | 0.33 | 100 | |
| 9:35 | 13.51 | 6.97 | 0.987 | 35.4 | 1.72 | 8.11 | 8.50 | 0.34 | 100 | |
| 9:40 | 13.54 | 6.57 | 0.991 | 32.0 | 1.68 | 5.70 | 8.50 | 0.34 | 100 | |
| 9:45 | 13.61 | 6.28 | 0.810 | 29.3 | 1.52 | 3.96 | 8.50 | 0.34 | 100 | |
| 9:50 | 12.94 | 5.98 | 0.803 | 17.8 | 1.01 | 3.42 | 8.50 | 0.34 | 100 | |
| 9:55 | 12.88 | 5.92 | 0.810 | 17.6 | 0.95 | 6.33 | 8.50 | 0.34 | 100 | |
| 10:00 | 12.75 | 5.87 | 0.841 | 15.6 | 0.91 | 10.1 | 8.50 | 0.34 | 100 | |
| 10:05 | 12.69 | 5.92 | 0.852 | 19.9 | 0.89 | 14.6 | 8.50 | 0.34 | 100 | |
| 10:10 | 12.64 | 5.99 | 0.858 | 18.8 | 0.88 | 16.4 | 8.50 | 0.34 | 100 | |
| 10:15 | 12.72 | 6.31 | 0.867 | 8.0 | 0.87 | 19.7 | 8.50 | 0.34 | 100 | |
| 10:20 | 12.70 | 6.39 | 0.867 | 6.5 | 0.85 | 20.7 | 8.50 | 0.34 | 100 | |
| 10:25 | 12.67 | 6.41 | 0.868 | 5.3 | 0.84 | 20.3 | 8.50 | 0.34 | 100 | |
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## LOW FLOW GROUND WATER PURGE/SAMPLING LOG

***Former Dover Electronics Site, Kirkwood, NY (5101.0002)***

| | | | | | |
|---|---|---|---|---|---|
| Project Name: | Dover-Kirkwood | Project #: | 5101.0002 | Page 1 of 1 | |
| Monitoring Well: | MW-39 | Date: | 9/14/2022 | | |
| Field Personnel: | MKS | Weather: | 60's, Sunny | | |

### PRE-PURGE INFO:

| | | | |
|---|---|---|---|
| Well Depth (ft btoc): | 47 | Depth to Water (ft btoc): | 13.22 |
| PID Beneath PVC Cap (ppm) | NA | Screened/Open Interval (ft btoc): | 42 - 47 |
| Pump Used: | 2" bladder | Depth of Pump (ft btoc): | 44 |

### POST-PURGE INFO:

| | | | |
|---|---|---|---|
| Color: | Clear | $Mn/MnO_4$ (mg/L): | NA |
| Volume Purged (gal): | ~2.5 | Sample ID: | MW-39 091422 |
| Final Depth to Water (ft btoc): | 13.8 | Sample Time | 13:00 |

### WELL PURGE DATA:

| **Time** 5 minute intervals | **Temperature (°C)** | **pH (units)** | **Conductivity (ms/cm)** | **REDOX (Eh-mV)** | **DO (mg/L)** | **Turbidity (NTU)** | **Depth to Water (ft)** | **Salinity (PPT)** | **Pumping Rate (ml/min)** | **Comment** |
|---|---|---|---|---|---|---|---|---|---|---|
| | Reading | Reading | Reading | Reading | Reading | Reading | Reading | | | |
| | 3% | 0.1 unit | 3% | 10 mV | 10% | 10% | 0.3 ft | | 100 - 500 | |
| 12:10 | 15.89 | 6.98 | 1.781 | 187.9 | 3.87 | 489 | 13.22 | 0.88 | 150 | |
| 12:15 | 15.71 | 6.92 | 1.741 | 178.3 | 3.61 | 301 | 13.39 | 0.88 | 150 | |
| 12:20 | 15.41 | 6.82 | 1.731 | 172.3 | 3.49 | 231 | 13.01 | 0.88 | 150 | |
| 12:25 | 15.31 | 6.78 | 1.721 | 168.3 | 3.07 | 187 | 13.77 | 0.88 | 150 | |
| 12:30 | 15.08 | 6.71 | 1.701 | 162.1 | 2.89 | 121 | 13.51 | 0.87 | 150 | |
| 12:35 | 14.99 | 6.71 | 1.701 | 163.0 | 2.38 | 97.1 | 13.75 | 0.87 | 150 | |
| 12:40 | 14.91 | 6.68 | 1.721 | 162.8 | 2.28 | 83.1 | 13.78 | 0.87 | NA | |
| 12:45 | 14.82 | 6.66 | 1.707 | 162.2 | 2.22 | 82.4 | 13.80 | 0.87 | NA | |
| 12:50 | 14.81 | 6.65 | 1.710 | 161.5 | 2.16 | 78.2 | NA | 0.87 | NA | |
| 12:55 | 14.83 | 6.64 | 1.710 | 159.1 | 2.17 | 77.3 | NA | 0.87 | NA | |
| 13:00 | 14.85 | 6.62 | 1.710 | 157.5 | 2.20 | 75.3 | NA | 0.87 | NA | |
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## LOW FLOW GROUND WATER PURGE/SAMPLING LOG

***Former Dover Electronics Site, Kirkwood, NY (5101.0002)***

| | | | | |
|---|---|---|---|---|
| Project Name: | Dover-Kirkwood | Project #: | 5101.0002 | Page 1 of 1 |
| Monitoring Well: | MP-3D | Date: | 9/14/2022 | |
| Field Personnel: | CRM | Weather: | 70s mostly sunny | |

### PRE-PURGE INFO:

| | | | |
|---|---|---|---|
| Well Depth (ft btoc): | 56.2 | Depth to Water (ft btoc): | 37.34 |
| PID Beneath PVC Cap (ppm) | NA | Screened/Open Interval (ft btoc): | 46 - 56 |
| Pump Used: | 1" bladder | Depth of Pump (ft btoc): | 51 |

### POST-PURGE INFO:

| | | | |
|---|---|---|---|
| Color: | Clear | $Mn/MnO_4$ (mg/L): | NA |
| Volume Purged (gal): | 1.5 | Sample ID: | MP-3D 091422 |
| Final Depth to Water (ft btoc): | 13.47 | Sample Time: | 17:50 |

### WELL PURGE DATA:

| **Time** 5 minute intervals | **Temperature (°C)** | **pH (units)** | **Conductivity (ms/cm)** | **REDOX (Eh-mV)** | **DO (mg/L)** | **Turbidity (NTU)** | **Depth to Water (ft)** | **Salinity (PPT)** | **Pumping Rate (ml/min)** | **Comment** |
|---|---|---|---|---|---|---|---|---|---|---|
| | Reading | Reading | Reading | Reading | Reading | Reading | Reading | | | |
| | 3% | 0.1 unit | 3% | 10 mV | 10% | 10% | 0.3 ft | | 100 - 500 | |
| 16:35 | 17.76 | 5.71 | 0.281 | 324.9 | 12.42 | 9.78 | 37.46 | 0.13 | 50 | |
| 16:40 | 17.27 | 6.27 | 0.260 | 301.5 | 9.40 | 9.25 | 37.25 | 0.12 | 50 | |
| 16:45 | 17.41 | 6.61 | 0.248 | 292.8 | 8.44 | 6.53 | 37.25 | 0.12 | 50 | |
| 16:50 | 18.11 | 6.75 | 0.246 | 286.2 | 8.23 | 7.86 | 37.46 | 0.12 | 50 | |
| 16:55 | 17.75 | 6.86 | 0.249 | 282.9 | 8.06 | 6.85 | 13.47 | 0.12 | 50 | |
| 17:00 | 17.00 | 6.97 | 0.250 | 292.7 | 7.77 | 14.60 | 13.47 | 0.12 | 50 | |
| 17:05 | 16.82 | 6.83 | 0.250 | 297.5 | 7.54 | 9.68 | 13.47 | 0.12 | 50 | |
| 17:10 | 16.74 | 6.90 | 0.251 | 298.4 | 7.40 | 6.48 | 13.47 | 0.12 | 50 | |
| 17:15 | 16.62 | 6.97 | 0.258 | 300.7 | 7.18 | 4.44 | 13.47 | 0.12 | 50 | |
| 17:20 | 16.63 | 7.02 | 0.260 | 302.7 | 7.09 | 3.28 | 13.47 | 0.12 | 50 | |
| 17:25 | 16.58 | 6.99 | 0.318 | 309.4 | 6.59 | 2.72 | 13.47 | 0.12 | 50 | |
| 17:30 | 16.55 | 6.85 | 0.409 | 314.3 | 6.84 | 2.14 | 13.47 | 0.20 | 50 | |
| 17:35 | 16.50 | 6.78 | 0.468 | 313.2 | 4.43 | 1.54 | 13.47 | 0.23 | 50 | |
| 17:40 | 16.46 | 6.76 | 0.473 | 295.1 | 3.63 | 1.51 | 13.47 | 0.25 | 50 | |
| 17:45 | 16.44 | 6.74 | 0.478 | 291.7 | 3.57 | 1.48 | 13.47 | 0.27 | 50 | |
| 17:50 | 16.41 | 6.47 | 0.450 | 285.2 | 3.52 | 1.45 | 13.47 | 0.28 | 50 | |
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## LOW FLOW GROUND WATER PURGE/SAMPLING LOG

***Former Dover Electronics Site, Kirkwood, NY (5101.0002)***

| | | | | |
|---|---|---|---|---|
| Project Name: | Dover-Kirkwood | Project #: | 5101.0002 | Page 1 of 1 |
| Monitoring Well: | MP-4R | Date: | 9/15/2022 | |
| Field Personnel: | CRM | Weather: | 70s Sunny | |

### PRE-PURGE INFO:

| | | | |
|---|---|---|---|
| Well Depth (ft btoc): | 26.68 | Depth to Water (ft btoc): | 7.22 |
| PID Beneath PVC Cap (ppm) | NA | Screened/Open Interval (ft btoc): | 17 - 27 |
| Pump Used: | 1" Bladder | Depth of Pump (ft btoc): | 22 |

### POST-PURGE INFO:

| | | | |
|---|---|---|---|
| Color: | Brown / Purple | $Mn/MnO_4$ (mg/L): | 1.5 |
| Volume Purged (gal): | 1 | Sample ID: | MP-4R 091522 |
| Final Depth to Water (ft btoc): | 22 | Sample Time: | 15:15 |

### WELL PURGE DATA:

| Time 5 minute intervals | Temperature (°C) | pH (units) | Conductivity (ms/cm) | REDOX (Eh-mV) | DO (mg/L) | Turbidity (NTU) | Depth to Water (ft) | Salinity (PPT) | Pumping Rate (ml/min) | Comment |
|---|---|---|---|---|---|---|---|---|---|---|
| | Reading | Reading | Reading | Reading | Reading | Reading | Reading | | | |
| | 3% | 0.1 unit | 3% | 10 mV | 10% | 10% | 0.3 ft | | 100 - 500 | |
| 14:15 | 18.86 | 7.70 | 2.373 | 596.6 | 2.31 | OVER | 8.02 | 1.23 | 50 | |
| 14:20 | 18.63 | 6.65 | 2.331 | 609.6 | 2.59 | OVER | 9.61 | 1.20 | 50 | |
| 14:25 | 18.46 | 6.48 | 2.294 | 618.9 | 2.05 | OVER | 11.11 | 1.19 | 50 | |
| 14:30 | 18.47 | 6.41 | 2.286 | 619.9 | 1.62 | OVER | 13.16 | 1.18 | 50 | |
| 14:35 | 18.52 | 6.31 | 2.278 | 621.1 | 1.74 | OVER | 14.91 | 1.17 | 50 | |
| 14:40 | 18.85 | 6.23 | 2.278 | 621.3 | 2.05 | 888 | 15.70 | 1.17 | 50 | |
| 14:45 | 18.36 | 6.21 | 2.275 | 621.5 | 1.00 | 718 | 16.31 | 1.17 | NA | |
| 14:50 | 18.38 | 6.22 | 2.261 | 621.1 | 2.30 | 509 | 17.17 | 1.17 | NA | |
| 15:00 | 18.96 | 6.27 | 2.303 | 618.9 | 3.25 | 98.5 | 18.64 | 1.16 | NA | |
| 15:05 | 18.97 | 6.26 | 2.291 | 611.8 | 3.63 | 99.2 | 19.29 | 1.18 | NA | |
| 15:10 | 18.77 | 6.31 | 2.314 | 618.2 | 3.12 | 98.1 | 19.29 | 1.21 | NA | |
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## LOW FLOW GROUND WATER PURGE/SAMPLING LOG

***Former Dover Electronics Site, Kirkwood, NY (5101.0002)***

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|---|---|---|---|---|---|
| Project Name: | Dover-Kirkwood | Project #: | 5101.0002 | Page 1 of 1 | |
| Monitoring Well: | MP-5R | Date: | 9/14/2022 | | |
| Field Personnel: | CRM | Weather: | 70s Sunny/Cloudy | | |

### PRE-PURGE INFO:

| | | | |
|---|---|---|---|
| Well Depth (ft btoc): | 23.51 | Depth to Water (ft btoc): | 12.10 |
| PID Beneath PVC Cap (ppm) | NA | Screened/Open Interval (ft btoc): | 14 - 24 |
| Pump Used: | 1" Bladder | Depth of Pump (ft btoc): | 19 |

### POST-PURGE INFO:

| | | | |
|---|---|---|---|
| Color: | Purple | $Mn/MnO_4$ (mg/L): | 592 |
| Volume Purged (gal): | 1 | Sample ID: | MP-5R 091422 |
| Final Depth to Water (ft btoc): | 19 | Sample Time: | 14:40 |

### WELL PURGE DATA:

| **Time** 5 minute intervals | **Temperature (°C)** | **pH (units)** | **Conductivity (ms/cm)** | **REDOX (Eh-mV)** | **DO (mg/L)** | **Turbidity (NTU)** | **Depth to Water (ft)** | **Salinity (PPT)** | **Pumping Rate (ml/min)** | **Comment** |
|---|---|---|---|---|---|---|---|---|---|---|
| | Reading | Reading | Reading | Reading | Reading | Reading | Reading | | | |
| | 3% | 0.1 unit | 3% | 10 mV | 10% | 10% | 0.3 ft | | 100 - 500 | |
| 13:45 | 23.24 | 6.69 | 3.898 | 681.0 | 8.72 | 152 | 13.84 | 2.06 | 50 | |
| 13:50 | 22.36 | 6.57 | 3.660 | 685.3 | 7.66 | 177 | 14.33 | 1.90 | 50 | |
| 13:55 | 21.81 | 6.55 | 3.456 | 687.8 | 7.10 | 88.9 | 15.11 | 1.81 | NA | |
| 14:00 | 21.39 | 6.76 | 3.394 | 691.0 | 6.76 | 74.9 | 15.42 | 1.78 | NA | |
| 14:05 | 20.85 | 6.54 | 3.382 | 695.9 | 6.24 | 67.5 | 15.91 | 1.78 | 50 | |
| 14:10 | 20.37 | 6.62 | 3.638 | 705.8 | 6.41 | 45.9 | 16.80 | 1.95 | NA | |
| 14:15 | 20.29 | 6.99 | 3.948 | 709.7 | 7.15 | 42.2 | 17.00 | 2.12 | NA | |
| 14:20 | 20.36 | 6.40 | 4.904 | 722.9 | 8.94 | 45.4 | 17.86 | 2.82 | NA | |
| 14:25 | 19.46 | 6.45 | 9.665 | 727.0 | 10.45 | 46.4 | 18.31 | 5.35 | 50 | |
| 14:30 | 19.64 | 6.44 | 8.850 | 722.8 | 10.83 | 42.6 | 18.86 | 4.90 | NA | |
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## LOW FLOW GROUND WATER PURGE/SAMPLING LOG

***Former Dover Electronics Site, Kirkwood, NY (5101.0002)***

| | | | | |
|---|---|---|---|---|
| Project Name: | Dover-Kirkwood | Project #: | 5101.0002 | Page 1 of 1 |
| Monitoring Well: | MP-6D | Date: | 9/14/2022 | |
| Field Personnel: | CRM | Weather: | Cloudy 50-70s | |

### PRE-PURGE INFO:

| | | | |
|---|---|---|---|
| Well Depth (ft btoc): | 49.2 | Depth to Water (ft btoc): | 7.56 |
| PID Beneath PVC Cap (ppm) | NA | Screened/Open Interval (ft btoc): | 39 - 49 |
| Pump Used: | 1" bladder | Depth of Pump (ft btoc): | 44 |

### POST-PURGE INFO:

| | | | |
|---|---|---|---|
| Color: | Clear | $Mn/MnO_4$ (mg/L): | NA |
| Volume Purged (gal): | 1 | Sample ID: | MP-6D 091422 |
| Final Depth to Water (ft btoc): | 18.3 | Sample Time: | 12:00 |

### WELL PURGE DATA:

| **Time** 5 minute intervals | **Temperature (°C)** | **pH (units)** | **Conductivity (ms/cm)** | **REDOX (Eh-mV)** | **DO (mg/L)** | **Turbidity (NTU)** | **Depth to Water (ft)** | **Salinity (PPT)** | **Pumping Rate (ml/min)** | **Comment** |
|---|---|---|---|---|---|---|---|---|---|---|
| | Reading | Reading | Reading | Reading | Reading | Reading | Reading | | | |
| | 3% | 0.1 unit | 3% | 10 mV | 10% | 10% | 0.3 ft | | 100 - 500 | |
| 10:25 | 18.11 | 6.16 | 0.205 | 219.2 | 3.13 | 24.1 | 8.01 | 0.10 | 50 | Max that can be pumped |
| 10:30 | 17.03 | 6.57 | 0.183 | 301.9 | 1.89 | 28.1 | 8.04 | 0.09 | NA | |
| 10:35 | 16.82 | 6.66 | 0.202 | 292.8 | 1.60 | 32.1 | 8.06 | 0.10 | NA | |
| 10:40 | 16.58 | 6.70 | 0.269 | 287.2 | 1.44 | 29.5 | 8.09 | 0.13 | 50 | |
| 10:45 | 16.50 | 6.73 | 0.343 | 283.4 | 1.37 | 28.9 | 8.11 | 0.17 | NA | |
| 10:50 | 16.24 | 6.75 | 0.400 | 276.9 | 1.31 | 31.6 | 8.11 | 0.20 | NA | |
| 10:55 | 16.12 | 6.77 | 0.426 | 270.5 | 1.22 | 23.6 | 8.13 | 0.21 | 50 | |
| 11:00 | 16.11 | 6.80 | 0.443 | 266.1 | 1.22 | 23.3 | 8.13 | 0.21 | NA | |
| 11:05 | 16.06 | 6.81 | 0.449 | 263.0 | 1.21 | 19.3 | 8.14 | 0.22 | NA | |
| 11:10 | 16.11 | 6.81 | 0.456 | 257.1 | 1.25 | 14.6 | 8.14 | 0.22 | 50 | |
| 11:15 | 16.04 | 6.81 | 0.467 | 255.3 | 1.19 | 12.8 | 8.14 | 0.23 | NA | |
| 11:20 | 15.94 | 6.83 | 0.474 | 247.5 | 1.13 | 9.04 | 8.14 | 0.23 | 50 | |
| 11:25 | 15.86 | 6.83 | 0.479 | 247.1 | 1.09 | 6.21 | 8.14 | 0.23 | NA | |
| 11:30 | 15.89 | 6.84 | 0.481 | 241.7 | 1.07 | 6.96 | 8.15 | 0.23 | NA | |
| 11:35 | 15.92 | 6.84 | 0.481 | 232.0 | 1.08 | 5.99 | 8.15 | 0.23 | 50 | |
| 11:40 | 16.09 | 6.83 | 0.480 | 225.3 | 1.05 | 4.75 | 8.15 | 0.23 | NA | |
| 11:45 | 16.22 | 6.82 | 0.482 | 218.4 | 1.03 | 4.63 | 8.15 | 0.23 | NA | |
| 11:50 | 16.23 | 6.81 | 0.482 | 215.1 | 1.04 | 4.60 | 8.15 | 0.23 | NA | |
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## LOW FLOW GROUND WATER PURGE/SAMPLING LOG

***Former Dover Electronics Site, Kirkwood, NY (5101.0002)***

| | | | | |
|---|---|---|---|---|
| Project Name: | Dover-Kirkwood | Project #: | 5101.0002 | Page 1 of 1 |
| Monitoring Well: | MP-6S | Date: | 9/15/2022 | |
| Field Personnel: | MKS | Weather: | 70's Sunny | |

### PRE-PURGE INFO:

| | | | |
|---|---|---|---|
| Well Depth (ft btoc): | 24.98 | Depth to Water (ft btoc): | 12.2 |
| PID Beneath PVC Cap (ppm) | NA | Screened/Open Interval (ft btoc): | 14 - 24 |
| Pump Used: | .75" Bladder | Depth of Pump (ft btoc): | 19 |

### POST-PURGE INFO:

| | | | |
|---|---|---|---|
| Color: | Purple | $Mn/MnO_4$ (mg/L): | 2.5 |
| Volume Purged (gal): | 1 | Sample ID: | MP-6S 091522 |
| Final Depth to Water (ft btoc): | 12.9 | Sample Time: | 12:30 |

### WELL PURGE DATA:

| **Time** 5 minute intervals | **Temperature (°C)** | **pH (units)** | **Conductivity (ms/cm)** | **REDOX (Eh-mV)** | **DO (mg/L)** | **Turbidity (NTU)** | **Depth to Water (ft)** | **Salinity (PPT)** | **Pumping Rate (ml/min)** | **Comment** |
|---|---|---|---|---|---|---|---|---|---|---|
| | Reading | Reading | Reading | Reading | Reading | Reading | Reading | | | |
| | 3% | 0.1 unit | 3% | 10 mV | 10% | 10% | 0.3 ft | | 100 - 500 | |
| 11:20 | 17.57 | 6.22 | 1.567 | 675.4 | 2.09 | 508 | 12.73 | 0.80 | 50 | |
| 11:25 | 17.46 | 6.22 | 1.599 | 686.5 | 1.94 | 383 | 12.73 | 0.81 | NA | |
| 11:30 | 17.51 | 6.23 | 1.608 | 691.6 | 2.31 | 322 | 12.73 | 0.82 | NA | |
| 11:35 | 17.75 | 6.24 | 1.617 | 700.0 | 1.67 | 203 | 12.73 | 0.82 | 50 | |
| 11:40 | 17.73 | 6.24 | 1.632 | 705.4 | 1.75 | 148 | 12.73 | 0.83 | NA | |
| 11:45 | 17.80 | 6.22 | 1.645 | 709.8 | 2.11 | 100 | 12.83 | 0.83 | NA | |
| 11:50 | 17.56 | 6.20 | 1.650 | 713.1 | 2.05 | 79.8 | 12.84 | 0.84 | NA | |
| 11:55 | 17.49 | 6.20 | 1.654 | 716.1 | 1.84 | 55.4 | 12.87 | 0.84 | NA | |
| 12:00 | 17.55 | 6.22 | 1.651 | 717.4 | 1.76 | 43.8 | 12.87 | 0.84 | NA | |
| 12:05 | 17.75 | 6.23 | 1.652 | 717.9 | 1.89 | 35.1 | 12.87 | 0.84 | NA | |
| 12:10 | 17.81 | 6.20 | 1.649 | 718.7 | 1.99 | 28.9 | 12.88 | 0.84 | 50 | |
| 12:15 | 17.81 | 6.19 | 1.643 | 719.9 | 1.86 | 26.0 | 12.88 | 0.83 | NA | |
| 12:20 | 17.86 | 6.17 | 1.638 | 720.2 | 1.95 | 25.6 | 12.88 | 0.83 | NA | |
| 12:25 | 17.71 | 6.19 | 1.633 | 727.5 | 1.90 | 25.3 | 12.90 | 0.83 | 50 | |
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## LOW FLOW GROUND WATER PURGE/SAMPLING LOG

***Former Dover Electronics Site, Kirkwood, NY (5101.0002)***

| | | | | |
|---|---|---|---|---|
| Project Name: | Dover-Kirkwood | Project #: | 5101.0002 | Page 1 of 1 |
| Monitoring Well: | MP-8D | Date: | 9/15/2022 | |
| Field Personnel: | CRM | Weather: | 70s Sunny | |

### PRE-PURGE INFO:

| | | | |
|---|---|---|---|
| Well Depth (ft btoc): | 53.7 | Depth to Water (ft btoc): | 13.16 |
| PID Beneath PVC Cap (ppm) | NA | Screened/Open Interval (ft btoc): | 44 - 54 |
| Pump Used: | .75" Bladder | Depth of Pump (ft btoc): | 49 |

### POST-PURGE INFO:

| | | | |
|---|---|---|---|
| Color: | Tan | $Mn/MnO_4$ (mg/L): | NA |
| Volume Purged (gal): | 10 | Sample ID: | MP-8D 091522 |
| Final Depth to Water (ft btoc): | 13.28 | Sample Time: | 17:35 |

### WELL PURGE DATA:

| **Time** 5 minute intervals | **Temperature (°C)** | **pH (units)** | **Conductivity (ms/cm)** | **REDOX (Eh-mV)** | **DO (mg/L)** | **Turbidity (NTU)** | **Depth to Water (ft)** | **Salinity (PPT)** | **Pumping Rate (ml/min)** | **Comment** |
|---|---|---|---|---|---|---|---|---|---|---|
| | Reading | Reading | Reading | Reading | Reading | Reading | Reading | | | |
| | 3% | 0.1 unit | 3% | 10 mV | 10% | 10% | 0.3 ft | | 100 - 500 | |
| 16:50 | 19.77 | 7.41 | 0.506 | 302.2 | 2.40 | 133 | 13.29 | 0.25 | 50 | |
| 16:55 | 18.76 | 7.36 | 0.467 | 291.4 | 1.27 | 112 | 13.26 | 0.22 | 50 | |
| 17:00 | 18.30 | 7.38 | 0.456 | 277.9 | 1.01 | 113 | 13.22 | 0.22 | 50 | |
| 17:05 | 17.88 | 7.40 | 0.446 | 256.7 | 0.77 | 117 | 13.26 | 0.21 | 50 | |
| 17:10 | 17.66 | 7.41 | 0.440 | 239.5 | 0.66 | 87.1 | 13.26 | 0.21 | 50 | |
| 17:15 | 17.53 | 7.40 | 0.433 | 230.8 | 0.63 | 43.9 | 13.28 | 0.21 | 50 | |
| 17:20 | 17.49 | 7.38 | 0.421 | 228.3 | 0.54 | 44.3 | 13.28 | 0.20 | 50 | |
| 17:25 | 17.48 | 7.37 | 0.409 | 224.1 | 0.59 | 40.7 | 13.28 | 0.20 | 50 | |
| 17:30 | 17.50 | 7.37 | 0.408 | 222.3 | 0.57 | 40.3 | 13.28 | 0.19 | 50 | |
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## LOW FLOW GROUND WATER PURGE/SAMPLING LOG

***Former Dover Electronics Site, Kirkwood, NY (5101.0002)***

| | | | | |
|---|---|---|---|---|
| Project Name: | Dover-Kirkwood | Project #: | 5101.0002 | Page 1 of 1 |
| Monitoring Well: | MP-11 | Date: | 09//13/22 | |
| Field Personnel: | | Weather: | | |

### PRE-PURGE INFO:

| | | | |
|---|---|---|---|
| Well Depth (ft btoc): | 28.3 | Depth to Water (ft btoc): | 10.4 |
| PID Beneath PVC Cap (ppm) | NA | Screened/Open Interval (ft btoc): | 20 - 30 |
| Pump Used: | 2" Bladder | Depth of Pump (ft btoc): | 25 |

### POST-PURGE INFO:

| | | | |
|---|---|---|---|
| Color: | Purple | $Mn/MnO_4$ (mg/L): | 60 |
| Volume Purged (gal): | 1 | Sample ID: | MP-11 091322 |
| Final Depth to Water (ft btoc): | 12.2 | Sample Time: | 17:45 |

### WELL PURGE DATA:

| **Time** 5 minute intervals | **Temperature (°C)** | **pH (units)** | **Conductivity (ms/cm)** | **REDOX (Eh-mV)** | **DO (mg/L)** | **Turbidity (NTU)** | **Depth to Water (ft)** | **Salinity (PPT)** | **Pumping Rate (ml/min)** | **Comment** |
|---|---|---|---|---|---|---|---|---|---|---|
| | Reading | Reading | Reading | Reading | Reading | Reading | Reading | | | |
| | 3% | 0.1 unit | 3% | 10 mV | 10% | 10% | 0.3 ft | | 100 - 500 | |
| 16:40 | 17.91 | 7.05 | 0.452 | 587.8 | 13.31 | 96.2 | 10.4 | 0.37 | 160 | |
| 16:45 | 17.52 | 7.04 | 1.222 | 642.8 | 9.72 | 140 | 10.4 | 0.38 | 160 | |
| 16:50 | 17.64 | 7.13 | 1.619 | 652.6 | 13.02 | 127 | 10.4 | 0.42 | 160 | |
| 16:55 | 17.56 | 7.32 | 2.025 | 654.6 | 13.05 | 102 | 10.4 | 0.45 | 160 | |
| 17:00 | 17.61 | 7.40 | 2.147 | 656.8 | 13.65 | 85.8 | 10.4 | 0.48 | 160 | |
| 17:05 | 17.46 | 7.45 | 2.227 | 657.6 | 13.60 | 88.4 | 10.4 | 0.49 | 160 | |
| 17:10 | 17.05 | 7.43 | 2.256 | 663.2 | 13.09 | 102 | 10.9 | 0.49 | 160 | |
| 17:15 | 17.11 | 7.45 | 2.257 | 663.1 | 13.98 | 115 | 11.3 | 0.49 | 160 | |
| 17:20 | 17.06 | 7.47 | 2.255 | 664.2 | 13.60 | 108 | 11.7 | 0.49 | 140 | |
| 17:25 | 16.95 | 7.50 | 2.253 | 664.5 | 13.10 | 99.7 | 12.2 | 0.49 | 140 | |
| 17:30 | 16.89 | 7.50 | 2.252 | 665.1 | 12.70 | 89.4 | 12.2 | 0.49 | 140 | |
| 17:35 | 16.83 | 7.50 | 2.250 | 665.7 | 12.45 | 85.2 | 12.2 | 0.49 | 140 | |
| 17:40 | 17.79 | 7.52 | 2.251 | 665.7 | 12.38 | 80.9 | 12.2 | 0.49 | 140 | |
| 17:45 | 16.75 | 7.53 | 2.251 | 666.2 | 12.84 | 80.2 | 12.2 | 0.49 | 140 | |
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## LOW FLOW GROUND WATER PURGE/SAMPLING LOG

***Former Dover Electronics Site, Kirkwood, NY (5101.0002)***

| | | | | |
|---|---|---|---|---|
| Project Name: | Dover-Kirkwood | Project #: | 5101.0002 | Page 1 of 1 |
| Monitoring Well: | MP-12 | Date: | 9/13/2022 | |
| Field Personnel: | CRM | Weather: | 69 Mostly sunny | |

### PRE-PURGE INFO:

| | | | |
|---|---|---|---|
| Well Depth (ft btoc): | 21.59 | Depth to Water (ft btoc): | 12.69 |
| PID Beneath PVC Cap (ppm) | NA | Screened/Open Interval (ft btoc): | 15 - 25 |
| Pump Used: | QED Micropulse Pump | Depth of Pump (ft btoc): | 20 |

### POST-PURGE INFO:

| | | | |
|---|---|---|---|
| Color: | Deep purple | $Mn/MnO_4$ (mg/L): | 64 |
| Volume Purged (gal): | 4 | Sample ID: | MP-12 091322 |
| Final Depth to Water (ft btoc): | 13.2 | Sample Time: | 16:55 |

### WELL PURGE DATA:

| **Time** 5 minute intervals | **Temperature (°C)** | **pH (units)** | **Conductivity (ms/cm)** | **REDOX (Eh-mV)** | **DO (mg/L)** | **Turbidity (NTU)** | **Depth to Water (ft)** | **Salinity (PPT)** | **Pumping Rate (ml/min)** | **Comment** |
|---|---|---|---|---|---|---|---|---|---|---|
| | Reading | Reading | Reading | Reading | Reading | Reading | Reading | | | |
| | 3% | 0.1 unit | 3% | 10 mV | 10% | 10% | 0.3 ft | | 100 - 500 | |
| 15:40 | 17.07 | 7.00 | 24.13 | 700.2 | 23.22 | 381 | 13.31 | 14.10 | 150 | |
| 15:45 | 16.64 | 7.10 | 17.29 | 714.0 | 19.07 | 278 | 13.30 | 10.01 | 150 | |
| 15:50 | 16.81 | 7.22 | 15.02 | 715.3 | 14.61 | 231 | 13.26 | 8.71 | 150 | |
| 15:55 | 16.78 | 6.64 | 14.23 | 711.3 | 14.44 | 188 | 13.24 | 8.14 | 150 | |
| 16:00 | 16.51 | 6.97 | 13.55 | 709.9 | 14.20 | 162 | 13.21 | 7.83 | 150 | |
| 16:05 | 16.34 | 1.93 | 12.96 | 687.3 | 16.01 | 131 | 13.17 | 7.48 | 150 | |
| 16:10 | 16.27 | 2.81 | 12.83 | 686.5 | 15.39 | 116 | 13.13 | 7.38 | 125 | |
| 16:15 | 16.11 | 6.16 | 12.57 | 692.8 | 14.57 | 104 | 13.18 | 7.20 | 125 | |
| 16:20 | 16.03 | 6.96 | 12.16 | 695.4 | 14.08 | 89.6 | 13.18 | 6.97 | 125 | |
| 16:25 | 16.02 | 6.89 | 11.77 | 696.2 | 14.95 | 80.1 | 13.22 | 6.74 | 125 | |
| 16:30 | 15.95 | 6.88 | 11.52 | 681.6 | 15.39 | 61.6 | 13.21 | 6.57 | 125 | |
| 16:35 | 15.86 | 6.88 | 11.24 | 672.9 | 16.18 | 56.4 | 13.22 | 6.40 | 125 | |
| 16:40 | 16.81 | 6.77 | 10.99 | 674.9 | 15.67 | 54.7 | 13.20 | 6.23 | 150 | |
| 16:45 | 15.75 | 6.76 | 10.68 | 676.2 | 15.65 | 50.0 | 13.21 | 6.05 | 150 | |
| 16:50 | 15.71 | 6.77 | 10.99 | 676.7 | 15.51 | 49.9 | 13.21 | 5.91 | 150 | |
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## LOW FLOW GROUND WATER PURGE/SAMPLING LOG

***Former Dover Electronics Site, Kirkwood, NY (5101.0002)***

| | | | | |
|---|---|---|---|---|
| Project Name: | Dover-Kirkwood | Project #: | 5101.0002 | Page 1 of 1 |
| Monitoring Well: | MP-13 | Date: | 9/15/2022 | |
| Field Personnel: | MKS | Weather: | 70s Sunny | |

### PRE-PURGE INFO:

| | | | |
|---|---|---|---|
| Well Depth (ft btoc): | 24.4 | Depth to Water (ft btoc): | 9.05 |
| PID Beneath PVC Cap (ppm) | NA | Screened/Open Interval (ft btoc): | 15 - 25 |
| Pump Used: | 2" bladder | Depth of Pump (ft btoc): | 20 |

### POST-PURGE INFO:

| | | | |
|---|---|---|---|
| Color: | Clear | $Mn/MnO_4$ (mg/L): | NA |
| Volume Purged (gal): | 1 | Sample ID: | MP-13 091521 |
| Final Depth to Water (ft btoc): | 13.32 | Sample Time: | 10:10 |

### WELL PURGE DATA:

| **Time** 5 minute intervals | **Temperature (°C)** | **pH (units)** | **Conductivity (ms/cm)** | **REDOX (Eh-mV)** | **DO (mg/L)** | **Turbidity (NTU)** | **Depth to Water (ft)** | **Salinity (PPT)** | **Pumping Rate (ml/min)** | **Comment** |
|---|---|---|---|---|---|---|---|---|---|---|
| | Reading | Reading | Reading | Reading | Reading | Reading | Reading | | | |
| | 3% | 0.1 unit | 3% | 10 mV | 10% | 10% | 0.3 ft | | 100 - 500 | |
| 9:30 | 17.81 | 8.37 | 3.320 | 197.7 | 5.85 | 27.4 | 9.05 | 0.81 | 150 | |
| 9:35 | 17.61 | 8.23 | 3.010 | 177.4 | 5.32 | 23.7 | 10.31 | 0.81 | 150 | |
| 9:40 | 17.62 | 8.03 | 2.350 | 163.8 | 4.73 | 22.9 | 11.57 | 0.82 | 150 | |
| 9:45 | 17.87 | 7.87 | 2.120 | 132.3 | 4.42 | 22.3 | 12.21 | 0.82 | 150 | |
| 9:50 | 18.01 | 7.39 | 1.830 | 128.3 | 3.75 | 19.7 | 12.30 | 0.82 | 150 | |
| 9:55 | 18.11 | 7.10 | 1.635 | 112.7 | 3.13 | 16.1 | 12.32 | 0.83 | 150 | |
| 10:00 | 18.00 | 7.12 | 1.632 | 107.2 | 2.02 | 11.1 | NA | 0.83 | NA | |
| 10:05 | 18.14 | 7.20 | 1.611 | 104.3 | 2.19 | 10.7 | NA | 0.83 | NA | |
| 10:10 | 18.37 | 7.21 | 1.628 | 101.8 | 2.23 | 10.2 | NA | 0.83 | NA | |
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## LOW FLOW GROUND WATER PURGE/SAMPLING LOG

***Former Dover Electronics Site, Kirkwood, NY (5101.0002)***

| | | | | |
|---|---|---|---|---|
| Project Name: | Dover-Kirkwood | Project #: | 5101.0002 | Page 1 of 1 |
| Monitoring Well: | MP-14 | Date: | 9/15/2022 | |
| Field Personnel: | MKS | Weather: | 60's, sunny | |

### PRE-PURGE INFO:

| | | | |
|---|---|---|---|
| Well Depth (ft btoc): | 723 | Depth to Water (ft btoc): | 8.53 |
| PID Beneath PVC Cap (ppm) | NA | Screened/Open Interval (ft btoc): | 15 - 25 |
| Pump Used: | 2" bladder | Depth of Pump (ft btoc): | 20 |

### POST-PURGE INFO:

| | | | |
|---|---|---|---|
| Color: | Purple | $Mn/MnO_4$ (mg/L): | 14 |
| Volume Purged (gal): | 2 | Sample ID: | MP-14 091522 |
| Final Depth to Water (ft btoc): | 8.94 | Sample Time: | 18:00 |

### WELL PURGE DATA:

| **Time** 5 minute intervals | **Temperature (°C)** | **pH (units)** | **Conductivity (ms/cm)** | **REDOX (Eh-mV)** | **DO (mg/L)** | **Turbidity (NTU)** | **Depth to Water (ft)** | **Salinity (PPT)** | **Pumping Rate (ml/min)** | **Comment** |
|---|---|---|---|---|---|---|---|---|---|---|
| | Reading | Reading | Reading | Reading | Reading | Reading | Reading | | | |
| | 3% | 0.1 unit | 3% | 10 mV | 10% | 10% | 0.3 ft | | 100 - 500 | |
| 17:10 | 18.37 | 8.01 | 1.637 | 607.1 | 8.61 | 821 | 8.53 | 0.89 | 150 | |
| 17:15 | 18.25 | 7.83 | 1.621 | 631.7 | 8.97 | 681 | 8.82 | 0.89 | 150 | |
| 17:20 | 18.07 | 7.61 | 1.675 | 687.2 | 8.01 | 531 | 8.93 | 0.89 | 150 | |
| 17:25 | 17.93 | 7.21 | 1.631 | 727.1 | 7.99 | 427 | 8.94 | 0.89 | 150 | |
| 17:30 | 17.95 | 6.53 | 1.767 | 732.1 | 7.32 | 391 | NA | 0.90 | 150 | |
| 17:35 | 17.82 | 6.32 | 1.713 | 738.1 | 6.57 | 358 | NA | 0.90 | 150 | |
| 17:40 | 17.94 | 6.24 | 1.720 | 747.9 | 6.08 | 337 | NA | 0.90 | 150 | |
| 17:45 | 17.73 | 6.25 | 1.835 | 754.3 | 5.39 | 324 | NA | 0.94 | 150 | |
| 17:50 | 17.67 | 6.25 | 1.862 | 758.0 | 5.86 | 313 | NA | 0.95 | 150 | |
| 17:55 | 17.66 | 6.35 | 1.877 | 754.5 | 5.71 | 309 | NA | 0.95 | 150 | |
| 18:00 | 17.63 | 6.25 | 1.878 | 76.1 | 5.69 | 301 | NA | 0.95 | 150 | |
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# Appendix D

September 29, 2022 Service Request No:R2208794

Ms. Sarah MacCarter
Verina Consulting Group, LLC
1011 US Highway 22, Suite 302
Bridgewater, NJ 08807

**Laboratory Results for: Dover - Kirkwood**

Dear Ms.MacCarter,

Enclosed are the results of the sample(s) submitted to our laboratory September 15, 2022
For your reference, these analyses have been assigned our service request number **R2208794.**

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 7472. You may also contact me via email at Janice.Jaeger@alsglobal.com.

Respectfully submitted,

**ALS Group USA, Corp. dba ALS Environmental**

Janice Jaeger
Project Manager

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dba ALS Environmental

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# Narrative Documents

**ALS Environmental—Rochester Laboratory**
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

**Client:** Verina Consulting Group, LLC
**Project:** Dover - Kirkwood
**Sample Matrix:** Water

**Service Request:** R2208794
**Date Received:** 09/15/2022

## CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier level IV requested by the client.

**Sample Receipt:**

Sixteen water samples were received for analysis at ALS Environmental on 09/15/2022. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

**Volatiles by GC/MS:**

Method 8260C, R2208794-003,004,010: Sample(s) required dilution due to a viscous dark matrix. The reporting limits are adjusted to reflect the dilution.

Approved by _____ Date 09/29/2022

# Sample Receipt Information

**ALS Environmental—Rochester Laboratory**
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

**Client:** Verina Consulting Group, LLC **Service Request:**R2208794
**Project:** Dover - Kirkwood/5101.0002

## SAMPLE CROSS-REFERENCE

| SAMPLE # | CLIENT SAMPLE ID | DATE | TIME |
|---|---|---|---|
| R2208794-002 | MW7A-091322 | 9/13/2022 | 1725 |
| R2208794-003 | MP-12-091322 | 9/13/2022 | 1655 |
| R2208794-004 | MP-11-091322 | 9/13/2022 | 1745 |
| R2208794-005 | MW-35-091422 | 9/14/2022 | 1110 |
| R2208794-006 | MW-32-091422 | 9/14/2022 | 1120 |
| R2208794-007 | MP-6D-091422 | 9/14/2022 | 1200 |
| R2208794-008 | MW39-091422 | 9/14/2022 | 1300 |
| R2208794-009 | MW31-091422 | 9/14/2022 | 1330 |
| R2208794-010 | MP5R-091422 | 9/14/2022 | 1440 |
| R2208794-011 | MW28-091422 | 9/14/2022 | 1540 |
| R2208794-012 | MW19-091422 | 9/14/2022 | 1545 |
| R2208794-013 | MW27-091422 | 9/14/2022 | 1725 |
| R2208794-014 | MW26-091422 | 9/14/2022 | 1745 |
| R2208794-015 | MP3D-091422 | 9/14/2022 | 1750 |
| R2208794-016 | FB-091422 | 9/14/2022 | 1750 |
| R2208794-017 | TB-091422 | 9/13/2022 | 1045 |

# CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

065386

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE 1 OF 2

| | |
|---|---|
| Project Name: Dover Kirkwood | Project Number: 5101.0002 |
| Project Manager: Sarah Maccarter | Report CC: |
| Company/Address: Verina Consulting, 1011 US 22, Bridgewater NJ, 08807 | |
| Phone #: 908 864 4400 | Email: SMaccarter@Vcg-llc.com |
| Sampler's Signature: Mike Simone | Sampler's Printed Name: Mike Simone |

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

PRESERVATIVE: 0 1

NUMBER OF CONTAINERS

| CLIENT SAMPLE ID | FOR OFFICE USE ONLY LAB ID | SAMPLING DATE | SAMPLING TIME | MATRIX | GC/MS VOAs • 8260 • 624 • CLP | GC/MS SVOAs • 8270 • 625 | GC VOAs • 8021 • 601/602 | PESTICIDES • 8081 • 608 | PCBs • 8082 • 608 | METALS, TOTAL (List in comments below) | METALS, DISSOLVED (List in comments below) | SSPL VOC | SSPL VOC | REMARKS/ ALTERNATE DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TB - 091422 | 1 | 9/8/22 | 1045 | GW | | | | | | | | | X | |
| MW7A - 091322 | 2 | 9/13/22 | 1725 | | | | | | | | | X | | |
| MP-12-091322 | 3 | 9/13/22 | 1655 | | | | | | | | | X | | |
| MP11 - 91322 | 4 | 9/13/22 | 1745 | | | | | | | | | X | | |
| MW-35-091422 | 5 | 9/14/22 | 1110 | | | | | | | | | | X | |
| MW32 - 091422 | 6 | 9/14/22 | 1120 | | | | | | | | | | X | |
| MW6D - 091422 | 7 | 9/14/22 | 1200 | | | | | | | | | ✓ | X | |
| MW39 - 091422 | 8 | 9/14/22 | 1300 | | | | | | | | | | X | |
| MW31 - 091422 | 9 | 9/14/22 | 1330 | | | | | | | | | | X | |
| MP5R - 091422 | 10 | 9/14/22 | 1440 | | | | | | | | | X | | |
| MW29 - 091422 | 11 | 9/14/22 | 1540 | | | | | | | | | | X | |

Preservative Key
0. NONE
1. HCl
2. $HNO_3$
3. $H_2SO_4$
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

SPECIAL INSTRUCTIONS/COMMENTS
Metals SSPL VOC = PCE, TCE, cis-1,2-DCE, trans-1,2 DCE 1,1-DCE, 1,1-DCA, 1,1,1-TCA, VC

See QAPP ☐

STATE WHERE SAMPLES WERE COLLECTED

**TURNAROUND REQUIREMENTS**
___ RUSH (SURCHARGES APPLY)
___ 1 day ___ 2 day ___ 3 day
___ 4 day ___ 5 day
✓ Standard (10 business days-No Surcharge)
REQUESTED REPORT DATE

**REPORT REQUIREMENTS**
___ I. Results Only
✓ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
___ III. Results + QC and Calibration Summaries
___ IV. Data Validation Report with Raw Data
Edata ___ Yes ___ No

**INVOICE INFORMATION**
PO # 5101.0002
BILL TO:

| RELINQUISHED BY | RECEIVED BY | RELINQUISHED BY | RECEIVED BY | RELINQUISHED BY | RECEIVED BY |
|---|---|---|---|---|---|
| Signature: | Signature: Azalia Lugo | Signature | Signature | Signature | |
| Printed Name: Mike Simone | Printed Name: Azalia Lugo | Printed Name | Printed Name | Printed Name | |
| Firm: Verina | Firm: ALS | Firm | Firm | Firm | |
| Date/Time: 9/14 6:35 | Date/Time: 09/16/220815 | Date/Time | Date/Time | Date/Time | |

R2208794 5
Verina Consulting Group, LLC
Dover - Kirkwood

Distribution: White - Lab Copy; Yellow - Return to Originator



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# CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

065385

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE 2 OF 2

| | |
|---|---|
| Project Name: Dover Kirkwood | Project Number: 5101.0002 |
| Project Manager: Sarah Macarter | Report CC: |
| Company/Address: Verina Consulting<br>1011 US 22, Bridgewater NJ 08807 | |
| Phone #: 908 864 4460 | Email: smaccarter@vcg-llc |
| Sampler's Signature: | Sampler's Printed Name: Mike Simonsen |

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

PRESERVATIVE: 1

| CLIENT SAMPLE ID | FOR OFFICE USE ONLY LAB ID | SAMPLING DATE | SAMPLING TIME | MATRIX | NUMBER OF CONTAINERS | SSPL VOC |
|---|---|---|---|---|---|---|
| MW 19-091422 | 12 | 9/14/22 | 1545 | GW | | X |
| MW27-091422 | 13 | 9/14/22 | 1725 | | | X |
| MW26-091422 | 14 | 9/14/22 | 1745 | | | X |
| MP3D-091422 | 15 | 9/14/22 | 1750 | | | X |
| FB-091422 | 16 | 9/14/22 | 1750 | | | X |

Preservative Key
0. NONE
1. HCL
2. $HNO_3$
3. $H_2SO_4$
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

REMARKS/ ALTERNATE DESCRIPTION

SPECIAL INSTRUCTIONS/COMMENTS
Metals SSPL VOCs = PCE, TCE, cis, 1,2-DCE, trans-1,2-DCE, 1,1-DCA, 1,1,1-TCA, VC

See QAPP ☐

STATE WHERE SAMPLES WERE COLLECTED

**TURNAROUND REQUIREMENTS**
____ RUSH (SURCHARGES APPLY)
____ 1 day ____ 2 day ____ 3 day
____ 4 day ____ 5 day
✓ Standard (10 business days-No Surcharge)

REQUESTED REPORT DATE

**REPORT REQUIREMENTS**
____ I. Results Only
✓ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
____ III. Results + QC and Calibration Summaries
____ IV. Data Validation Report with Raw Data

Edata ____Yes ____No

**INVOICE INFORMATION**
PO # 5101.0002
BILL TO:

| RELINQUISHED BY | RECEIVED BY | RELINQUISHED BY | RECEIVED BY | RELINQUISHED BY | RECEIVED BY |
|---|---|---|---|---|---|
| Signature | Signature: Azalia Trigo | Signature | Signature | Signature | Signature |
| Printed Name: Mike Simonsen | Printed Name: Azalia Trigo | Printed Name | Printed Name | Printed Name | Printed Name |
| Firm: Verina | Firm: ALS | Firm | Firm | Firm | Firm |
| Date/Time: 9/14 6:35 | Date/Time: 09/15/22 0815 | Date/Time | Date/Time | Date/Time | Date/Time |

R2208794 5
Verina Consulting Group, LLC
Dover - Kirkwood

Distribution: White - Lab Copy; Yellow - Return to Originator



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# Cooler Receipt and Preservat

R2208794 5
Verina Consulting Group, LLC
Dover - Kirkwood

Project/Client _____ Folder Number _____

Cooler received on 09/16/22 by: AL

**COURIER:** ALS UPS (FEDEX) VELOCITY CLIENT

| | | | | | |
|---|---|---|---|---|---|
| 1 | Were **Custody seals** on outside of cooler? | (Y) N | 5a | **Perchlorate** samples have required headspace? | Y N (NA) |
| 2 | **Custody papers** properly completed (ink, signed)? | (Y) N | 5b | Did VOA vials, Alk, or Sulfide have sig* **bubbles**? | Y (N) NA |
| 3 | Did all bottles arrive in good **condition** (unbroken)? | (Y) N | 6 | Where did the bottles originate? | ALS/ROC CLIENT |
| 4 | Circle: **Wet Ice Dry Ice Gel packs** present? | (Y) N | 7 | Soil VOA received as: Bulk Encore 5035set (NA) | |

8. Temperature Readings Date 09/16/22 Time: 0820 ID: IR#7 (IR#11) From: (Temp Blank) Sample Bottle

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Observed Temp (°C) | 6.9 | | | | | | |
| Within 0-6°C? | Y (N) | Y N | Y N | Y N | Y N | Y N | Y N |
| If <0°C, were samples frozen? | Y N | Y N | Y N | Y N | Y N | Y N | Y N |

**If out of Temperature, note packing/ice condition:** _____ Ice melted Poorly Packed (described below) Same Day Rule

**&Client Approval to Run Samples:** _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: R-002 by AL on 09/16/22 at 0821
5035 samples placed in storage location: _____ by _____ on _____ at _____ within 48 hours of sampling? Y N

Cooler Breakdown/Preservation Check**: Date: 09/16/22 Time: 0959 by: AL

9. Were all bottle labels complete (*i.e.* analysis, preservation, etc.)? (YES) NO
10. Did all bottle labels and tags agree with custody papers? YES (NO)*
11. Were correct containers used for the tests indicated? (YES) NO
12. Were 5035 vials acceptable (no extra labels, not leaking)? YES NO (N/A)
13. Air Samples: Cassettes / Tubes Intact Y / N with MS Y / N Canisters Pressurized Tedlar® Bags Inflated (N/A)

| pH | Lot of test paper | Reagent | Preserved? Yes | Preserved? No | Lot Received | Exp | Sample ID Adjusted | Vol. Added | Lot Added | Final pH |
|---|---|---|---|---|---|---|---|---|---|---|
| ≥12 | | NaOH | | | | | | | | |
| ≤2 | | $HNO_3$ | | | | | | | | |
| ≤2 | | $H_2SO_4$ | | | | | | | | |
| <4 | | $NaHSO_4$ | | | | | | | | |
| 5-9 | | For 608pest | | | No=Notify for 3day | | | | | |
| Residual Chlorine (-) | | For CN, Phenol, 625, 608pest, 522 | | | If +, contact PM to add $Na_2S_2O_3$ (625, 608, CN), ascorbic (phenol). | | | | | |
| | | $Na_2S_2O_3$ | | | | | | | | |
| | | ZnAcetate | - | - | | | | | | |
| | | HCl | ** | ** | | | | | | |

**VOAs and 1664 Not to be tested before analysis. Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).

Bottle lot numbers: 06 2022-3AXH

Explain all Discrepancies/ Other Comments:

*Sample MW26-091422 labeled as MW19-091422
HCl 8260 LOT ce1321 02/02/2025

| | |
|---|---|
| HPROD | BULK |
| HTR | FLDT |
| SUB | HGFB |
| ALS | LL3541 |

Labels secondary reviewed by: AL
PC Secondary Review: _____ 9/23 *significant air bubbles: VOA > 5-6 mm : WC >1 in. diameter

P:\INTRANET\QAQC\Forms Controlled\Cooler Receipt r19.doc 03/02/2021

**Client:** Verina Consulting Group, LLC **Service Request:** R2208794
**Project:** Dover - Kirkwood/5101.0002

| Bottle ID | Methods | Date | Time | Sample Location / User | Disposed On |
|---|---|---|---|---|---|
| **R2208794-002.01** | | | | | |
| | 8260C | | | | |
| | | 9/16/2022 | 0958 | SMO / ALUGO | |
| | | 9/16/2022 | 1000 | R-001 / ALUGO | |
| | | 9/17/2022 | 1141 | In Lab / FNAEGLER | |
| | | 9/17/2022 | 1145 | R-001-S10 / FNAEGLER | |
| **R2208794-002.02** | | | | | |
| | | 9/16/2022 | 0958 | SMO / ALUGO | |
| | | 9/16/2022 | 1000 | R-001 / ALUGO | |
| **R2208794-002.03** | | | | | |
| | | 9/16/2022 | 0958 | SMO / ALUGO | |
| | | 9/16/2022 | 1000 | R-001 / ALUGO | |
| **R2208794-003.01** | | | | | |
| | 8260C | | | | |
| | | 9/16/2022 | 0958 | SMO / ALUGO | |
| | | 9/16/2022 | 1000 | R-001 / ALUGO | |
| | | 9/17/2022 | 1141 | In Lab / FNAEGLER | |
| | | 9/17/2022 | 1145 | R-001-S10 / FNAEGLER | |
| **R2208794-003.02** | | | | | |
| | | 9/16/2022 | 0958 | SMO / ALUGO | |
| | | 9/16/2022 | 1000 | R-001 / ALUGO | |
| **R2208794-003.03** | | | | | |
| | | 9/16/2022 | 0958 | SMO / ALUGO | |
| | | 9/16/2022 | 1000 | R-001 / ALUGO | |
| **R2208794-004.01** | | | | | |
| | 8260C | | | | |
| | | 9/16/2022 | 0958 | SMO / ALUGO | |
| | | 9/16/2022 | 1000 | R-001 / ALUGO | |
| | | 9/17/2022 | 1141 | In Lab / FNAEGLER | |
| | | 9/17/2022 | 1145 | R-001-S10 / FNAEGLER | |
| **R2208794-004.02** | | | | | |
| | | 9/16/2022 | 0958 | SMO / ALUGO | |
| | | 9/16/2022 | 1000 | R-001 / ALUGO | |
| **R2208794-004.03** | | | | | |
| | | 9/16/2022 | 0958 | SMO / ALUGO | |

**Client:** Verina Consulting Group, LLC **Service Request:** R2208794
**Project:** Dover - Kirkwood/5101.0002

| Bottle ID | Methods | Date | Time | Sample Location / User | Disposed On |
|---|---|---|---|---|---|
| | | 9/16/2022 | 1000 | R-001 / ALUGO | |
| **R2208794-005.01** | | | | | |
| | 8260C | | | | |
| | | 9/16/2022 | 0958 | SMO / ALUGO | |
| | | 9/16/2022 | 1000 | R-001 / ALUGO | |
| | | 9/25/2022 | 1129 | In Lab / KRUEST | |
| | | 9/25/2022 | 1136 | R-001-S10 / KRUEST | |
| **R2208794-005.02** | | | | | |
| | | 9/16/2022 | 0958 | SMO / ALUGO | |
| | | 9/16/2022 | 1000 | R-001 / ALUGO | |
| **R2208794-005.03** | | | | | |
| | | 9/16/2022 | 0958 | SMO / ALUGO | |
| | | 9/16/2022 | 1000 | R-001 / ALUGO | |
| **R2208794-006.01** | | | | | |
| | 8260C | | | | |
| | | 9/16/2022 | 0958 | SMO / ALUGO | |
| | | 9/16/2022 | 1000 | R-001 / ALUGO | |
| | | 9/25/2022 | 1129 | In Lab / KRUEST | |
| | | 9/25/2022 | 1136 | R-001-S10 / KRUEST | |
| **R2208794-006.02** | | | | | |
| | | 9/16/2022 | 0958 | SMO / ALUGO | |
| | | 9/16/2022 | 1000 | R-001 / ALUGO | |
| **R2208794-006.03** | | | | | |
| | | 9/16/2022 | 0958 | SMO / ALUGO | |
| | | 9/16/2022 | 1000 | R-001 / ALUGO | |
| **R2208794-007.01** | | | | | |
| | 8260C | | | | |
| | | 9/16/2022 | 0958 | SMO / ALUGO | |
| | | 9/16/2022 | 1000 | R-001 / ALUGO | |
| | | 9/25/2022 | 1129 | In Lab / KRUEST | |
| | | 9/25/2022 | 1136 | R-001-S10 / KRUEST | |
| **R2208794-007.02** | | | | | |
| | | 9/16/2022 | 0958 | SMO / ALUGO | |
| | | 9/16/2022 | 1000 | R-001 / ALUGO | |

**Client:** Verina Consulting Group, LLC **Service Request:** R2208794
**Project:** Dover - Kirkwood/5101.0002

| Bottle ID | Methods | Date | Time | Sample Location / User | Disposed On |
|---|---|---|---|---|---|
| **R2208794-007.03** | | | | | |
| | | 9/16/2022 | 0958 | SMO / ALUGO | |
| | | 9/16/2022 | 1000 | R-001 / ALUGO | |
| **R2208794-008.01** | | | | | |
| | 8260C | | | | |
| | | 9/16/2022 | 0958 | SMO / ALUGO | |
| | | 9/16/2022 | 1000 | R-001 / ALUGO | |
| | | 9/25/2022 | 1129 | In Lab / KRUEST | |
| | | 9/25/2022 | 1136 | R-001-S10 / KRUEST | |
| **R2208794-008.02** | | | | | |
| | | 9/16/2022 | 0958 | SMO / ALUGO | |
| | | 9/16/2022 | 1000 | R-001 / ALUGO | |
| **R2208794-008.03** | | | | | |
| | | 9/16/2022 | 0958 | SMO / ALUGO | |
| | | 9/16/2022 | 1000 | R-001 / ALUGO | |
| **R2208794-009.01** | | | | | |
| | 8260C | | | | |
| | | 9/16/2022 | 0958 | SMO / ALUGO | |
| | | 9/16/2022 | 1000 | R-001 / ALUGO | |
| | | 9/25/2022 | 1129 | In Lab / KRUEST | |
| | | 9/25/2022 | 1136 | R-001-S10 / KRUEST | |
| **R2208794-009.02** | | | | | |
| | | 9/16/2022 | 0958 | SMO / ALUGO | |
| | | 9/16/2022 | 1000 | R-001 / ALUGO | |
| **R2208794-009.03** | | | | | |
| | | 9/16/2022 | 0958 | SMO / ALUGO | |
| | | 9/16/2022 | 1000 | R-001 / ALUGO | |
| **R2208794-010.01** | | | | | |
| | 8260C | | | | |
| | | 9/16/2022 | 0958 | SMO / ALUGO | |
| | | 9/16/2022 | 1000 | R-001 / ALUGO | |
| | | 9/17/2022 | 1142 | In Lab / FNAEGLER | |
| | | 9/17/2022 | 1145 | R-001-S10 / FNAEGLER | |
| **R2208794-010.02** | | | | | |
| | | 9/16/2022 | 0958 | SMO / ALUGO | |

**Client:** Verina Consulting Group, LLC **Service Request:** R2208794
**Project:** Dover - Kirkwood/5101.0002

| Bottle ID | Methods | Date | Time | Sample Location / User | Disposed On |
|---|---|---|---|---|---|
| | | 9/16/2022 | 1000 | R-001 / ALUGO | |
| **R2208794-010.03** | | | | | |
| | | 9/16/2022 | 0958 | SMO / ALUGO | |
| | | 9/16/2022 | 1000 | R-001 / ALUGO | |
| **R2208794-011.01** | | | | | |
| | 8260C | | | | |
| | | 9/16/2022 | 0958 | SMO / ALUGO | |
| | | 9/16/2022 | 1000 | R-001 / ALUGO | |
| | | 9/25/2022 | 1129 | In Lab / KRUEST | |
| | | 9/25/2022 | 1136 | R-001-S10 / KRUEST | |
| **R2208794-011.02** | | | | | |
| | | 9/16/2022 | 0958 | SMO / ALUGO | |
| | | 9/16/2022 | 1000 | R-001 / ALUGO | |
| **R2208794-011.03** | | | | | |
| | | 9/16/2022 | 0958 | SMO / ALUGO | |
| | | 9/16/2022 | 1000 | R-001 / ALUGO | |
| **R2208794-012.01** | | | | | |
| | 8260C | | | | |
| | | 9/16/2022 | 0958 | SMO / ALUGO | |
| | | 9/16/2022 | 1000 | R-001 / ALUGO | |
| | | 9/25/2022 | 1129 | In Lab / KRUEST | |
| | | 9/25/2022 | 1136 | R-001-S10 / KRUEST | |
| **R2208794-012.02** | | | | | |
| | | 9/16/2022 | 0958 | SMO / ALUGO | |
| | | 9/16/2022 | 1000 | R-001 / ALUGO | |
| **R2208794-012.03** | | | | | |
| | | 9/16/2022 | 0958 | SMO / ALUGO | |
| | | 9/16/2022 | 1000 | R-001 / ALUGO | |
| **R2208794-013.01** | | | | | |
| | 8260C | | | | |
| | | 9/16/2022 | 0958 | SMO / ALUGO | |
| | | 9/16/2022 | 1000 | R-001 / ALUGO | |
| | | 9/25/2022 | 1129 | In Lab / KRUEST | |
| | | 9/25/2022 | 1136 | R-001-S10 / KRUEST | |

**Client:** Verina Consulting Group, LLC **Service Request:** R2208794
**Project:** Dover - Kirkwood/5101.0002

| Bottle ID | Methods | Date | Time | Sample Location / User | Disposed On |
|---|---|---|---|---|---|
| **R2208794-013.02** | | | | | |
| | | 9/16/2022 | 0958 | SMO / ALUGO | |
| | | 9/16/2022 | 1000 | R-001 / ALUGO | |
| **R2208794-013.03** | | | | | |
| | | 9/16/2022 | 0958 | SMO / ALUGO | |
| | | 9/16/2022 | 1000 | R-001 / ALUGO | |
| **R2208794-014.01** | | | | | |
| | 8260C | | | | |
| | | 9/16/2022 | 0958 | SMO / ALUGO | |
| | | 9/16/2022 | 1000 | R-001 / ALUGO | |
| | | 9/25/2022 | 1129 | In Lab / KRUEST | |
| | | 9/25/2022 | 1136 | R-001-S10 / KRUEST | |
| **R2208794-014.02** | | | | | |
| | | 9/16/2022 | 0958 | SMO / ALUGO | |
| | | 9/16/2022 | 1000 | R-001 / ALUGO | |
| **R2208794-014.03** | | | | | |
| | | 9/16/2022 | 0958 | SMO / ALUGO | |
| | | 9/16/2022 | 1000 | R-001 / ALUGO | |
| **R2208794-015.01** | | | | | |
| | 8260C | | | | |
| | | 9/16/2022 | 0958 | SMO / ALUGO | |
| | | 9/16/2022 | 1000 | R-001 / ALUGO | |
| | | 9/25/2022 | 1129 | In Lab / KRUEST | |
| | | 9/25/2022 | 1136 | R-001-S10 / KRUEST | |
| **R2208794-015.02** | | | | | |
| | | 9/16/2022 | 0958 | SMO / ALUGO | |
| | | 9/16/2022 | 1000 | R-001 / ALUGO | |
| **R2208794-015.03** | | | | | |
| | | 9/16/2022 | 0958 | SMO / ALUGO | |
| | | 9/16/2022 | 1000 | R-001 / ALUGO | |
| **R2208794-016.01** | | | | | |
| | 8260C | | | | |
| | | 9/16/2022 | 0958 | SMO / ALUGO | |
| | | 9/16/2022 | 1000 | R-001 / ALUGO | |
| | | 9/25/2022 | 1129 | In Lab / KRUEST | |

**ALS Group USA, Corp.**
**dba ALS Environmental**

**Internal Chain of Custody Report**

**Client:** Verina Consulting Group, LLC **Service Request:** R2208794
**Project:** Dover - Kirkwood/5101.0002

| Bottle ID | Methods | Date | Time | Sample Location / User | Disposed On |
|---|---|---|---|---|---|
| | 8260C | | | | |
| | | 9/25/2022 | 1136 | R-001-S10 / KRUEST | |
| **R2208794-016.02** | | | | | |
| | | 9/16/2022 | 0958 | SMO / ALUGO | |
| | | 9/16/2022 | 1000 | R-001 / ALUGO | |
| **R2208794-016.03** | | | | | |
| | | 9/16/2022 | 0958 | SMO / ALUGO | |
| | | 9/16/2022 | 1000 | R-001 / ALUGO | |
| **R2208794-017.01** | | | | | |
| | 8260C | | | | |
| | | 9/16/2022 | 0958 | SMO / ALUGO | |
| | | 9/16/2022 | 1000 | R-001 / ALUGO | |
| | | 9/25/2022 | 1129 | In Lab / KRUEST | |
| | | 9/25/2022 | 1136 | R-001-S10 / KRUEST | |
| **R2208794-017.02** | | | | | |
| | | 9/16/2022 | 0958 | SMO / ALUGO | |
| | | 9/16/2022 | 1000 | R-001 / ALUGO | |
| **R2208794-017.03** | | | | | |
| | | 9/16/2022 | 0958 | SMO / ALUGO | |
| | | 9/16/2022 | 1000 | R-001 / ALUGO | |

# Miscellaneous Forms

**ALS Environmental—Rochester Laboratory**
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

# REPORT QUALIFIERS AND DEFINITIONS

U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.

J Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).

B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.

E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.

E Organics- Concentration has exceeded the calibration range for that specific analysis.

D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.

* Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.

H Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.

# Spike was diluted out.

+ Correlation coefficient for MSA is <0.995.

N Inorganics- Matrix spike recovery was outside laboratory limits.

N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.

S Concentration has been determined using Method of Standard Additions (MSA).

W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.

P Concentration >40% difference between the two GC columns.

C Confirmed by GC/MS

Q DoD reports: indicates a pesticide/Aroclor is not confirmed (≥100% Difference between two GC columns).

X See Case Narrative for discussion.

MRL Method Reporting Limit. Also known as:
LOQ Limit of Quantitation (LOQ)
The lowest concentration at which the method analyte may be reliably quantified under the method conditions.

MDL Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).

LOD Limit of Detection. A value at or above the MDL which has been verified to be detectable.

ND Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.

## Rochester Lab ID # for State Accreditations[1]

| NELAP States |
|---|
| Florida ID # E87674 |
| New Hampshire ID # 2941 |
| New York ID # 10145 |
| Pennsylvania ID# 68-786 |
| Virginia #460167 |

| Non-NELAP States |
|---|
| Connecticut ID #PH0556 |
| Delaware Approved |
| Maine ID #NY01587 |
| North Carolina #36701 |
| North Carolina #676 |
| Rhode Island LAO00333 |

[1] Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to https://www.alsglobal.com/locations/americas/north-america/usa/new-york/rochester-environmental

# ALS Laboratory Group

**Acronyms**

| | |
|---|---|
| ASTM | American Society for Testing and Materials |
| A2LA | American Association for Laboratory Accreditation |
| CARB | California Air Resources Board |
| CAS Number | Chemical Abstract Service registry Number |
| CFC | Chlorofluorocarbon |
| CFU | Colony-Forming Unit |
| DEC | Department of Environmental Conservation |
| DEQ | Department of Environmental Quality |
| DHS | Department of Health Services |
| DOE | Department of Ecology |
| DOH | Department of Health |
| EPA | U. S. Environmental Protection Agency |
| ELAP | Environmental Laboratory Accreditation Program |
| GC | Gas Chromatography |
| GC/MS | Gas Chromatography/Mass Spectrometry |
| LUFT | Leaking Underground Fuel Tank |
| M | Modified |
| MCL | Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA. |
| MDL | Method Detection Limit |
| MPN | Most Probable Number |
| MRL | Method Reporting Limit |
| NA | Not Applicable |
| NC | Not Calculated |
| NCASI | National Council of the Paper Industry for Air and Stream Improvement |
| ND | Not Detected |
| NIOSH | National Institute for Occupational Safety and Health |
| PQL | Practical Quantitation Limit |
| RCRA | Resource Conservation and Recovery Act |
| SIM | Selected Ion Monitoring |
| TPH | Total Petroleum Hydrocarbons |
| tr | Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL. |

**Client:** Verina Consulting Group, LLC
**Project:** Dover - Kirkwood/5101.0002
**Service Request:** R2208794

**Sample Name:** MW7A-091322
**Lab Code:** R2208794-002
**Sample Matrix:** Water
**Date Collected:** 09/13/22
**Date Received:** 09/15/22

| Analysis Method | Extracted/Digested By | Analyzed By |
|---|---|---|
| 8260C | | FNAEGLER |

**Sample Name:** MP-12-091322
**Lab Code:** R2208794-003
**Sample Matrix:** Water
**Date Collected:** 09/13/22
**Date Received:** 09/15/22

| Analysis Method | Extracted/Digested By | Analyzed By |
|---|---|---|
| 8260C | | FNAEGLER |

**Sample Name:** MP-11-091322
**Lab Code:** R2208794-004
**Sample Matrix:** Water
**Date Collected:** 09/13/22
**Date Received:** 09/15/22

| Analysis Method | Extracted/Digested By | Analyzed By |
|---|---|---|
| 8260C | | FNAEGLER |

**Sample Name:** MW-35-091422
**Lab Code:** R2208794-005
**Sample Matrix:** Water
**Date Collected:** 09/14/22
**Date Received:** 09/15/22

| Analysis Method | Extracted/Digested By | Analyzed By |
|---|---|---|
| 8260C | | KRUEST |

**Sample Name:** MW-32-091422
**Lab Code:** R2208794-006
**Sample Matrix:** Water
**Date Collected:** 09/14/22
**Date Received:** 09/15/22

| Analysis Method | Extracted/Digested By | Analyzed By |
|---|---|---|
| 8260C | | KRUEST |

**Client:** Verina Consulting Group, LLC
**Project:** Dover - Kirkwood/5101.0002
**Service Request:** R2208794

**Sample Name:** MP-6D-091422
**Lab Code:** R2208794-007
**Sample Matrix:** Water
**Date Collected:** 09/14/22
**Date Received:** 09/15/22

| Analysis Method | Extracted/Digested By | Analyzed By |
|---|---|---|
| 8260C | | KRUEST |

**Sample Name:** MW39-091422
**Lab Code:** R2208794-008
**Sample Matrix:** Water
**Date Collected:** 09/14/22
**Date Received:** 09/15/22

| Analysis Method | Extracted/Digested By | Analyzed By |
|---|---|---|
| 8260C | | KRUEST |

**Sample Name:** MW31-091422
**Lab Code:** R2208794-009
**Sample Matrix:** Water
**Date Collected:** 09/14/22
**Date Received:** 09/15/22

| Analysis Method | Extracted/Digested By | Analyzed By |
|---|---|---|
| 8260C | | KRUEST |

**Sample Name:** MP5R-091422
**Lab Code:** R2208794-010
**Sample Matrix:** Water
**Date Collected:** 09/14/22
**Date Received:** 09/15/22

| Analysis Method | Extracted/Digested By | Analyzed By |
|---|---|---|
| 8260C | | FNAEGLER |

**Sample Name:** MW28-091422
**Lab Code:** R2208794-011
**Sample Matrix:** Water
**Date Collected:** 09/14/22
**Date Received:** 09/15/22

| Analysis Method | Extracted/Digested By | Analyzed By |
|---|---|---|
| 8260C | | KRUEST |

| | | | |
|---|---|---|---|
| **Client:** | Verina Consulting Group, LLC | **Service Request:** | R2208794 |
| **Project:** | Dover - Kirkwood/5101.0002 | | |

| | | | |
|---|---|---|---|
| **Sample Name:** | MW19-091422 | **Date Collected:** | 09/14/22 |
| **Lab Code:** | R2208794-012 | **Date Received:** | 09/15/22 |
| **Sample Matrix:** | Water | | |

| Analysis Method | Extracted/Digested By | Analyzed By |
|---|---|---|
| 8260C | | KRUEST |

| | | | |
|---|---|---|---|
| **Sample Name:** | MW27-091422 | **Date Collected:** | 09/14/22 |
| **Lab Code:** | R2208794-013 | **Date Received:** | 09/15/22 |
| **Sample Matrix:** | Water | | |

| Analysis Method | Extracted/Digested By | Analyzed By |
|---|---|---|
| 8260C | | KRUEST |

| | | | |
|---|---|---|---|
| **Sample Name:** | MW26-091422 | **Date Collected:** | 09/14/22 |
| **Lab Code:** | R2208794-014 | **Date Received:** | 09/15/22 |
| **Sample Matrix:** | Water | | |

| Analysis Method | Extracted/Digested By | Analyzed By |
|---|---|---|
| 8260C | | KRUEST |

| | | | |
|---|---|---|---|
| **Sample Name:** | MP3D-091422 | **Date Collected:** | 09/14/22 |
| **Lab Code:** | R2208794-015 | **Date Received:** | 09/15/22 |
| **Sample Matrix:** | Water | | |

| Analysis Method | Extracted/Digested By | Analyzed By |
|---|---|---|
| 8260C | | KRUEST |

| | | | |
|---|---|---|---|
| **Sample Name:** | FB-091422 | **Date Collected:** | 09/14/22 |
| **Lab Code:** | R2208794-016 | **Date Received:** | 09/15/22 |
| **Sample Matrix:** | Water | | |

| Analysis Method | Extracted/Digested By | Analyzed By |
|---|---|---|
| 8260C | | KRUEST |

| | | | |
|---|---|---|---|
| **Client:** | Verina Consulting Group, LLC | **Service Request:** | R2208794 |
| **Project:** | Dover - Kirkwood/5101.0002 | | |

| | | | |
|---|---|---|---|
| **Sample Name:** | TB-091422 | **Date Collected:** | 09/13/22 |
| **Lab Code:** | R2208794-017 | **Date Received:** | 09/15/22 |
| **Sample Matrix:** | Water | | |

| Analysis Method | Extracted/Digested By | Analyzed By |
|---|---|---|
| 8260C | | KRUEST |

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

**Water/Liquid Matrix**

| Analytical Method | Preparation Method |
|---|---|
| 200.7 | 200.2 |
| 200.8 | 200.2 |
| 6010C | 3005A/3010A |
| 6020A | ILM05.3 |
| 9034 Sulfide Acid Soluble | 9030B |
| SM 4500-CN-E Residual Cyanide | SM 4500-CN-G |
| SM 4500-CN-E WAD Cyanide | SM 4500-CN-I |

**Solid/Soil/Non-Aqueous Matrix**

| Analytical Method | Preparation Method |
|---|---|
| 6010C | 3050B |
| 6020A | 3050B |
| 6010C TCLP (1311) extract | 3005A/3010A |
| 6010 SPLP (1312) extract | 3005A/3010A |
| 7199 | 3060A |
| 300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions | DI extraction |
| For analytical methods not listed, the preparation method is the same as the analytical method reference. | |

# Sample Results

**ALS Environmental—Rochester Laboratory**
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

# Volatile Organic Compounds by GC/MS

**ALS Environmental—Rochester Laboratory**
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Verina Consulting Group, LLC | **Service Request:** | R2208794 |
| **Project:** | Dover - Kirkwood/5101.0002 | **Date Collected:** | 09/14/22 11:10 |
| **Sample Matrix:** | Water | **Date Received:** | 09/15/22 09:37 |
| **Sample Name:** | MW-35-091422 | **Units:** | ug/L |
| **Lab Code:** | R2208794-005 | **Basis:** | NA |

## Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C
**Prep Method:** EPA 5030C

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Q |
|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane (TCA) | 1.0 U | 1.0 | 0.20 | 1 | 09/25/22 22:40 | |
| 1,1-Dichloroethane (1,1-DCA) | 1.0 U | 1.0 | 0.20 | 1 | 09/25/22 22:40 | |
| 1,1-Dichloroethene (1,1-DCE) | 1.0 U | 1.0 | 0.20 | 1 | 09/25/22 22:40 | |
| Tetrachloroethene (PCE) | 1.0 U | 1.0 | 0.21 | 1 | 09/25/22 22:40 | |
| Trichloroethene (TCE) | 1.0 U | 1.0 | 0.20 | 1 | 09/25/22 22:40 | |
| Vinyl Chloride | 1.0 U | 1.0 | 0.20 | 1 | 09/25/22 22:40 | |
| cis-1,2-Dichloroethene | 1.0 U | 1.0 | 0.23 | 1 | 09/25/22 22:40 | |
| trans-1,2-Dichloroethene | 1.0 U | 1.0 | 0.20 | 1 | 09/25/22 22:40 | |

| Surrogate Name | % Rec | Control Limits | Date Analyzed | Q |
|---|---|---|---|---|
| 4-Bromofluorobenzene | 90 | 85 - 122 | 09/25/22 22:40 | |
| Dibromofluoromethane | 97 | 80 - 116 | 09/25/22 22:40 | |
| Toluene-d8 | 99 | 87 - 121 | 09/25/22 22:40 | |

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Verina Consulting Group, LLC | **Service Request:** | R2208794 |
| **Project:** | Dover - Kirkwood/5101.0002 | **Date Collected:** | 09/14/22 11:20 |
| **Sample Matrix:** | Water | **Date Received:** | 09/15/22 09:37 |
| **Sample Name:** | MW-32-091422 | **Units:** | ug/L |
| **Lab Code:** | R2208794-006 | **Basis:** | NA |

## Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C
**Prep Method:** EPA 5030C

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Q |
|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane (TCA) | 1.0 U | 1.0 | 0.20 | 1 | 09/25/22 23:02 | |
| 1,1-Dichloroethane (1,1-DCA) | 1.0 U | 1.0 | 0.20 | 1 | 09/25/22 23:02 | |
| 1,1-Dichloroethene (1,1-DCE) | 1.0 U | 1.0 | 0.20 | 1 | 09/25/22 23:02 | |
| Tetrachloroethene (PCE) | 1.0 U | 1.0 | 0.21 | 1 | 09/25/22 23:02 | |
| Trichloroethene (TCE) | **0.27 J** | 1.0 | 0.20 | 1 | 09/25/22 23:02 | |
| Vinyl Chloride | 1.0 U | 1.0 | 0.20 | 1 | 09/25/22 23:02 | |
| cis-1,2-Dichloroethene | **0.41 J** | 1.0 | 0.23 | 1 | 09/25/22 23:02 | |
| trans-1,2-Dichloroethene | 1.0 U | 1.0 | 0.20 | 1 | 09/25/22 23:02 | |

| Surrogate Name | % Rec | Control Limits | Date Analyzed | Q |
|---|---|---|---|---|
| 4-Bromofluorobenzene | 93 | 85 - 122 | 09/25/22 23:02 | |
| Dibromofluoromethane | 101 | 80 - 116 | 09/25/22 23:02 | |
| Toluene-d8 | 100 | 87 - 121 | 09/25/22 23:02 | |

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Verina Consulting Group, LLC | **Service Request:** | R2208794 |
| **Project:** | Dover - Kirkwood/5101.0002 | **Date Collected:** | 09/14/22 12:00 |
| **Sample Matrix:** | Water | **Date Received:** | 09/15/22 09:37 |
| **Sample Name:** | MP-6D-091422 | **Units:** | ug/L |
| **Lab Code:** | R2208794-007 | **Basis:** | NA |

## Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C
**Prep Method:** EPA 5030C

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Q |
|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane (TCA) | 1.0 U | 1.0 | 0.20 | 1 | 09/25/22 23:24 | |
| 1,1-Dichloroethane (1,1-DCA) | 1.0 U | 1.0 | 0.20 | 1 | 09/25/22 23:24 | |
| 1,1-Dichloroethene (1,1-DCE) | 1.0 U | 1.0 | 0.20 | 1 | 09/25/22 23:24 | |
| Tetrachloroethene (PCE) | 1.0 U | 1.0 | 0.21 | 1 | 09/25/22 23:24 | |
| Trichloroethene (TCE) | 1.0 U | 1.0 | 0.20 | 1 | 09/25/22 23:24 | |
| Vinyl Chloride | 1.0 U | 1.0 | 0.20 | 1 | 09/25/22 23:24 | |
| cis-1,2-Dichloroethene | 1.0 U | 1.0 | 0.23 | 1 | 09/25/22 23:24 | |
| trans-1,2-Dichloroethene | 1.0 U | 1.0 | 0.20 | 1 | 09/25/22 23:24 | |

| Surrogate Name | % Rec | Control Limits | Date Analyzed | Q |
|---|---|---|---|---|
| 4-Bromofluorobenzene | 93 | 85 - 122 | 09/25/22 23:24 | |
| Dibromofluoromethane | 97 | 80 - 116 | 09/25/22 23:24 | |
| Toluene-d8 | 98 | 87 - 121 | 09/25/22 23:24 | |

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Verina Consulting Group, LLC | **Service Request:** | R2208794 |
| **Project:** | Dover - Kirkwood/5101.0002 | **Date Collected:** | 09/14/22 13:00 |
| **Sample Matrix:** | Water | **Date Received:** | 09/15/22 09:37 |
| **Sample Name:** | MW39-091422 | **Units:** | ug/L |
| **Lab Code:** | R2208794-008 | **Basis:** | NA |

## Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C
**Prep Method:** EPA 5030C

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Q |
|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane (TCA) | 1.0 U | 1.0 | 0.20 | 1 | 09/25/22 23:46 | |
| 1,1-Dichloroethane (1,1-DCA) | 1.0 U | 1.0 | 0.20 | 1 | 09/25/22 23:46 | |
| 1,1-Dichloroethene (1,1-DCE) | 1.0 U | 1.0 | 0.20 | 1 | 09/25/22 23:46 | |
| Tetrachloroethene (PCE) | 1.0 U | 1.0 | 0.21 | 1 | 09/25/22 23:46 | |
| Trichloroethene (TCE) | **1.8** | 1.0 | 0.20 | 1 | 09/25/22 23:46 | |
| Vinyl Chloride | 1.0 U | 1.0 | 0.20 | 1 | 09/25/22 23:46 | |
| cis-1,2-Dichloroethene | 1.0 U | 1.0 | 0.23 | 1 | 09/25/22 23:46 | |
| trans-1,2-Dichloroethene | 1.0 U | 1.0 | 0.20 | 1 | 09/25/22 23:46 | |

| Surrogate Name | % Rec | Control Limits | Date Analyzed | Q |
|---|---|---|---|---|
| 4-Bromofluorobenzene | 92 | 85 - 122 | 09/25/22 23:46 | |
| Dibromofluoromethane | 97 | 80 - 116 | 09/25/22 23:46 | |
| Toluene-d8 | 97 | 87 - 121 | 09/25/22 23:46 | |

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Verina Consulting Group, LLC | **Service Request:** | R2208794 |
| **Project:** | Dover - Kirkwood/5101.0002 | **Date Collected:** | 09/14/22 13:30 |
| **Sample Matrix:** | Water | **Date Received:** | 09/15/22 09:37 |
| **Sample Name:** | MW31-091422 | **Units:** | ug/L |
| **Lab Code:** | R2208794-009 | **Basis:** | NA |

## Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C
**Prep Method:** EPA 5030C

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Q |
|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane (TCA) | 1.0 U | 1.0 | 0.20 | 1 | 09/26/22 00:07 | |
| 1,1-Dichloroethane (1,1-DCA) | 1.0 U | 1.0 | 0.20 | 1 | 09/26/22 00:07 | |
| 1,1-Dichloroethene (1,1-DCE) | 1.0 U | 1.0 | 0.20 | 1 | 09/26/22 00:07 | |
| Tetrachloroethene (PCE) | 1.0 U | 1.0 | 0.21 | 1 | 09/26/22 00:07 | |
| Trichloroethene (TCE) | 1.0 U | 1.0 | 0.20 | 1 | 09/26/22 00:07 | |
| Vinyl Chloride | 1.0 U | 1.0 | 0.20 | 1 | 09/26/22 00:07 | |
| cis-1,2-Dichloroethene | **0.28 J** | 1.0 | 0.23 | 1 | 09/26/22 00:07 | |
| trans-1,2-Dichloroethene | 1.0 U | 1.0 | 0.20 | 1 | 09/26/22 00:07 | |

| Surrogate Name | % Rec | Control Limits | Date Analyzed | Q |
|---|---|---|---|---|
| 4-Bromofluorobenzene | 93 | 85 - 122 | 09/26/22 00:07 | |
| Dibromofluoromethane | 99 | 80 - 116 | 09/26/22 00:07 | |
| Toluene-d8 | 100 | 87 - 121 | 09/26/22 00:07 | |

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Verina Consulting Group, LLC | **Service Request:** | R2208794 |
| **Project:** | Dover - Kirkwood/5101.0002 | **Date Collected:** | 09/14/22 15:40 |
| **Sample Matrix:** | Water | **Date Received:** | 09/15/22 09:37 |
| **Sample Name:** | MW28-091422 | **Units:** | ug/L |
| **Lab Code:** | R2208794-011 | **Basis:** | NA |

## Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C
**Prep Method:** EPA 5030C

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Q |
|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane (TCA) | 5.0 U | 5.0 | 1.0 | 5 | 09/26/22 01:56 | |
| 1,1-Dichloroethane (1,1-DCA) | 5.0 U | 5.0 | 1.0 | 5 | 09/26/22 01:56 | |
| 1,1-Dichloroethene (1,1-DCE) | 5.0 U | 5.0 | 1.0 | 5 | 09/26/22 01:56 | |
| Tetrachloroethene (PCE) | 5.0 U | 5.0 | 1.1 | 5 | 09/26/22 01:56 | |
| Trichloroethene (TCE) | 5.0 U | 5.0 | 1.0 | 5 | 09/26/22 01:56 | |
| Vinyl Chloride | 5.0 U | 5.0 | 1.0 | 5 | 09/26/22 01:56 | |
| cis-1,2-Dichloroethene | 5.0 U | 5.0 | 1.2 | 5 | 09/26/22 01:56 | |
| trans-1,2-Dichloroethene | 5.0 U | 5.0 | 1.0 | 5 | 09/26/22 01:56 | |

| Surrogate Name | % Rec | Control Limits | Date Analyzed | Q |
|---|---|---|---|---|
| 4-Bromofluorobenzene | 94 | 85 - 122 | 09/26/22 01:56 | |
| Dibromofluoromethane | 98 | 80 - 116 | 09/26/22 01:56 | |
| Toluene-d8 | 99 | 87 - 121 | 09/26/22 01:56 | |

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Verina Consulting Group, LLC | **Service Request:** | R2208794 |
| **Project:** | Dover - Kirkwood/5101.0002 | **Date Collected:** | 09/14/22 15:45 |
| **Sample Matrix:** | Water | **Date Received:** | 09/15/22 09:37 |
| **Sample Name:** | MW19-091422 | **Units:** | ug/L |
| **Lab Code:** | R2208794-012 | **Basis:** | NA |

## Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C
**Prep Method:** EPA 5030C

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Q |
|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane (TCA) | 1.0 U | 1.0 | 0.20 | 1 | 09/26/22 00:29 | |
| 1,1-Dichloroethane (1,1-DCA) | 1.0 U | 1.0 | 0.20 | 1 | 09/26/22 00:29 | |
| 1,1-Dichloroethene (1,1-DCE) | 1.0 U | 1.0 | 0.20 | 1 | 09/26/22 00:29 | |
| Tetrachloroethene (PCE) | **11** | 1.0 | 0.21 | 1 | 09/26/22 00:29 | |
| Trichloroethene (TCE) | **3.5** | 1.0 | 0.20 | 1 | 09/26/22 00:29 | |
| Vinyl Chloride | 1.0 U | 1.0 | 0.20 | 1 | 09/26/22 00:29 | |
| cis-1,2-Dichloroethene | **2.5** | 1.0 | 0.23 | 1 | 09/26/22 00:29 | |
| trans-1,2-Dichloroethene | 1.0 U | 1.0 | 0.20 | 1 | 09/26/22 00:29 | |

| Surrogate Name | % Rec | Control Limits | Date Analyzed | Q |
|---|---|---|---|---|
| 4-Bromofluorobenzene | 94 | 85 - 122 | 09/26/22 00:29 | |
| Dibromofluoromethane | 101 | 80 - 116 | 09/26/22 00:29 | |
| Toluene-d8 | 100 | 87 - 121 | 09/26/22 00:29 | |

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Verina Consulting Group, LLC | **Service Request:** | R2208794 |
| **Project:** | Dover - Kirkwood/5101.0002 | **Date Collected:** | 09/14/22 17:25 |
| **Sample Matrix:** | Water | **Date Received:** | 09/15/22 09:37 |
| **Sample Name:** | MW27-091422 | **Units:** | ug/L |
| **Lab Code:** | R2208794-013 | **Basis:** | NA |

## Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C
**Prep Method:** EPA 5030C

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Q |
|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane (TCA) | 1.0 U | 1.0 | 0.20 | 1 | 09/26/22 00:51 | |
| 1,1-Dichloroethane (1,1-DCA) | 1.0 U | 1.0 | 0.20 | 1 | 09/26/22 00:51 | |
| 1,1-Dichloroethene (1,1-DCE) | 1.0 U | 1.0 | 0.20 | 1 | 09/26/22 00:51 | |
| Tetrachloroethene (PCE) | **0.65 J** | 1.0 | 0.21 | 1 | 09/26/22 00:51 | |
| Trichloroethene (TCE) | **0.59 J** | 1.0 | 0.20 | 1 | 09/26/22 00:51 | |
| Vinyl Chloride | 1.0 U | 1.0 | 0.20 | 1 | 09/26/22 00:51 | |
| cis-1,2-Dichloroethene | **12** | 1.0 | 0.23 | 1 | 09/26/22 00:51 | |
| trans-1,2-Dichloroethene | 1.0 U | 1.0 | 0.20 | 1 | 09/26/22 00:51 | |

| Surrogate Name | % Rec | Control Limits | Date Analyzed | Q |
|---|---|---|---|---|
| 4-Bromofluorobenzene | 93 | 85 - 122 | 09/26/22 00:51 | |
| Dibromofluoromethane | 96 | 80 - 116 | 09/26/22 00:51 | |
| Toluene-d8 | 99 | 87 - 121 | 09/26/22 00:51 | |

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Verina Consulting Group, LLC | **Service Request:** | R2208794 |
| **Project:** | Dover - Kirkwood/5101.0002 | **Date Collected:** | 09/14/22 17:45 |
| **Sample Matrix:** | Water | **Date Received:** | 09/15/22 09:37 |
| **Sample Name:** | MW26-091422 | **Units:** | ug/L |
| **Lab Code:** | R2208794-014 | **Basis:** | NA |

## Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C
**Prep Method:** EPA 5030C

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Q |
|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane (TCA) | 1.0 U | 1.0 | 0.20 | 1 | 09/26/22 01:13 | |
| 1,1-Dichloroethane (1,1-DCA) | 1.0 U | 1.0 | 0.20 | 1 | 09/26/22 01:13 | |
| 1,1-Dichloroethene (1,1-DCE) | 1.0 U | 1.0 | 0.20 | 1 | 09/26/22 01:13 | |
| Tetrachloroethene (PCE) | **4.8** | 1.0 | 0.21 | 1 | 09/26/22 01:13 | |
| Trichloroethene (TCE) | **1.5** | 1.0 | 0.20 | 1 | 09/26/22 01:13 | |
| Vinyl Chloride | 1.0 U | 1.0 | 0.20 | 1 | 09/26/22 01:13 | |
| cis-1,2-Dichloroethene | **2.0** | 1.0 | 0.23 | 1 | 09/26/22 01:13 | |
| trans-1,2-Dichloroethene | 1.0 U | 1.0 | 0.20 | 1 | 09/26/22 01:13 | |

| Surrogate Name | % Rec | Control Limits | Date Analyzed | Q |
|---|---|---|---|---|
| 4-Bromofluorobenzene | 93 | 85 - 122 | 09/26/22 01:13 | |
| Dibromofluoromethane | 98 | 80 - 116 | 09/26/22 01:13 | |
| Toluene-d8 | 99 | 87 - 121 | 09/26/22 01:13 | |

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Verina Consulting Group, LLC | **Service Request:** | R2208794 |
| **Project:** | Dover - Kirkwood/5101.0002 | **Date Collected:** | 09/14/22 17:50 |
| **Sample Matrix:** | Water | **Date Received:** | 09/15/22 09:37 |
| **Sample Name:** | MP3D-091422 | **Units:** | ug/L |
| **Lab Code:** | R2208794-015 | **Basis:** | NA |

## Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C
**Prep Method:** EPA 5030C

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Q |
|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane (TCA) | 1.0 U | 1.0 | 0.20 | 1 | 09/26/22 01:35 | |
| 1,1-Dichloroethane (1,1-DCA) | 1.0 U | 1.0 | 0.20 | 1 | 09/26/22 01:35 | |
| 1,1-Dichloroethene (1,1-DCE) | 1.0 U | 1.0 | 0.20 | 1 | 09/26/22 01:35 | |
| Tetrachloroethene (PCE) | 1.0 U | 1.0 | 0.21 | 1 | 09/26/22 01:35 | |
| Trichloroethene (TCE) | 1.0 U | 1.0 | 0.20 | 1 | 09/26/22 01:35 | |
| Vinyl Chloride | 1.0 U | 1.0 | 0.20 | 1 | 09/26/22 01:35 | |
| cis-1,2-Dichloroethene | **0.55 J** | 1.0 | 0.23 | 1 | 09/26/22 01:35 | |
| trans-1,2-Dichloroethene | 1.0 U | 1.0 | 0.20 | 1 | 09/26/22 01:35 | |

| Surrogate Name | % Rec | Control Limits | Date Analyzed | Q |
|---|---|---|---|---|
| 4-Bromofluorobenzene | 89 | 85 - 122 | 09/26/22 01:35 | |
| Dibromofluoromethane | 97 | 80 - 116 | 09/26/22 01:35 | |
| Toluene-d8 | 98 | 87 - 121 | 09/26/22 01:35 | |

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Verina Consulting Group, LLC | **Service Request:** | R2208794 |
| **Project:** | Dover - Kirkwood/5101.0002 | **Date Collected:** | 09/14/22 17:50 |
| **Sample Matrix:** | Water | **Date Received:** | 09/15/22 09:37 |
| **Sample Name:** | FB-091422 | **Units:** | ug/L |
| **Lab Code:** | R2208794-016 | **Basis:** | NA |

## Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C
**Prep Method:** EPA 5030C

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Q |
|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane (TCA) | 1.0 U | 1.0 | 0.20 | 1 | 09/25/22 21:57 | |
| 1,1-Dichloroethane (1,1-DCA) | 1.0 U | 1.0 | 0.20 | 1 | 09/25/22 21:57 | |
| 1,1-Dichloroethene (1,1-DCE) | 1.0 U | 1.0 | 0.20 | 1 | 09/25/22 21:57 | |
| Tetrachloroethene (PCE) | 1.0 U | 1.0 | 0.21 | 1 | 09/25/22 21:57 | |
| Trichloroethene (TCE) | 1.0 U | 1.0 | 0.20 | 1 | 09/25/22 21:57 | |
| Vinyl Chloride | 1.0 U | 1.0 | 0.20 | 1 | 09/25/22 21:57 | |
| cis-1,2-Dichloroethene | 1.0 U | 1.0 | 0.23 | 1 | 09/25/22 21:57 | |
| trans-1,2-Dichloroethene | 1.0 U | 1.0 | 0.20 | 1 | 09/25/22 21:57 | |

| Surrogate Name | % Rec | Control Limits | Date Analyzed | Q |
|---|---|---|---|---|
| 4-Bromofluorobenzene | 89 | 85 - 122 | 09/25/22 21:57 | |
| Dibromofluoromethane | 97 | 80 - 116 | 09/25/22 21:57 | |
| Toluene-d8 | 98 | 87 - 121 | 09/25/22 21:57 | |

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Verina Consulting Group, LLC | **Service Request:** | R2208794 |
| **Project:** | Dover - Kirkwood/5101.0002 | **Date Collected:** | 09/13/22 10:45 |
| **Sample Matrix:** | Water | **Date Received:** | 09/15/22 09:37 |
| **Sample Name:** | TB-091422 | **Units:** | ug/L |
| **Lab Code:** | R2208794-017 | **Basis:** | NA |

## Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C
**Prep Method:** EPA 5030C

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Q |
|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane (TCA) | 1.0 U | 1.0 | 0.20 | 1 | 09/25/22 22:18 | |
| 1,1-Dichloroethane (1,1-DCA) | 1.0 U | 1.0 | 0.20 | 1 | 09/25/22 22:18 | |
| 1,1-Dichloroethene (1,1-DCE) | 1.0 U | 1.0 | 0.20 | 1 | 09/25/22 22:18 | |
| Tetrachloroethene (PCE) | 1.0 U | 1.0 | 0.21 | 1 | 09/25/22 22:18 | |
| Trichloroethene (TCE) | 1.0 U | 1.0 | 0.20 | 1 | 09/25/22 22:18 | |
| Vinyl Chloride | 1.0 U | 1.0 | 0.20 | 1 | 09/25/22 22:18 | |
| cis-1,2-Dichloroethene | 1.0 U | 1.0 | 0.23 | 1 | 09/25/22 22:18 | |
| trans-1,2-Dichloroethene | 1.0 U | 1.0 | 0.20 | 1 | 09/25/22 22:18 | |

| Surrogate Name | % Rec | Control Limits | Date Analyzed | Q |
|---|---|---|---|---|
| 4-Bromofluorobenzene | 94 | 85 - 122 | 09/25/22 22:18 | |
| Dibromofluoromethane | 98 | 80 - 116 | 09/25/22 22:18 | |
| Toluene-d8 | 99 | 87 - 121 | 09/25/22 22:18 | |

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Verina Consulting Group, LLC | **Service Request:** | R2208794 |
| **Project:** | Dover - Kirkwood/5101.0002 | **Date Collected:** | 09/13/22 17:25 |
| **Sample Matrix:** | Water | **Date Received:** | 09/15/22 09:37 |
| **Sample Name:** | MW7A-091322 | **Units:** | ug/L |
| **Lab Code:** | R2208794-002 | **Basis:** | NA |

## Volatile Organic Compounds by GC/MS, Unpreserved

**Analysis Method:** 8260C
**Prep Method:** EPA 5030C

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Q |
|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane (TCA) | 1.0 U | 1.0 | 0.20 | 1 | 09/17/22 13:06 | |
| 1,1-Dichloroethane (1,1-DCA) | 1.0 U | 1.0 | 0.20 | 1 | 09/17/22 13:06 | |
| 1,1-Dichloroethene (1,1-DCE) | 1.0 U | 1.0 | 0.20 | 1 | 09/17/22 13:06 | |
| Tetrachloroethene (PCE) | **17** | 1.0 | 0.21 | 1 | 09/17/22 13:06 | |
| Trichloroethene (TCE) | 1.0 U | 1.0 | 0.20 | 1 | 09/17/22 13:06 | |
| Vinyl Chloride | 1.0 U | 1.0 | 0.20 | 1 | 09/17/22 13:06 | |
| cis-1,2-Dichloroethene | 1.0 U | 1.0 | 0.23 | 1 | 09/17/22 13:06 | |
| trans-1,2-Dichloroethene | 1.0 U | 1.0 | 0.20 | 1 | 09/17/22 13:06 | |

| Surrogate Name | % Rec | Control Limits | Date Analyzed | Q |
|---|---|---|---|---|
| 4-Bromofluorobenzene | 93 | 85 - 122 | 09/17/22 13:06 | |
| Dibromofluoromethane | 98 | 80 - 116 | 09/17/22 13:06 | |
| Toluene-d8 | 98 | 87 - 121 | 09/17/22 13:06 | |

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Verina Consulting Group, LLC | **Service Request:** | R2208794 |
| **Project:** | Dover - Kirkwood/5101.0002 | **Date Collected:** | 09/13/22 16:55 |
| **Sample Matrix:** | Water | **Date Received:** | 09/15/22 09:37 |
| **Sample Name:** | MP-12-091322 | **Units:** | ug/L |
| **Lab Code:** | R2208794-003 | **Basis:** | NA |

## Volatile Organic Compounds by GC/MS, Unpreserved

**Analysis Method:** 8260C
**Prep Method:** EPA 5030C

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Q |
|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane (TCA) | 10 U | 10 | 2.0 | 10 | 09/17/22 13:27 | |
| 1,1-Dichloroethane (1,1-DCA) | 10 U | 10 | 2.0 | 10 | 09/17/22 13:27 | |
| 1,1-Dichloroethene (1,1-DCE) | 10 U | 10 | 2.0 | 10 | 09/17/22 13:27 | |
| Tetrachloroethene (PCE) | 10 U | 10 | 2.1 | 10 | 09/17/22 13:27 | |
| Trichloroethene (TCE) | 10 U | 10 | 2.0 | 10 | 09/17/22 13:27 | |
| Vinyl Chloride | 10 U | 10 | 2.0 | 10 | 09/17/22 13:27 | |
| cis-1,2-Dichloroethene | 10 U | 10 | 2.3 | 10 | 09/17/22 13:27 | |
| trans-1,2-Dichloroethene | 10 U | 10 | 2.0 | 10 | 09/17/22 13:27 | |

| Surrogate Name | % Rec | Control Limits | Date Analyzed | Q |
|---|---|---|---|---|
| 4-Bromofluorobenzene | 97 | 85 - 122 | 09/17/22 13:27 | |
| Dibromofluoromethane | 100 | 80 - 116 | 09/17/22 13:27 | |
| Toluene-d8 | 103 | 87 - 121 | 09/17/22 13:27 | |

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Verina Consulting Group, LLC | **Service Request:** | R2208794 |
| **Project:** | Dover - Kirkwood/5101.0002 | **Date Collected:** | 09/13/22 17:45 |
| **Sample Matrix:** | Water | **Date Received:** | 09/15/22 09:37 |
| **Sample Name:** | MP-11-091322 | **Units:** | ug/L |
| **Lab Code:** | R2208794-004 | **Basis:** | NA |

## Volatile Organic Compounds by GC/MS, Unpreserved

**Analysis Method:** 8260C
**Prep Method:** EPA 5030C

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Q |
|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane (TCA) | 10 U | 10 | 2.0 | 10 | 09/17/22 13:49 | |
| 1,1-Dichloroethane (1,1-DCA) | 10 U | 10 | 2.0 | 10 | 09/17/22 13:49 | |
| 1,1-Dichloroethene (1,1-DCE) | 10 U | 10 | 2.0 | 10 | 09/17/22 13:49 | |
| Tetrachloroethene (PCE) | 10 U | 10 | 2.1 | 10 | 09/17/22 13:49 | |
| Trichloroethene (TCE) | 10 U | 10 | 2.0 | 10 | 09/17/22 13:49 | |
| Vinyl Chloride | 10 U | 10 | 2.0 | 10 | 09/17/22 13:49 | |
| cis-1,2-Dichloroethene | 10 U | 10 | 2.3 | 10 | 09/17/22 13:49 | |
| trans-1,2-Dichloroethene | 10 U | 10 | 2.0 | 10 | 09/17/22 13:49 | |

| Surrogate Name | % Rec | Control Limits | Date Analyzed | Q |
|---|---|---|---|---|
| 4-Bromofluorobenzene | 100 | 85 - 122 | 09/17/22 13:49 | |
| Dibromofluoromethane | 101 | 80 - 116 | 09/17/22 13:49 | |
| Toluene-d8 | 103 | 87 - 121 | 09/17/22 13:49 | |

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Verina Consulting Group, LLC | **Service Request:** | R2208794 |
| **Project:** | Dover - Kirkwood/5101.0002 | **Date Collected:** | 09/14/22 14:40 |
| **Sample Matrix:** | Water | **Date Received:** | 09/15/22 09:37 |
| **Sample Name:** | MP5R-091422 | **Units:** | ug/L |
| **Lab Code:** | R2208794-010 | **Basis:** | NA |

## Volatile Organic Compounds by GC/MS, Unpreserved

**Analysis Method:** 8260C
**Prep Method:** EPA 5030C

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Q |
|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane (TCA) | 10 U | 10 | 2.0 | 10 | 09/17/22 14:11 | |
| 1,1-Dichloroethane (1,1-DCA) | 10 U | 10 | 2.0 | 10 | 09/17/22 14:11 | |
| 1,1-Dichloroethene (1,1-DCE) | 10 U | 10 | 2.0 | 10 | 09/17/22 14:11 | |
| Tetrachloroethene (PCE) | 10 U | 10 | 2.1 | 10 | 09/17/22 14:11 | |
| Trichloroethene (TCE) | 10 U | 10 | 2.0 | 10 | 09/17/22 14:11 | |
| Vinyl Chloride | 10 U | 10 | 2.0 | 10 | 09/17/22 14:11 | |
| cis-1,2-Dichloroethene | 10 U | 10 | 2.3 | 10 | 09/17/22 14:11 | |
| trans-1,2-Dichloroethene | 10 U | 10 | 2.0 | 10 | 09/17/22 14:11 | |

| Surrogate Name | % Rec | Control Limits | Date Analyzed | Q |
|---|---|---|---|---|
| 4-Bromofluorobenzene | 98 | 85 - 122 | 09/17/22 14:11 | |
| Dibromofluoromethane | 105 | 80 - 116 | 09/17/22 14:11 | |
| Toluene-d8 | 105 | 87 - 121 | 09/17/22 14:11 | |

# QC Summary Forms

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# Volatile Organic Compounds by GC/MS

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**Client:** Verina Consulting Group, LLC **Service Request:** R2208794
**Project:** Dover - Kirkwood/5101.0002
**Sample Matrix:** Water

## SURROGATE RECOVERY SUMMARY
## Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C
**Extraction Method:** EPA 5030C

| Sample Name | Lab Code | 4-Bromofluorobenzene 85-122 | Dibromofluoromethane 80-116 | Toluene-d8 87-121 |
|---|---|---|---|---|
| MW-35-091422 | R2208794-005 | 90 | 97 | 99 |
| MW-32-091422 | R2208794-006 | 93 | 101 | 100 |
| MP-6D-091422 | R2208794-007 | 93 | 97 | 98 |
| MW39-091422 | R2208794-008 | 92 | 97 | 97 |
| MW31-091422 | R2208794-009 | 93 | 99 | 100 |
| MW28-091422 | R2208794-011 | 94 | 98 | 99 |
| MW19-091422 | R2208794-012 | 94 | 101 | 100 |
| MW27-091422 | R2208794-013 | 93 | 96 | 99 |
| MW26-091422 | R2208794-014 | 93 | 98 | 99 |
| MP3D-091422 | R2208794-015 | 89 | 97 | 98 |
| FB-091422 | R2208794-016 | 89 | 97 | 98 |
| TB-091422 | R2208794-017 | 94 | 98 | 99 |
| Method Blank | RQ2211600-05 | 91 | 100 | 98 |
| Lab Control Sample | RQ2211600-03 | 96 | 99 | 99 |
| Duplicate Lab Control Sample | RQ2211600-04 | 94 | 98 | 98 |

| | | | |
|---|---|---|---|
| **Client:** | Verina Consulting Group, LLC | **Service Request:** | R2208794 |
| **Project:** | Dover - Kirkwood/5101.0002 | **Date Analyzed:** | 09/25/22 21:35 |
| **Sample Matrix:** | Water | **Date Extracted:** | |

## Method Blank Summary
## Volatile Organic Compounds by GC/MS

**Sample Name:** Method Blank
**Lab Code:** RQ2211600-05
**Instrument ID:** R-MS-10
**File ID:** I:\ACQUDATA\msvoa10\data\092522\B6288.D\

**Analysis Method:** 8260C
**Prep Method:** EPA 5030C
**Analysis Lot:** 778754

This Method Blank applies to the following analyses.

| Sample Name | Lab Code | File ID | Date Analyzed |
|---|---|---|---|
| Lab Control Sample | RQ2211600-03 | I:\ACQUDATA\msvoa10\data\092522\B6284.D\ | 09/25/22 20:07 |
| Duplicate Lab Control Sample | RQ2211600-04 | I:\ACQUDATA\msvoa10\data\092522\B6285.D\ | 09/25/22 20:29 |
| FB-091422 | R2208794-016 | I:\ACQUDATA\msvoa10\data\092522\B6289.D\ | 09/25/22 21:57 |
| TB-091422 | R2208794-017 | I:\ACQUDATA\msvoa10\data\092522\B6290.D\ | 09/25/22 22:18 |
| MW-35-091422 | R2208794-005 | I:\ACQUDATA\msvoa10\data\092522\B6291.D\ | 09/25/22 22:40 |
| MW-32-091422 | R2208794-006 | I:\ACQUDATA\msvoa10\data\092522\B6292.D\ | 09/25/22 23:02 |
| MP-6D-091422 | R2208794-007 | I:\ACQUDATA\msvoa10\data\092522\B6293.D\ | 09/25/22 23:24 |
| MW39-091422 | R2208794-008 | I:\ACQUDATA\msvoa10\data\092522\B6294.D\ | 09/25/22 23:46 |
| MW31-091422 | R2208794-009 | I:\ACQUDATA\msvoa10\data\092522\B6295.D\ | 09/26/22 00:07 |
| MW19-091422 | R2208794-012 | I:\ACQUDATA\msvoa10\data\092522\B6296.D\ | 09/26/22 00:29 |
| MW27-091422 | R2208794-013 | I:\ACQUDATA\msvoa10\data\092522\B6297.D\ | 09/26/22 00:51 |
| MW26-091422 | R2208794-014 | I:\ACQUDATA\msvoa10\data\092522\B6298.D\ | 09/26/22 01:13 |
| MP3D-091422 | R2208794-015 | I:\ACQUDATA\msvoa10\data\092522\B6299.D\ | 09/26/22 01:35 |
| MW28-091422 | R2208794-011 | I:\ACQUDATA\msvoa10\data\092522\B6300.D\ | 09/26/22 01:56 |

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Verina Consulting Group, LLC | **Service Request:** | R2208794 |
| **Project:** | Dover - Kirkwood/5101.0002 | **Date Collected:** | NA |
| **Sample Matrix:** | Water | **Date Received:** | NA |
| **Sample Name:** | Method Blank | **Units:** | ug/L |
| **Lab Code:** | RQ2211600-05 | **Basis:** | NA |

## Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C
**Prep Method:** EPA 5030C

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Q |
|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane (TCA) | 1.0 U | 1.0 | 0.20 | 1 | 09/25/22 21:35 | |
| 1,1-Dichloroethane (1,1-DCA) | 1.0 U | 1.0 | 0.20 | 1 | 09/25/22 21:35 | |
| 1,1-Dichloroethene (1,1-DCE) | 1.0 U | 1.0 | 0.20 | 1 | 09/25/22 21:35 | |
| Tetrachloroethene (PCE) | 1.0 U | 1.0 | 0.21 | 1 | 09/25/22 21:35 | |
| Trichloroethene (TCE) | 1.0 U | 1.0 | 0.20 | 1 | 09/25/22 21:35 | |
| Vinyl Chloride | 1.0 U | 1.0 | 0.20 | 1 | 09/25/22 21:35 | |
| cis-1,2-Dichloroethene | 1.0 U | 1.0 | 0.23 | 1 | 09/25/22 21:35 | |
| trans-1,2-Dichloroethene | 1.0 U | 1.0 | 0.20 | 1 | 09/25/22 21:35 | |

| Surrogate Name | % Rec | Control Limits | Date Analyzed | Q |
|---|---|---|---|---|
| 4-Bromofluorobenzene | 91 | 85 - 122 | 09/25/22 21:35 | |
| Dibromofluoromethane | 100 | 80 - 116 | 09/25/22 21:35 | |
| Toluene-d8 | 98 | 87 - 121 | 09/25/22 21:35 | |

| | | | |
|---|---|---|---|
| **Client:** | Verina Consulting Group, LLC | **Service Request:** | R2208794 |
| **Project:** | Dover - Kirkwood/5101.0002 | **Date Analyzed:** | 09/25/22 20:07 |
| **Sample Matrix:** | Water | **Date Extracted:** | |

## Lab Control Sample Summary
## Volatile Organic Compounds by GC/MS

**Sample Name:** Lab Control Sample
**Lab Code:** RQ2211600-03
**Instrument ID:** R-MS-10
**File ID:** I:\ACQUDATA\msvoa10\data\092522\B6284.D\

**Analysis Method:** 8260C
**Prep Method:** EPA 5030C
**Analysis Lot:** 778754

This Lab Control Sample applies to the following analyses.

| Sample Name | Lab Code | File ID | Date Analyzed |
|---|---|---|---|
| Duplicate Lab Control Sample | RQ2211600-04 | I:\ACQUDATA\msvoa10\data\092522\B6285.D\ | 09/25/22 20:29 |
| Method Blank | RQ2211600-05 | I:\ACQUDATA\msvoa10\data\092522\B6288.D\ | 09/25/22 21:35 |
| FB-091422 | R2208794-016 | I:\ACQUDATA\msvoa10\data\092522\B6289.D\ | 09/25/22 21:57 |
| TB-091422 | R2208794-017 | I:\ACQUDATA\msvoa10\data\092522\B6290.D\ | 09/25/22 22:18 |
| MW-35-091422 | R2208794-005 | I:\ACQUDATA\msvoa10\data\092522\B6291.D\ | 09/25/22 22:40 |
| MW-32-091422 | R2208794-006 | I:\ACQUDATA\msvoa10\data\092522\B6292.D\ | 09/25/22 23:02 |
| MP-6D-091422 | R2208794-007 | I:\ACQUDATA\msvoa10\data\092522\B6293.D\ | 09/25/22 23:24 |
| MW39-091422 | R2208794-008 | I:\ACQUDATA\msvoa10\data\092522\B6294.D\ | 09/25/22 23:46 |
| MW31-091422 | R2208794-009 | I:\ACQUDATA\msvoa10\data\092522\B6295.D\ | 09/26/22 00:07 |
| MW19-091422 | R2208794-012 | I:\ACQUDATA\msvoa10\data\092522\B6296.D\ | 09/26/22 00:29 |
| MW27-091422 | R2208794-013 | I:\ACQUDATA\msvoa10\data\092522\B6297.D\ | 09/26/22 00:51 |
| MW26-091422 | R2208794-014 | I:\ACQUDATA\msvoa10\data\092522\B6298.D\ | 09/26/22 01:13 |
| MP3D-091422 | R2208794-015 | I:\ACQUDATA\msvoa10\data\092522\B6299.D\ | 09/26/22 01:35 |
| MW28-091422 | R2208794-011 | I:\ACQUDATA\msvoa10\data\092522\B6300.D\ | 09/26/22 01:56 |

**Client:** Verina Consulting Group, LLC
**Project:** Dover - Kirkwood/5101.0002
**Sample Matrix:** Water

**Service Request:** R2208794
**Date Analyzed:** 09/25/22

## Duplicate Lab Control Sample Summary
## Volatile Organic Compounds by GC/MS

**Units:**ug/L
**Basis:**NA

| | | Lab Control Sample | | | Duplicate Lab Control Sample | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | RQ2211600-03 | | | RQ2211600-04 | | | | | |
| **Analyte Name** | **Analytical Method** | **Result** | **Spike Amount** | **% Rec** | **Result** | **Spike Amount** | **% Rec** | **% Rec Limits** | **RPD** | **RPD Limit** |
| 1,1,1-Trichloroethane (TCA) | 8260C | 20.3 | 20.0 | 102 | 20.5 | 20.0 | 102 | 75-125 | <1 | 30 |
| 1,1-Dichloroethane (1,1-DCA) | 8260C | 19.6 | 20.0 | 98 | 19.5 | 20.0 | 97 | 80-124 | <1 | 30 |
| 1,1-Dichloroethene (1,1-DCE) | 8260C | 20.2 | 20.0 | 101 | 20.2 | 20.0 | 101 | 71-118 | <1 | 30 |
| Tetrachloroethene (PCE) | 8260C | 23.9 | 20.0 | 119 | 23.0 | 20.0 | 115 | 72-125 | 4 | 30 |
| Trichloroethene (TCE) | 8260C | 23.2 | 20.0 | 116 | 22.8 | 20.0 | 114 | 74-122 | 2 | 30 |
| Vinyl Chloride | 8260C | 17.0 | 20.0 | 85 | 16.4 | 20.0 | 82 | 74-159 | 3 | 30 |
| cis-1,2-Dichloroethene | 8260C | 19.2 | 20.0 | 96 | 19.2 | 20.0 | 96 | 80-121 | <1 | 30 |
| trans-1,2-Dichloroethene | 8260C | 19.8 | 20.0 | 99 | 19.7 | 20.0 | 98 | 73-118 | <1 | 30 |

**Client:** Verina Consulting Group, LLC **Service Request:**R2208794
**Project:** Dover - Kirkwood/5101.0002 **Date Analyzed:**09/25/22 19:24

## Tune Summary
## Volatile Organic Compounds by GC/MS

**File ID:** I:\ACQUDATA\msvoa10\data\092522\B6282.D\ **Analytical Method:** 8260C
**Instrument ID:** R-MS-10 **Analysis Lot:** 778754

| Target Mass | Relative to Mass | Lower Limit % | Upper Limit % | Relative Abundance % | Raw Abundance | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 24.0 | 40701 | Pass |
| 75 | 95 | 30 | 60 | 53.8 | 91165 | Pass |
| 95 | 95 | 100 | 100 | 100.0 | 169536 | Pass |
| 96 | 95 | 5 | 9 | 7.4 | 12544 | Pass |
| 173 | 174 | 0 | 2 | 0.0 | 0 | Pass |
| 174 | 95 | 50 | 120 | 84.6 | 143461 | Pass |
| 175 | 174 | 5 | 9 | 8.9 | 12737 | Pass |
| 176 | 174 | 95 | 101 | 95.9 | 137592 | Pass |
| 177 | 176 | 5 | 9 | 7.0 | 9632 | Pass |

| Sample Name | Lab Code | File ID: | Date Analyzed: | Q |
|---|---|---|---|---|
| Continuing Calibration Verification | RQ2211600-02 | I:\ACQUDATA\msvoa10\data\092522\B6283.D\ | 09/25/22 19:46 | |
| Lab Control Sample | RQ2211600-03 | I:\ACQUDATA\msvoa10\data\092522\B6284.D\ | 09/25/22 20:07 | |
| Duplicate Lab Control Sample | RQ2211600-04 | I:\ACQUDATA\msvoa10\data\092522\B6285.D\ | 09/25/22 20:29 | |
| Method Blank | RQ2211600-05 | I:\ACQUDATA\msvoa10\data\092522\B6288.D\ | 09/25/22 21:35 | |
| FB-091422 | R2208794-016 | I:\ACQUDATA\msvoa10\data\092522\B6289.D\ | 09/25/22 21:57 | |
| TB-091422 | R2208794-017 | I:\ACQUDATA\msvoa10\data\092522\B6290.D\ | 09/25/22 22:18 | |
| MW-35-091422 | R2208794-005 | I:\ACQUDATA\msvoa10\data\092522\B6291.D\ | 09/25/22 22:40 | |
| MW-32-091422 | R2208794-006 | I:\ACQUDATA\msvoa10\data\092522\B6292.D\ | 09/25/22 23:02 | |
| MP-6D-091422 | R2208794-007 | I:\ACQUDATA\msvoa10\data\092522\B6293.D\ | 09/25/22 23:24 | |
| MW39-091422 | R2208794-008 | I:\ACQUDATA\msvoa10\data\092522\B6294.D\ | 09/25/22 23:46 | |
| MW31-091422 | R2208794-009 | I:\ACQUDATA\msvoa10\data\092522\B6295.D\ | 09/26/22 00:07 | |
| MW19-091422 | R2208794-012 | I:\ACQUDATA\msvoa10\data\092522\B6296.D\ | 09/26/22 00:29 | |
| MW27-091422 | R2208794-013 | I:\ACQUDATA\msvoa10\data\092522\B6297.D\ | 09/26/22 00:51 | |
| MW26-091422 | R2208794-014 | I:\ACQUDATA\msvoa10\data\092522\B6298.D\ | 09/26/22 01:13 | |
| MP3D-091422 | R2208794-015 | I:\ACQUDATA\msvoa10\data\092522\B6299.D\ | 09/26/22 01:35 | |
| MW28-091422 | R2208794-011 | I:\ACQUDATA\msvoa10\data\092522\B6300.D\ | 09/26/22 01:56 | |

**Client:** Verina Consulting Group, LLC **Service Request:**R2208794
**Project:** Dover - Kirkwood/5101.0002 **Date Analyzed:**09/25/22 19:46

**Internal Standard Area and RT SUMMARY**
**Volatile Organic Compounds by GC/MS**

**File ID:** I:\ACQUDATA\msvoa10\data\092522\B6283.D\ **Lab Code:**RQ2211600-02
**Instrument ID:** R-MS-10 **Analysis Lot:**778754
**Analysis Method:** 8260C **Signal ID:**1

| | | 1,4-Dichlorobenzene-d4 | | 1,4-Difluorobenzene | | Chlorobenzene-d5 | |
|---|---|---|---|---|---|---|---|
| | | **Area** | **RT** | **Area** | **RT** | **Area** | **RT** |
| | **Result ==>** | 314,439 | 11.86 | 619,548 | 6.49 | 581,752 | 9.81 |
| | **Upper Limit ==>** | 628,878 | 12.03 | 1,239,096 | 6.66 | 1,163,504 | 9.98 |
| | **Lower Limit ==>** | 157,220 | 11.69 | 309,774 | 6.32 | 290,876 | 9.64 |
| ***Associated Analyses*** | | | | | | | |
| Lab Control Sample | RQ2211600-03 | 300831 | 11.86 | 627723 | 6.49 | 574161 | 9.81 |
| Duplicate Lab Control Sample | RQ2211600-04 | 308892 | 11.86 | 633601 | 6.49 | 569437 | 9.81 |
| Method Blank | RQ2211600-05 | 260195 | 11.86 | 585327 | 6.49 | 532915 | 9.81 |
| FB-091422 | R2208794-016 | 262480 | 11.86 | 602391 | 6.49 | 547267 | 9.81 |
| TB-091422 | R2208794-017 | 261400 | 11.86 | 582614 | 6.49 | 522759 | 9.81 |
| MW-35-091422 | R2208794-005 | 253727 | 11.86 | 567936 | 6.49 | 513569 | 9.81 |
| MW-32-091422 | R2208794-006 | 260766 | 11.86 | 571010 | 6.49 | 510843 | 9.81 |
| MP-6D-091422 | R2208794-007 | 256241 | 11.86 | 574375 | 6.49 | 515930 | 9.81 |
| MW39-091422 | R2208794-008 | 256992 | 11.86 | 584543 | 6.49 | 529147 | 9.81 |
| MW31-091422 | R2208794-009 | 252342 | 11.86 | 542131 | 6.49 | 500871 | 9.81 |
| MW19-091422 | R2208794-012 | 258128 | 11.86 | 562354 | 6.49 | 516473 | 9.81 |
| MW27-091422 | R2208794-013 | 255007 | 11.86 | 566933 | 6.49 | 506569 | 9.81 |
| MW26-091422 | R2208794-014 | 255647 | 11.86 | 567641 | 6.49 | 513533 | 9.81 |
| MP3D-091422 | R2208794-015 | 260604 | 11.86 | 583686 | 6.49 | 523996 | 9.81 |
| MW28-091422 | R2208794-011 | 246022 | 11.86 | 536752 | 6.49 | 498155 | 9.81 |

**Client:** Verina Consulting Group, LLC **Service Request:**R2208794
**Project:** Dover - Kirkwood/5101.0002 **Date Analyzed:**09/25/22 19:46

**Internal Standard Area and RT SUMMARY**
**Volatile Organic Compounds by GC/MS**

**File ID:** I:\ACQUDATA\msvoa10\data\092522\B6283.D\ **Lab Code:**RQ2211600-02
**Instrument ID:** R-MS-10 **Analysis Lot:**778754
**Analysis Method:** 8260C **Signal ID:**1

| | | Pentafluorobenzene | |
|---|---|---|---|
| | | **Area** | **RT** |
| | **Result ==>** | 404,582 | 5.4 |
| | **Upper Limit ==>** | 809,164 | 5.57 |
| | **Lower Limit ==>** | 202,291 | 5.23 |
| ***Associated Analyses*** | | | |
| Lab Control Sample | RQ2211600-03 | 411002 | 5.40 |
| Duplicate Lab Control Sample | RQ2211600-04 | 406013 | 5.39 |
| Method Blank | RQ2211600-05 | 380531 | 5.40 |
| FB-091422 | R2208794-016 | 387552 | 5.40 |
| TB-091422 | R2208794-017 | 368785 | 5.39 |
| MW-35-091422 | R2208794-005 | 365970 | 5.40 |
| MW-32-091422 | R2208794-006 | 361426 | 5.39 |
| MP-6D-091422 | R2208794-007 | 369928 | 5.40 |
| MW39-091422 | R2208794-008 | 370960 | 5.39 |
| MW31-091422 | R2208794-009 | 348412 | 5.39 |
| MW19-091422 | R2208794-012 | 369514 | 5.39 |
| MW27-091422 | R2208794-013 | 370369 | 5.39 |
| MW26-091422 | R2208794-014 | 360582 | 5.40 |
| MP3D-091422 | R2208794-015 | 368864 | 5.40 |
| MW28-091422 | R2208794-011 | 340808 | 5.40 |

**Client:** Verina Consulting Group, LLC **Service Request:** R2208794
**Project:** Dover - Kirkwood/5101.0002
**Sample Matrix:** Water

## SURROGATE RECOVERY SUMMARY
## Volatile Organic Compounds by GC/MS, Unpreserved

**Analysis Method:** 8260C
**Extraction Method:** EPA 5030C

| Sample Name | Lab Code | 4-Bromofluorobenzene 85-122 | Dibromofluoromethane 80-116 | Toluene-d8 87-121 |
|---|---|---|---|---|
| MW7A-091322 | R2208794-002 | 93 | 98 | 98 |
| MP-12-091322 | R2208794-003 | 97 | 100 | 103 |
| MP-11-091322 | R2208794-004 | 100 | 101 | 103 |
| MP5R-091422 | R2208794-010 | 98 | 105 | 105 |
| Method Blank | RQ2211218-04 | 97 | 98 | 102 |
| Lab Control Sample | RQ2211218-03 | 99 | 101 | 101 |

| | | | |
|---|---|---|---|
| **Client:** | Verina Consulting Group, LLC | **Service Request:** | R2208794 |
| **Project:** | Dover - Kirkwood/5101.0002 | **Date Analyzed:** | 09/17/22 12:33 |
| **Sample Matrix:** | Water | **Date Extracted:** | |

## Method Blank Summary
## Volatile Organic Compounds by GC/MS, Unpreserved

| | | | |
|---|---|---|---|
| **Sample Name:** | Method Blank | **Instrument ID:** | R-MS-10 |
| **Lab Code:** | RQ2211218-04 | **File ID:** | I:\ACQUDATA\msvoa10\data\091722\B5832.D\ |
| **Analysis Method:** | 8260C | **Analysis Lot:** | 777855 |
| **Prep Method:** | EPA 5030C | | |

This Method Blank applies to the following analyses.

| Sample Name | Lab Code | File ID | Date Analyzed |
|---|---|---|---|
| Lab Control Sample | RQ2211218-03 | I:\ACQUDATA\msvoa10\data\091722\B5830.D\ | 09/17/22 11:38 |
| MW7A-091322 | R2208794-002 | I:\ACQUDATA\msvoa10\data\091722\B5833.D\ | 09/17/22 13:06 |
| MP-12-091322 | R2208794-003 | I:\ACQUDATA\msvoa10\data\091722\B5834.D\ | 09/17/22 13:27 |
| MP-11-091322 | R2208794-004 | I:\ACQUDATA\msvoa10\data\091722\B5835.D\ | 09/17/22 13:49 |
| MP5R-091422 | R2208794-010 | I:\ACQUDATA\msvoa10\data\091722\B5836.D\ | 09/17/22 14:11 |

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Verina Consulting Group, LLC | **Service Request:** | R2208794 |
| **Project:** | Dover - Kirkwood/5101.0002 | **Date Collected:** | NA |
| **Sample Matrix:** | Water | **Date Received:** | NA |
| **Sample Name:** | Method Blank | **Units:** | ug/L |
| **Lab Code:** | RQ2211218-04 | **Basis:** | NA |

## Volatile Organic Compounds by GC/MS, Unpreserved

**Analysis Method:** 8260C
**Prep Method:** EPA 5030C

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Q |
|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane (TCA) | 1.0 U | 1.0 | 0.20 | 1 | 09/17/22 12:33 | |
| 1,1-Dichloroethane (1,1-DCA) | 1.0 U | 1.0 | 0.20 | 1 | 09/17/22 12:33 | |
| 1,1-Dichloroethene (1,1-DCE) | 1.0 U | 1.0 | 0.20 | 1 | 09/17/22 12:33 | |
| Tetrachloroethene (PCE) | 1.0 U | 1.0 | 0.21 | 1 | 09/17/22 12:33 | |
| Trichloroethene (TCE) | 1.0 U | 1.0 | 0.20 | 1 | 09/17/22 12:33 | |
| Vinyl Chloride | 1.0 U | 1.0 | 0.20 | 1 | 09/17/22 12:33 | |
| cis-1,2-Dichloroethene | 1.0 U | 1.0 | 0.23 | 1 | 09/17/22 12:33 | |
| trans-1,2-Dichloroethene | 1.0 U | 1.0 | 0.20 | 1 | 09/17/22 12:33 | |

| Surrogate Name | % Rec | Control Limits | Date Analyzed | Q |
|---|---|---|---|---|
| 4-Bromofluorobenzene | 97 | 85 - 122 | 09/17/22 12:33 | |
| Dibromofluoromethane | 98 | 80 - 116 | 09/17/22 12:33 | |
| Toluene-d8 | 102 | 87 - 121 | 09/17/22 12:33 | |

| | | | |
|---|---|---|---|
| **Client:** | Verina Consulting Group, LLC | **Service Request:** | R2208794 |
| **Project:** | Dover - Kirkwood/5101.0002 | **Date Analyzed:** | 09/17/22 11:38 |
| **Sample Matrix:** | Water | **Date Extracted:** | |

## Lab Control Sample Summary
## Volatile Organic Compounds by GC/MS, Unpreserved

| | | | |
|---|---|---|---|
| **Sample Name:** | Lab Control Sample | **Instrument ID:** | R-MS-10 |
| **Lab Code:** | RQ2211218-03 | **File ID:** | I:\ACQUDATA\msvoa10\data\091722\B5830.D\ |
| **Analysis Method:** | 8260C | **Analysis Lot:** | 777855 |
| **Prep Method:** | EPA 5030C | | |

This Lab Control Sample applies to the following analyses.

| Sample Name | Lab Code | File ID | Date Analyzed |
|---|---|---|---|
| Method Blank | RQ2211218-04 | I:\ACQUDATA\msvoa10\data\091722\B5832.D\ | 09/17/22 12:33 |
| MW7A-091322 | R2208794-002 | I:\ACQUDATA\msvoa10\data\091722\B5833.D\ | 09/17/22 13:06 |
| MP-12-091322 | R2208794-003 | I:\ACQUDATA\msvoa10\data\091722\B5834.D\ | 09/17/22 13:27 |
| MP-11-091322 | R2208794-004 | I:\ACQUDATA\msvoa10\data\091722\B5835.D\ | 09/17/22 13:49 |
| MP5R-091422 | R2208794-010 | I:\ACQUDATA\msvoa10\data\091722\B5836.D\ | 09/17/22 14:11 |

**Client:** Verina Consulting Group, LLC
**Project:** Dover - Kirkwood/5101.0002
**Sample Matrix:** Water

**Service Request:** R2208794
**Date Analyzed:** 09/17/22

## Lab Control Sample Summary
## Volatile Organic Compounds by GC/MS, Unpreserved

**Units:**ug/L
**Basis:**NA

### Lab Control Sample
RQ2211218-03

| Analyte Name | Analytical Method | Result | Spike Amount | % Rec | % Rec Limits |
|---|---|---|---|---|---|
| 1,1,1-Trichloroethane (TCA) | 8260C | 22.2 | 20.0 | 111 | 75-125 |
| 1,1-Dichloroethane (1,1-DCA) | 8260C | 22.9 | 20.0 | 115 | 80-124 |
| 1,1-Dichloroethene (1,1-DCE) | 8260C | 23.6 | 20.0 | 118 | 71-118 |
| Tetrachloroethene (PCE) | 8260C | 20.7 | 20.0 | 103 | 72-125 |
| Trichloroethene (TCE) | 8260C | 21.0 | 20.0 | 105 | 74-122 |
| Vinyl Chloride | 8260C | 19.8 | 20.0 | 99 | 74-159 |
| cis-1,2-Dichloroethene | 8260C | 21.0 | 20.0 | 105 | 80-121 |
| trans-1,2-Dichloroethene | 8260C | 22.4 | 20.0 | 112 | 73-118 |

**Client:** Verina Consulting Group, LLC **Service Request:**R2208794
**Project:** Dover - Kirkwood/5101.0002 **Date Analyzed:**09/17/22 10:30

## Tune Summary
## Volatile Organic Compounds by GC/MS, Unpreserved

**File ID:** I:\ACQUDATA\msvoa10\data\091722\B5828.D\ **Analytical Method:** 8260C
**Instrument ID:** R-MS-10 **Analysis Lot:** 777855

| Target Mass | Relative to Mass | Lower Limit % | Upper Limit % | Relative Abundance % | Raw Abundance | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 24.8 | 54656 | Pass |
| 75 | 95 | 30 | 60 | 56.0 | 123595 | Pass |
| 95 | 95 | 100 | 100 | 100.0 | 220779 | Pass |
| 96 | 95 | 5 | 9 | 6.8 | 15056 | Pass |
| 173 | 174 | 0 | 2 | 1.7 | 2738 | Pass |
| 174 | 95 | 50 | 120 | 73.1 | 161347 | Pass |
| 175 | 174 | 5 | 9 | 7.9 | 12720 | Pass |
| 176 | 174 | 95 | 101 | 97.0 | 156551 | Pass |
| 177 | 176 | 5 | 9 | 6.7 | 10499 | Pass |

| Sample Name | Lab Code | File ID: | Date Analyzed: | Q |
|---|---|---|---|---|
| Continuing Calibration Verification | RQ2211218-02 | I:\ACQUDATA\msvoa10\data\091722\B5829.D\ | 09/17/22 11:03 | |
| Lab Control Sample | RQ2211218-03 | I:\ACQUDATA\msvoa10\data\091722\B5830.D\ | 09/17/22 11:38 | |
| Method Blank | RQ2211218-04 | I:\ACQUDATA\msvoa10\data\091722\B5832.D\ | 09/17/22 12:33 | |
| MW7A-091322 | R2208794-002 | I:\ACQUDATA\msvoa10\data\091722\B5833.D\ | 09/17/22 13:06 | |
| MP-12-091322 | R2208794-003 | I:\ACQUDATA\msvoa10\data\091722\B5834.D\ | 09/17/22 13:27 | |
| MP-11-091322 | R2208794-004 | I:\ACQUDATA\msvoa10\data\091722\B5835.D\ | 09/17/22 13:49 | |
| MP5R-091422 | R2208794-010 | I:\ACQUDATA\msvoa10\data\091722\B5836.D\ | 09/17/22 14:11 | |

**Client:** Verina Consulting Group, LLC **Service Request:**R2208794
**Project:** Dover - Kirkwood/5101.0002 **Date Analyzed:**09/17/22 11:03

**Internal Standard Area and RT SUMMARY**
**Volatile Organic Compounds by GC/MS, Unpreserved**

**File ID:** I:\ACQUDATA\msvoa10\data\091722\B5829.D\ **Lab Code:**RQ2211218-02
**Instrument ID:** R-MS-10 **Analysis Lot:**777855
**Analysis Method:** 8260C **Signal ID:**1

| | | 1,4-Dichlorobenzene-d4 | | 1,4-Difluorobenzene | | Chlorobenzene-d5 | |
|---|---|---|---|---|---|---|---|
| | | **Area** | **RT** | **Area** | **RT** | **Area** | **RT** |
| | **Result ==>** | 367,435 | 11.86 | 790,057 | 6.49 | 721,762 | 9.81 |
| | **Upper Limit ==>** | 734,870 | 12.03 | 1,580,114 | 6.66 | 1,443,524 | 9.98 |
| | **Lower Limit ==>** | 183,718 | 11.69 | 395,029 | 6.32 | 360,881 | 9.64 |
| ***Associated Analyses*** | | | | | | | |
| Lab Control Sample | RQ2211218-03 | 354958 | 11.86 | 814951 | 6.49 | 729701 | 9.81 |
| Method Blank | RQ2211218-04 | 318426 | 11.86 | 766745 | 6.49 | 679204 | 9.81 |
| MW7A-091322 | R2208794-002 | 321011 | 11.86 | 770371 | 6.49 | 687223 | 9.81 |
| MP-12-091322 | R2208794-003 | 305004 | 11.86 | 767255 | 6.49 | 671571 | 9.81 |
| MP-11-091322 | R2208794-004 | 309534 | 11.86 | 739038 | 6.49 | 650223 | 9.81 |
| MP5R-091422 | R2208794-010 | 304751 | 11.86 | 741462 | 6.49 | 664810 | 9.81 |

**ALS Group USA, Corp.**
**dba ALS Environmental**

QA/QC Report

**Client:** Verina Consulting Group, LLC **Service Request:**R2208794
**Project:** Dover - Kirkwood/5101.0002 **Date Analyzed:**09/17/22 11:03

**Internal Standard Area and RT SUMMARY**
**Volatile Organic Compounds by GC/MS, Unpreserved**

**File ID:** I:\ACQUDATA\msvoa10\data\091722\B5829.D\ **Lab Code:**RQ2211218-02
**Instrument ID:** R-MS-10 **Analysis Lot:**777855
**Analysis Method:** 8260C **Signal ID:**1

| | | Pentafluorobenzene | |
|---|---|---|---|
| | | **Area** | **RT** |
| | **Result ==>** | 480,665 | 5.39 |
| | **Upper Limit ==>** | 961,330 | 5.56 |
| | **Lower Limit ==>** | 240,333 | 5.22 |
| ***Associated Analyses*** | | | |
| Lab Control Sample | RQ2211218-03 | 485318 | 5.39 |
| Method Blank | RQ2211218-04 | 448417 | 5.40 |
| MW7A-091322 | R2208794-002 | 460586 | 5.38 |
| MP-12-091322 | R2208794-003 | 439218 | 5.40 |
| MP-11-091322 | R2208794-004 | 429597 | 5.39 |
| MP5R-091422 | R2208794-010 | 436017 | 5.39 |

# Raw Data

**ALS Environmental—Rochester Laboratory**
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

# Volatile Organic Compounds by GC/MS

**ALS Environmental—Rochester Laboratory**
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Verina Consulting Group, LLC | **Service Request:** | R2208794 |
| **Project:** | Dover - Kirkwood/5101.0002 | **Date Collected:** | 09/13/22 17:25 |
| **Sample Matrix:** | Water | **Date Received:** | 09/15/22 09:37 |
| **Sample Name:** | MW7A-091322 | **Units:** | ug/L |
| **Lab Code:** | R2208794-002 | **Basis:** | NA |

## Volatile Organic Compounds by GC/MS, Unpreserved

**Analysis Method:** 8260C
**Prep Method:** EPA 5030C

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Q |
|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane (TCA) | 1.0 U | 1.0 | 0.20 | 1 | 09/17/22 13:06 | |
| 1,1-Dichloroethane (1,1-DCA) | 1.0 U | 1.0 | 0.20 | 1 | 09/17/22 13:06 | |
| 1,1-Dichloroethene (1,1-DCE) | 1.0 U | 1.0 | 0.20 | 1 | 09/17/22 13:06 | |
| Tetrachloroethene (PCE) | **17** | 1.0 | 0.21 | 1 | 09/17/22 13:06 | |
| Trichloroethene (TCE) | 1.0 U | 1.0 | 0.20 | 1 | 09/17/22 13:06 | |
| Vinyl Chloride | 1.0 U | 1.0 | 0.20 | 1 | 09/17/22 13:06 | |
| cis-1,2-Dichloroethene | 1.0 U | 1.0 | 0.23 | 1 | 09/17/22 13:06 | |
| trans-1,2-Dichloroethene | 1.0 U | 1.0 | 0.20 | 1 | 09/17/22 13:06 | |

| Surrogate Name | % Rec | Control Limits | Date Analyzed | Q |
|---|---|---|---|---|
| 4-Bromofluorobenzene | 93 | 85 - 122 | 09/17/22 13:06 | |
| Dibromofluoromethane | 98 | 80 - 116 | 09/17/22 13:06 | |
| Toluene-d8 | 98 | 87 - 121 | 09/17/22 13:06 | |

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Verina Consulting Group, LLC | **Service Request:** | R2208794 |
| **Project:** | Dover - Kirkwood/5101.0002 | **Date Collected:** | 09/13/22 16:55 |
| **Sample Matrix:** | Water | **Date Received:** | 09/15/22 09:37 |
| **Sample Name:** | MP-12-091322 | **Units:** | ug/L |
| **Lab Code:** | R2208794-003 | **Basis:** | NA |

## Volatile Organic Compounds by GC/MS, Unpreserved

**Analysis Method:** 8260C
**Prep Method:** EPA 5030C

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Q |
|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane (TCA) | 10 U | 10 | 2.0 | 10 | 09/17/22 13:27 | |
| 1,1-Dichloroethane (1,1-DCA) | 10 U | 10 | 2.0 | 10 | 09/17/22 13:27 | |
| 1,1-Dichloroethene (1,1-DCE) | 10 U | 10 | 2.0 | 10 | 09/17/22 13:27 | |
| Tetrachloroethene (PCE) | 10 U | 10 | 2.1 | 10 | 09/17/22 13:27 | |
| Trichloroethene (TCE) | 10 U | 10 | 2.0 | 10 | 09/17/22 13:27 | |
| Vinyl Chloride | 10 U | 10 | 2.0 | 10 | 09/17/22 13:27 | |
| cis-1,2-Dichloroethene | 10 U | 10 | 2.3 | 10 | 09/17/22 13:27 | |
| trans-1,2-Dichloroethene | 10 U | 10 | 2.0 | 10 | 09/17/22 13:27 | |

| Surrogate Name | % Rec | Control Limits | Date Analyzed | Q |
|---|---|---|---|---|
| 4-Bromofluorobenzene | 97 | 85 - 122 | 09/17/22 13:27 | |
| Dibromofluoromethane | 100 | 80 - 116 | 09/17/22 13:27 | |
| Toluene-d8 | 103 | 87 - 121 | 09/17/22 13:27 | |

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Verina Consulting Group, LLC | **Service Request:** | R2208794 |
| **Project:** | Dover - Kirkwood/5101.0002 | **Date Collected:** | 09/13/22 17:45 |
| **Sample Matrix:** | Water | **Date Received:** | 09/15/22 09:37 |
| **Sample Name:** | MP-11-091322 | **Units:** | ug/L |
| **Lab Code:** | R2208794-004 | **Basis:** | NA |

## Volatile Organic Compounds by GC/MS, Unpreserved

**Analysis Method:** 8260C
**Prep Method:** EPA 5030C

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Q |
|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane (TCA) | 10 U | 10 | 2.0 | 10 | 09/17/22 13:49 | |
| 1,1-Dichloroethane (1,1-DCA) | 10 U | 10 | 2.0 | 10 | 09/17/22 13:49 | |
| 1,1-Dichloroethene (1,1-DCE) | 10 U | 10 | 2.0 | 10 | 09/17/22 13:49 | |
| Tetrachloroethene (PCE) | 10 U | 10 | 2.1 | 10 | 09/17/22 13:49 | |
| Trichloroethene (TCE) | 10 U | 10 | 2.0 | 10 | 09/17/22 13:49 | |
| Vinyl Chloride | 10 U | 10 | 2.0 | 10 | 09/17/22 13:49 | |
| cis-1,2-Dichloroethene | 10 U | 10 | 2.3 | 10 | 09/17/22 13:49 | |
| trans-1,2-Dichloroethene | 10 U | 10 | 2.0 | 10 | 09/17/22 13:49 | |

| Surrogate Name | % Rec | Control Limits | Date Analyzed | Q |
|---|---|---|---|---|
| 4-Bromofluorobenzene | 100 | 85 - 122 | 09/17/22 13:49 | |
| Dibromofluoromethane | 101 | 80 - 116 | 09/17/22 13:49 | |
| Toluene-d8 | 103 | 87 - 121 | 09/17/22 13:49 | |

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Verina Consulting Group, LLC | **Service Request:** | R2208794 |
| **Project:** | Dover - Kirkwood/5101.0002 | **Date Collected:** | 09/14/22 14:40 |
| **Sample Matrix:** | Water | **Date Received:** | 09/15/22 09:37 |
| **Sample Name:** | MP5R-091422 | **Units:** | ug/L |
| **Lab Code:** | R2208794-010 | **Basis:** | NA |

## Volatile Organic Compounds by GC/MS, Unpreserved

**Analysis Method:** 8260C
**Prep Method:** EPA 5030C

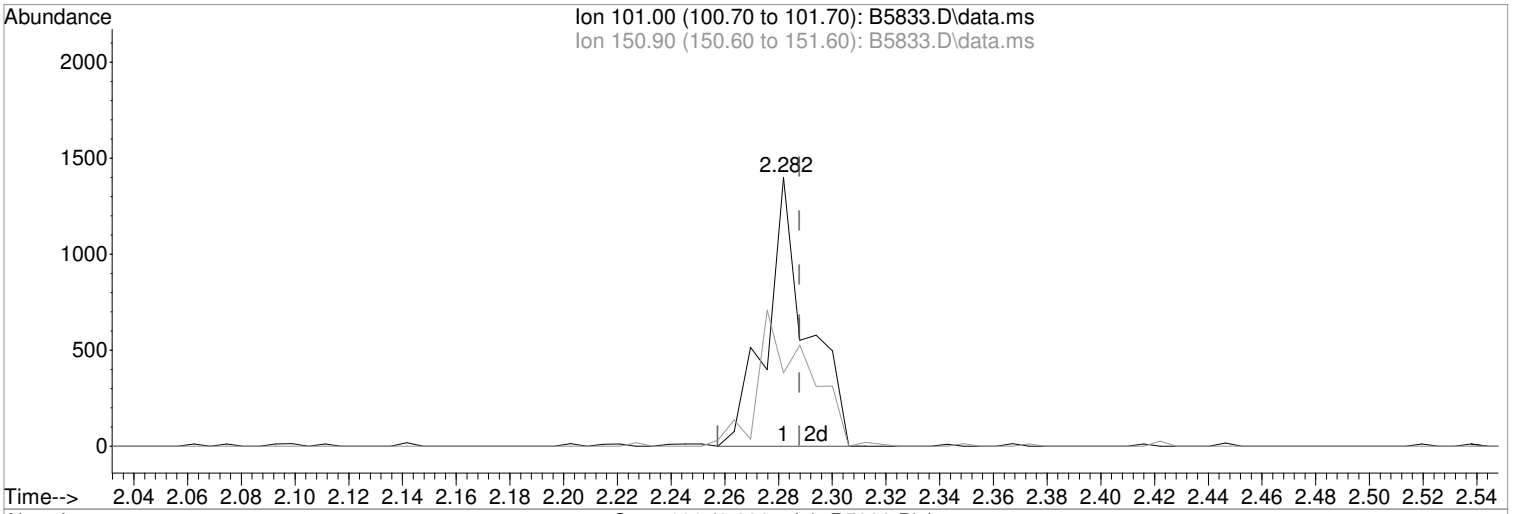
| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Q |
|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane (TCA) | 10 U | 10 | 2.0 | 10 | 09/17/22 14:11 | |
| 1,1-Dichloroethane (1,1-DCA) | 10 U | 10 | 2.0 | 10 | 09/17/22 14:11 | |
| 1,1-Dichloroethene (1,1-DCE) | 10 U | 10 | 2.0 | 10 | 09/17/22 14:11 | |
| Tetrachloroethene (PCE) | 10 U | 10 | 2.1 | 10 | 09/17/22 14:11 | |
| Trichloroethene (TCE) | 10 U | 10 | 2.0 | 10 | 09/17/22 14:11 | |
| Vinyl Chloride | 10 U | 10 | 2.0 | 10 | 09/17/22 14:11 | |
| cis-1,2-Dichloroethene | 10 U | 10 | 2.3 | 10 | 09/17/22 14:11 | |
| trans-1,2-Dichloroethene | 10 U | 10 | 2.0 | 10 | 09/17/22 14:11 | |

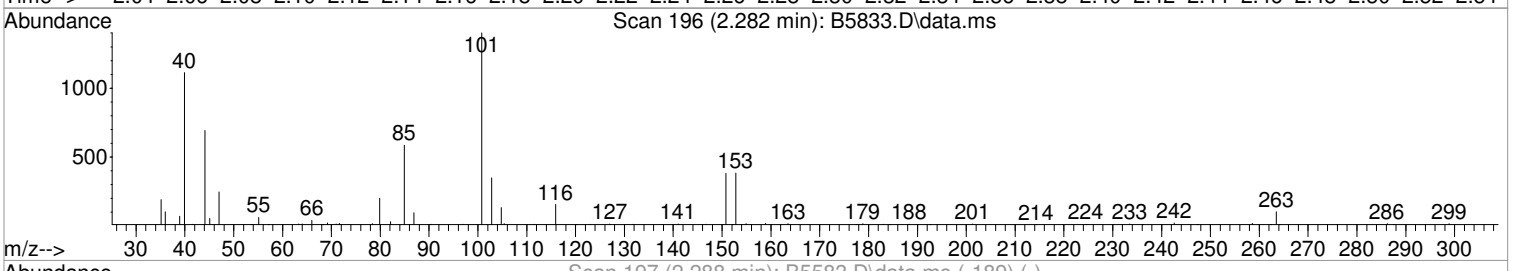
| Surrogate Name | % Rec | Control Limits | Date Analyzed | Q |
|---|---|---|---|---|
| 4-Bromofluorobenzene | 98 | 85 - 122 | 09/17/22 14:11 | |
| Dibromofluoromethane | 105 | 80 - 116 | 09/17/22 14:11 | |
| Toluene-d8 | 105 | 87 - 121 | 09/17/22 14:11 | |

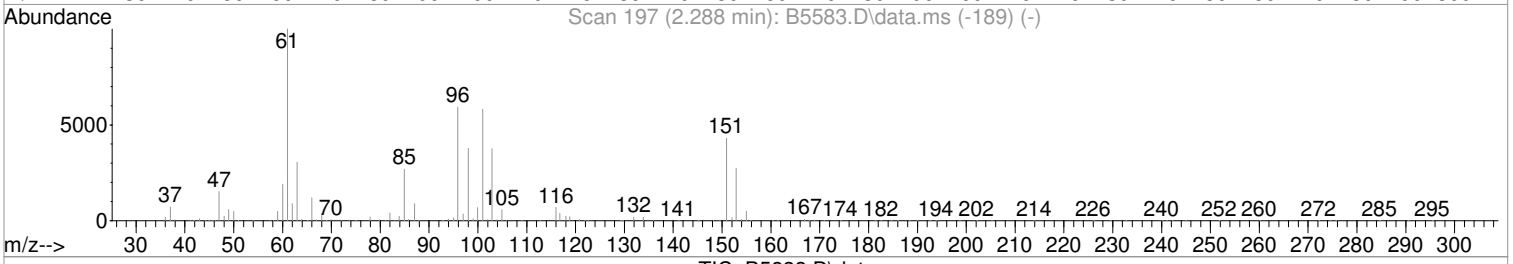
# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091722\
Data File : B5833.D
Acq On : 17 Sep 2022 1:06 pm
Operator : F.NAEGLER
Sample : R2208794-002|1.0 Inst : MSVOA10
Misc : VCG 7979 T4
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 17 13:25:47 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Sep 08 14:38:30 2022
Response via : Initial Calibration




TIC: B5833.D\data.ms

(15) Freon 113 (P)

2.282min (-0.006) 0.33 ug/L m

response 1470

| Ion | Exp% | Act% |
|---|---|---|
| 101.00 | 100 | 100 |
| 150.90 | 74.00 | 27.27# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

After

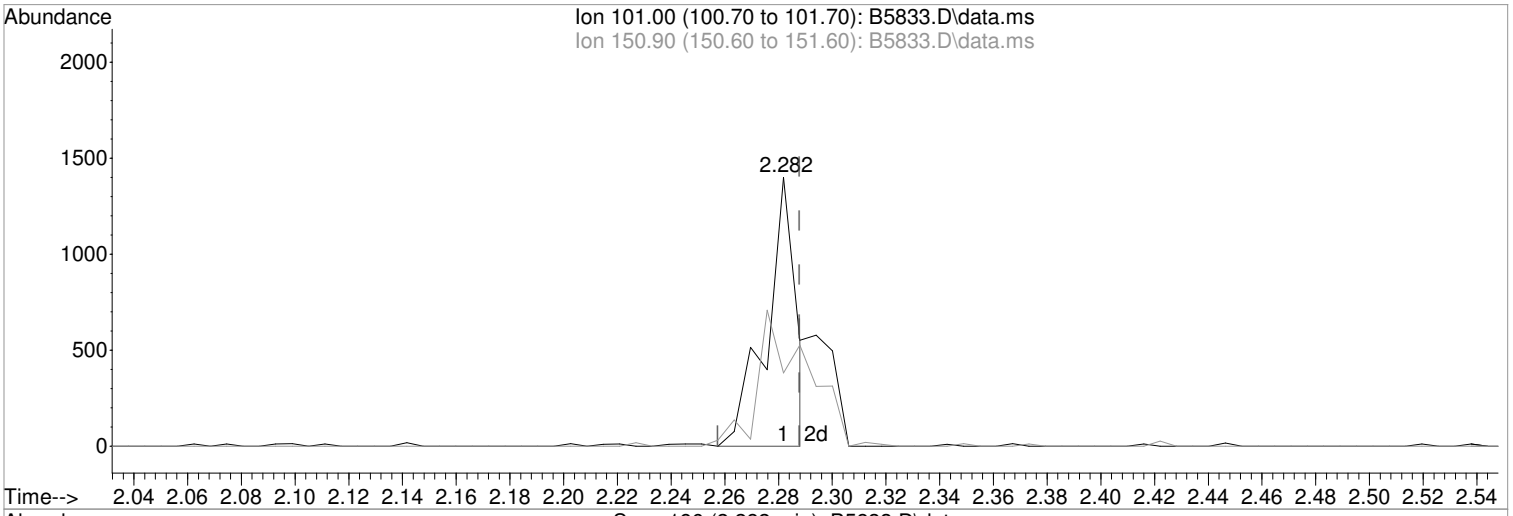
Poor integration.

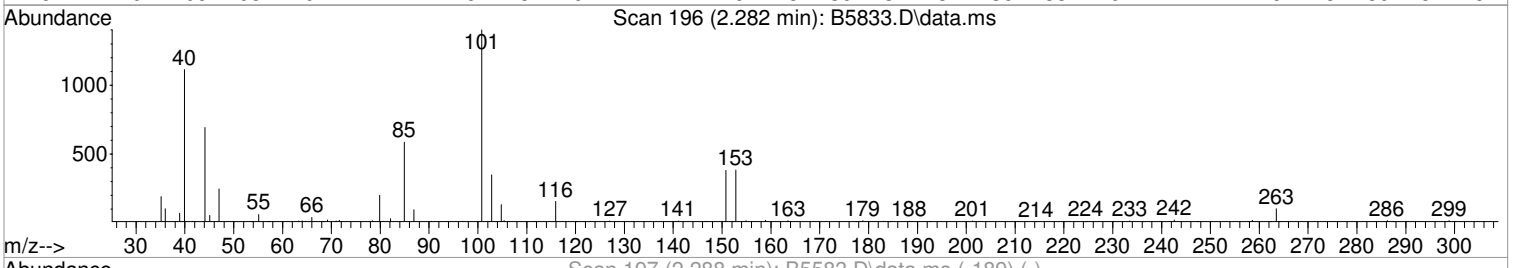
09/19/22

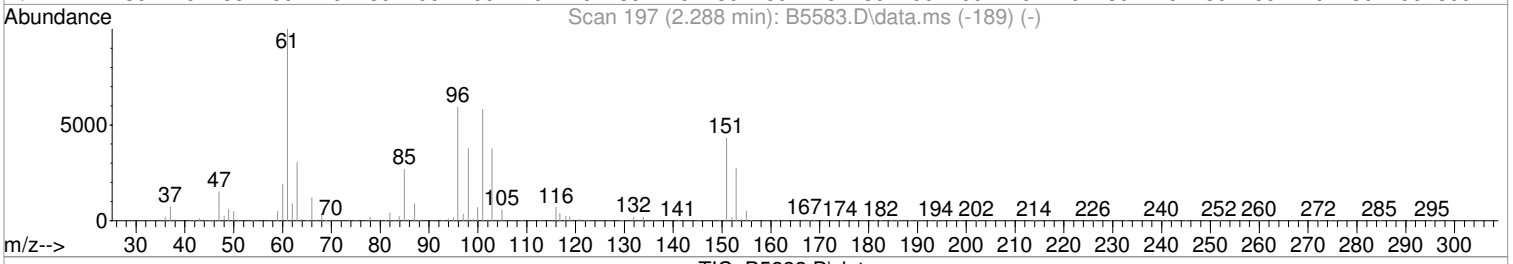
# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091722\
Data File : B5833.D
Acq On : 17 Sep 2022 1:06 pm
Operator : F.NAEGLER
Sample : R2208794-002|1.0 Inst : MSVOA10
Misc : VCG 7979 T4
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 17 13:25:47 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Sep 08 14:38:30 2022
Response via : Initial Calibration




TIC: B5833.D\data.ms

(15) Freon 113 (P)

2.282min (-0.006) 0.24 ug/L

response 1077

| Ion | Exp% | Act% |
|---|---|---|
| 101.00 | 100 | 100 |
| 150.90 | 74.00 | 27.27# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

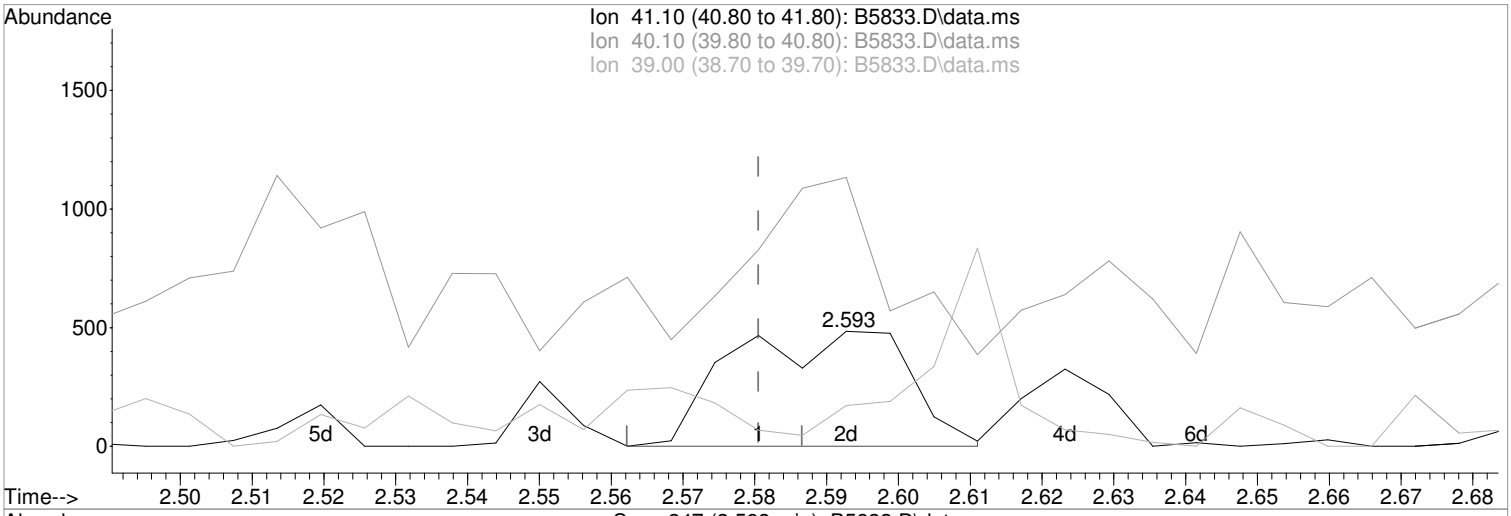
Before

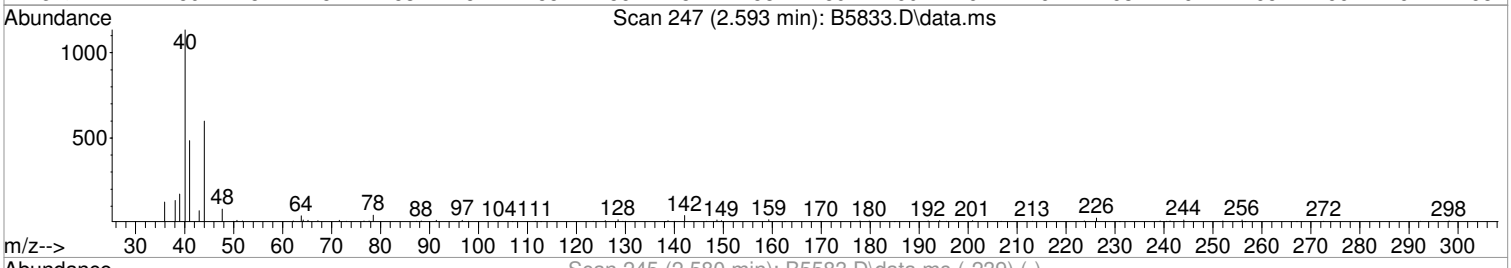
09/19/22

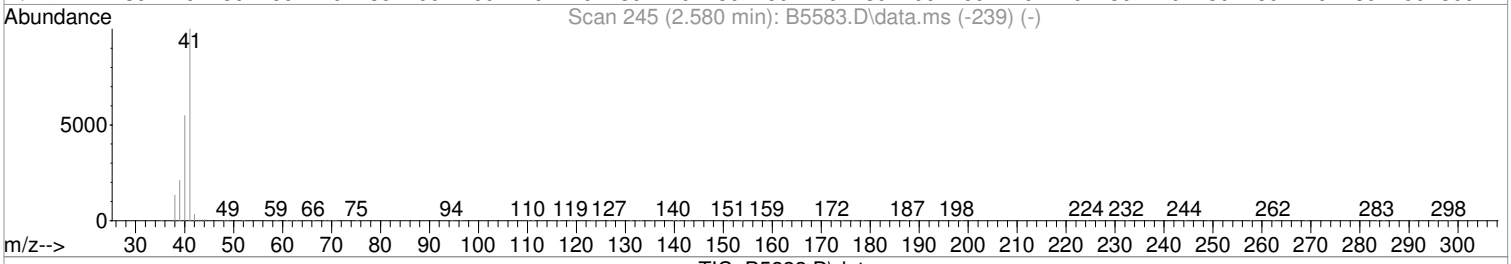
# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091722\
Data File : B5833.D
Acq On : 17 Sep 2022 1:06 pm
Operator : F.NAEGLER
Sample : R2208794-002|1.0 Inst : MSVOA10
Misc : VCG 7979 T4
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 17 13:25:47 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Sep 08 14:38:30 2022
Response via : Initial Calibration




TIC: B5833.D\data.ms

(20) Acetonitrile

2.593min (+0.012) 0.76 ug/L m

response 835

| Ion | Exp% | Act% |
|---|---|---|
| 41.10 | 100 | 100 |
| 40.10 | 55.00 | 234.30# |
| 39.00 | 21.50 | 35.33 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

After

Poor integration.

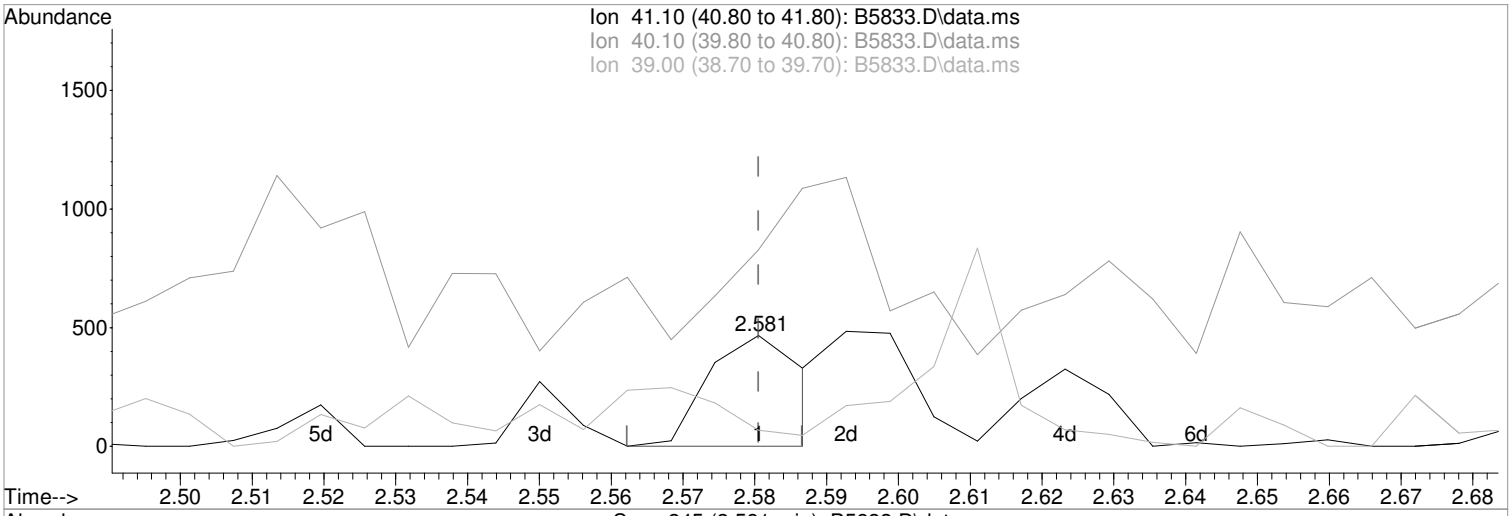
09/19/22

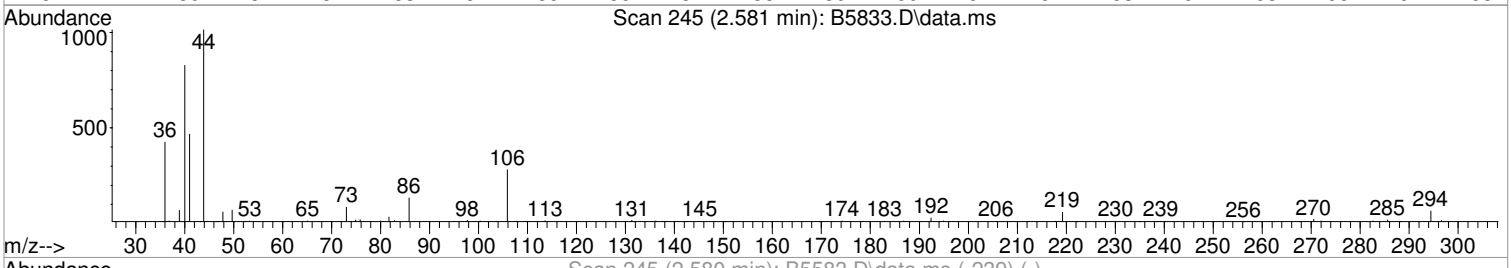
1st FN 09/19/22
2nd 09/21/22

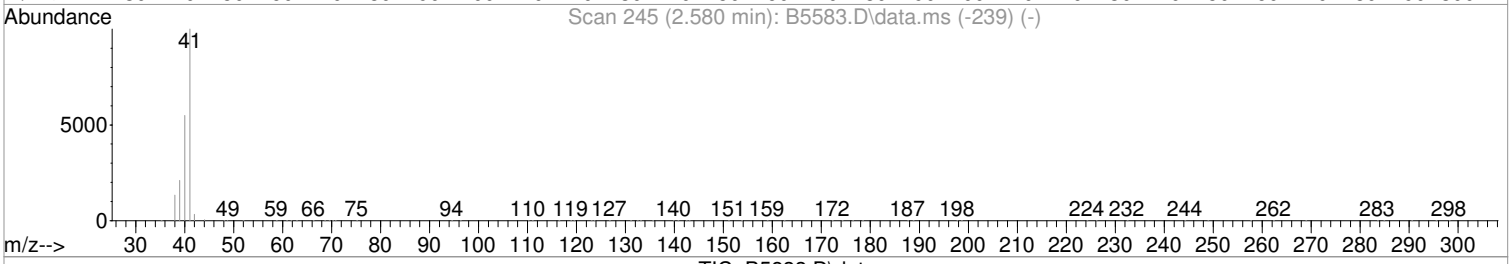
# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091722\
Data File : B5833.D
Acq On : 17 Sep 2022 1:06 pm
Operator : F.NAEGLER
Sample : R2208794-002|1.0 Inst : MSVOA10
Misc : VCG 7979 T4
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 17 13:25:47 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Sep 08 14:38:30 2022
Response via : Initial Calibration




TIC: B5833.D\data.ms

(20) Acetonitrile

2.581min (+0.000) 0.39 ug/L

response 429

| Ion | Exp% | Act% |
|---|---|---|
| 41.10 | 100 | 100 |
| 40.10 | 55.00 | 177.30# |
| 39.00 | 21.50 | 14.56 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

Before

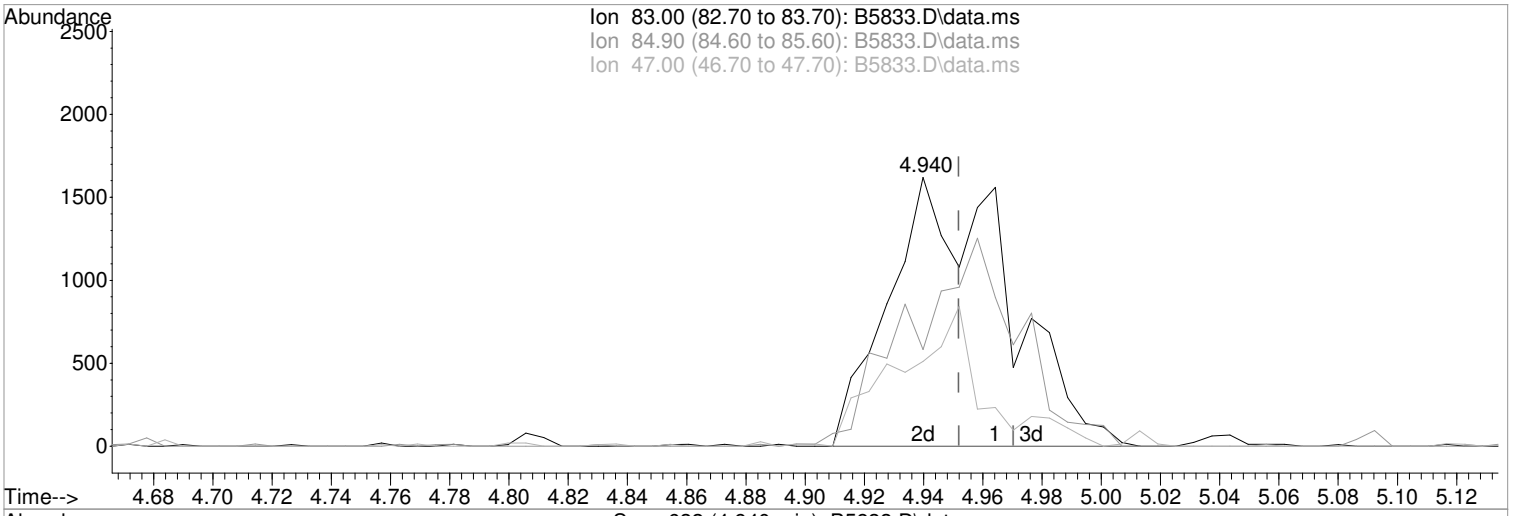
09/19/22

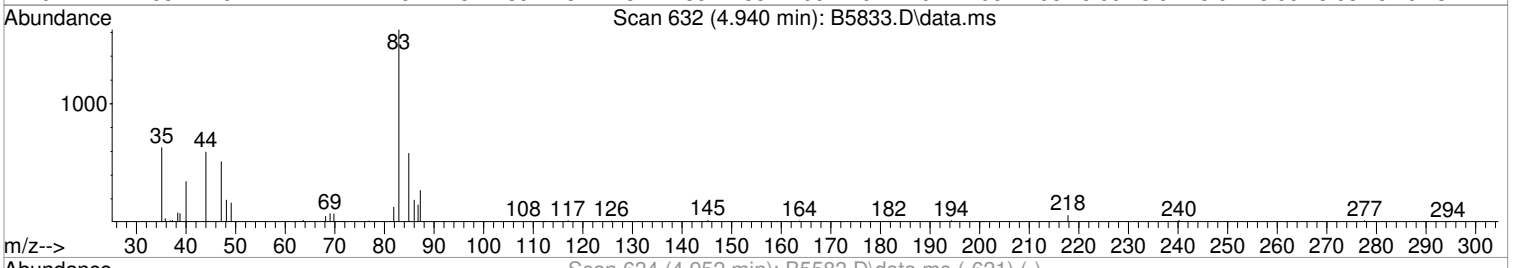
1st FW 09/19/22
2nd WR 09/21/22

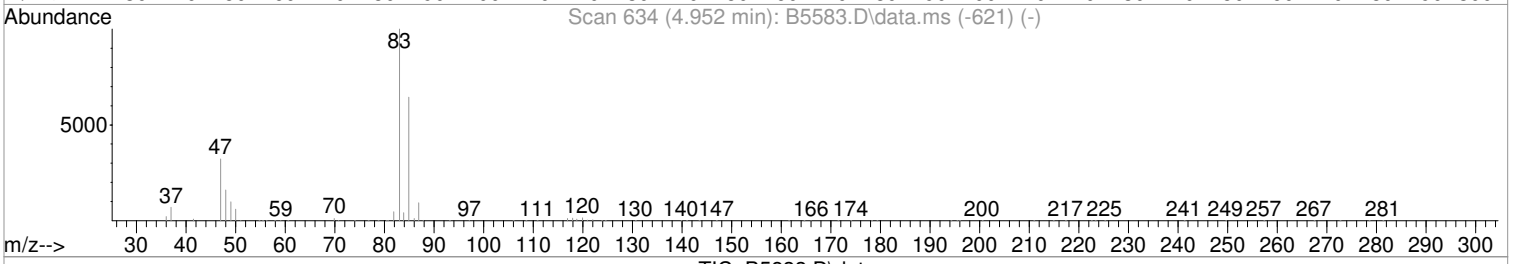
# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091722\
Data File : B5833.D
Acq On : 17 Sep 2022 1:06 pm
Operator : F.NAEGLER
Sample : R2208794-002|1.0 Inst : MSVOA10
Misc : VCG 7979 T4
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 17 13:25:47 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Sep 08 14:38:30 2022
Response via : Initial Calibration




TIC: B5833.D\data.ms

(40) Chloroform (P)

4.940min (-0.012) 0.52 ug/L m

response 4541

| Ion | Exp% | Act% |
|---|---|---|
| 83.00 | 100 | 100 |
| 84.90 | 64.40 | 35.90# |
| 47.00 | 32.20 | 31.59 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

After

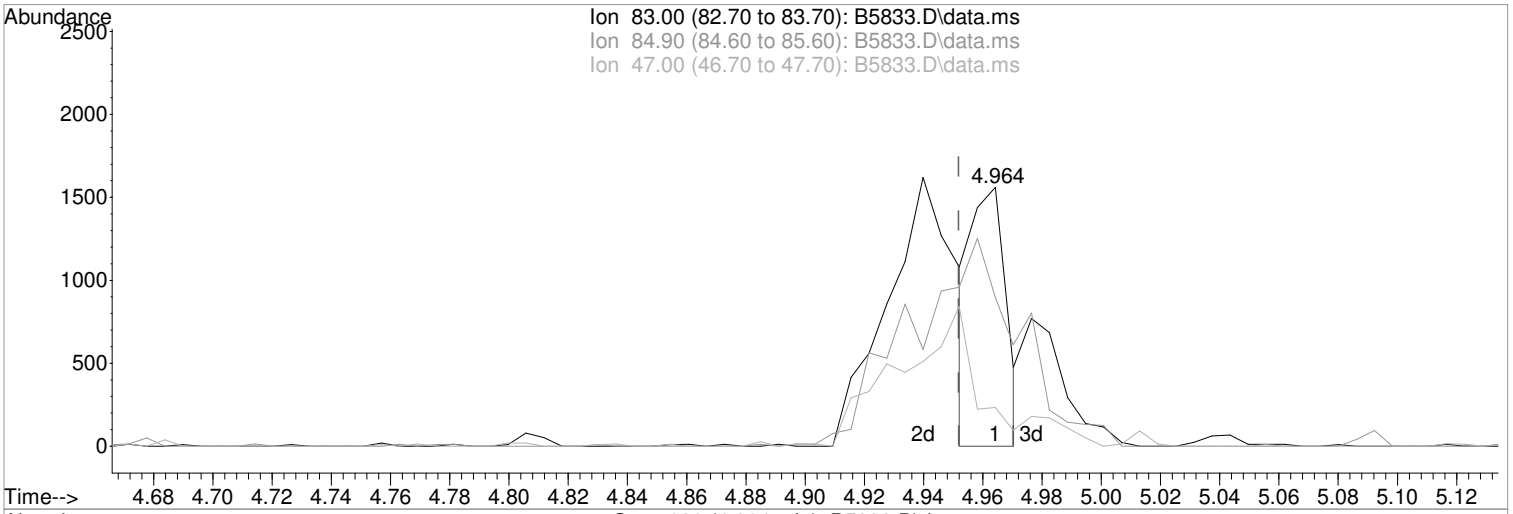
Poor integration.

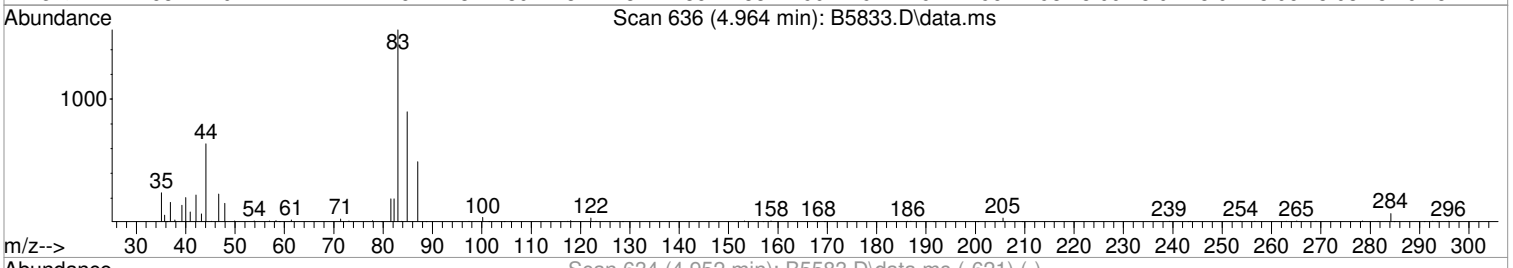
09/19/22

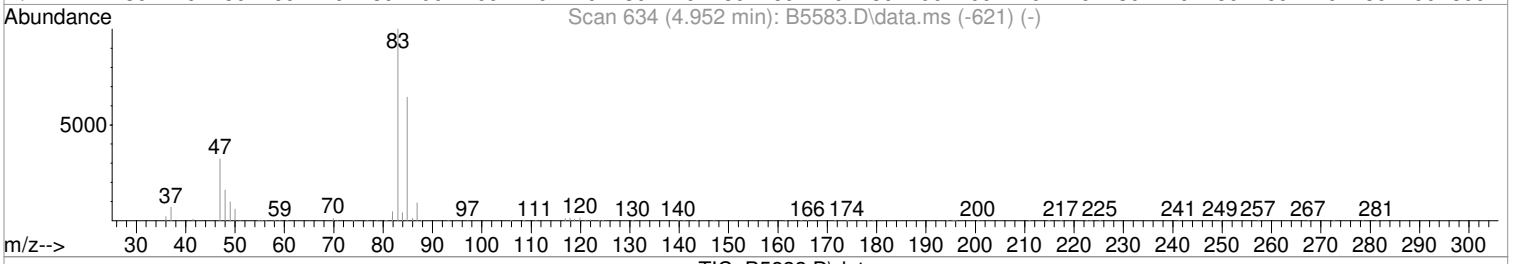
# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091722\
Data File : B5833.D
Acq On : 17 Sep 2022 1:06 pm
Operator : F.NAEGLER
Sample : R2208794-002|1.0 Inst : MSVOA10
Misc : VCG 7979 T4
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 17 13:25:47 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Sep 08 14:38:30 2022
Response via : Initial Calibration




TIC: B5833.D\data.ms

(40) Chloroform (P)

4.964min (+0.012) 0.15 ug/L

response 1270

| Ion | Exp% | Act% |
|---|---|---|
| 83.00 | 100 | 100 |
| 84.90 | 64.40 | 57.50 |
| 47.00 | 32.20 | 14.94 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

Before

09/19/22

# Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\091722\
Data File : B5833.D
Acq On : 17 Sep 2022 1:06 pm
Operator : F.NAEGLER
Sample : R2208794-002|1.0 Inst : MSVOA10
Misc : VCG 7979 T4
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 19 17:10:04 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Sep 08 14:38:30 2022
Response via : Initial Calibration

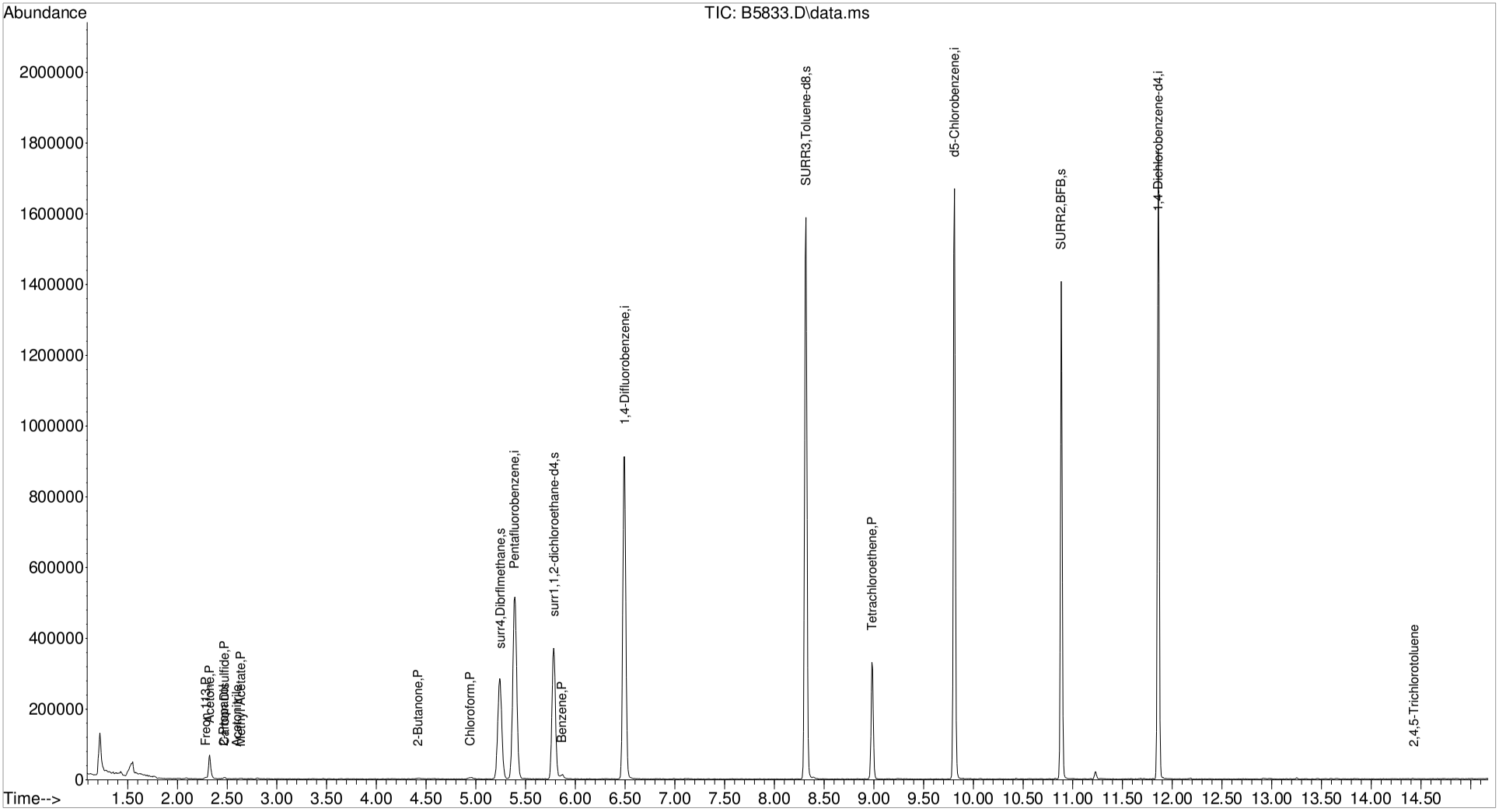
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.385 | 168 | 460586 | 50.00 | ug/L | -0.01 |
| 42) 1,4-Difluorobenzene | 6.494 | 114 | 770371 | 50.00 | ug/L | 0.00 |
| 71) d5-Chlorobenzene | 9.811 | 117 | 687223 | 50.00 | ug/L | 0.00 |
| 91) 1,4-Dichlorobenzene-d4 | 11.859 | 152 | 321011 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 44) surr4,Dibrflmethane | 5.245 | 113 | 241398 | 49.00 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 116 | | Recovery = 98.00% | | | |
| 47) surr1,1,2-dichloroetha... | 5.781 | 65 | 319981 | 50.59 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 73 - 125 | | Recovery = 101.18% | | | |
| 65) SURR3,Toluene-d8 | 8.317 | 98 | 923806 | 49.21 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 87 - 121 | | Recovery = 98.42% | | | |
| 70) SURR2,BFB | 10.884 | 95 | 330227 | 46.70 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 85 - 122 | | Recovery = 93.40% | | | |
| Target Compounds | | | | | | Qvalue |
| 6) Bromomethane | 1.581 | 94 | 1344 | Below Cal | | 98 |
| 15) Freon 113 | 2.282 | 101 | 1470m | 0.33 | ug/L | |
| 16) Acetone | 2.324 | 43 | 70980 | 26.07 | ug/L | 96 |
| 17) 2-Propanol | 2.465 | 45 | 558 | 1.14 | ug/L # | 60 |
| 19) Carbon Disulfide | 2.471 | 76 | 3200 | 0.27 | ug/L | 94 |
| 20) Acetonitrile | 2.593 | 41 | 835m | 0.76 | ug/L | |
| 22) Methyl Acetate | 2.635 | 43 | 1931 | 0.29 | ug/L | 91 |
| 35) 2-Butanone | 4.416 | 43 | 6359 | 1.40 | ug/L | 95 |
| 40) Chloroform | 4.940 | 83 | 4541m | 0.52 | ug/L | |
| 48) Benzene | 5.860 | 78 | 9610 | 0.53 | ug/L | 84 |
| 72) Tetrachloroethene | 8.982 | 164 | 58615 | 16.96 | ug/L | 97 |
| 119) 2,4,5-Trichlorotoluene | 14.426 | 159 | 515 | 0.83 | ug/L # | 66 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

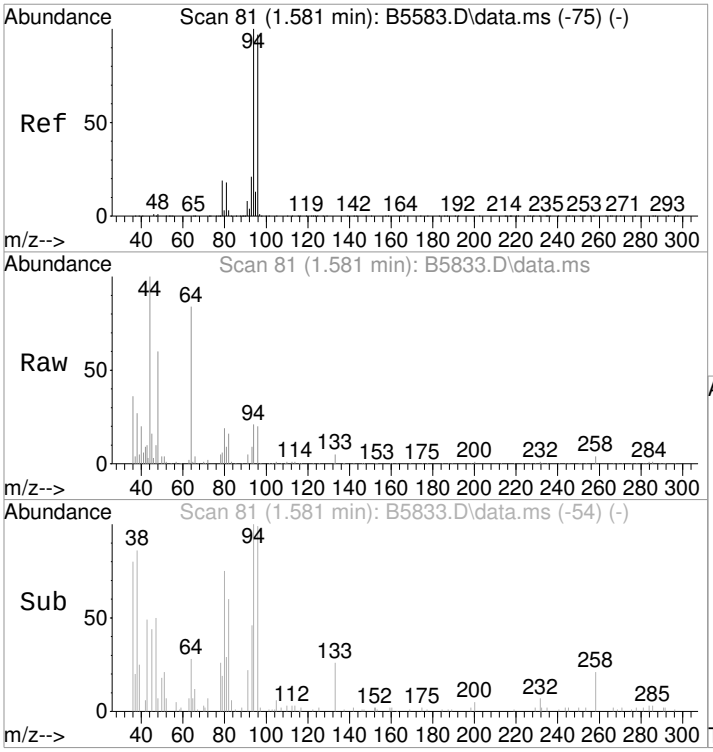
Data Path : I:\ACQUDATA\msvoa10\data\091722\
Data File : B5833.D
Acq On : 17 Sep 2022 1:06 pm
Operator : F.NAEGLER
Sample : R2208794-002|1.0 Inst : MSVOA10
Misc : VCG 7979 T4
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 19 17:10:04 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Sep 08 14:38:30 2022
Response via : Initial Calibration





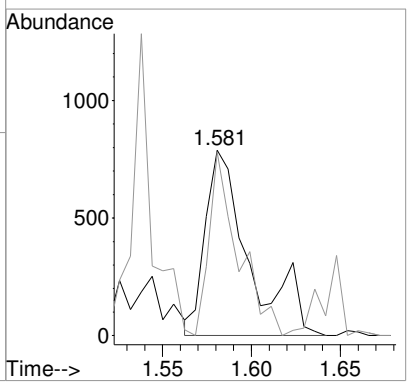

1st FN 09/19/22
2nd 09/21/22

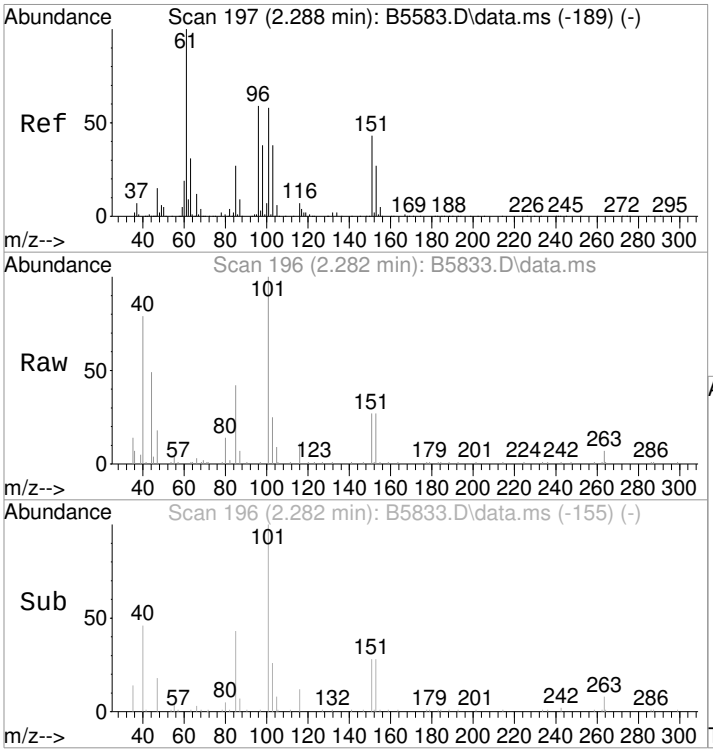



#6
Bromomethane
Concen: Below Cal
RT: 1.581 min Scan# 81
Delta R.T. 0.001 min
Lab File: B5833.D
Acq: 17 Sep 2022 1:06 pm

Tgt Ion: 94 Resp: 1344

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 99.0 | 77.0 | 117.0 |

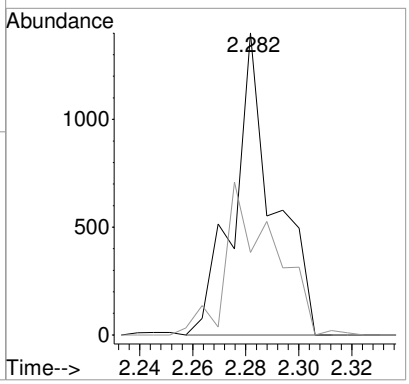


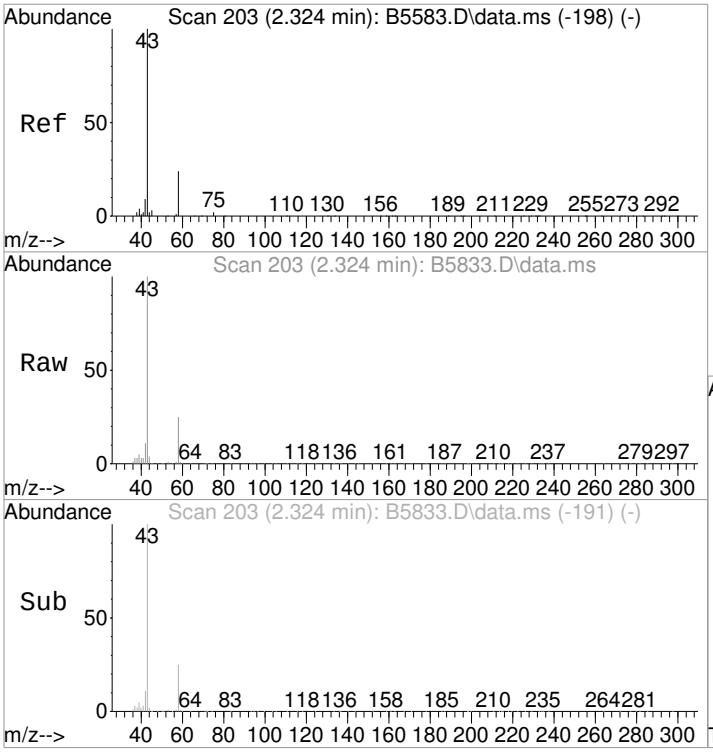




#15
Freon 113
Concen: 0.33 ug/L m
RT: 2.282 min Scan# 196
Delta R.T. -0.006 min
Lab File: B5833.D
Acq: 17 Sep 2022 1:06 pm

Tgt Ion:101 Resp: 1470

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 151 | 27.3 | 54.0 | 94.0# |

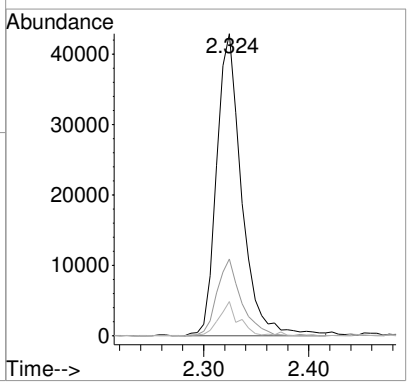


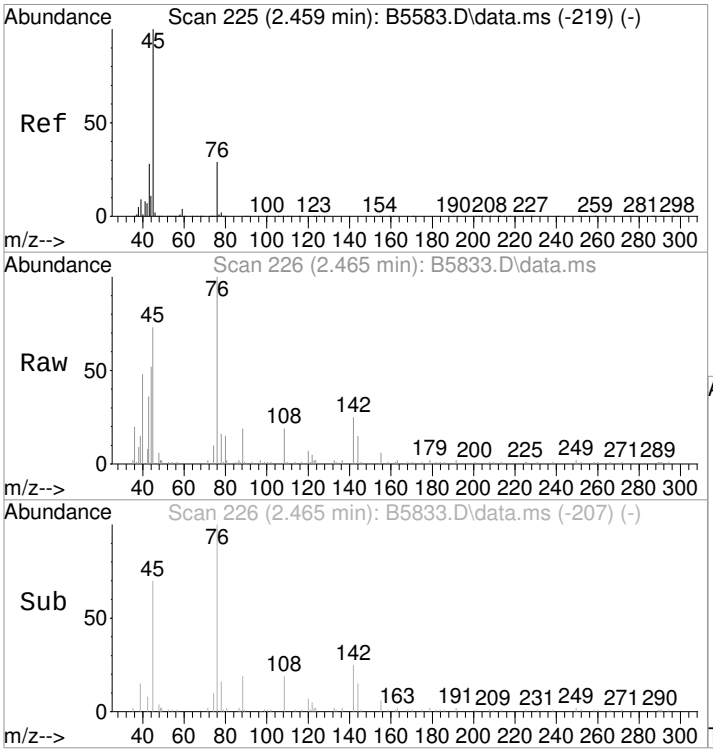



#16
Acetone
Concen: 26.07 ug/L
RT: 2.324 min Scan# 203
Delta R.T. 0.000 min
Lab File: B5833.D
Acq: 17 Sep 2022 1:06 pm

Tgt Ion: 43 Resp: 70980

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 25.3 | 3.7 | 43.7 |
| 42 | 11.3 | 0.0 | 28.6 |

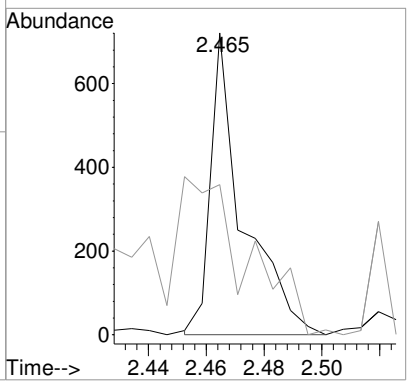


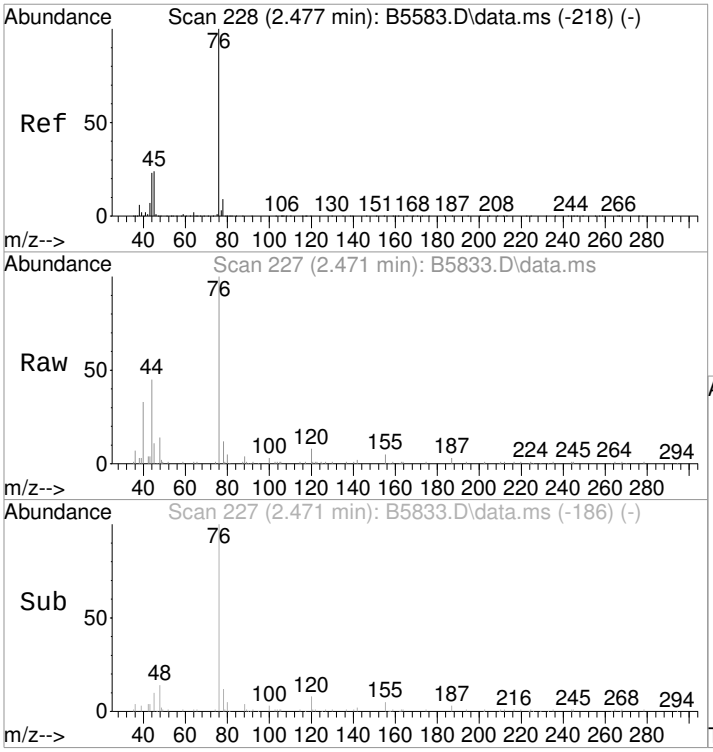




#17
2-Propanol
Concen: 1.14 ug/L
RT: 2.465 min Scan# 226
Delta R.T. 0.006 min
Lab File: B5833.D
Acq: 17 Sep 2022 1:06 pm

Tgt Ion: 45 Resp: 558

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 49.8 | 8.4 | 48.4# |

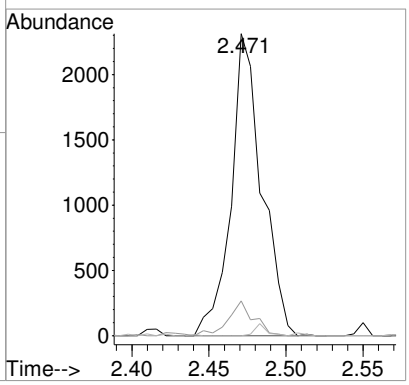


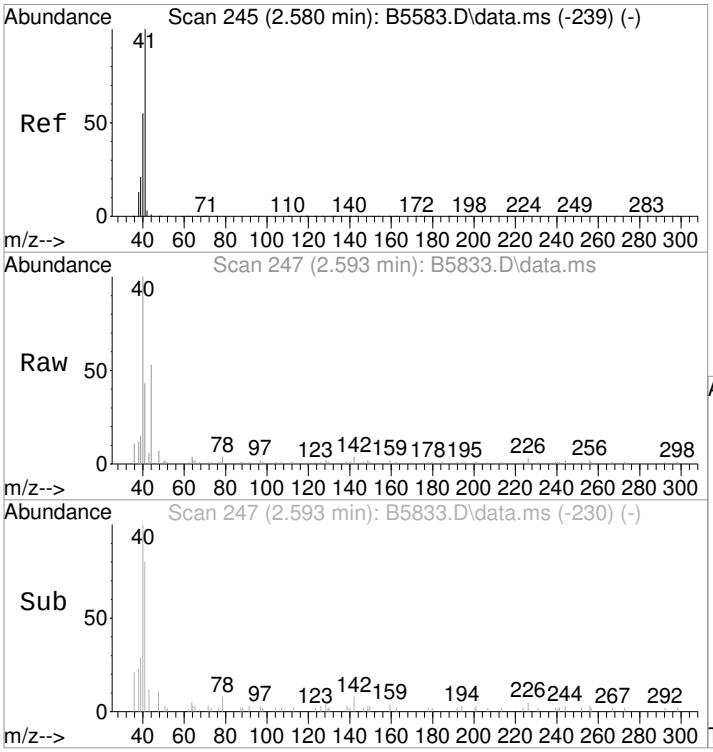



#19
Carbon Disulfide
Concen: 0.27 ug/L
RT: 2.471 min Scan# 227
Delta R.T. -0.006 min
Lab File: B5833.D
Acq: 17 Sep 2022 1:06 pm

Tgt Ion: 76 Resp: 3200

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 11.5 | 0.0 | 29.3 |
| 77 | 0.0 | 0.0 | 22.6 |

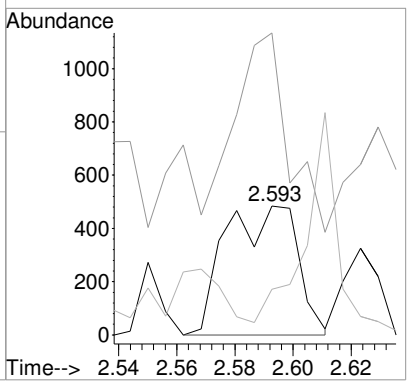


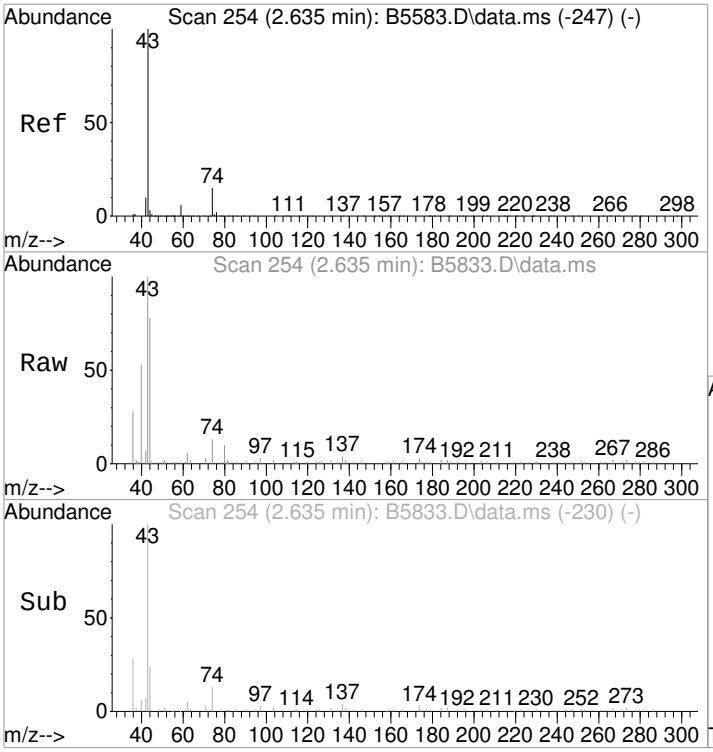




#20
Acetonitrile
Concen: 0.76 ug/L m
RT: 2.593 min Scan# 247
Delta R.T. 0.012 min
Lab File: B5833.D
Acq: 17 Sep 2022 1:06 pm

Tgt Ion: 41 Resp: 835

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 40 | 234.3 | 35.0 | 75.0# |
| 39 | 35.3 | 1.5 | 41.5 |

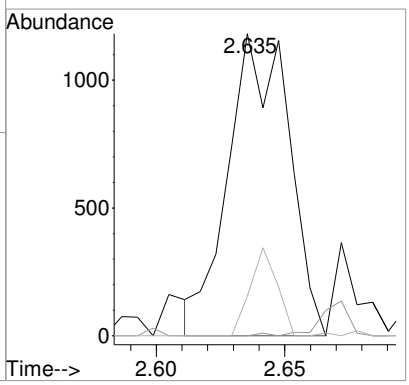


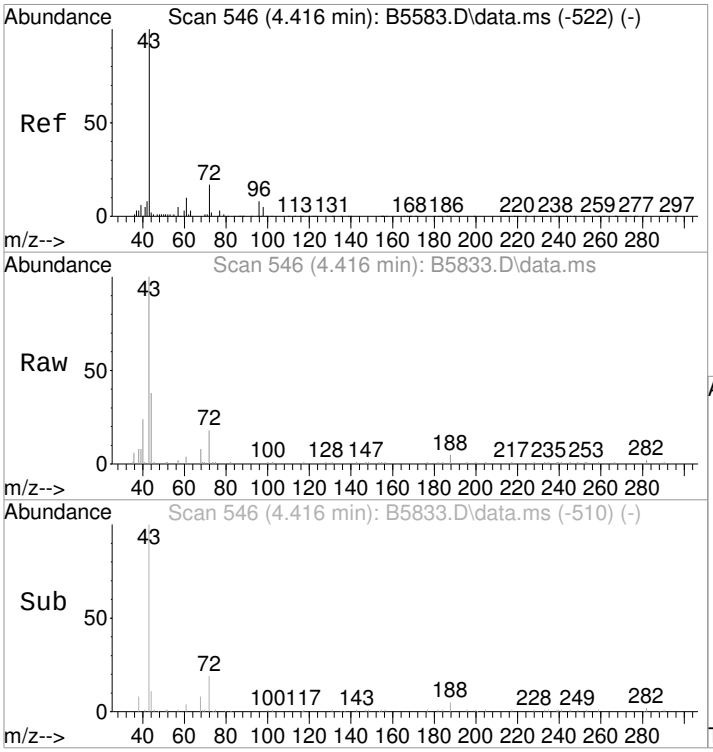



#22
Methyl Acetate
Concen: 0.29 ug/L
RT: 2.635 min Scan# 254
Delta R.T. 0.000 min
Lab File: B5833.D
Acq: 17 Sep 2022 1:06 pm

Tgt Ion: 43 Resp: 1931

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 59 | 0.0 | 0.0 | 26.1 |
| 74 | 13.0 | 0.0 | 35.3 |

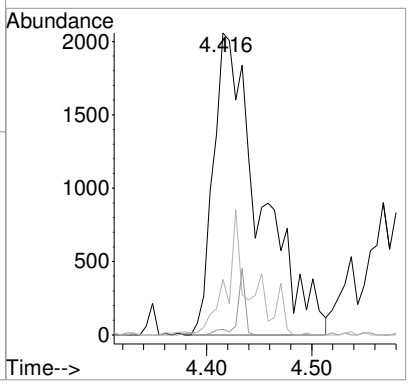


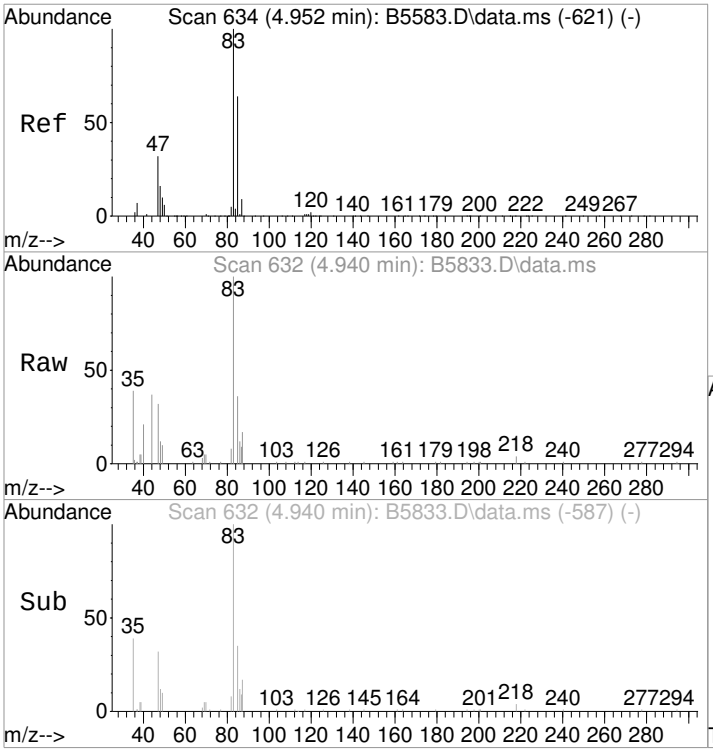




#35
2-Butanone
Concen: 1.40 ug/L
RT: 4.416 min Scan# 546
Delta R.T. 0.000 min
Lab File: B5833.D
Acq: 17 Sep 2022 1:06 pm

Tgt Ion: 43 Resp: 6359

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 1.8 | 0.0 | 25.3 |
| 72 | 18.4 | 0.0 | 36.8 |

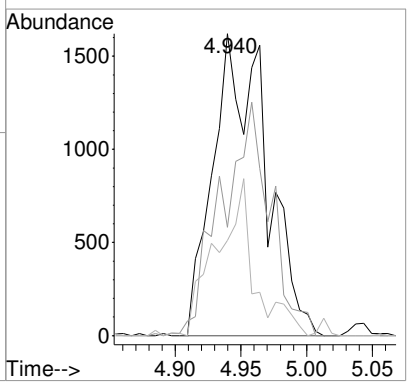


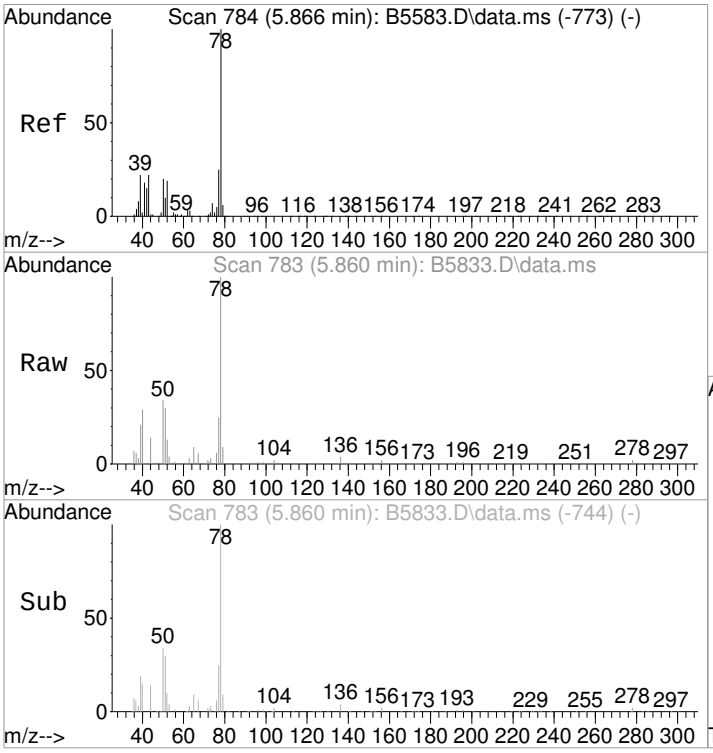



#40
Chloroform
Concen: 0.52 ug/L m
RT: 4.940 min Scan# 632
Delta R.T. -0.012 min
Lab File: B5833.D
Acq: 17 Sep 2022 1:06 pm

Tgt Ion: 83 Resp: 4541

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 35.9 | 44.4 | 84.4# |
| 47 | 31.6 | 12.2 | 52.2 |

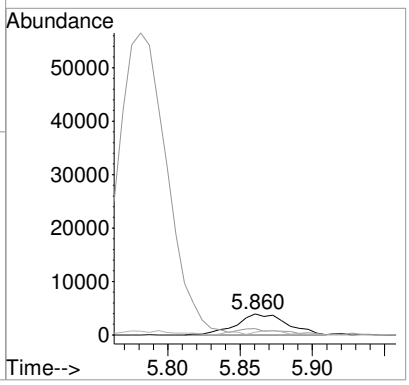


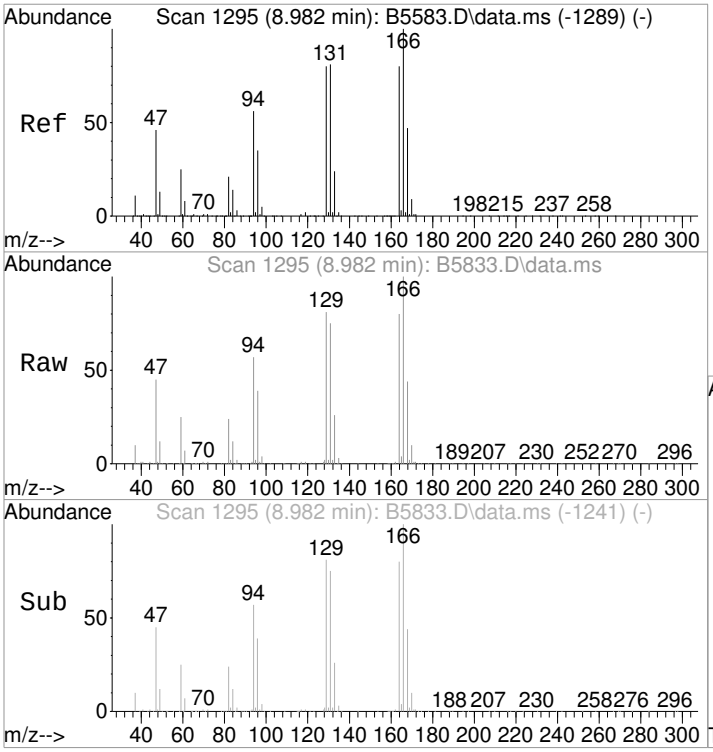




#48
Benzene
Concen: 0.53 ug/L
RT: 5.860 min Scan# 783
Delta R.T. -0.006 min
Lab File: B5833.D
Acq: 17 Sep 2022 1:06 pm

Tgt Ion: 78 Resp: 9610

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 51 | 30.1 | 1.4 | 41.4 |
| 52 | 13.2 | 0.0 | 39.7 |

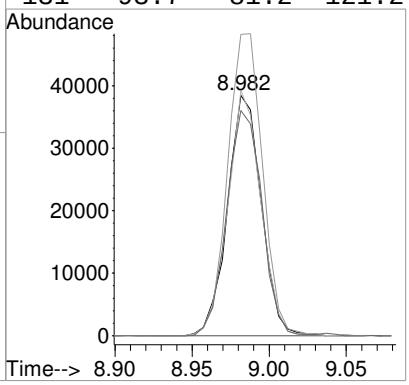


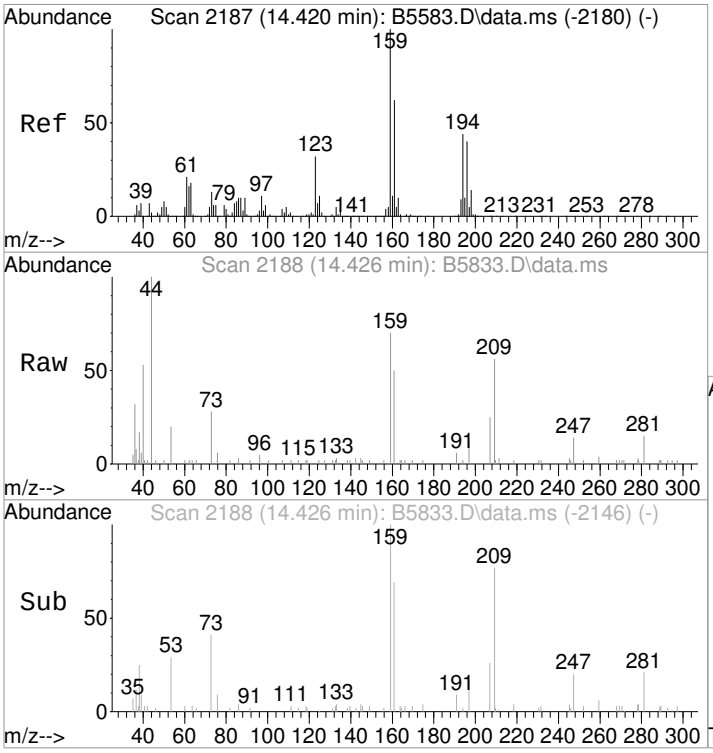



#72
Tetrachloroethene
Concen: 16.96 ug/L
RT: 8.982 min Scan# 1295
Delta R.T. 0.000 min
Lab File: B5833.D
Acq: 17 Sep 2022 1:06 pm

Tgt Ion:164 Resp: 58615

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 125.4 | 105.4 | 145.4 |
| 129 | 102.0 | 80.2 | 120.2 |
| 131 | 93.7 | 81.2 | 121.2 |

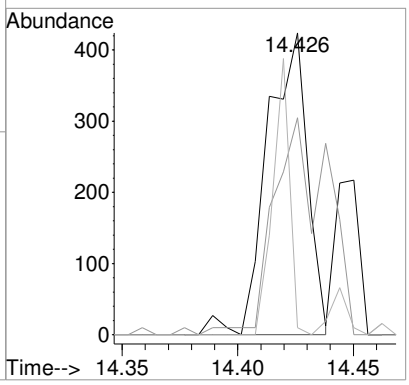



#119
2,4,5-Trichlorotoluene
Concen: 0.83 ug/L
RT: 14.426 min Scan# 2188
Delta R.T. 0.007 min
Lab File: B5833.D
Acq: 17 Sep 2022 1:06 pm

Tgt Ion:159 Resp: 515

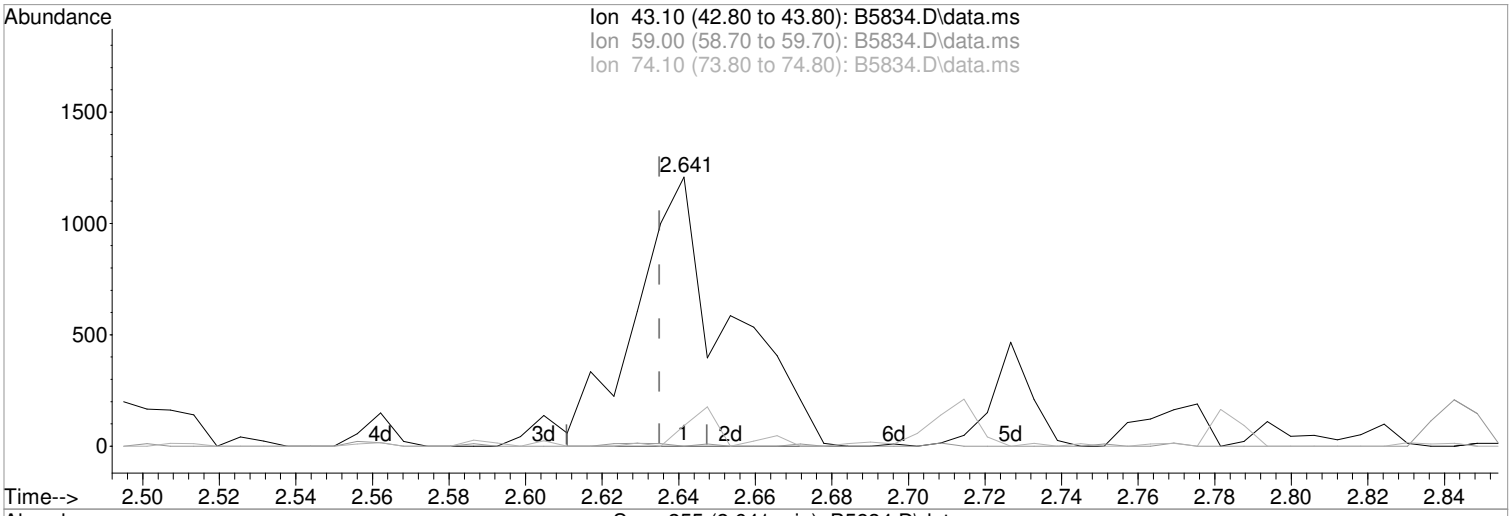
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 159 | 100 | | |
| 161 | 71.9 | 42.3 | 82.3 |
| 194 | 2.4 | 24.1 | 64.1# |

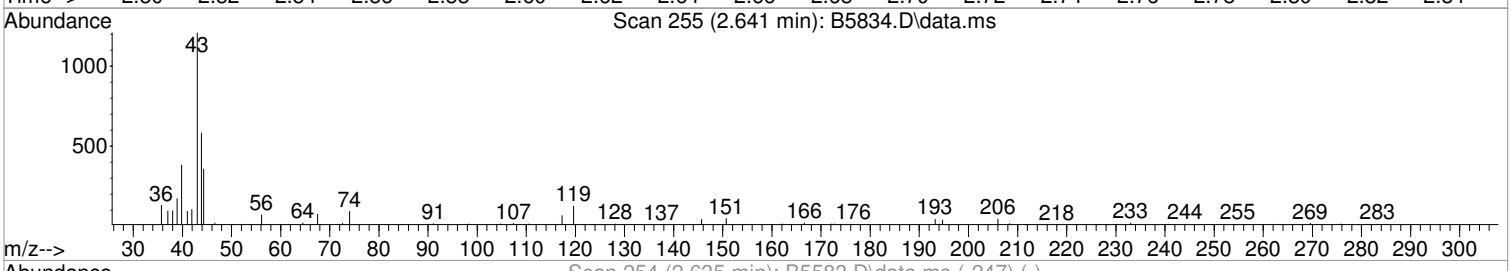


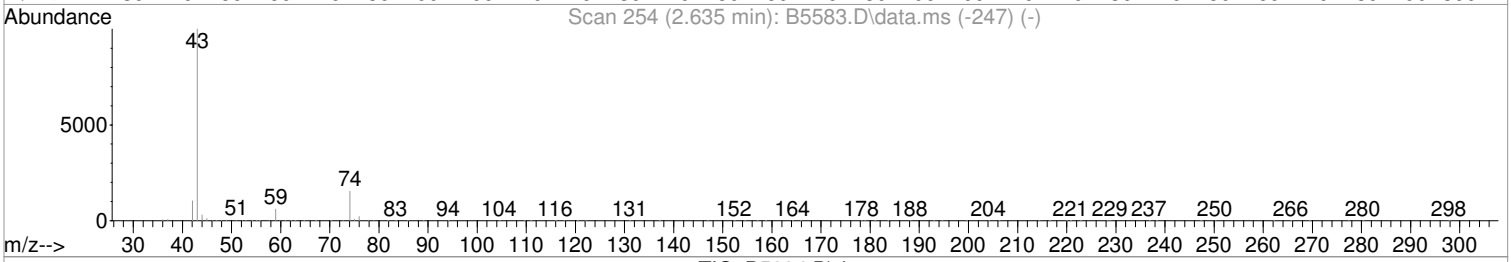
# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091722\
Data File : B5834.D
Acq On : 17 Sep 2022 1:27 pm
Operator : F.NAEGLER
Sample : R2208794-003|10.0 Inst : MSVOA10
Misc : VCG 7979 T4
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 17 14:17:36 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Sep 08 14:38:30 2022
Response via : Initial Calibration




TIC: B5834.D\data.ms

(22) Methyl Acetate (P)

2.641min (+0.006) 0.32 ug/L m

response 2017

| Ion | Exp% | Act% |
|---|---|---|
| 43.10 | 100 | 100 |
| 59.00 | 6.10 | 0.00 |
| 74.10 | 15.30 | 7.62 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

After

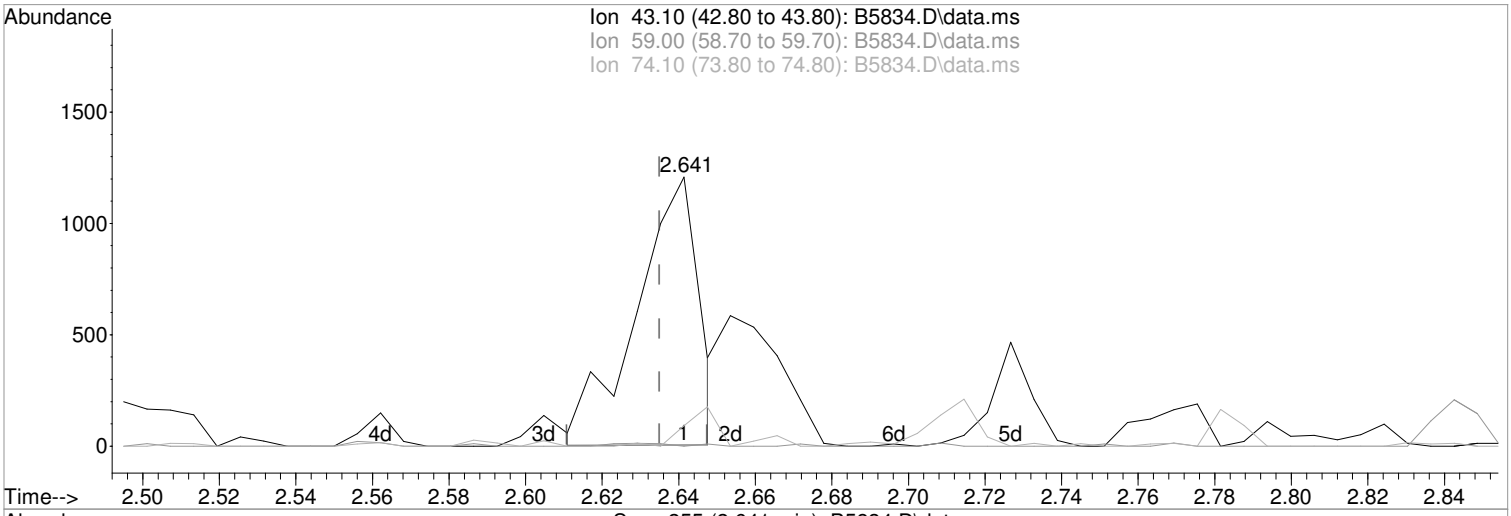
Poor integration.

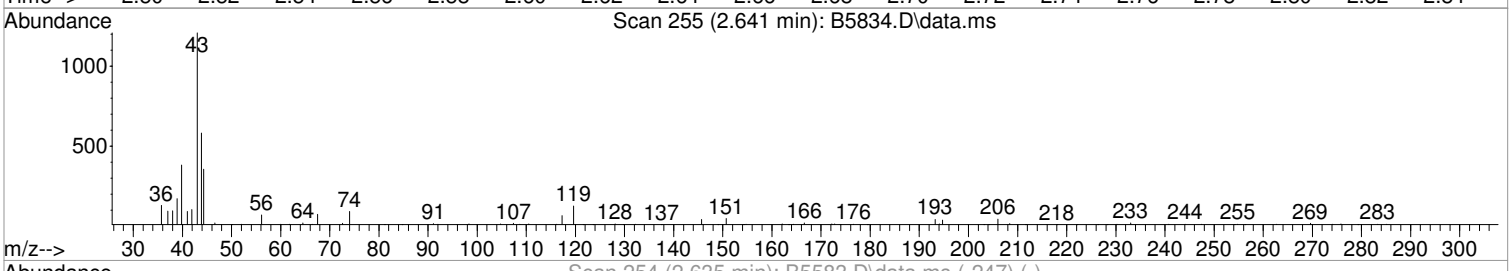
09/19/22

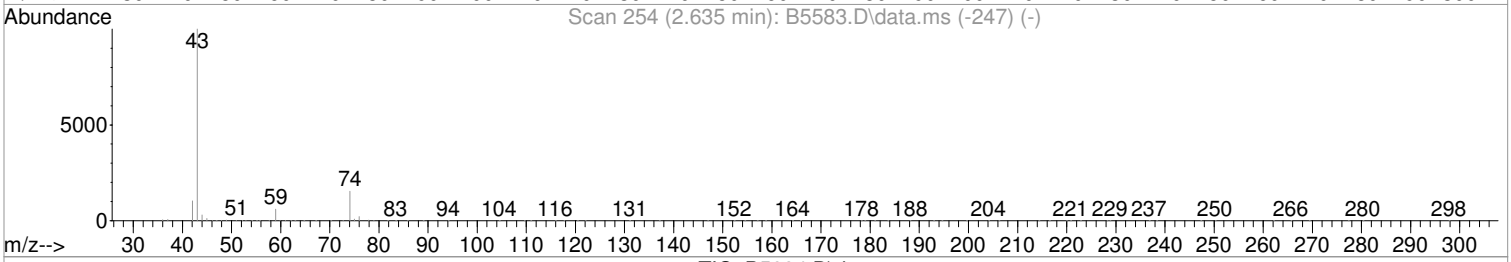
# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091722\
Data File : B5834.D
Acq On : 17 Sep 2022 1:27 pm
Operator : F.NAEGLER
Sample : R2208794-003|10.0 Inst : MSVOA10
Misc : VCG 7979 T4
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 17 14:17:36 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Sep 08 14:38:30 2022
Response via : Initial Calibration




TIC: B5834.D\data.ms

(22) Methyl Acetate (P)

2.641min (+0.006) 0.22 ug/L

response 1368

| Ion | Exp% | Act% |
|---|---|---|
| 43.10 | 100 | 100 |
| 59.00 | 6.10 | 0.00 |
| 74.10 | 15.30 | 7.62 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

Before

09/19/22

# Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\091722\
Data File : B5834.D
Acq On : 17 Sep 2022 1:27 pm
Operator : F.NAEGLER
Sample : R2208794-003|10.0 Inst : MSVOA10
Misc : VCG 7979 T4
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 19 17:12:05 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Sep 08 14:38:30 2022
Response via : Initial Calibration

dark matrix

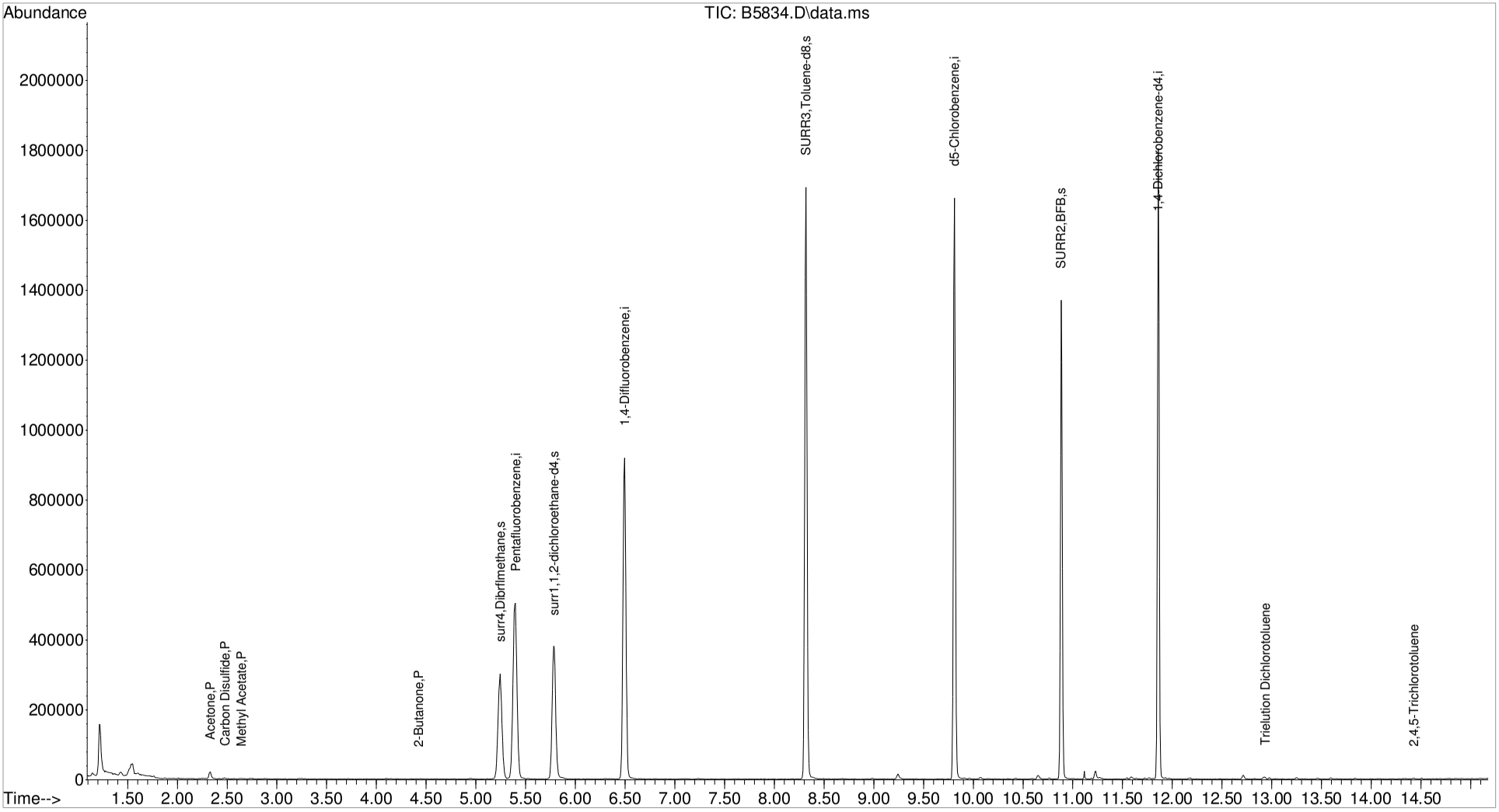
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Pentafluorobenzene | 5.397 | 168 | 439218 | 50.00 | ug/L | | 0.00 |
| 42) 1,4-Difluorobenzene | 6.494 | 114 | 767255 | 50.00 | ug/L | | 0.00 |
| 71) d5-Chlorobenzene | 9.811 | 117 | 671571 | 50.00 | ug/L | | 0.00 |
| 91) 1,4-Dichlorobenzene-d4 | 11.859 | 152 | 305004 | 50.00 | ug/L | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 44) surr4,Dibrflmethane | 5.244 | 113 | 245226 | 49.98 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 116 | | Recovery = 99.96% | | | | |
| 47) surr1,1,2-dichloroetha... | 5.787 | 65 | 334298 | 53.06 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 73 - 125 | | Recovery = 106.12% | | | | |
| 65) SURR3,Toluene-d8 | 8.317 | 98 | 961635 | 51.44 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 87 - 121 | | Recovery = 102.88% | | | | |
| 70) SURR2,BFB | 10.884 | 95 | 340714 | 48.38 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 85 - 122 | | Recovery = 96.76% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 6) Bromomethane | 1.587 | 94 | 1570 | Below Cal | | # | 37 |
| 16) Acetone | 2.330 | 43 | 23302 | 8.97 | ug/L | | 97 |
| 19) Carbon Disulfide | 2.477 | 76 | 3274 | 0.29 | ug/L | | 81 |
| 22) Methyl Acetate | 2.641 | 43 | 2017m | 0.32 | ug/L | | |
| 35) 2-Butanone | 4.428 | 43 | 2426 | 0.56 | ug/L | | 70 |
| 112) Trielution Dichlorotol... | 12.932 | 125 | 2567 | 0.34 | ug/L | # | 66 |
| 116) Hexachlorobt | 13.603 | 225 | 486 | Below Cal | | # | 18 |
| 119) 2,4,5-Trichlorotoluene | 14.432 | 159 | 387 | 0.81 | ug/L | # | 56 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

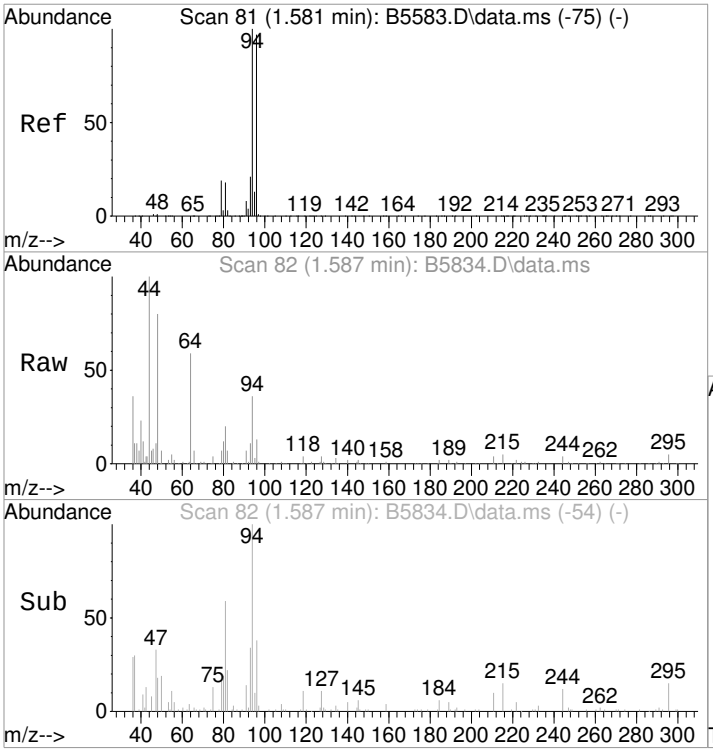
Data Path : I:\ACQUDATA\msvoa10\data\091722\
Data File : B5834.D
Acq On : 17 Sep 2022 1:27 pm
Operator : F.NAEGLER
Sample : R2208794-003|10.0 Inst : MSVOA10
Misc : VCG 7979 T4
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 19 17:12:05 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Sep 08 14:38:30 2022
Response via : Initial Calibration





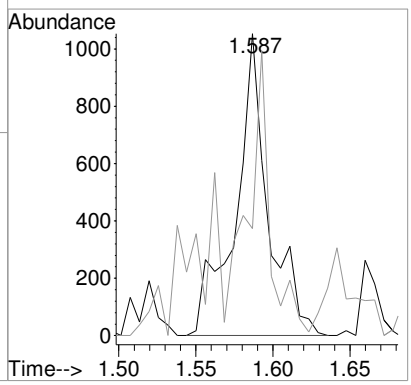

1st FJ 09/19/22
2nd 09/21/22

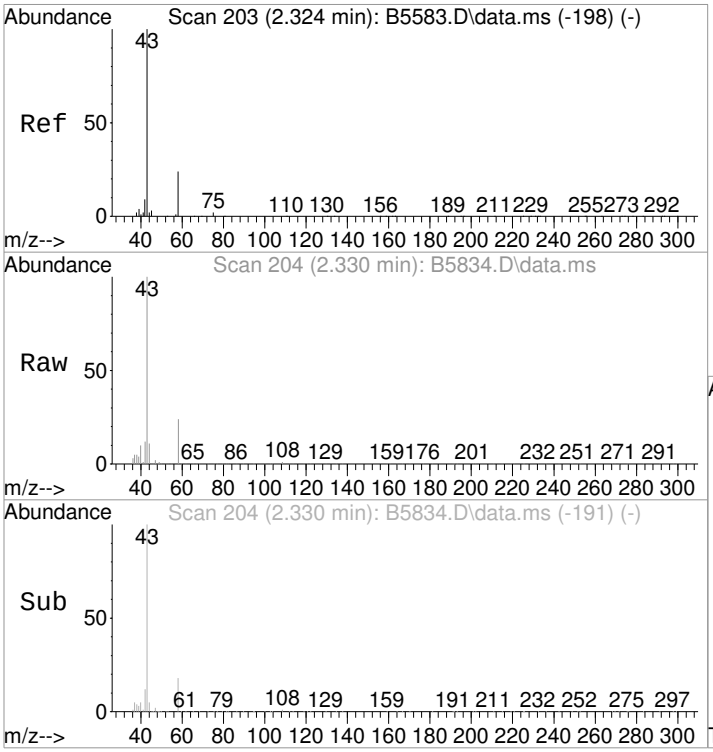



#6
Bromomethane
Concen: Below Cal
RT: 1.587 min Scan# 82
Delta R.T. 0.007 min
Lab File: B5834.D
Acq: 17 Sep 2022 1:27 pm

Tgt Ion: 94 Resp: 1570

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 35.4 | 77.0 | 117.0# |

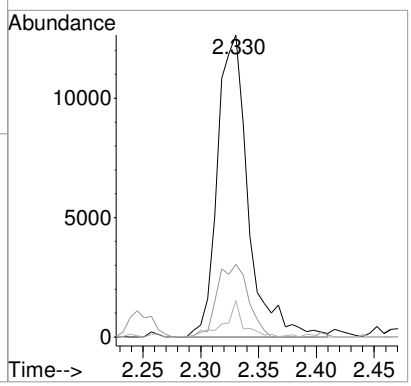


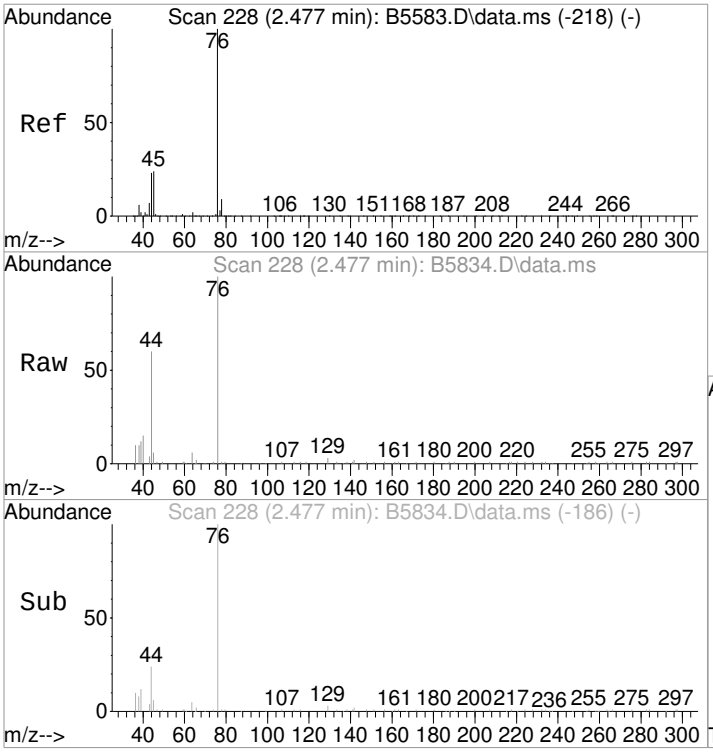




#16
Acetone
Concen: 8.97 ug/L
RT: 2.330 min Scan# 204
Delta R.T. 0.006 min
Lab File: B5834.D
Acq: 17 Sep 2022 1:27 pm

Tgt Ion: 43 Resp: 23302

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 24.0 | 3.7 | 43.7 |
| 42 | 12.1 | 0.0 | 28.6 |

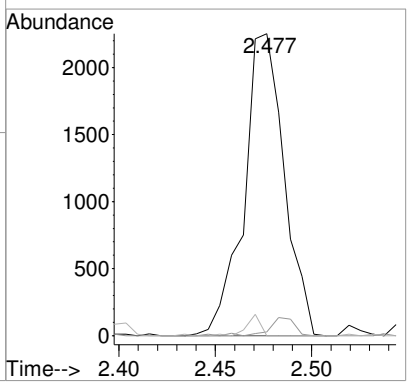


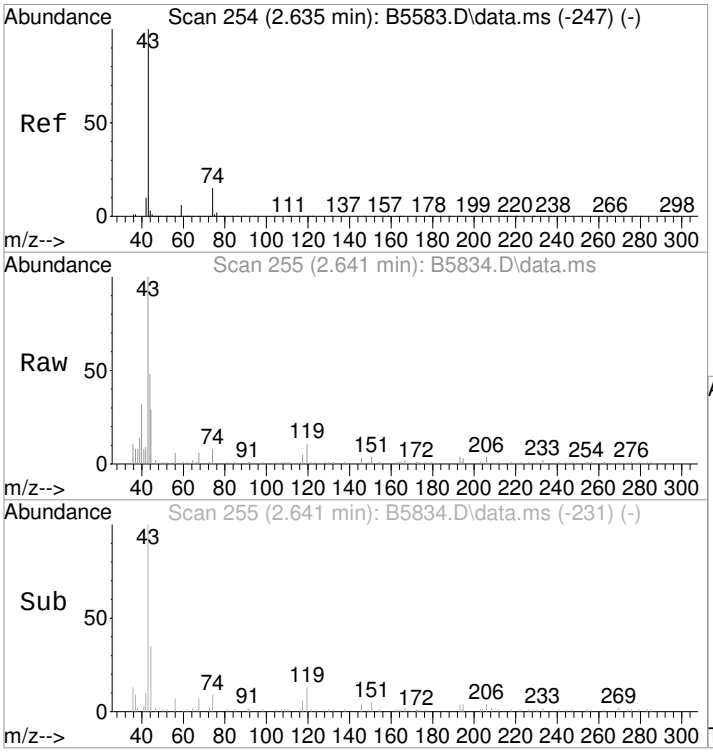



#19
Carbon Disulfide
Concen: 0.29 ug/L
RT: 2.477 min Scan# 228
Delta R.T. -0.000 min
Lab File: B5834.D
Acq: 17 Sep 2022 1:27 pm

Tgt Ion: 76 Resp: 3274

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 1.2 | 0.0 | 29.3 |
| 77 | 0.0 | 0.0 | 22.6 |

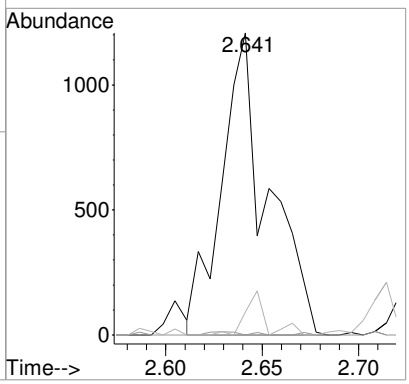


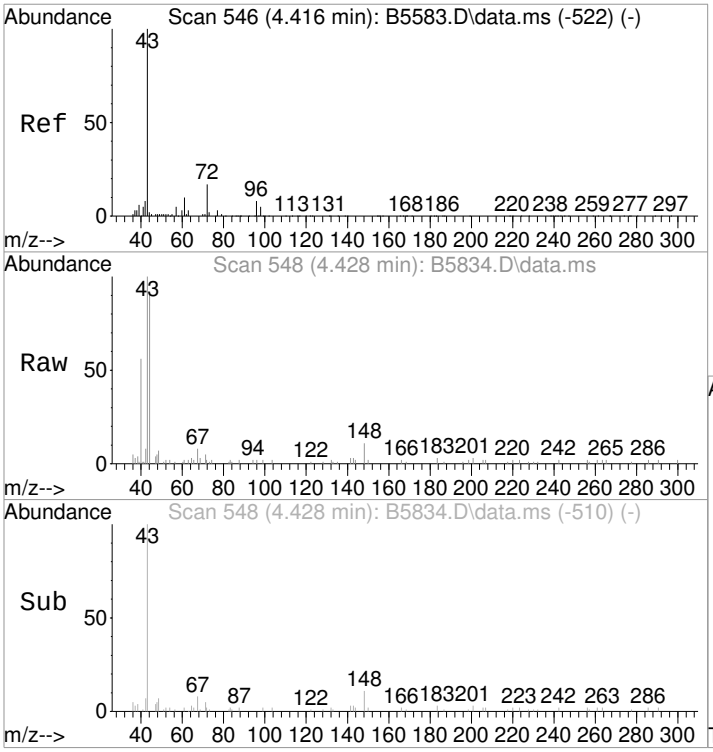




#22
Methyl Acetate
Concen: 0.32 ug/L m
RT: 2.641 min Scan# 255
Delta R.T. 0.006 min
Lab File: B5834.D
Acq: 17 Sep 2022 1:27 pm

Tgt Ion: 43 Resp: 2017

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 59 | 0.0 | 0.0 | 26.1 |
| 74 | 7.6 | 0.0 | 35.3 |

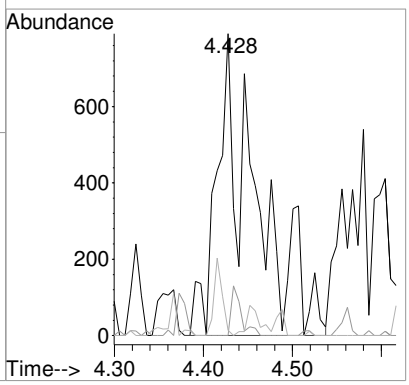


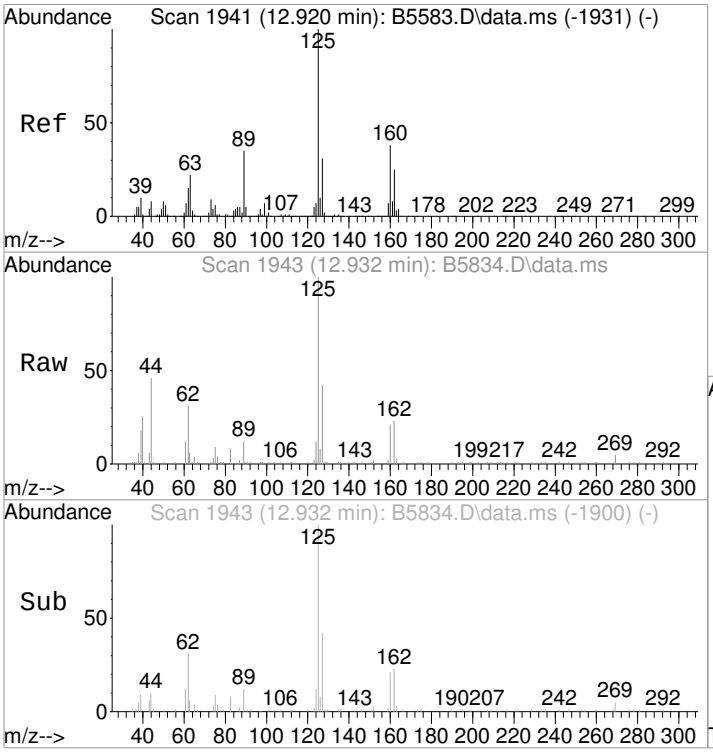



#35
2-Butanone
Concen: 0.56 ug/L
RT: 4.428 min Scan# 548
Delta R.T. 0.012 min
Lab File: B5834.D
Acq: 17 Sep 2022 1:27 pm

Tgt Ion: 43 Resp: 2426

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 0.0 | 0.0 | 25.3 |
| 72 | 1.8 | 0.0 | 36.8 |

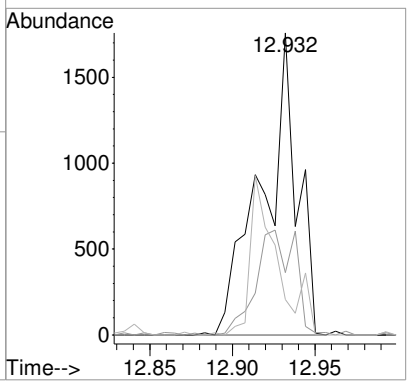


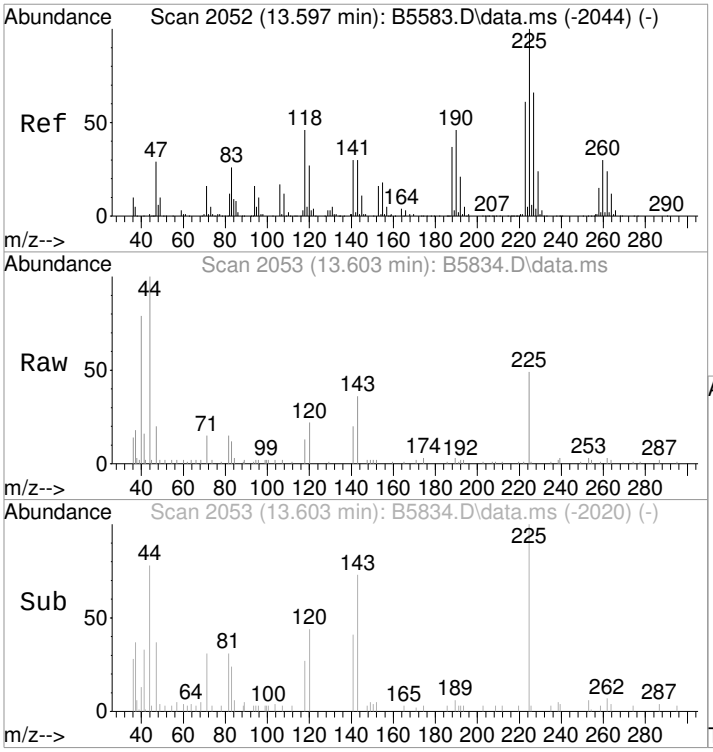




#112
Trielution Dichlorotoluene
Concen: 0.34 ug/L
RT: 12.932 min Scan# 1943
Delta R.T. 0.012 min
Lab File: B5834.D
Acq: 17 Sep 2022 1:27 pm

Tgt Ion:125 Resp: 2567

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 125 | 100 | | |
| 160 | 20.6 | 18.2 | 58.2 |
| 89 | 11.7 | 14.7 | 54.7# |

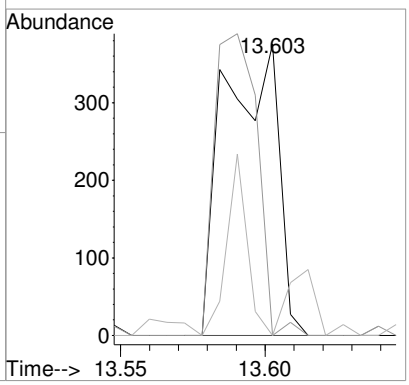


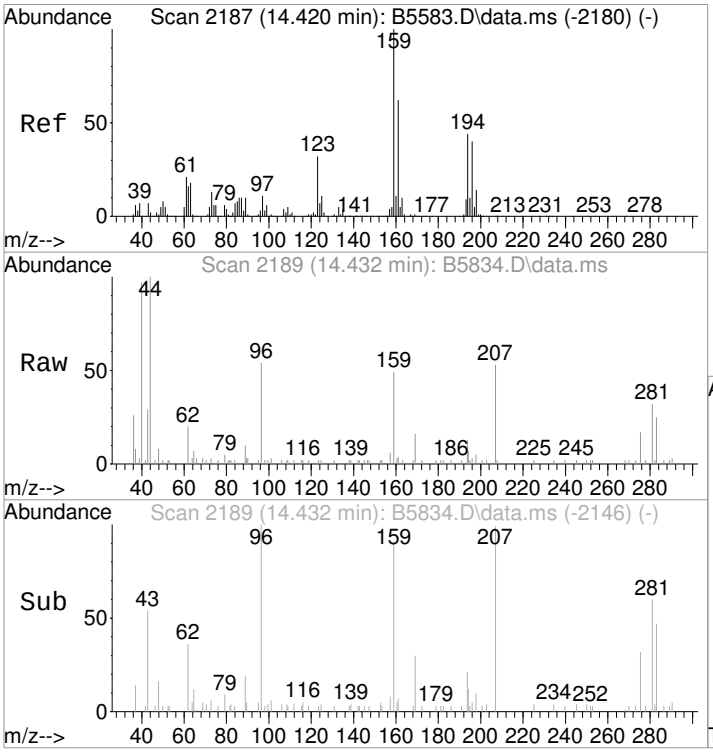



#116
Hexachlorobt
Concen: Below Cal
RT: 13.603 min Scan# 2053
Delta R.T. 0.007 min
Lab File: B5834.D
Acq: 17 Sep 2022 1:27 pm

Tgt Ion:225 Resp: 486

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 0.0 | 41.4 | 81.4# |
| 227 | 0.0 | 45.9 | 85.9# |

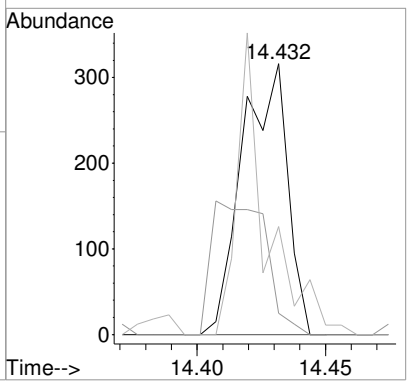



#119
2,4,5-Trichlorotoluene
Concen: 0.81 ug/L
RT: 14.432 min Scan# 2189
Delta R.T. 0.013 min
Lab File: B5834.D
Acq: 17 Sep 2022 1:27 pm

Tgt Ion:159 Resp: 387

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 159 | 100 | | |
| 161 | 7.9 | 42.3 | 82.3# |
| 194 | 39.9 | 24.1 | 64.1 |



# Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\091722\
Data File : B5835.D
Acq On : 17 Sep 2022 1:49 pm
Operator : F.NAEGLER
Sample : R2208794-004|10.0 Inst : MSVOA10
Misc : VCG 7979 T4
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 19 17:13:23 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge dark matrix
QLast Update : Thu Sep 08 14:38:30 2022
Response via : Initial Calibration

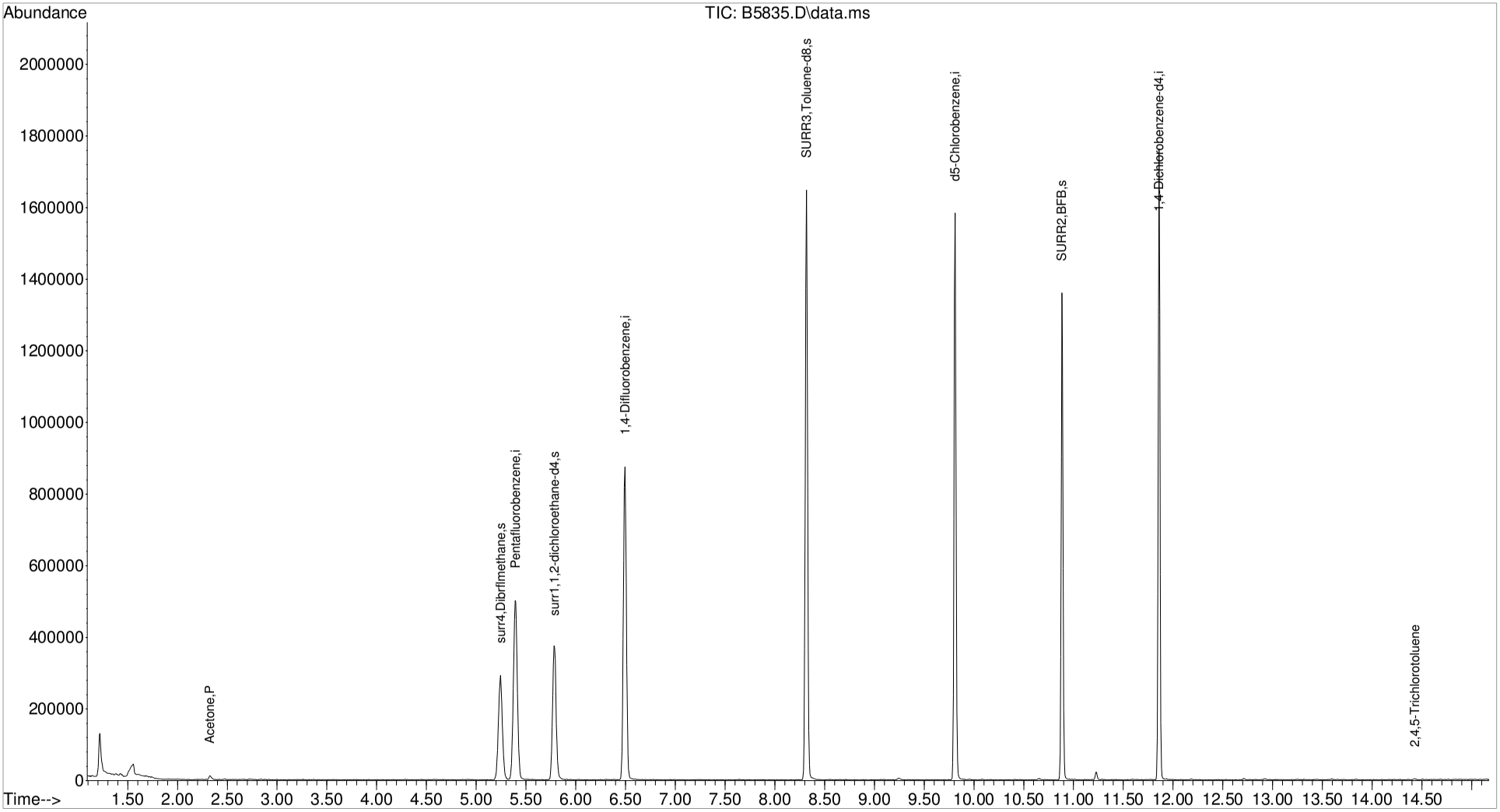
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.391 | 168 | 429597 | 50.00 | ug/L | 0.00 |
| 42) 1,4-Difluorobenzene | 6.494 | 114 | 739038 | 50.00 | ug/L | 0.00 |
| 71) d5-Chlorobenzene | 9.811 | 117 | 650223 | 50.00 | ug/L | 0.00 |
| 91) 1,4-Dichlorobenzene-d4 | 11.859 | 152 | 309534 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 44) surr4,Dibrflmethane | 5.245 | 113 | 238935 | 50.56 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 116 | | Recovery = 101.12% | | | |
| 47) surr1,1,2-dichloroetha... | 5.787 | 65 | 327916 | 54.04 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 73 - 125 | | Recovery = 108.08% | | | |
| 65) SURR3,Toluene-d8 | 8.317 | 98 | 925858 | 51.41 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 87 - 121 | | Recovery = 102.82% | | | |
| 70) SURR2,BFB | 10.884 | 95 | 338094 | 49.84 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 85 - 122 | | Recovery = 99.68% | | | |
| Target Compounds | | | | | | Qvalue |
| 6) Bromomethane | 1.587 | 94 | 746 | Below Cal | # | 51 |
| 16) Acetone | 2.324 | 43 | 11904 | 4.69 | ug/L | 94 |
| 116) Hexachlorobt | 13.597 | 225 | 456 | Below Cal | # | 64 |
| 119) 2,4,5-Trichlorotoluene | 14.426 | 159 | 659 | 0.88 | ug/L | 93 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

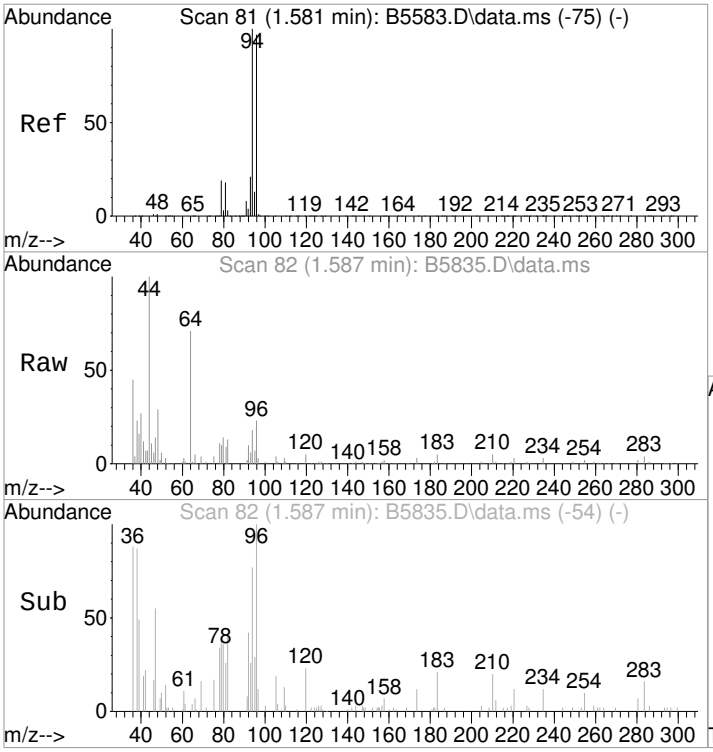
Data Path : I:\ACQUDATA\msvoa10\data\091722\
Data File : B5835.D
Acq On : 17 Sep 2022 1:49 pm
Operator : F.NAEGLER
Sample : R2208794-004|10.0 Inst : MSVOA10
Misc : VCG 7979 T4
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 19 17:13:23 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Sep 08 14:38:30 2022
Response via : Initial Calibration





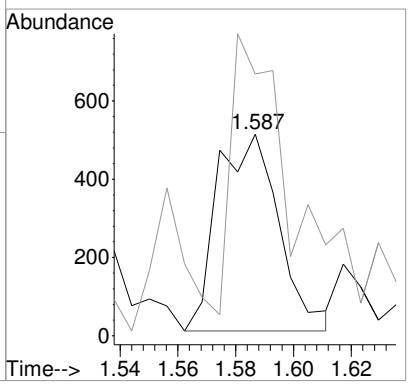

1st FJ 09/19/22
2nd 09/21/22

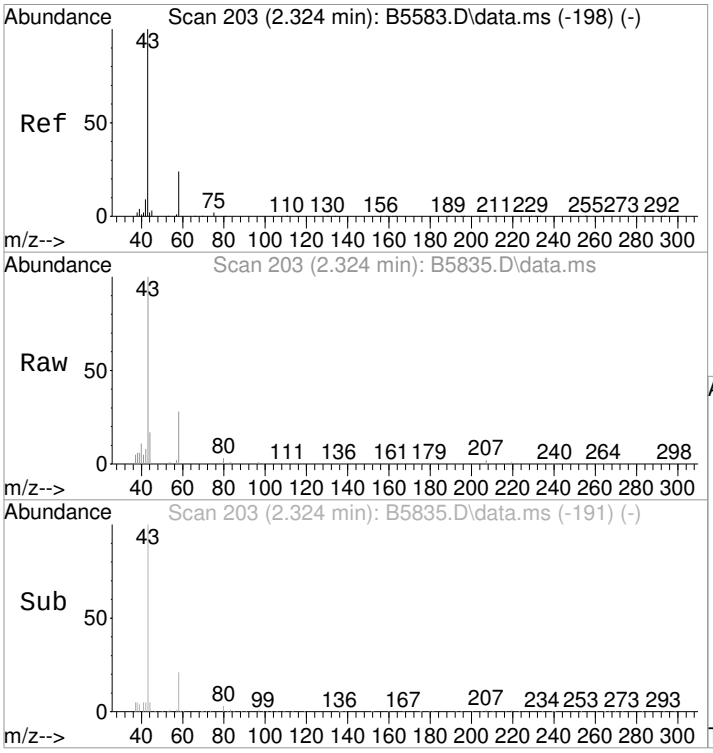



#6
Bromomethane
Concen: Below Cal
RT: 1.587 min Scan# 82
Delta R.T. 0.007 min
Lab File: B5835.D
Acq: 17 Sep 2022 1:49 pm

Tgt Ion: 94 Resp: 746

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 145.0 | 77.0 | 117.0# |

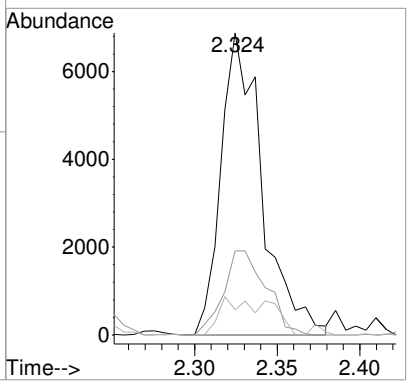


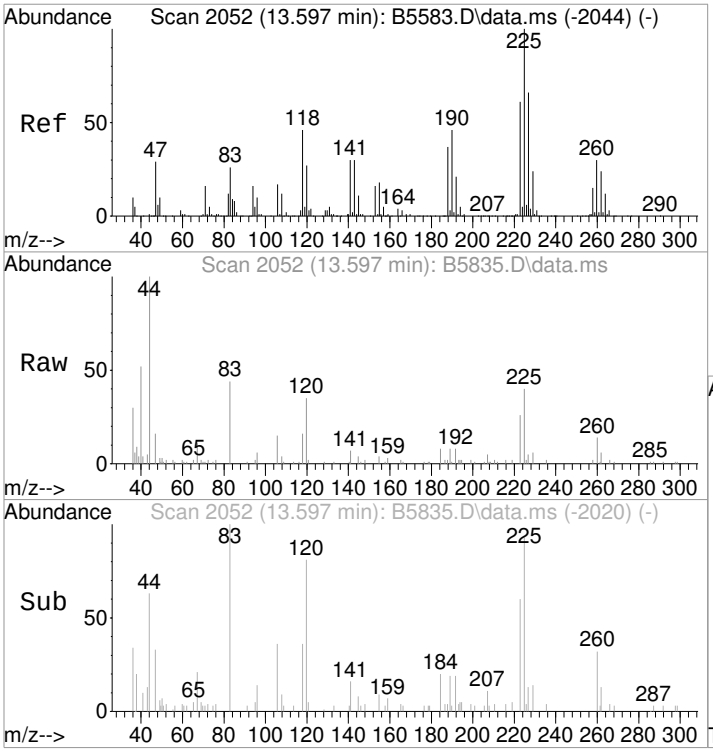




#16
Acetone
Concen: 4.69 ug/L
RT: 2.324 min Scan# 203
Delta R.T. -0.000 min
Lab File: B5835.D
Acq: 17 Sep 2022 1:49 pm

Tgt Ion: 43 Resp: 11904

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 27.8 | 3.7 | 43.7 |
| 42 | 8.3 | 0.0 | 28.6 |

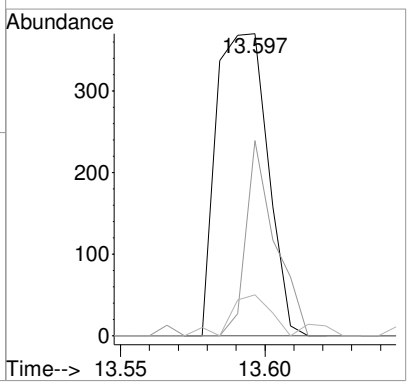


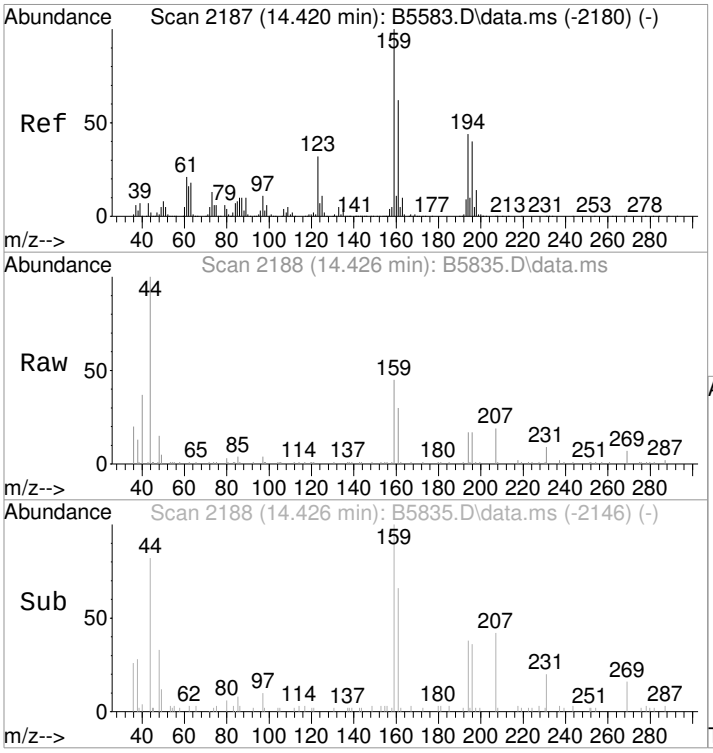



#116
Hexachlorobt
Concen: Below Cal
RT: 13.597 min Scan# 2052
Delta R.T. 0.001 min
Lab File: B5835.D
Acq: 17 Sep 2022 1:49 pm

Tgt Ion:225 Resp: 456

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 64.6 | 41.4 | 81.4 |
| 227 | 13.5 | 45.9 | 85.9# |

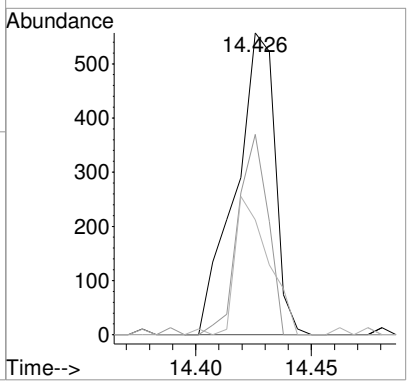



#119
2,4,5-Trichlorotoluene
Concen: 0.88 ug/L
RT: 14.426 min Scan# 2188
Delta R.T. 0.007 min
Lab File: B5835.D
Acq: 17 Sep 2022 1:49 pm

Tgt Ion:159 Resp: 659

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 159 | 100 | | |
| 161 | 66.4 | 42.3 | 82.3 |
| 194 | 38.1 | 24.1 | 64.1 |



# Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\091722\
Data File : B5836.D
Acq On : 17 Sep 2022 2:11 pm
Operator : F.NAEGLER
Sample : R2208794-010|10.0 Inst : MSVOA10
Misc : VCG 7979 T4
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 19 17:15:28 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Sep 08 14:38:30 2022
Response via : Initial Calibration

dark matrix

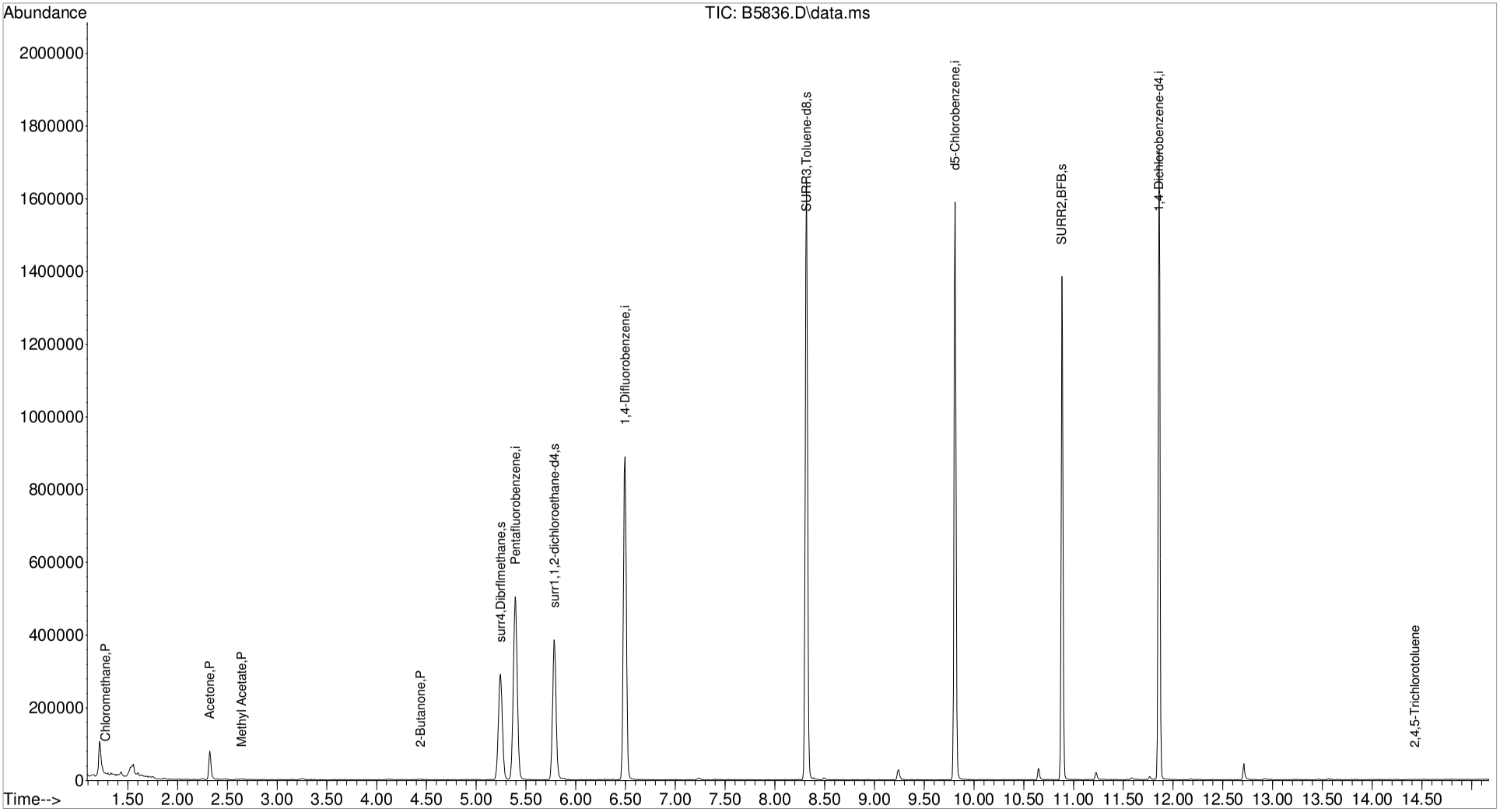
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.391 | 168 | 436017 | 50.00 | ug/L | 0.00 |
| 42) 1,4-Difluorobenzene | 6.494 | 114 | 741462 | 50.00 | ug/L | 0.00 |
| 71) d5-Chlorobenzene | 9.811 | 117 | 664810 | 50.00 | ug/L | 0.00 |
| 91) 1,4-Dichlorobenzene-d4 | 11.859 | 152 | 304751 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 44) surr4,Dibrflmethane | 5.244 | 113 | 248270 | 52.36 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 116 | | Recovery = 104.72% | | | |
| 47) surr1,1,2-dichloroetha... | 5.781 | 65 | 325006 | 53.38 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 73 - 125 | | Recovery = 106.76% | | | |
| 65) SURR3,Toluene-d8 | 8.317 | 98 | 944277 | 52.27 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 87 - 121 | | Recovery = 104.54% | | | |
| 70) SURR2,BFB | 10.884 | 95 | 333771 | 49.05 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 85 - 122 | | Recovery = 98.10% | | | |
| Target Compounds | | | | | | Qvalue |
| 4) Chloromethane | 1.276 | 50 | 2135 | 0.37 | ug/L | 92 |
| 6) Bromomethane | 1.581 | 94 | 1291 | Below Cal | | 87 |
| 16) Acetone | 2.324 | 43 | 84824 | 32.91 | ug/L | 98 |
| 22) Methyl Acetate | 2.641 | 43 | 2261 | 0.36 | ug/L | 77 |
| 35) 2-Butanone | 4.440 | 43 | 2112 | 0.49 | ug/L | 89 |
| 119) 2,4,5-Trichlorotoluene | 14.426 | 159 | 530 | 0.85 | ug/L # | 61 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

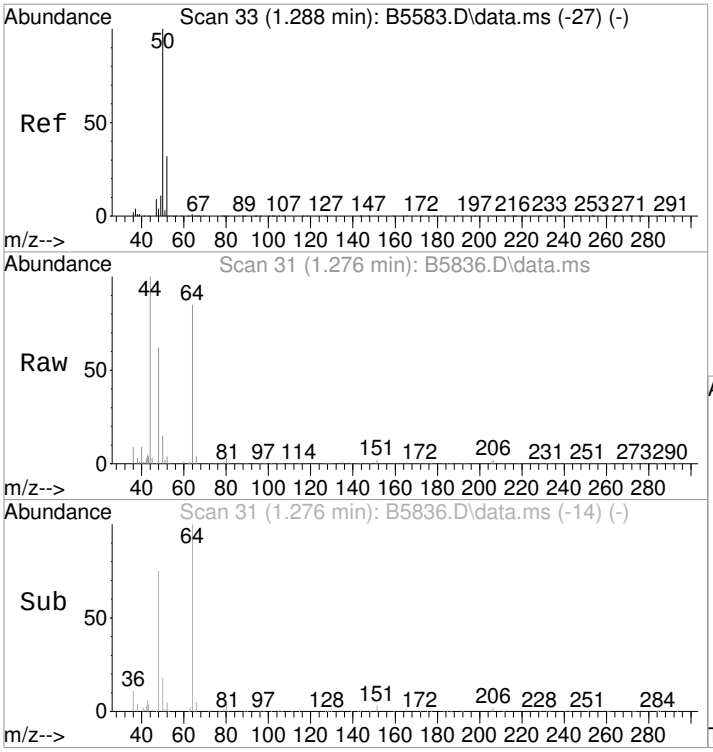
Data Path : I:\ACQUDATA\msvoa10\data\091722\
Data File : B5836.D
Acq On : 17 Sep 2022 2:11 pm
Operator : F.NAEGLER
Sample : R2208794-010|10.0 Inst : MSVOA10
Misc : VCG 7979 T4
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 19 17:15:28 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Sep 08 14:38:30 2022
Response via : Initial Calibration





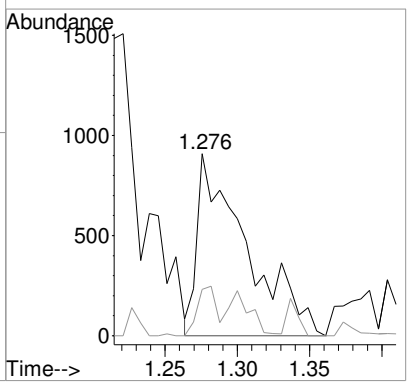

1st FN 09/19/22
2nd 09/21/22

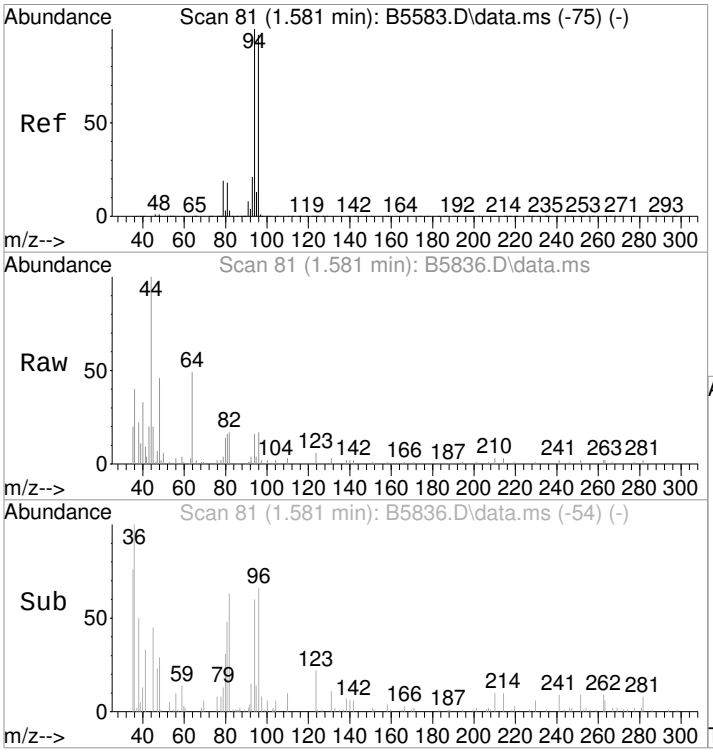



#4
Chloromethane
Concen: 0.37 ug/L
RT: 1.276 min Scan# 31
Delta R.T. -0.012 min
Lab File: B5836.D
Acq: 17 Sep 2022 2:11 pm

Tgt Ion: 50 Resp: 2135

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 27.7 | 12.4 | 52.4 |

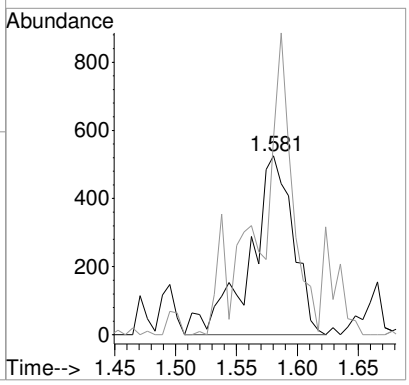


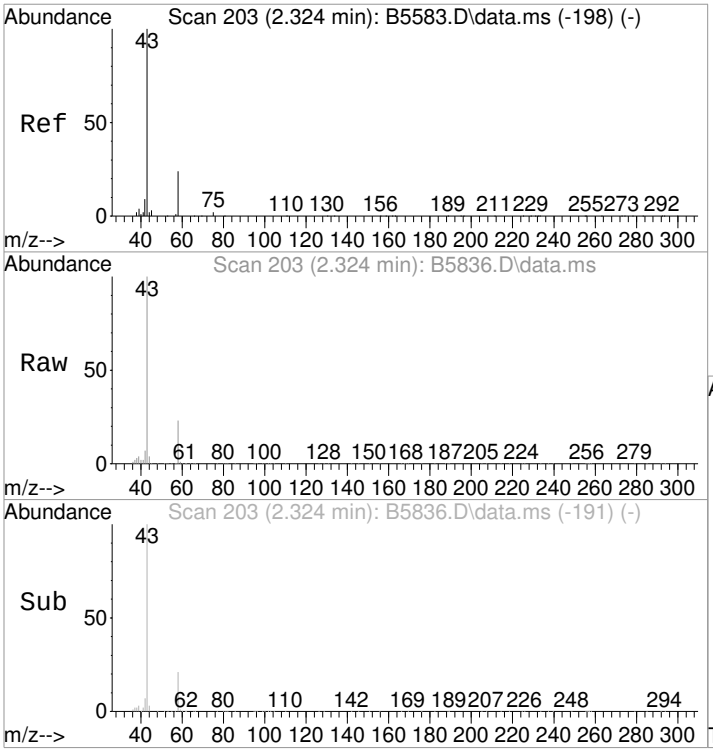




#6
Bromomethane
Concen: Below Cal
RT: 1.581 min Scan# 81
Delta R.T. 0.000 min
Lab File: B5836.D
Acq: 17 Sep 2022 2:11 pm

Tgt Ion: 94 Resp: 1291

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 109.7 | 77.0 | 117.0 |

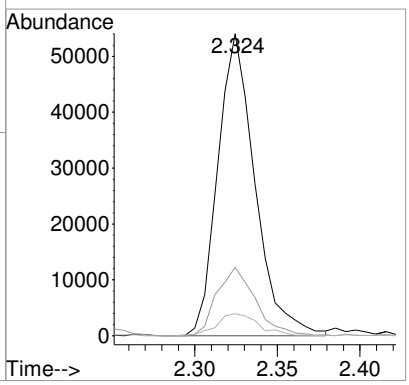


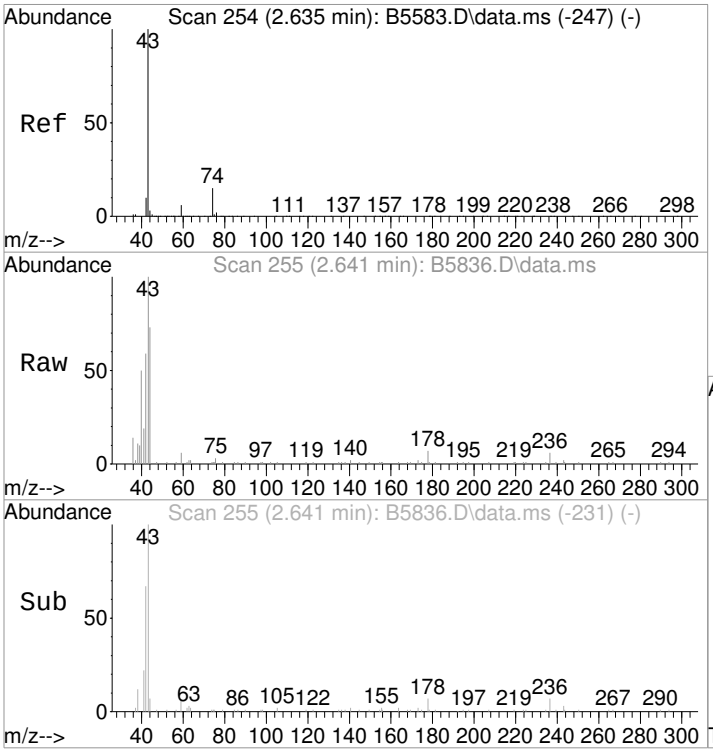



#16
Acetone
Concen: 32.91 ug/L
RT: 2.324 min Scan# 203
Delta R.T. -0.000 min
Lab File: B5836.D
Acq: 17 Sep 2022 2:11 pm

Tgt Ion: 43 Resp: 84824

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 22.7 | 3.7 | 43.7 |
| 42 | 7.3 | 0.0 | 28.6 |

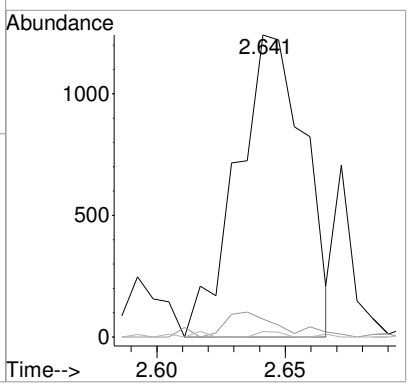


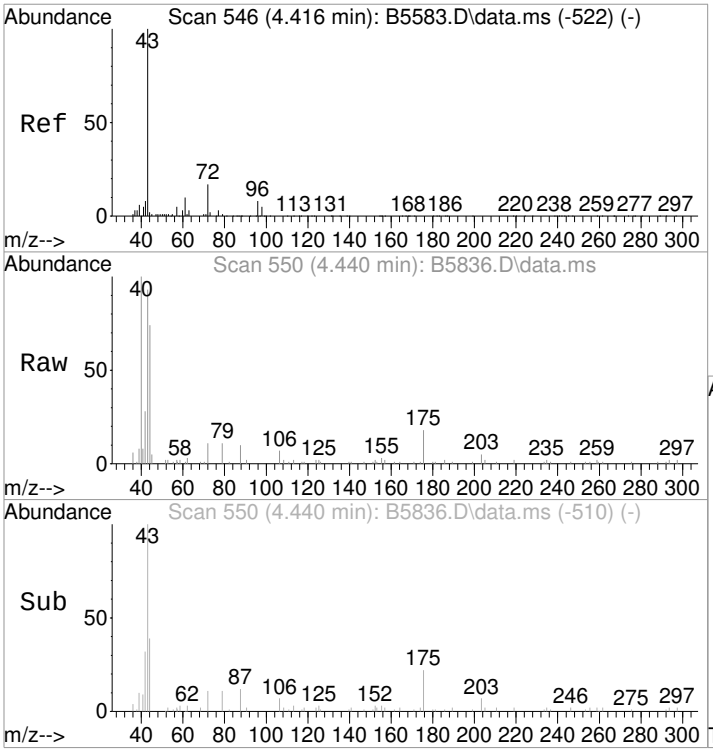




#22
Methyl Acetate
Concen: 0.36 ug/L
RT: 2.641 min Scan# 255
Delta R.T. 0.006 min
Lab File: B5836.D
Acq: 17 Sep 2022 2:11 pm

Tgt Ion: 43 Resp: 2261

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 59 | 6.0 | 0.0 | 26.1 |
| 74 | 1.8 | 0.0 | 35.3 |

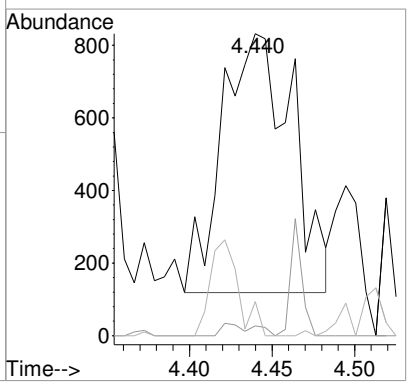


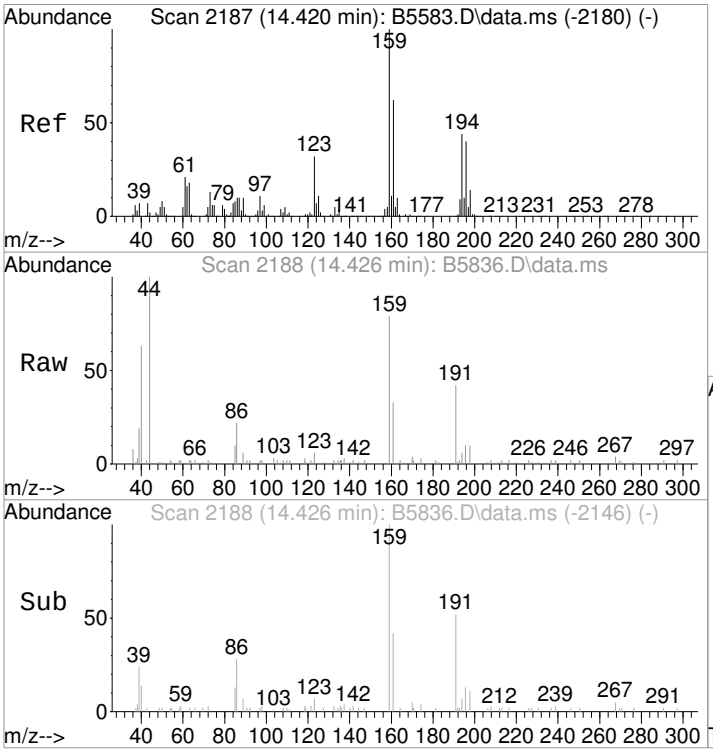



#35
2-Butanone
Concen: 0.49 ug/L
RT: 4.440 min Scan# 550
Delta R.T. 0.024 min
Lab File: B5836.D
Acq: 17 Sep 2022 2:11 pm

Tgt Ion: 43 Resp: 2112

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 3.2 | 0.0 | 25.3 |
| 72 | 11.3 | 0.0 | 36.8 |

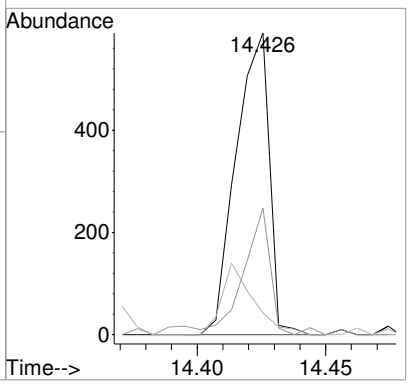



#119
2,4,5-Trichlorotoluene
Concen: 0.85 ug/L
RT: 14.426 min Scan# 2188
Delta R.T. 0.007 min
Lab File: B5836.D
Acq: 17 Sep 2022 2:11 pm

Tgt Ion:159 Resp: 530

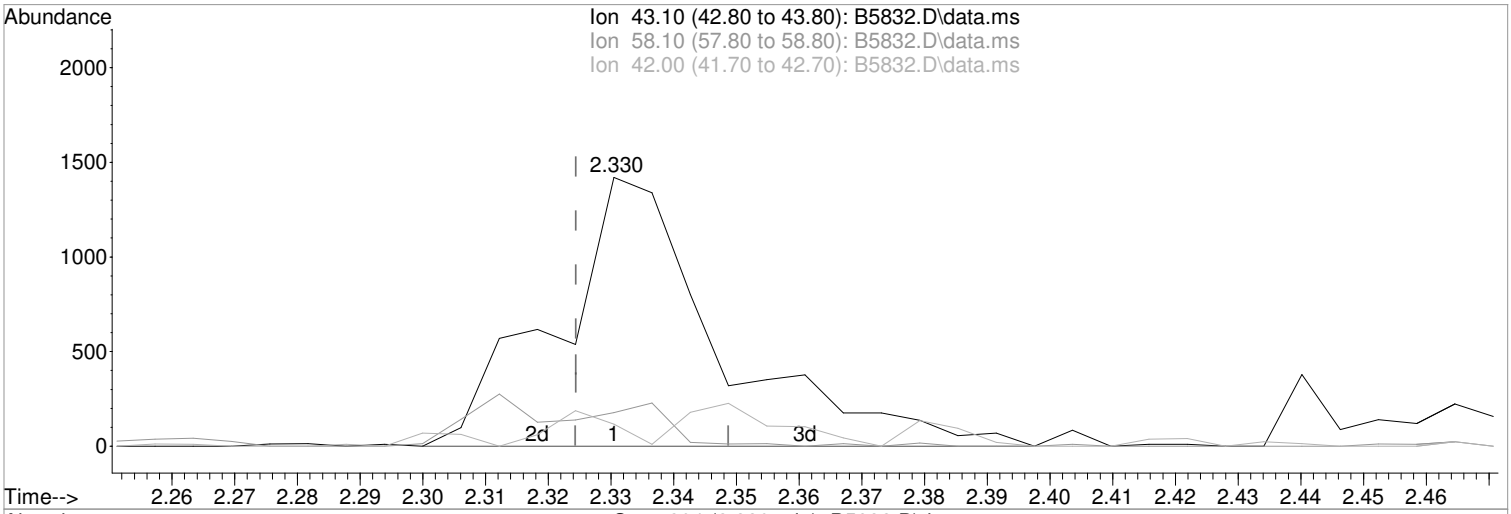
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 159 | 100 | | |
| 161 | 42.0 | 42.3 | 82.3# |
| 194 | 7.3 | 24.1 | 64.1# |

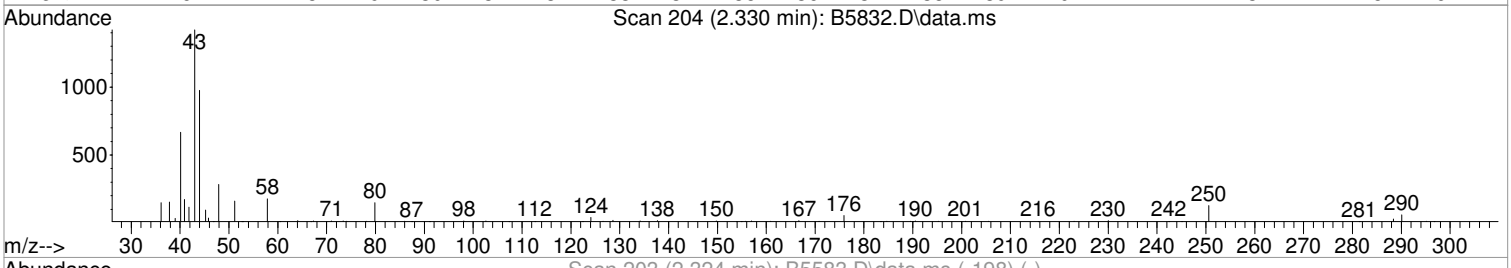


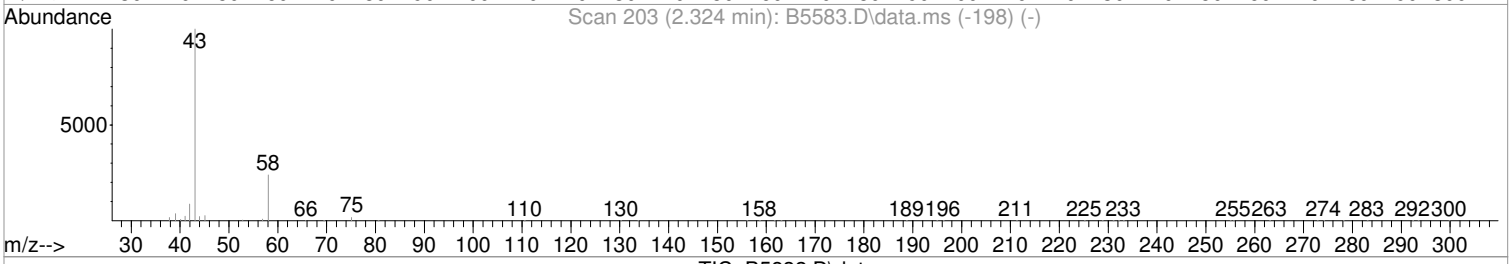
# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091722\
Data File : B5832.D
Acq On : 17 Sep 2022 12:33 pm
Operator : F.NAEGLER
Sample : MBLK-UNP Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 17 12:48:13 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Sep 08 14:38:30 2022
Response via : Initial Calibration




TIC: B5832.D\data.ms

(16) Acetone (P)

2.330min (+0.006) 0.97 ug/L m

response 2578

| Ion | Exp% | Act% |
|---|---|---|
| 43.10 | 100 | 100 |
| 58.10 | 23.70 | 12.46 |
| 42.00 | 8.60 | 8.16 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

After

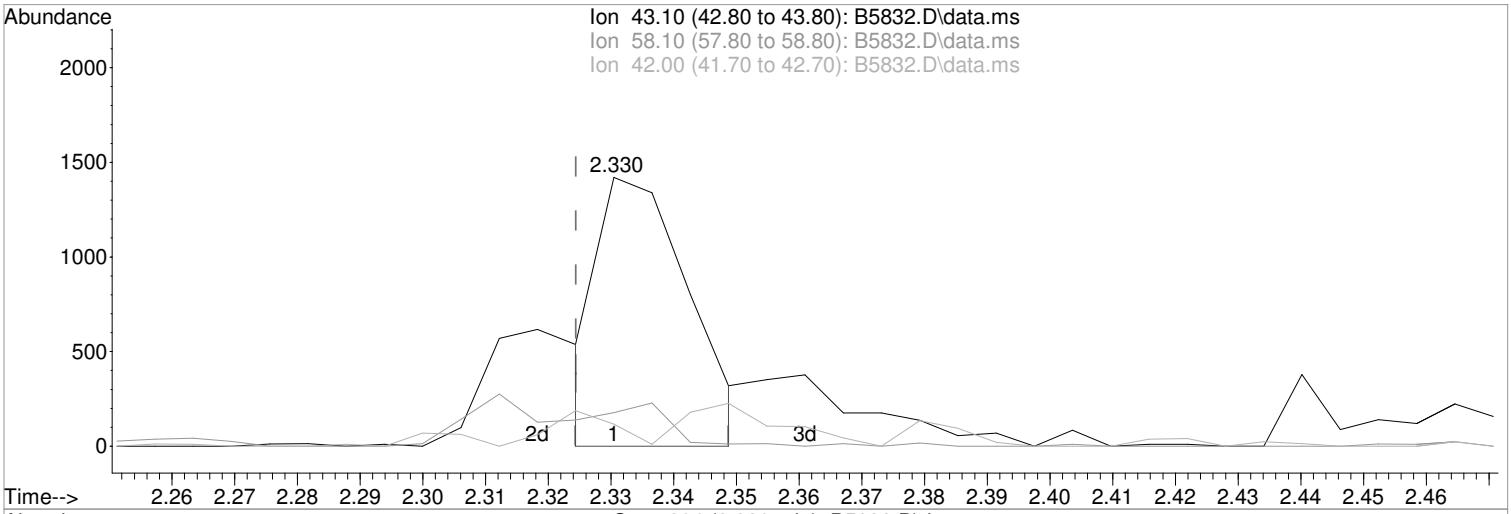
Poor integration.

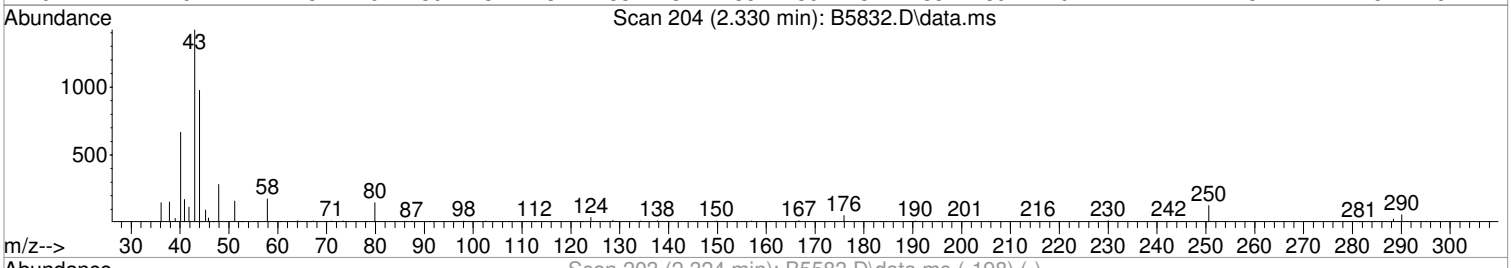
09/19/22

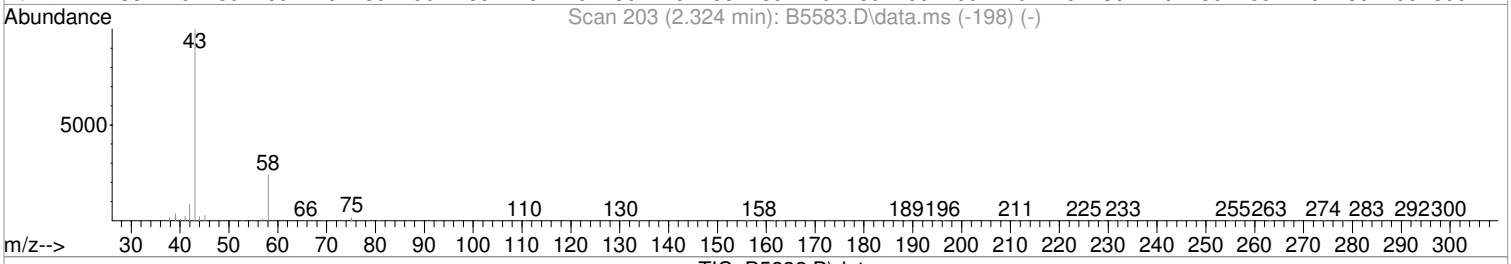
# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\091722\
Data File : B5832.D
Acq On : 17 Sep 2022 12:33 pm
Operator : F.NAEGLER
Sample : MBLK-UNP Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 17 12:48:13 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Sep 08 14:38:30 2022
Response via : Initial Calibration




TIC: B5832.D\data.ms

(16) Acetone (P)

2.330min (+0.006) 0.54 ug/L

response 1419

| Ion | Exp% | Act% |
|---|---|---|
| 43.10 | 100 | 100 |
| 58.10 | 23.70 | 12.46 |
| 42.00 | 8.60 | 8.16 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

Before

09/19/22

# Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\091722\
Data File : B5832.D
Acq On : 17 Sep 2022 12:33 pm
Operator : F.NAEGLER
Sample : MBLK-UNP Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 19 17:08:13 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Sep 08 14:38:30 2022
Response via : Initial Calibration

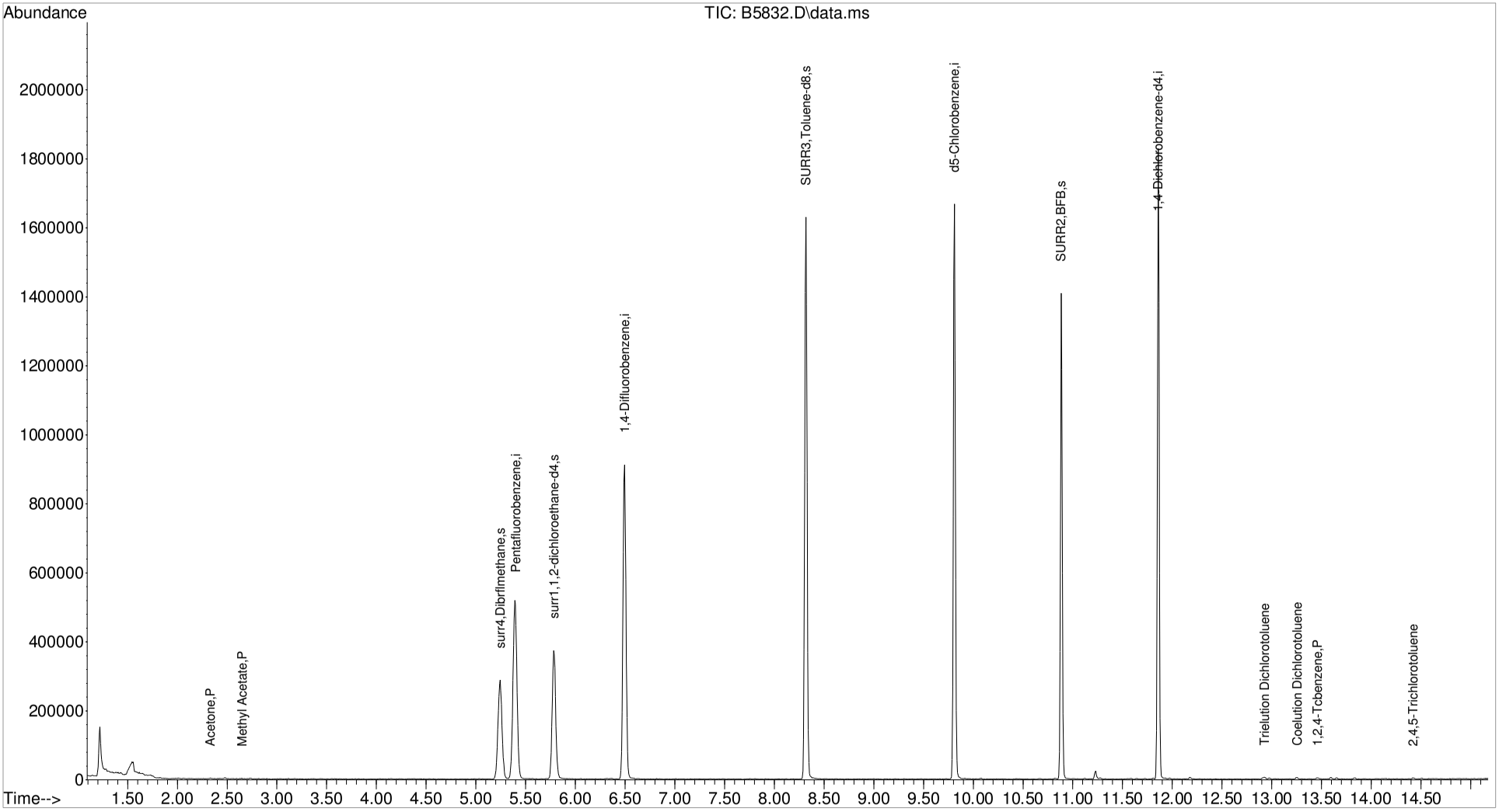
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Pentafluorobenzene | 5.397 | 168 | 448417 | 50.00 | ug/L | | 0.00 |
| 42) 1,4-Difluorobenzene | 6.494 | 114 | 766745 | 50.00 | ug/L | | 0.00 |
| 71) d5-Chlorobenzene | 9.811 | 117 | 679204 | 50.00 | ug/L | | 0.00 |
| 91) 1,4-Dichlorobenzene-d4 | 11.859 | 152 | 318426 | 50.00 | ug/L | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 44) surr4,Dibrflmethane | 5.245 | 113 | 239939 | 48.94 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 116 | | Recovery = 97.88% | | | | |
| 47) surr1,1,2-dichloroetha... | 5.781 | 65 | 320663 | 50.93 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 73 - 125 | | Recovery = 101.86% | | | | |
| 65) SURR3,Toluene-d8 | 8.317 | 98 | 950686 | 50.89 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 87 - 121 | | Recovery = 101.78% | | | | |
| 70) SURR2,BFB | 10.884 | 95 | 340072 | 48.32 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 85 - 122 | | Recovery = 96.64% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 6) Bromomethane | 1.581 | 94 | 2066 | Below Cal | | # | 65 |
| 16) Acetone | 2.330 | 43 | 2578m | 0.97 | ug/L | | |
| 22) Methyl Acetate | 2.647 | 43 | 1392 | 0.22 | ug/L | | 70 |
| 112) Trielution Dichlorotol... | 12.926 | 125 | 3213 | 0.40 | ug/L | # | 62 |
| 114) Coelution Dichlorotoluene | 13.255 | 125 | 1862 | 0.22 | ug/L | | 90 |
| 115) 1,2,4-Tcbenzene | 13.462 | 180 | 1300 | 0.22 | ug/L | | 84 |
| 116) Hexachlorobt | 13.597 | 225 | 474 | Below Cal | | # | 40 |
| 119) 2,4,5-Trichlorotoluene | 14.420 | 159 | 832 | 0.92 | ug/L | | 89 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\091722\
Data File : B5832.D
Acq On : 17 Sep 2022 12:33 pm
Operator : F.NAEGLER
Sample : MBLK-UNP Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

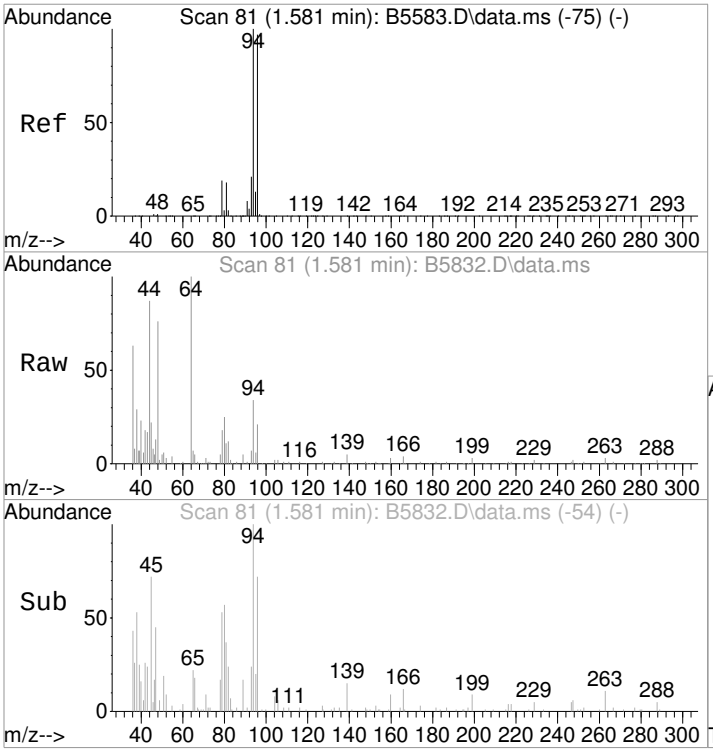
Quant Time: Sep 19 17:08:13 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Sep 08 14:38:30 2022
Response via : Initial Calibration







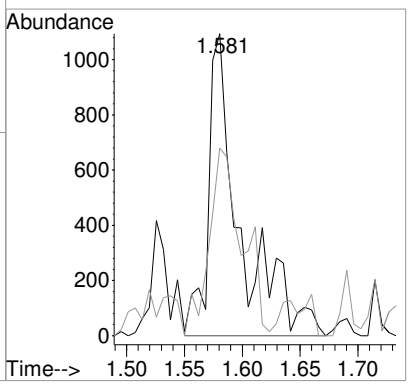

1st FJ 09/19/22
2nd 09/21/22

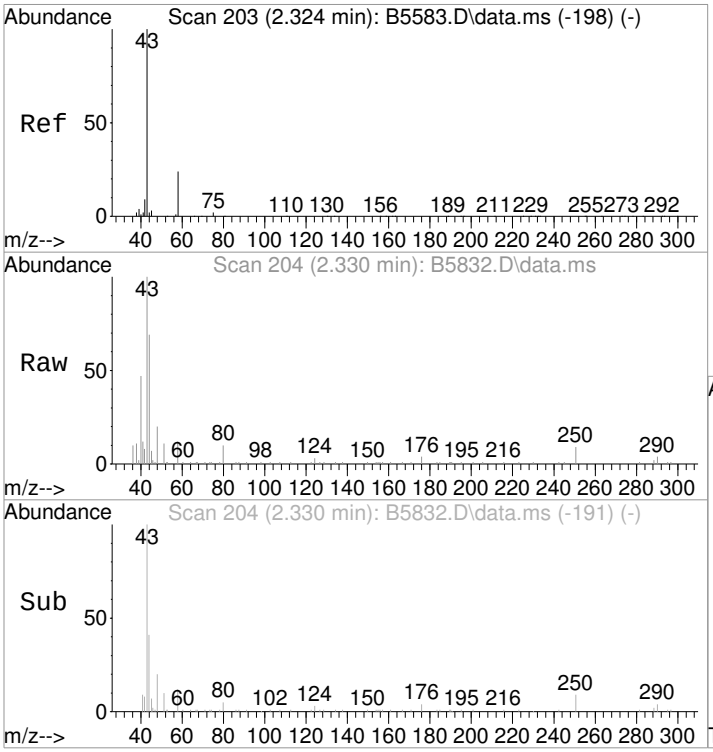



#6
Bromomethane
Concen: Below Cal
RT: 1.581 min Scan# 81
Delta R.T. 0.001 min
Lab File: B5832.D
Acq: 17 Sep 2022 12:33 pm

Tgt Ion: 94 Resp: 2066

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 62.2 | 77.0 | 117.0# |

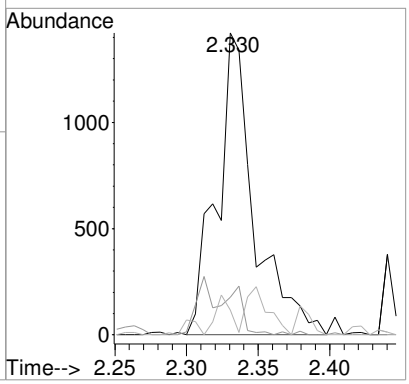


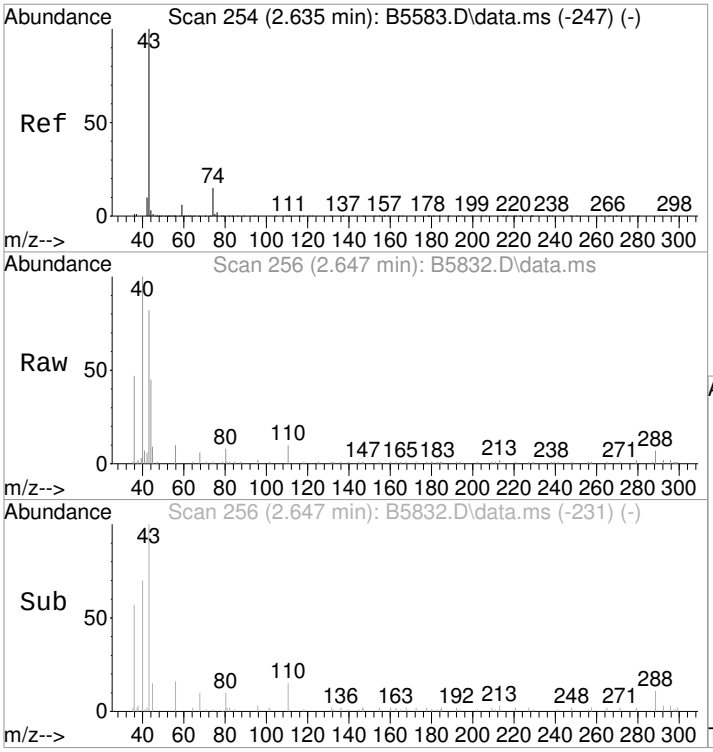




#16
Acetone
Concen: 0.97 ug/L m
RT: 2.330 min Scan# 204
Delta R.T. 0.006 min
Lab File: B5832.D
Acq: 17 Sep 2022 12:33 pm

Tgt Ion: 43 Resp: 2578

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 12.5 | 3.7 | 43.7 |
| 42 | 8.2 | 0.0 | 28.6 |

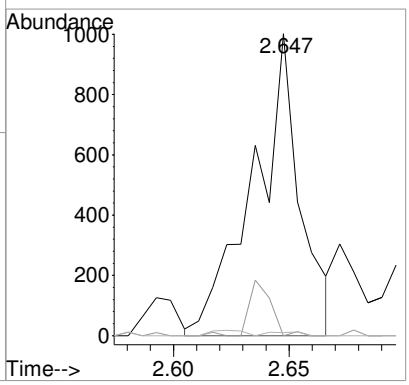


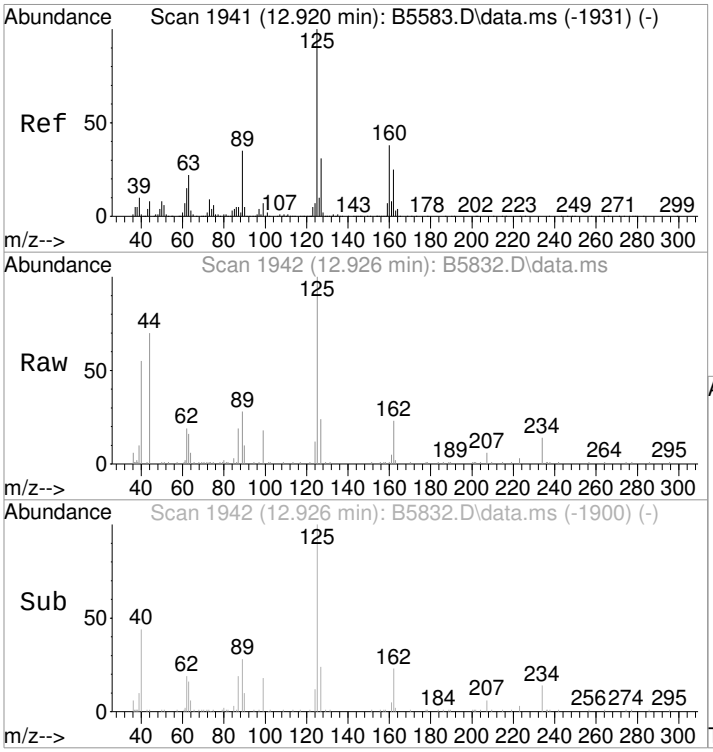



#22
Methyl Acetate
Concen: 0.22 ug/L
RT: 2.647 min Scan# 256
Delta R.T. 0.012 min
Lab File: B5832.D
Acq: 17 Sep 2022 12:33 pm

Tgt Ion: 43 Resp: 1392

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 59 | 0.0 | 0.0 | 26.1 |
| 74 | 1.0 | 0.0 | 35.3 |

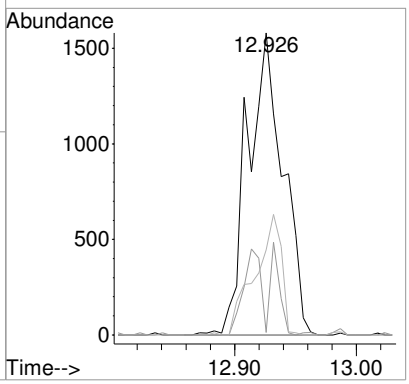


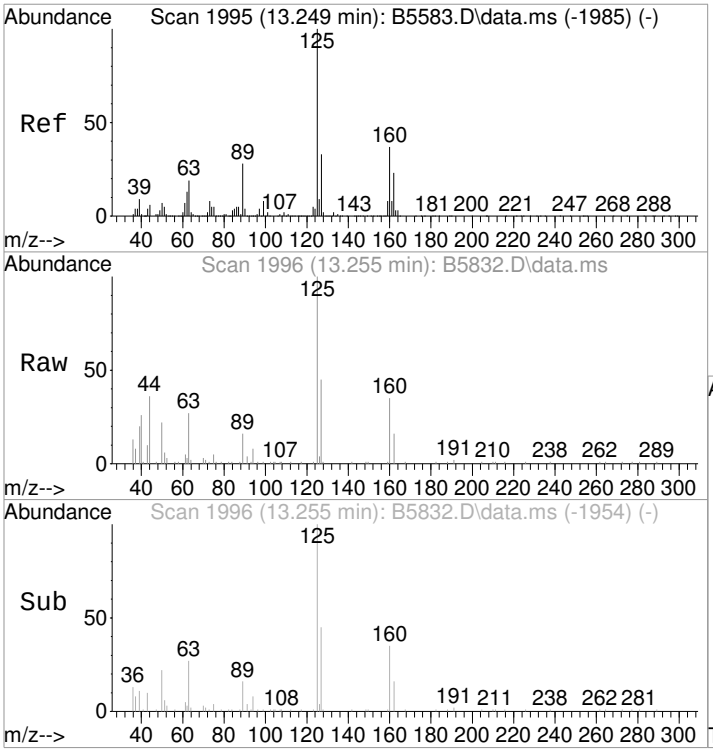




#112
Trielution Dichlorotoluene
Concen: 0.40 ug/L
RT: 12.926 min Scan# 1942
Delta R.T. 0.006 min
Lab File: B5832.D
Acq: 17 Sep 2022 12:33 pm

Tgt Ion:125 Resp: 3213

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 125 | 100 | | |
| 160 | 0.8 | 18.2 | 58.2# |
| 89 | 28.2 | 14.7 | 54.7 |

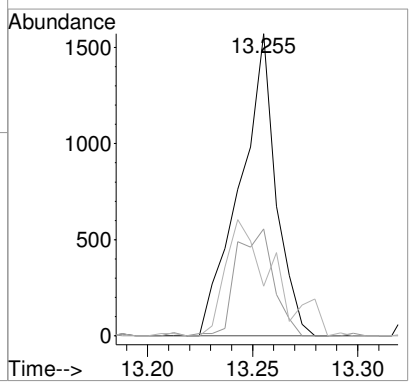


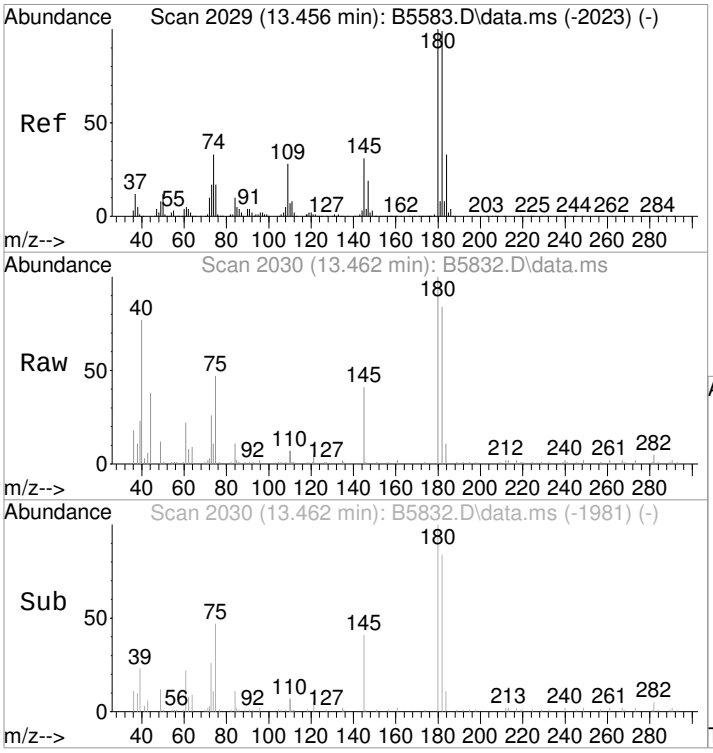



#114
Coelution Dichlorotoluene
Concen: 0.22 ug/L
RT: 13.255 min Scan# 1996
Delta R.T. 0.006 min
Lab File: B5832.D
Acq: 17 Sep 2022 12:33 pm

Tgt Ion:125 Resp: 1862

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 125 | 100 | | |
| 160 | 35.4 | 16.6 | 56.6 |
| 89 | 16.4 | 7.6 | 47.6 |

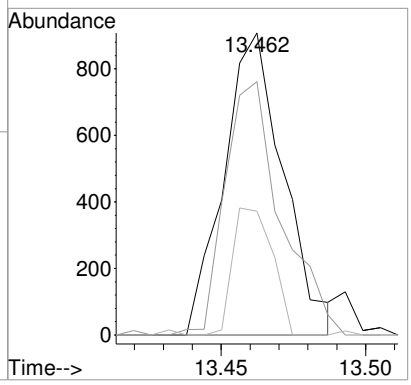


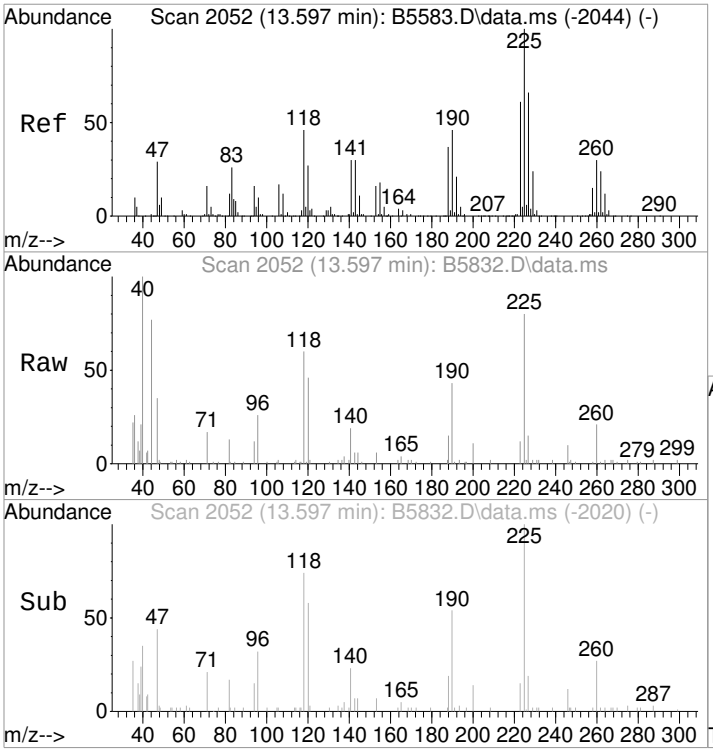




#115
1,2,4-Tcbenzene
Concen: 0.22 ug/L
RT: 13.462 min Scan# 2030
Delta R.T. 0.006 min
Lab File: B5832.D
Acq: 17 Sep 2022 12:33 pm

Tgt Ion:180 Resp: 1300

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 83.9 | 78.8 | 118.8 |
| 145 | 41.0 | 10.7 | 50.7 |

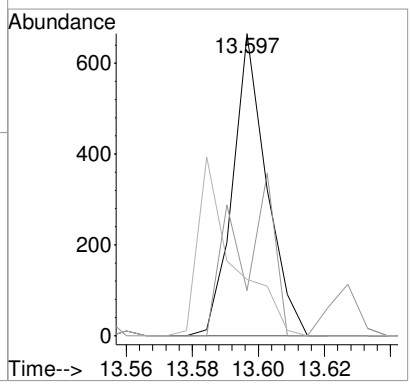


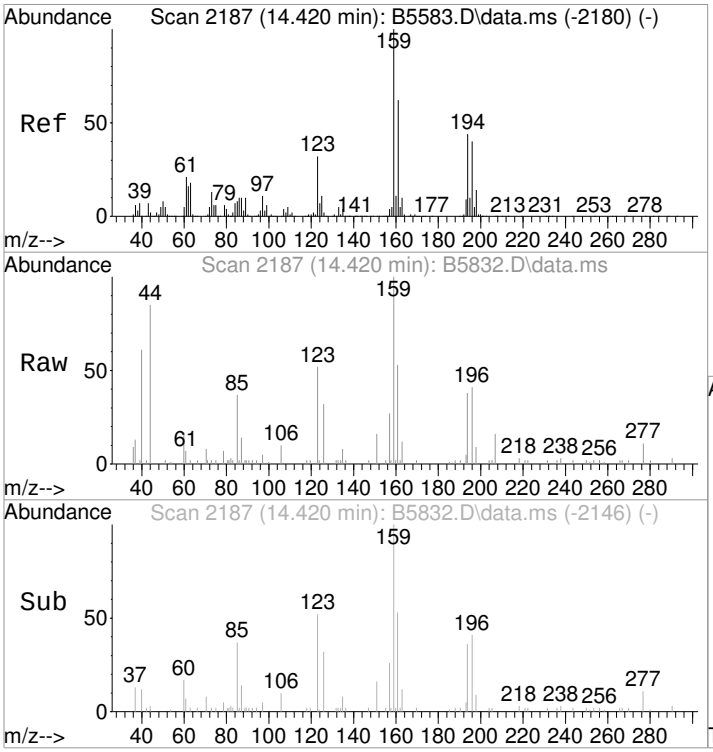



#116
Hexachlorobt
Concen: Below Cal
RT: 13.597 min Scan# 2052
Delta R.T. 0.001 min
Lab File: B5832.D
Acq: 17 Sep 2022 12:33 pm

Tgt Ion:225 Resp: 474

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 14.9 | 41.4 | 81.4# |
| 227 | 18.6 | 45.9 | 85.9# |

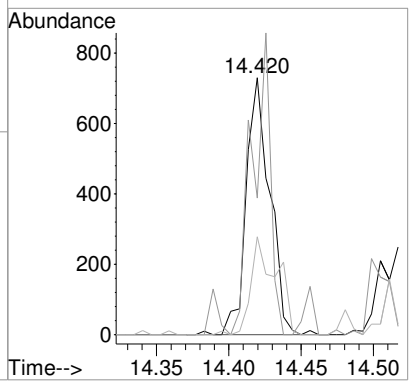



#119
2,4,5-Trichlorotoluene
Concen: 0.92 ug/L
RT: 14.420 min Scan# 2187
Delta R.T. 0.001 min
Lab File: B5832.D
Acq: 17 Sep 2022 12:33 pm

Tgt Ion:159 Resp: 832

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 159 | 100 | | |
| 161 | 53.2 | 42.3 | 82.3 |
| 194 | 38.1 | 24.1 | 64.1 |



# Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\091722\
Data File : B5830.D
Acq On : 17 Sep 2022 11:38 am
Operator : F.NAEGLER
Sample : LCS-UNP Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 17 11:55:32 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Sep 08 14:38:30 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.391 | 168 | 485318 | 50.00 | ug/L | 0.00 |
| 42) 1,4-Difluorobenzene | 6.494 | 114 | 814951 | 50.00 | ug/L | 0.00 |
| 71) d5-Chlorobenzene | 9.811 | 117 | 729701 | 50.00 | ug/L | 0.00 |
| 91) 1,4-Dichlorobenzene-d4 | 11.859 | 152 | 354958 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 44) surr4,Dibrflmethane | 5.244 | 113 | 263901 | 50.64 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 116 | | Recovery = 101.28% | | | |
| 47) surr1,1,2-dichloroetha... | 5.781 | 65 | 335403 | 50.12 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 73 - 125 | | Recovery = 100.24% | | | |
| 65) SURR3,Toluene-d8 | 8.317 | 98 | 1003108 | 50.52 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 87 - 121 | | Recovery = 101.04% | | | |
| 70) SURR2,BFB | 10.884 | 95 | 369706 | 49.43 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 85 - 122 | | Recovery = 98.86% | | | |
| Target Compounds | | | | | | Qvalue |
| 3) Dichlorodifluoromethane | 1.148 | 85 | 121462 | 20.46 | ug/L | 98 |
| 4) Chloromethane | 1.288 | 50 | 140460 | 21.64 | ug/L | 92 |
| 5) Vinyl Chloride | 1.355 | 62 | 121612 | 19.84 | ug/L | 86 |
| 6) Bromomethane | 1.581 | 94 | 56597 | 14.94 | ug/L | 94 |
| 7) Chloroethane | 1.660 | 64 | 87075 | 21.21 | ug/L | 98 |
| 8) Freon 21 | 1.806 | 67 | 183555 | 19.08 | ug/L | 98 |
| 9) Trichlorofluoromethane | 1.855 | 101 | 179293 | 22.78 | ug/L | 98 |
| 10) Diethyl Ether | 2.087 | 59 | 102945 | 21.89 | ug/L | 94 |
| 11) Freon 123a | 2.093 | 67 | 124321 | 20.95 | ug/L | 94 |
| 12) Freon 123 | 2.141 | 83 | 141125 | 21.70 | ug/L | 95 |
| 13) Acrolein | 2.190 | 56 | 30123 | 24.18 | ug/L | 97 |
| 14) 1,1-Diclethene | 2.282 | 96 | 101818 | 23.64 | ug/L | 96 |
| 15) Freon 113 | 2.282 | 101 | 101642 | 21.72 | ug/L | 98 |
| 16) Acetone | 2.318 | 43 | 63246 | 22.05 | ug/L | 96 |
| 17) 2-Propanol | 2.452 | 45 | 193130 | 372.98 | ug/L | 98 |
| 18) Iodomethane | 2.410 | 142 | 117154 | 17.91 | ug/L | 96 |
| 19) Carbon Disulfide | 2.477 | 76 | 268369 | 21.28 | ug/L | 99 |
| 20) Acetonitrile | 2.580 | 41 | 130604 | 113.45 | ug/L | 95 |
| 21) Allyl Chloride | 2.617 | 76 | 52716 | 22.97 | ug/L | 98 |
| 22) Methyl Acetate | 2.635 | 43 | 133151 | 19.17 | ug/L | 98 |
| 23) Methylene Chloride | 2.733 | 84 | 112660 | 20.83 | ug/L | 97 |
| 24) TBA | 2.855 | 59 | 258298 | 383.57 | ug/L | 95 |
| 25) Acrylonitrile | 2.983 | 53 | 298312 | 107.05 | ug/L | 95 |
| 26) Methyl-t-Butyl Ether | 3.031 | 73 | 323579 | 21.83 | ug/L | 96 |
| 27) trans-1,2-Dichloroethene | 3.025 | 96 | 106354 | 22.43 | ug/L # | 85 |
| 28) 1,1-Diclethane | 3.525 | 63 | 202368 | 22.91 | ug/L | 97 |
| 29) Vinyl Acetate | 3.623 | 86 | 16766 | 18.89 | ug/L # | 74 |
| 30) DIPE | 3.653 | 45 | 422503 | 21.88 | ug/L | 99 |
| 31) 2-Chloro-1,3-Butadiene | 3.647 | 53 | 175292 | 20.95 | ug/L | 95 |
| 32) ETBE | 4.178 | 59 | 264527 | 19.57 | ug/L | 99 |
| 33) 2,2-Dichloropropane | 4.360 | 77 | 113989 | 24.62 | ug/L | 97 |
| 34) cis-1,2-Dichloroethene | 4.373 | 96 | 116180 | 21.00 | ug/L | 95 |
| 35) 2-Butanone | 4.409 | 43 | 95183 | 19.83 | ug/L | 99 |
| 36) Propionitrile | 4.495 | 54 | 119671 | 110.64 | ug/L | 94 |
| 37) Bromochloromethane | 4.769 | 130 | 77566 | 21.27 | ug/L # | 88 |
| 38) Methacrylonitrile | 4.769 | 67 | 51965 | 19.59 | ug/L | 93 |
| 39) Tetrahydrofuran | 4.860 | 42 | 58425 | 20.07 | ug/L | 91 |
| 40) Chloroform | 4.946 | 83 | 198039 | 21.69 | ug/L | 98 |
| 41) 1,1,1-Trichloroethane | 5.251 | 97 | 147638 | 22.18 | ug/L | 92 |

1st FNJ 09/17/22
2nd WR 09/21/22

Data Path : I:\ACQUDATA\msvoa10\data\091722\
Data File : B5830.D
Acq On : 17 Sep 2022 11:38 am
Operator : F.NAEGLER
Sample : LCS-UNP Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 17 11:55:32 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Sep 08 14:38:30 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 43) Cyclohexane | 5.336 | 41 | 138227 | 21.59 | ug/L | 96 |
| 45) Carbontetrachloride | 5.531 | 117 | 120527 | 22.19 | ug/L | 99 |
| 46) 1,1-Dichloropropene | 5.537 | 75 | 133010 | 20.98 | ug/L | 97 |
| 48) Benzene | 5.866 | 78 | 422279 | 22.06 | ug/L | 96 |
| 49) 1,2-Dichloroethane | 5.903 | 62 | 175859 | 22.47 | ug/L | 94 |
| 50) Iso-Butyl Alcohol | 5.885 | 43 | 145703 | 383.96 | ug/L | 96 |
| 51) TAME | 6.104 | 73 | 241738 | 20.06 | ug/L | 100 |
| 52) n-Heptane | 6.360 | 43 | 180824 | 26.21 | ug/L | 94 |
| 53) 1-Butanol | 6.848 | 56 | 160458 | 918.71 | ug/L | 94 |
| 54) Trichloroethene | 6.817 | 130 | 107210 | 21.03 | ug/L | 93 |
| 55) Methylcyclohexane | 7.061 | 55 | 136939 | 21.74 | ug/L | 97 |
| 56) 1,2-Diclpropane | 7.104 | 63 | 112340 | 22.03 | ug/L | 99 |
| 57) Dibromomethane | 7.244 | 93 | 76781 | 20.58 | ug/L | 97 |
| 58) 1,4-Dioxane | 7.305 | 88 | 37670 | 366.63 | ug/L | 91 |
| 59) Methyl Methacrylate | 7.329 | 69 | 83373 | 21.26 | ug/L | 96 |
| 60) Bromodichloromethane | 7.470 | 83 | 137475 | 21.06 | ug/L | 97 |
| 61) 2-Nitropropane | 7.756 | 41 | 62629 | 38.05 | ug/L | 97 |
| 62) 2-Chloroethylvinyl Ether | 7.884 | 63 | 36684 | 11.08 | ug/L | 98 |
| 63) cis-1,3-Dichloropropene | 8.018 | 75 | 145721 | 22.57 | ug/L | 95 |
| 64) 4-Methyl-2-pentanone | 8.226 | 43 | 167115 | 19.71 | ug/L | 95 |
| 66) Toluene | 8.390 | 91 | 461233 | 21.60 | ug/L | 99 |
| 67) trans-1,3-Dichloropropene | 8.658 | 75 | 119654 | 24.85 | ug/L | 98 |
| 68) Ethyl Methacrylate | 8.805 | 69 | 143288 | 21.83 | ug/L | 91 |
| 69) 1,1,2-Trichloroethane | 8.847 | 97 | 101611 | 20.64 | ug/L | 96 |
| 72) Tetrachloroethene | 8.982 | 164 | 75878 | 20.68 | ug/L | 93 |
| 73) 2-Hexanone | 9.140 | 43 | 118845 | 19.56 | ug/L | 99 |
| 74) 1,3-Dichloropropane | 9.018 | 76 | 173355 | 20.78 | ug/L | 99 |
| 75) Dibromochloromethane | 9.244 | 129 | 99234 | 19.81 | ug/L | 93 |
| 76) N-Butyl Acetate | 9.299 | 43 | 222735 | 19.09 | ug/L | 98 |
| 77) 1,2-Dibromoethane | 9.341 | 107 | 102354 | 21.20 | ug/L | 91 |
| 78) 3-Chlorobenzotrifluoride | 9.853 | 180 | 124154 | 18.60 | ug/L | 94 |
| 79) Chlorobenzene | 9.835 | 112 | 287958 | 21.37 | ug/L | 97 |
| 80) 4-Chlorobenzotrifluoride | 9.908 | 180 | 112616 | 18.89 | ug/L | 96 |
| 81) 1,1,1,2-Tetrachloroethane | 9.926 | 131 | 92038 | 21.59 | ug/L | 89 |
| 82) Ethylbenzene | 9.957 | 106 | 159960 | 22.59 | ug/L | 97 |
| 83) (m+p)Xylene | 10.067 | 106 | 387743 | 44.05 | ug/L | 99 |
| 84) o-Xylene | 10.426 | 106 | 196244 | 22.65 | ug/L | 98 |
| 85) Styrene | 10.439 | 104 | 328988 | 22.96 | ug/L | 98 |
| 86) Bromoform | 10.591 | 173 | 57878 | 22.35 | ug/L | 88 |
| 87) 2-Chlorobenzotrifluoride | 10.670 | 180 | 125934 | 18.74 | ug/L | 94 |
| 88) Isopropylbenzene | 10.762 | 105 | 486814 | 23.54 | ug/L | 98 |
| 89) Cyclohexanone | 10.823 | 55 | 415055 | 471.98 | ug/L | 99 |
| 90) trans-1,4-Dichloro-2-B... | 11.066 | 53 | 28542 | 21.69 | ug/L | 89 |
| 92) 1,1,2,2-Tetrachloroethane | 11.018 | 83 | 145084 | 21.24 | ug/L | 99 |
| 93) Bromobenzene | 11.006 | 156 | 119341 | 20.39 | ug/L | 90 |
| 94) 1,2,3-Trichloropropane | 11.054 | 110 | 44475 | 20.14 | ug/L | 94 |
| 95) n-Propylbenzene | 11.115 | 91 | 592121 | 23.59 | ug/L | 99 |
| 96) 2-Chlorotoluene | 11.182 | 91 | 346993 | 22.46 | ug/L | 99 |
| 97) 3-Chlorotoluene | 11.231 | 91 | 336285 | 21.09 | ug/L | 99 |
| 98) 4-Chlorotoluene | 11.274 | 91 | 409855 | 23.16 | ug/L | 99 |
| 99) 1,3,5-Trimethylbenzene | 11.268 | 105 | 423721 | 22.98 | ug/L | 98 |
| 100) tert-Butylbenzene | 11.542 | 119 | 354420 | 23.63 | ug/L | 98 |
| 101) 1,2,4-Trimethylbenzene | 11.585 | 105 | 423456 | 23.68 | ug/L | 97 |
| 102) 3,4-Dichlorobenzotrifl... | 11.640 | 214 | 95810 | 19.26 | ug/L | 93 |
| 103) sec-Butylbenzene | 11.725 | 105 | 518147 | 24.18 | ug/L | 98 |
| 104) p-Isopropyltoluene | 11.847 | 119 | 442949 | 24.47 | ug/L | 99 |

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\091722\
Data File : B5830.D
Acq On : 17 Sep 2022 11:38 am
Operator : F.NAEGLER
Sample : LCS-UNP Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 17 11:55:32 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Sep 08 14:38:30 2022
Response via : Initial Calibration

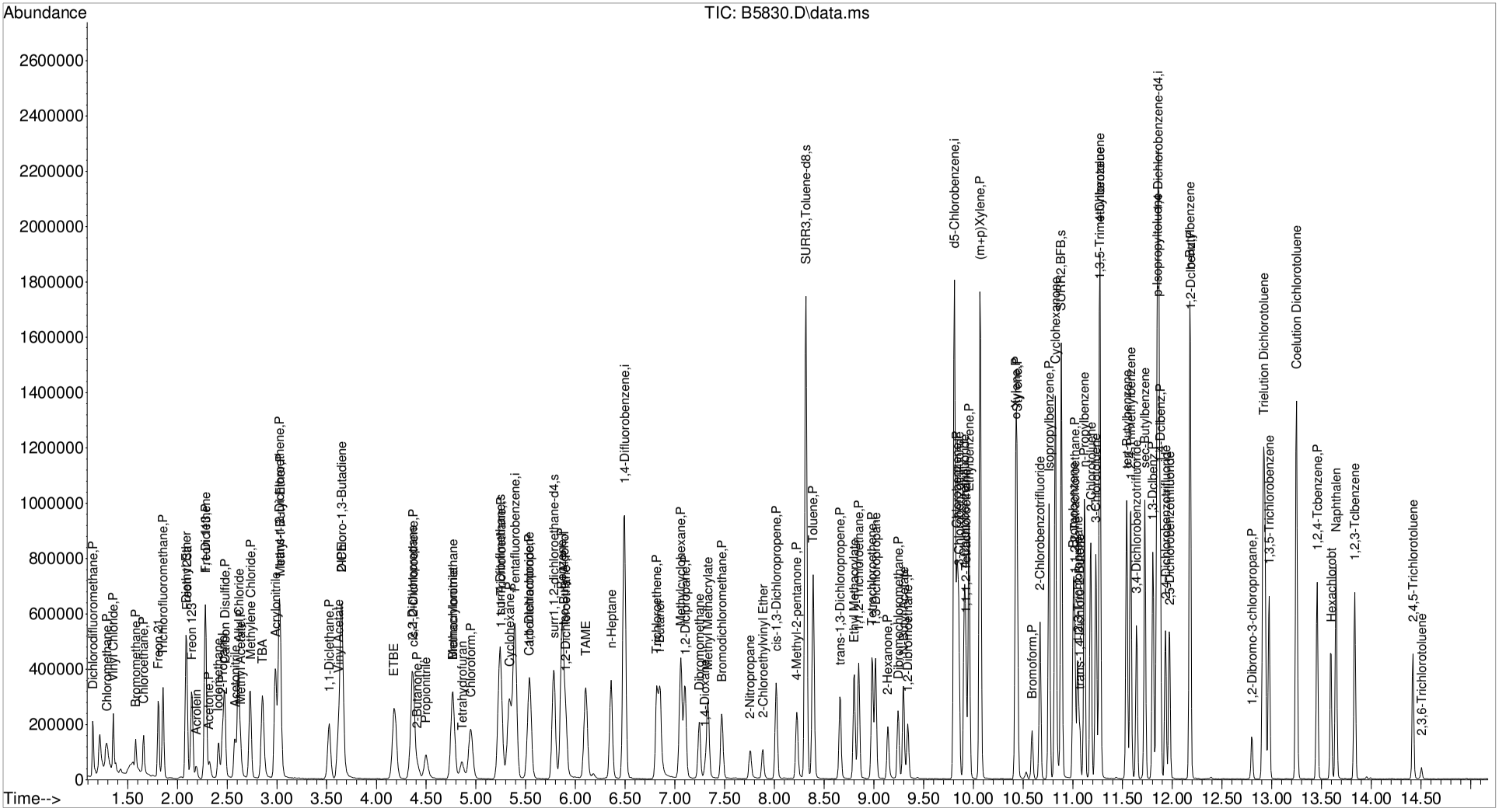
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 105) 1,3-Dclbenz | 11.804 | 146 | 236813 | 23.12 | ug/L | 97 |
| 106) 1,4-Dclbenz | 11.877 | 146 | 239260 | 21.35 | ug/L | 96 |
| 107) 2,4-Dichlorobenzotrifl... | 11.932 | 214 | 84641 | 18.98 | ug/L | 96 |
| 108) 2,5-Dichlorobenzotrifl... | 11.975 | 214 | 97277 | 19.55 | ug/L | 93 |
| 109) n-Butylbenzene | 12.176 | 91 | 393525 | 24.76 | ug/L | 98 |
| 110) 1,2-Dclbenz | 12.182 | 146 | 235825 | 22.12 | ug/L | 99 |
| 111) 1,2-Dibromo-3-chloropr... | 12.798 | 157 | 26250 | 20.90 | ug/L | 89 |
| 112) Trielution Dichlorotol... | 12.920 | 125 | 553746 | 62.33 | ug/L | 97 |
| 113) 1,3,5-Trichlorobenzene | 12.975 | 180 | 141206 | 19.41 | ug/L | 96 |
| 114) Coelution Dichlorotoluene | 13.249 | 125 | 395878 | 41.05 | ug/L | 99 |
| 115) 1,2,4-Tcbenzene | 13.456 | 180 | 146552 | 21.82 | ug/L | 96 |
| 116) Hexachlorobt | 13.596 | 225 | 58580 | 25.91 | ug/L | 94 |
| 117) Naphthalen | 13.645 | 128 | 431233 | 23.15 | ug/L | 99 |
| 118) 1,2,3-Tclbenzene | 13.834 | 180 | 136697 | 21.01 | ug/L | 94 |
| 119) 2,4,5-Trichlorotoluene | 14.419 | 159 | 82400 | 20.32 | ug/L | 92 |
| 120) 2,3,6-Trichlorotoluene | 14.505 | 159 | 6373 | 1.88 | ug/L | 96 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\091722\
Data File : B5830.D
Acq On : 17 Sep 2022 11:38 am
Operator : F.NAEGLER
Sample : LCS-UNP Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 17 11:55:32 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Sep 08 14:38:30 2022
Response via : Initial Calibration








1st 09/17/22
2nd 09/21/22

# Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\msvoa10\data\091722\
Data File : B5829.D
Acq On : 17 Sep 2022 11:03 am
Operator : F.NAEGLER
Sample : CCV Inst : MSVOA10
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 17 11:52:24 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Sep 08 14:38:30 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | i | Pentafluorobenzene | 50.000 | 50.000 | 0.0 | 116 | 0.00 |
| 2 | | Chlorodifluoromethane | 50.000 | 0.000 | 100.0# | 0 | -1.17# |
| 3 | P | Dichlorodifluoromethane | 50.000 | 54.181 | -8.4 | 121 | 0.00 |
| 4 | P | Chloromethane | 50.000 | 46.843 | 6.3 | 120 | 0.00 |
| 5 | P | Vinyl Chloride | 50.000 | 51.463 | -2.9 | 121 | 0.00 |
| 6 | P | Bromomethane | 50.000 | 33.401 | 33.2# | 74 | 0.00 |
| 7 | P | Chloroethane | 50.000 | 52.770 | -5.5 | 138 | 0.00 |
| 8 | | Freon 21 | 50.000 | 53.522 | -7.0 | 129 | 0.00 |
| 9 | P | Trichlorofluoromethane | 50.000 | 52.722 | -5.4 | 132 | 0.00 |
| 10 | | Diethyl Ether | 50.000 | 51.818 | -3.6 | 122 | 0.00 |
| 11 | | Freon 123a | 50.000 | 52.750 | -5.5 | 131 | 0.00 |
| 12 | | Freon 123 | 50.000 | 55.153 | -10.3 | 135 | 0.00 |
| 13 | | Acrolein | 250.000 | 234.709 | 6.1 | 104 | 0.00 |
| 14 | | 1,1-Diclethene | 50.000 | 51.707 | -3.4 | 131 | 0.00 |
| 15 | P | Freon 113 | 50.000 | 50.874 | -1.7 | 135 | 0.00 |
| 16 | P | Acetone | 50.000 | 53.127 | -6.3 | 123 | 0.00 |
| 17 | | 2-Propanol | 1000.000 | 936.597 | 6.3 | 108 | 0.00 |
| 18 | | Iodomethane | 50.000 | 42.885 | 14.2 | 96 | 0.00 |
| 19 | P | Carbon Disulfide | 50.000 | 54.391 | -8.8 | 126 | 0.00 |
| 20 | | Acetonitrile | 250.000 | 287.414 | -15.0 | 126 | 0.00 |
| 21 | | Allyl Chloride | 50.000 | 49.930 | 0.1 | 126 | 0.00 |
| 22 | P | Methyl Acetate | 50.000 | 48.143 | 3.7 | 113 | 0.00 |
| 23 | P | Methylene Chloride | 50.000 | 49.089 | 1.8 | 123 | 0.00 |
| 24 | | TBA | 1000.000 | 938.985 | 6.1 | 108 | 0.00 |
| 25 | | Acrylonitrile | 250.000 | 253.804 | -1.5 | 112 | 0.00 |
| 26 | P | Methyl-t-Butyl Ether | 50.000 | 49.980 | 0.0 | 117 | 0.00 |
| 27 | P | trans-1,2-Dichloroethene | 50.000 | 51.725 | -3.5 | 128 | 0.00 |
| 28 | P | 1,1-Diclethane | 50.000 | 52.989 | -6.0 | 126 | 0.00 |
| 29 | | Vinyl Acetate | 50.000 | 52.248 | -4.5 | 118 | 0.00 |
| 30 | | DIPE | 50.000 | 49.142 | 1.7 | 109 | 0.00 |
| 31 | | 2-Chloro-1,3-Butadiene | 50.000 | 54.870 | -9.7 | 124 | 0.00 |
| 32 | | ETBE | 50.000 | 47.767 | 4.5 | 110 | 0.00 |
| 33 | | 2,2-Dichloropropane | 50.000 | 54.936 | -9.9 | 130 | 0.00 |
| 34 | P | cis-1,2-Dichloroethene | 50.000 | 49.788 | 0.4 | 121 | 0.00 |
| 35 | P | 2-Butanone | 50.000 | 48.678 | 2.6 | 112 | 0.00 |
| 36 | | Propionitrile | 250.000 | 265.880 | -6.4 | 114 | 0.00 |
| 37 | | Bromochloromethane | 50.000 | 49.154 | 1.7 | 117 | 0.00 |
| 38 | | Methacrylonitrile | 50.000 | 49.670 | 0.7 | 115 | 0.01 |
| 39 | | Tetrahydrofuran | 50.000 | 46.463 | 7.1 | 110 | 0.00 |
| 40 | P | Chloroform | 50.000 | 50.286 | -0.6 | 121 | 0.00 |
| 41 | P | 1,1,1-Trichloroethane | 50.000 | 51.571 | -3.1 | 125 | 0.00 |
| 42 | i | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 115 | 0.00 |
| 43 | P | Cyclohexane | 50.000 | 56.789 | -13.6 | 135 | 0.00 |
| 44 | s | surr4,Dibrflmethane | 50.000 | 51.136 | -2.3 | 118 | 0.00 |
| 45 | P | Carbontetrachloride | 50.000 | 53.874 | -7.7 | 129 | 0.00 |
| 46 | | 1,1-Dichloropropene | 50.000 | 53.791 | -7.6 | 129 | 0.00 |
| 47 | s | surr1,1,2-dichloroethane-d4 | 50.000 | 51.456 | -2.9 | 116 | 0.00 |
| 48 | P | Benzene | 50.000 | 52.505 | -5.0 | 125 | 0.00 |
| 49 | P | 1,2-Dichloroethane | 50.000 | 53.729 | -7.5 | 120 | 0.00 |
| 50 | | Iso-Butyl Alcohol | 1000.000 | 966.195 | 3.4 | 106 | 0.00 |
| 51 | | TAME | 50.000 | 48.932 | 2.1 | 106 | 0.00 |

# Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\msvoa10\data\091722\
Data File : B5829.D
Acq On : 17 Sep 2022 11:03 am
Operator : F.NAEGLER
Sample : CCV Inst : MSVOA10
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 17 11:52:24 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Sep 08 14:38:30 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 52 | | n-Heptane | 50.000 | 60.702 | -21.4# | 157 | 0.00 |
| 53 | | 1-Butanol | 2500.000 | 2442.117 | 2.3 | 101 | 0.00 |
| 54 | P | Trichloroethene | 50.000 | 51.725 | -3.5 | 124 | 0.00 |
| 55 | P | Methylcyclohexane | 50.000 | 58.062 | -16.1 | 139 | 0.00 |
| 56 | P | 1,2-Diclpropane | 50.000 | 52.710 | -5.4 | 117 | 0.00 |
| 57 | | Dibromomethane | 50.000 | 48.458 | 3.1 | 117 | 0.00 |
| 58 | | 1,4-Dioxane | 1000.000 | 966.012 | 3.4 | 112 | 0.00 |
| 59 | | Methyl Methacrylate | 50.000 | 50.371 | -0.7 | 109 | 0.00 |
| 60 | P | Bromodichloromethane | 50.000 | 52.476 | -5.0 | 121 | 0.00 |
| 61 | | 2-Nitropropane | 100.000 | 106.292 | -6.3 | 118 | 0.00 |
| 62 | | 2-Chloroethylvinyl Ether | 50.000 | 51.666 | -3.3 | 109 | 0.00 |
| 63 | P | cis-1,3-Dichloropropene | 50.000 | 55.852 | -11.7 | 120 | 0.00 |
| 64 | P | 4-Methyl-2-pentanone | 50.000 | 51.883 | -3.8 | 111 | 0.00 |
| 65 | s | SURR3,Toluene-d8 | 50.000 | 51.162 | -2.3 | 119 | 0.00 |
| 66 | P | Toluene | 50.000 | 51.714 | -3.4 | 122 | 0.00 |
| 67 | P | trans-1,3-Dichloropropene | 50.000 | 56.275 | -12.5 | 118 | 0.00 |
| 68 | | Ethyl Methacrylate | 50.000 | 53.289 | -6.6 | 111 | 0.00 |
| 69 | P | 1,1,2-Trichloroethane | 50.000 | 51.130 | -2.3 | 117 | 0.00 |
| 70 | s | SURR2,BFB | 50.000 | 51.948 | -3.9 | 117 | 0.00 |
| 71 | i | d5-Chlorobenzene | 50.000 | 50.000 | 0.0 | 114 | 0.00 |
| 72 | P | Tetrachloroethene | 50.000 | 49.692 | 0.6 | 126 | 0.00 |
| 73 | P | 2-Hexanone | 50.000 | 50.380 | -0.8 | 112 | 0.00 |
| 74 | | 1,3-Dichloropropane | 50.000 | 50.059 | -0.1 | 116 | 0.00 |
| 75 | P | Dibromochloromethane | 50.000 | 51.515 | -3.0 | 115 | 0.00 |
| 76 | | N-Butyl Acetate | 50.000 | 52.061 | -4.1 | 109 | 0.00 |
| 77 | P | 1,2-Dibromoethane | 50.000 | 52.146 | -4.3 | 114 | 0.00 |
| 78 | | 3-Chlorobenzotrifluoride | 50.000 | 44.394 | 11.2 | 100 | 0.00 |
| 79 | P | Chlorobenzene | 50.000 | 52.254 | -4.5 | 120 | 0.00 |
| 80 | | 4-Chlorobenzotrifluoride | 50.000 | 44.075 | 11.8 | 98 | 0.00 |
| 81 | | 1,1,1,2-Tetrachloroethane | 50.000 | 51.394 | -2.8 | 119 | 0.00 |
| 82 | P | Ethylbenzene | 50.000 | 51.983 | -4.0 | 122 | 0.00 |
| 83 | P | (m+p)Xylene | 100.000 | 103.682 | -3.7 | 125 | 0.00 |
| 84 | P | o-Xylene | 50.000 | 52.494 | -5.0 | 122 | 0.00 |
| 85 | P | Styrene | 50.000 | 53.708 | -7.4 | 118 | 0.00 |
| 86 | P | Bromoform | 50.000 | 54.050 | -8.1 | 110 | 0.00 |
| 87 | | 2-Chlorobenzotrifluoride | 50.000 | 44.313 | 11.4 | 96 | 0.00 |
| 88 | P | Isopropylbenzene | 50.000 | 52.975 | -6.0 | 124 | 0.00 |
| 89 | | Cyclohexanone | 1000.000 | 867.556 | 13.2 | 108 | 0.00 |
| 90 | | trans-1,4-Dichloro-2-Butene | 50.000 | 47.729 | 4.5 | 108 | 0.00 |
| 91 | i | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 112 | 0.00 |
| 92 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 49.896 | 0.2 | 111 | 0.00 |
| 93 | | Bromobenzene | 50.000 | 48.077 | 3.8 | 115 | 0.00 |
| 94 | | 1,2,3-Trichloropropane | 50.000 | 49.132 | 1.7 | 110 | 0.00 |
| 95 | | n-Propylbenzene | 50.000 | 51.557 | -3.1 | 123 | 0.00 |
| 96 | | 2-Chlorotoluene | 50.000 | 50.803 | -1.6 | 121 | 0.00 |
| 97 | | 3-Chlorotoluene | 50.000 | 49.817 | 0.4 | 104 | 0.00 |
| 98 | | 4-Chlorotoluene | 50.000 | 51.753 | -3.5 | 123 | 0.00 |
| 99 | | 1,3,5-Trimethylbenzene | 50.000 | 51.509 | -3.0 | 122 | 0.00 |
| 100 | | tert-Butylbenzene | 50.000 | 51.475 | -3.0 | 121 | 0.00 |
| 101 | | 1,2,4-Trimethylbenzene | 50.000 | 52.756 | -5.5 | 122 | 0.00 |

# Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\msvoa10\data\091722\
Data File : B5829.D
Acq On : 17 Sep 2022 11:03 am
Operator : F.NAEGLER
Sample : CCV Inst : MSVOA10
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 17 11:52:24 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Sep 08 14:38:30 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 102 | | 3,4-Dichlorobenzotrifluorid | 50.000 | 44.724 | 10.6 | 101 | 0.00 |
| 103 | | sec-Butylbenzene | 50.000 | 53.232 | -6.5 | 126 | 0.00 |
| 104 | | p-Isopropyltoluene | 50.000 | 54.485 | -9.0 | 125 | 0.00 |
| 105 | P | 1,3-Dclbenz | 50.000 | 51.915 | -3.8 | 118 | 0.00 |
| 106 | P | 1,4-Dclbenz | 50.000 | 47.915 | 4.2 | 117 | 0.00 |
| 107 | | 2,4-Dichlorobenzotrifluorid | 50.000 | 46.168 | 7.7 | 103 | 0.00 |
| 108 | | 2,5-Dichlorobenzotrifluorid | 50.000 | 46.305 | 7.4 | 104 | 0.00 |
| 109 | | n-Butylbenzene | 50.000 | 56.547 | -13.1 | 131 | 0.00 |
| 110 | P | 1,2-Dclbenz | 50.000 | 50.699 | -1.4 | 116 | 0.00 |
| 111 | P | 1,2-Dibromo-3-chloropropane | 50.000 | 49.615 | 0.8 | 105 | 0.00 |
| 112 | | Trielution Dichlorotoluene | 150.000 | 151.037 | -0.7 | 106 | 0.00 |
| 113 | | 1,3,5-Trichlorobenzene | 50.000 | 48.134 | 3.7 | 108 | 0.00 |
| 114 | | Coelution Dichlorotoluene | 100.000 | 102.399 | -2.4 | 106 | 0.00 |
| 115 | P | 1,2,4-Tcbenzene | 50.000 | 53.726 | -7.5 | 121 | 0.00 |
| 116 | | Hexachlorobt | 50.000 | 54.174 | -8.3 | 135 | 0.00 |
| 117 | | Naphthalen | 50.000 | 55.731 | -11.5 | 112 | 0.00 |
| 118 | | 1,2,3-Tclbenzene | 50.000 | 52.526 | -5.1 | 115 | 0.00 |
| 119 | | 2,4,5-Trichlorotoluene | 50.000 | 49.146 | 1.7 | 110 | 0.00 |
| 120 | | 2,3,6-Trichlorotoluene | 50.000 | 56.716 | -13.4 | 110 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

# Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\091722\
Data File : B5829.D
Acq On : 17 Sep 2022 11:03 am
Operator : F.NAEGLER
Sample : CCV Inst : MSVOA10
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 17 11:52:24 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Sep 08 14:38:30 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Pentafluorobenzene | 5.391 | 168 | 480665 | 50.00 | ug/L | | 0.00 |
| 42) 1,4-Difluorobenzene | 6.494 | 114 | 790057 | 50.00 | ug/L | | 0.00 |
| 71) d5-Chlorobenzene | 9.811 | 117 | 721762 | 50.00 | ug/L | | 0.00 |
| 91) 1,4-Dichlorobenzene-d4 | 11.859 | 152 | 367435 | 50.00 | ug/L | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 44) surr4,Dibrflmethane | 5.244 | 113 | 258354 | 51.14 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 116 | | Recovery = 102.28% | | | | |
| 47) surr1,1,2-dichloroetha... | 5.781 | 65 | 333800 | 51.46 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 73 - 125 | | Recovery = 102.92% | | | | |
| 65) SURR3,Toluene-d8 | 8.317 | 98 | 984906 | 51.16 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 87 - 121 | | Recovery = 102.32% | | | | |
| 70) SURR2,BFB | 10.884 | 95 | 376690 | 51.95 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 85 - 122 | | Recovery = 103.90% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 3) Dichlorodifluoromethane | 1.148 | 85 | 318560 | 54.18 | ug/L | | 98 |
| 4) Chloromethane | 1.288 | 50 | 301104 | 46.84 | ug/L | | 98 |
| 5) Vinyl Chloride | 1.355 | 62 | 312490 | 51.46 | ug/L | | 91 |
| 6) Bromomethane | 1.581 | 94 | 117415 | 33.40 | ug/L | | 90 |
| 7) Chloroethane | 1.660 | 64 | 214522 | 52.77 | ug/L | | 97 |
| 8) Freon 21 | 1.806 | 67 | 509943 | 53.52 | ug/L | | 96 |
| 9) Trichlorofluoromethane | 1.855 | 101 | 410966 | 52.72 | ug/L | | 98 |
| 10) Diethyl Ether | 2.087 | 59 | 241366 | 51.82 | ug/L | | 95 |
| 11) Freon 123a | 2.093 | 67 | 310050 | 52.75 | ug/L | | 91 |
| 12) Freon 123 | 2.141 | 83 | 355201 | 55.15 | ug/L | | 94 |
| 13) Acrolein | 2.190 | 56 | 289563 | 234.71 | ug/L | | 99 |
| 14) 1,1-Diclethene | 2.282 | 96 | 220572 | 51.71 | ug/L | | 97 |
| 15) Freon 113 | 2.282 | 101 | 235786 | 50.87 | ug/L | | 97 |
| 16) Acetone | 2.324 | 43 | 150951 | 53.13 | ug/L | | 98 |
| 17) 2-Propanol | 2.452 | 45 | 480323 | 936.60 | ug/L | | 100 |
| 18) Iodomethane | 2.416 | 142 | 277833 | 42.89 | ug/L | | 95 |
| 19) Carbon Disulfide | 2.477 | 76 | 679461 | 54.39 | ug/L | | 99 |
| 20) Acetonitrile | 2.574 | 41 | 327700 | 287.41 | ug/L | | 96 |
| 21) Allyl Chloride | 2.611 | 76 | 113488 | 49.93 | ug/L | # | 94 |
| 22) Methyl Acetate | 2.635 | 43 | 331206 | 48.14 | ug/L | | 97 |
| 23) Methylene Chloride | 2.733 | 84 | 262932 | 49.09 | ug/L | | 96 |
| 24) TBA | 2.855 | 59 | 626262 | 938.99 | ug/L | | 100 |
| 25) Acrylonitrile | 2.983 | 53 | 700479 | 253.80 | ug/L | | 99 |
| 26) Methyl-t-Butyl Ether | 3.031 | 73 | 733877 | 49.98 | ug/L | | 98 |
| 27) trans-1,2-Dichloroethene | 3.025 | 96 | 242877 | 51.72 | ug/L | # | 87 |
| 28) 1,1-Diclethane | 3.525 | 63 | 463534 | 52.99 | ug/L | | 99 |
| 29) Vinyl Acetate | 3.611 | 86 | 49012 | 52.25 | ug/L | # | 90 |
| 30) DIPE | 3.653 | 45 | 939778 | 49.14 | ug/L | | 100 |
| 31) 2-Chloro-1,3-Butadiene | 3.647 | 53 | 454668 | 54.87 | ug/L | | 97 |
| 32) ETBE | 4.178 | 59 | 639514 | 47.77 | ug/L | | 98 |
| 33) 2,2-Dichloropropane | 4.367 | 77 | 251949 | 54.94 | ug/L | | 96 |
| 34) cis-1,2-Dichloroethene | 4.373 | 96 | 272757 | 49.79 | ug/L | | 93 |
| 35) 2-Butanone | 4.415 | 43 | 231412 | 48.68 | ug/L | | 97 |
| 36) Propionitrile | 4.495 | 54 | 284819 | 265.88 | ug/L | | 96 |
| 37) Bromochloromethane | 4.769 | 130 | 177521 | 49.15 | ug/L | | 95 |
| 38) Methacrylonitrile | 4.775 | 67 | 130496 | 49.67 | ug/L | | 91 |
| 39) Tetrahydrofuran | 4.860 | 42 | 133987 | 46.46 | ug/L | | 86 |
| 40) Chloroform | 4.952 | 83 | 454750 | 50.29 | ug/L | | 98 |
| 41) 1,1,1-Trichloroethane | 5.244 | 97 | 340006 | 51.57 | ug/L | | 94 |

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\091722\
Data File : B5829.D
Acq On : 17 Sep 2022 11:03 am
Operator : F.NAEGLER
Sample : CCV Inst : MSVOA10
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 17 11:52:24 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Sep 08 14:38:30 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 43) Cyclohexane | 5.330 | 41 | 352447 | 56.79 | ug/L | 97 |
| 45) Carbontetrachloride | 5.531 | 117 | 283704 | 53.87 | ug/L | 94 |
| 46) 1,1-Dichloropropene | 5.543 | 75 | 330598 | 53.79 | ug/L | 97 |
| 48) Benzene | 5.866 | 78 | 974197 | 52.50 | ug/L | 98 |
| 49) 1,2-Dichloroethane | 5.903 | 62 | 407670 | 53.73 | ug/L | 94 |
| 50) Iso-Butyl Alcohol | 5.879 | 43 | 355448 | 966.19 | ug/L | 93 |
| 51) TAME | 6.104 | 73 | 571516 | 48.93 | ug/L | 97 |
| 52) n-Heptane | 6.360 | 43 | 406020 | 60.70 | ug/L | 96 |
| 53) 1-Butanol | 6.854 | 56 | 447609 | 2442.12 | ug/L | 92 |
| 54) Trichloroethene | 6.823 | 130 | 255582 | 51.72 | ug/L | 95 |
| 55) Methylcyclohexane | 7.061 | 55 | 354533 | 58.06 | ug/L | 97 |
| 56) 1,2-Diclpropane | 7.098 | 63 | 260608 | 52.71 | ug/L | 98 |
| 57) Dibromomethane | 7.244 | 93 | 175293 | 48.46 | ug/L | 97 |
| 58) 1,4-Dioxane | 7.311 | 88 | 96223 | 966.01 | ug/L | 94 |
| 59) Methyl Methacrylate | 7.336 | 69 | 191492 | 50.37 | ug/L | 97 |
| 60) Bromodichloromethane | 7.470 | 83 | 332117 | 52.48 | ug/L | 97 |
| 61) 2-Nitropropane | 7.756 | 41 | 169594 | 106.29 | ug/L | 95 |
| 62) 2-Chloroethylvinyl Ether | 7.884 | 63 | 165809 | 51.67 | ug/L | 92 |
| 63) cis-1,3-Dichloropropene | 8.018 | 75 | 349521 | 55.85 | ug/L | 96 |
| 64) 4-Methyl-2-pentanone | 8.226 | 43 | 426387 | 51.88 | ug/L | 95 |
| 66) Toluene | 8.390 | 91 | 1070346 | 51.71 | ug/L | 98 |
| 67) trans-1,3-Dichloropropene | 8.658 | 75 | 287075 | 56.28 | ug/L | 99 |
| 68) Ethyl Methacrylate | 8.805 | 69 | 339075 | 53.29 | ug/L | 95 |
| 69) 1,1,2-Trichloroethane | 8.847 | 97 | 244037 | 51.13 | ug/L | 97 |
| 72) Tetrachloroethene | 8.982 | 164 | 180381 | 49.69 | ug/L | 96 |
| 73) 2-Hexanone | 9.140 | 43 | 302738 | 50.38 | ug/L | 98 |
| 74) 1,3-Dichloropropane | 9.018 | 76 | 412987 | 50.06 | ug/L | 97 |
| 75) Dibromochloromethane | 9.244 | 129 | 255250 | 51.52 | ug/L | 98 |
| 76) N-Butyl Acetate | 9.299 | 43 | 600873 | 52.06 | ug/L | 99 |
| 77) 1,2-Dibromoethane | 9.341 | 107 | 248971 | 52.15 | ug/L | 93 |
| 78) 3-Chlorobenzotrifluoride | 9.853 | 180 | 293148 | 44.39 | ug/L | 99 |
| 79) Chlorobenzene | 9.835 | 112 | 696320 | 52.25 | ug/L | 97 |
| 80) 4-Chlorobenzotrifluoride | 9.908 | 180 | 259967 | 44.07 | ug/L | 97 |
| 81) 1,1,1,2-Tetrachloroethane | 9.927 | 131 | 223165 | 51.39 | ug/L | 95 |
| 82) Ethylbenzene | 9.957 | 106 | 364036 | 51.98 | ug/L | 97 |
| 83) (m+p)Xylene | 10.067 | 106 | 902654 | 103.68 | ug/L | 97 |
| 84) o-Xylene | 10.426 | 106 | 449811 | 52.49 | ug/L | 100 |
| 85) Styrene | 10.439 | 104 | 761289 | 53.71 | ug/L | 99 |
| 86) Bromoform | 10.591 | 173 | 147425 | 54.05 | ug/L | 91 |
| 87) 2-Chlorobenzotrifluoride | 10.670 | 180 | 294533 | 44.31 | ug/L | 93 |
| 88) Isopropylbenzene | 10.762 | 105 | 1083534 | 52.97 | ug/L | 99 |
| 89) Cyclohexanone | 10.823 | 55 | 754620 | 867.56 | ug/L | 100 |
| 90) trans-1,4-Dichloro-2-B... | 11.067 | 53 | 63800 | 47.73 | ug/L | 93 |
| 92) 1,1,2,2-Tetrachloroethane | 11.024 | 83 | 352729 | 49.90 | ug/L | 96 |
| 93) Bromobenzene | 11.006 | 156 | 291349 | 48.08 | ug/L | 97 |
| 94) 1,2,3-Trichloropropane | 11.048 | 110 | 112332 | 49.13 | ug/L | 96 |
| 95) n-Propylbenzene | 11.115 | 91 | 1339800 | 51.56 | ug/L | 99 |
| 96) 2-Chlorotoluene | 11.182 | 91 | 812468 | 50.80 | ug/L | 97 |
| 97) 3-Chlorotoluene | 11.231 | 91 | 822333 | 49.82 | ug/L | 100 |
| 98) 4-Chlorotoluene | 11.274 | 91 | 948213 | 51.75 | ug/L | 99 |
| 99) 1,3,5-Trimethylbenzene | 11.268 | 105 | 982944 | 51.51 | ug/L | 97 |
| 100) tert-Butylbenzene | 11.542 | 119 | 799177 | 51.48 | ug/L | 98 |
| 101) 1,2,4-Trimethylbenzene | 11.579 | 105 | 976604 | 52.76 | ug/L | 98 |
| 102) 3,4-Dichlorobenzotrifl... | 11.646 | 214 | 230252 | 44.72 | ug/L | 98 |
| 103) sec-Butylbenzene | 11.725 | 105 | 1180555 | 53.23 | ug/L | 99 |
| 104) p-Isopropyltoluene | 11.847 | 119 | 1021115 | 54.48 | ug/L | 100 |

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\091722\
Data File : B5829.D
Acq On : 17 Sep 2022 11:03 am
Operator : F.NAEGLER
Sample : CCV Inst : MSVOA10
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 17 11:52:24 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Sep 08 14:38:30 2022
Response via : Initial Calibration

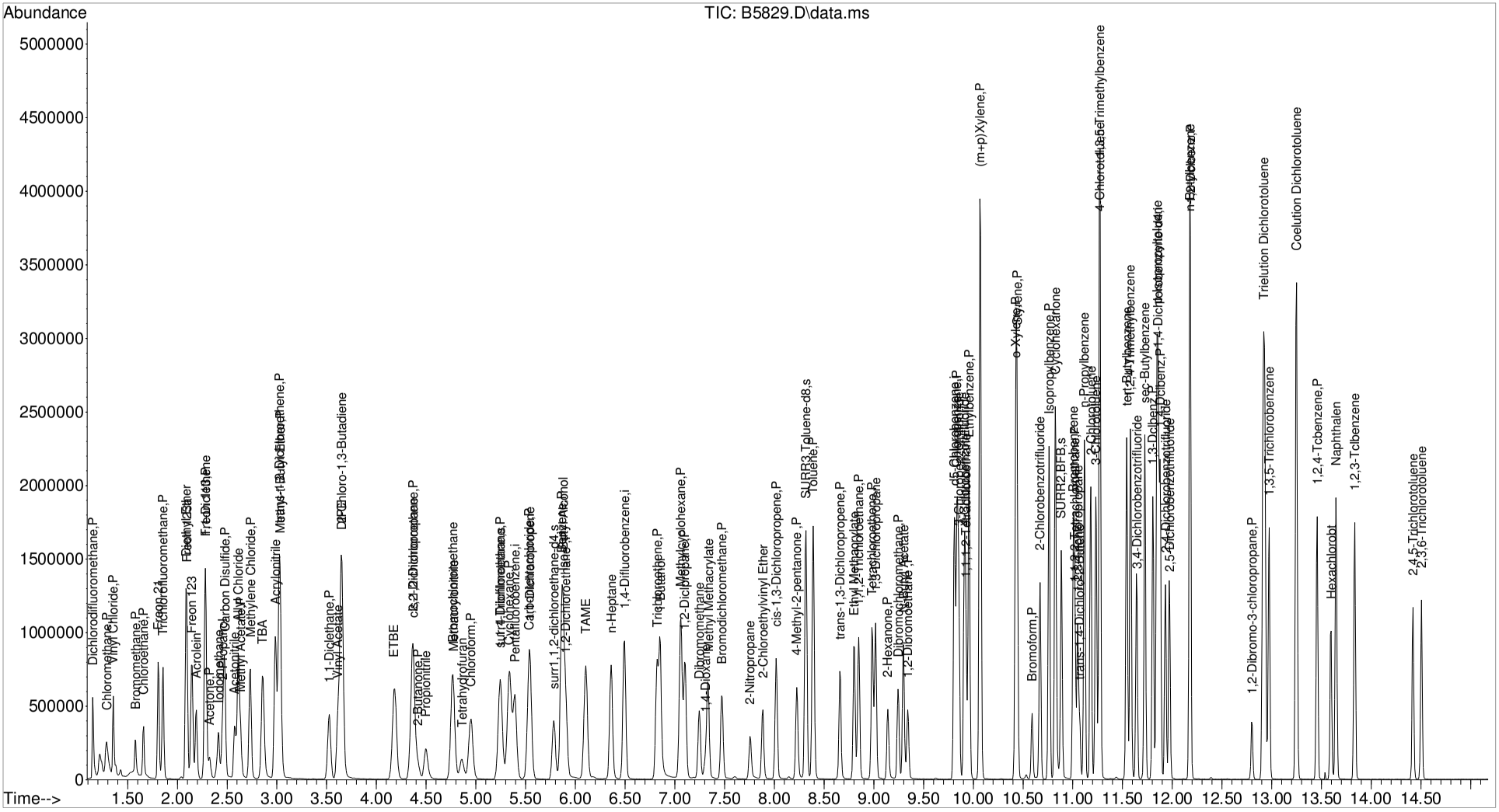
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 105) 1,3-Dclbenz | 11.804 | 146 | 550375 | 51.91 | ug/L | 98 |
| 106) 1,4-Dclbenz | 11.877 | 146 | 555798 | 47.91 | ug/L | 97 |
| 107) 2,4-Dichlorobenzotrifl... | 11.932 | 214 | 213163 | 46.17 | ug/L | 97 |
| 108) 2,5-Dichlorobenzotrifl... | 11.975 | 214 | 238490 | 46.31 | ug/L | 97 |
| 109) n-Butylbenzene | 12.176 | 91 | 930191 | 56.55 | ug/L | 99 |
| 110) 1,2-Dclbenz | 12.182 | 146 | 559478 | 50.70 | ug/L | 98 |
| 111) 1,2-Dibromo-3-chloropr... | 12.804 | 157 | 64506 | 49.61 | ug/L | 95 |
| 112) Trielution Dichlorotol... | 12.920 | 125 | 1389047 | 151.04 | ug/L | 95 |
| 113) 1,3,5-Trichlorobenzene | 12.975 | 180 | 362535 | 48.13 | ug/L | 98 |
| 114) Coelution Dichlorotoluene | 13.249 | 125 | 1022332 | 102.40 | ug/L | 98 |
| 115) 1,2,4-Tcbenzene | 13.456 | 180 | 373544 | 53.73 | ug/L | 94 |
| 116) Hexachlorobt | 13.597 | 225 | 128353 | 54.17 | ug/L | 99 |
| 117) Naphthalen | 13.645 | 128 | 1074595 | 55.73 | ug/L | 99 |
| 118) 1,2,3-Tclbenzene | 13.834 | 180 | 353783 | 52.53 | ug/L | 98 |
| 119) 2,4,5-Trichlorotoluene | 14.420 | 159 | 211263 | 49.15 | ug/L | 96 |
| 120) 2,3,6-Trichlorotoluene | 14.505 | 159 | 199267 | 56.72 | ug/L | 96 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\091722\
Data File : B5829.D
Acq On : 17 Sep 2022 11:03 am
Operator : F.NAEGLER
Sample : CCV Inst : MSVOA10
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 17 11:52:24 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Sep 08 14:38:30 2022
Response via : Initial Calibration







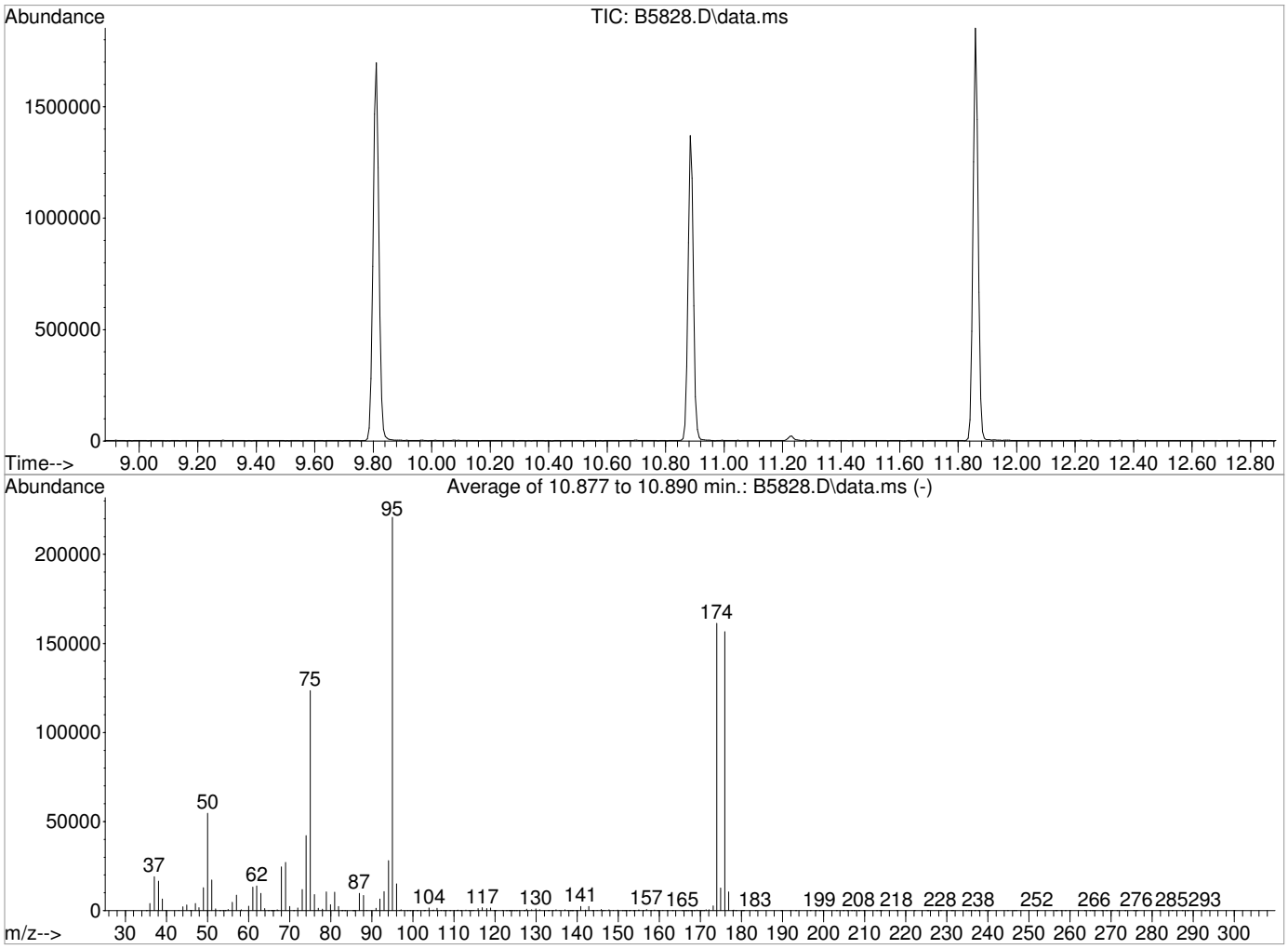

1st 09/17/22
2nd 09/21/22

1st FW 09/17/22
2nd WR 09/21/22

Data Path : I:\ACQUDATA\msvoa10\data\091722\
Data File : B5828.D
Acq On : 17 Sep 2022 10:30 am
Operator : F.NAEGLER
Sample : TUNE Inst : MSVOA10
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Title : MS#10 - 8260B WATERS 5.0mL Purge
Last Update : Thu Sep 08 14:38:30 2022




AutoFind: Scans 1606, 1607, 1608; Background Corrected with Scan 1599

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 24.8 | 54656 | PASS |
| 75 | 95 | 30 | 60 | 56.0 | 123595 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 220779 | PASS |
| 96 | 95 | 5 | 9 | 6.8 | 15056 | PASS |
| 173 | 174 | 0.00 | 2 | 1.7 | 2738 | PASS |
| 174 | 95 | 50 | 120 | 73.1 | 161347 | PASS |
| 175 | 174 | 5 | 9 | 7.9 | 12720 | PASS |
| 176 | 174 | 95 | 101 | 97.0 | 156551 | PASS |
| 177 | 176 | 5 | 9 | 6.7 | 10499 | PASS |

# Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5590.D
Acq On : 8 Sep 2022 2:57 pm
Operator : F.NAEGLER
Sample : 50 PPB ICV Inst : MSVOA10
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 08 16:10:10 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Sep 08 14:38:30 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Pentafluorobenzene | 5.397 | 168 | 435364 | 50.00 | ug/L | | 0.00 |
| 42) 1,4-Difluorobenzene | 6.494 | 114 | 710919 | 50.00 | ug/L | | 0.00 |
| 71) d5-Chlorobenzene | 9.811 | 117 | 656115 | 50.00 | ug/L | | 0.00 |
| 91) 1,4-Dichlorobenzene-d4 | 11.859 | 152 | 339853 | 50.00 | ug/L | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 44) surr4,Dibrflmethane | 5.245 | 113 | 228102 | 50.17 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 116 | | Recovery = 100.34% | | | | |
| 47) surr1,1,2-dichloroetha... | 5.787 | 65 | 289257 | 49.55 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 73 - 125 | | Recovery = 99.10% | | | | |
| 65) SURR3,Toluene-d8 | 8.317 | 98 | 865875 | 49.99 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 87 - 121 | | Recovery = 99.98% | | | | |
| 70) SURR2,BFB | 10.884 | 95 | 327478 | 50.19 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 85 - 122 | | Recovery = 100.38% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Chlorodifluoromethane | 1.160 | 51 | 308295 | 61.92 | ug/L | | 99 |
| 3) Dichlorodifluoromethane | 1.148 | 85 | 238272 | 44.74 | ug/L | | 99 |
| 4) Chloromethane | 1.288 | 50 | 280769 | 48.22 | ug/L | | 100 |
| 5) Vinyl Chloride | 1.355 | 62 | 252560 | 45.92 | ug/L | | 100 |
| 6) Bromomethane | 1.575 | 94 | 169276 | 55.96 | ug/L | | 99 |
| 7) Chloroethane | 1.654 | 64 | 163594 | 44.43 | ug/L | | 96 |
| 8) Freon 21 | 1.806 | 67 | 378377 | 43.85 | ug/L | | 96 |
| 9) Trichlorofluoromethane | 1.855 | 101 | 356840 | 50.54 | ug/L | | 98 |
| 10) Diethyl Ether | 2.087 | 59 | 217176 | 51.48 | ug/L | | 98 |
| 11) Freon 123a | 2.093 | 67 | 263261 | 49.45 | ug/L | | 99 |
| 12) Freon 123 | 2.148 | 83 | 294027 | 50.40 | ug/L | | 96 |
| 13) Acrolein | 2.190 | 56 | 56287 | 50.37 | ug/L | | 100 |
| 14) 1,1-Diclethene | 2.282 | 96 | 208712 | 54.02 | ug/L | | 97 |
| 15) Freon 113 | 2.282 | 101 | 210601 | 50.17 | ug/L | | 99 |
| 16) Acetone | 2.325 | 43 | 130305 | 50.63 | ug/L | | 99 |
| 17) 2-Propanol | 2.459 | 45 | 448945 | 966.50 | ug/L | | 99 |
| 18) Iodomethane | 2.416 | 142 | 286036 | 48.75 | ug/L | | 95 |
| 19) Carbon Disulfide | 2.477 | 76 | 534184 | 47.21 | ug/L | | 99 |
| 20) Acetonitrile | 2.581 | 41 | 270573 | 262.00 | ug/L | | 100 |
| 21) Allyl Chloride | 2.611 | 76 | 112717 | 54.75 | ug/L | | 93 |
| 22) Methyl Acetate | 2.635 | 43 | 288958 | 46.37 | ug/L | | 97 |
| 23) Methylene Chloride | 2.733 | 84 | 234485 | 48.33 | ug/L | | 97 |
| 24) TBA | 2.861 | 59 | 635213 | 1051.51 | ug/L | | 100 |
| 25) Acrylonitrile | 2.989 | 53 | 651561 | 260.64 | ug/L | | 100 |
| 26) Methyl-t-Butyl Ether | 3.032 | 73 | 710723 | 53.44 | ug/L | | 98 |
| 27) trans-1,2-Dichloroethene | 3.026 | 96 | 216080 | 50.81 | ug/L | # | 87 |
| 28) 1,1-Diclethane | 3.525 | 63 | 430940 | 54.39 | ug/L | | 99 |
| 29) Vinyl Acetate | 3.623 | 86 | 37528 | 44.73 | ug/L | # | 92 |
| 30) DIPE | 3.654 | 45 | 913993 | 52.77 | ug/L | | 95 |
| 31) 2-Chloro-1,3-Butadiene | 3.654 | 53 | 382264 | 50.93 | ug/L | | 95 |
| 32) ETBE | 4.184 | 59 | 606671 | 50.03 | ug/L | | 98 |
| 33) 2,2-Dichloropropane | 4.367 | 77 | 234920 | 56.55 | ug/L | | 92 |
| 34) cis-1,2-Dichloroethene | 4.373 | 96 | 250602 | 50.50 | ug/L | | 100 |
| 35) 2-Butanone | 4.422 | 43 | 201782 | 46.86 | ug/L | | 98 |
| 36) Propionitrile | 4.495 | 54 | 263453 | 271.52 | ug/L | | 95 |
| 37) Bromochloromethane | 4.763 | 130 | 167838 | 51.31 | ug/L | | 98 |
| 38) Methacrylonitrile | 4.769 | 67 | 126174 | 53.02 | ug/L | | 90 |
| 39) Tetrahydrofuran | 4.861 | 42 | 129268 | 49.49 | ug/L | | 99 |
| 40) Chloroform | 4.952 | 83 | 412748 | 50.39 | ug/L | | 98 |

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5590.D
Acq On : 8 Sep 2022 2:57 pm
Operator : F.NAEGLER
Sample : 50 PPB ICV Inst : MSVOA10
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 08 16:10:10 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Sep 08 14:38:30 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 41) 1,1,1-Trichloroethane | 5.251 | 97 | 319994 | 53.59 | ug/L | 98 |
| 43) Cyclohexane | 5.336 | 41 | 294393 | 52.72 | ug/L | 96 |
| 45) Carbontetrachloride | 5.537 | 117 | 256298 | 54.09 | ug/L | 95 |
| 46) 1,1-Dichloropropene | 5.543 | 75 | 287134 | 51.92 | ug/L | 98 |
| 48) Benzene | 5.866 | 78 | 886469 | 53.10 | ug/L | 99 |
| 49) 1,2-Dichloroethane | 5.903 | 62 | 372750 | 54.60 | ug/L | 96 |
| 50) Iso-Butyl Alcohol | 5.885 | 43 | 368731 | 1113.88 | ug/L | 89 |
| 51) TAME | 6.110 | 73 | 586723 | 55.83 | ug/L | 97 |
| 52) n-Heptane | 6.360 | 43 | 334150 | 55.52 | ug/L | 96 |
| 53) 1-Butanol | 6.854 | 56 | 428011 | 2579.16 | ug/L | 96 |
| 54) Trichloroethene | 6.824 | 130 | 235171 | 52.89 | ug/L | 97 |
| 55) Methylcyclohexane | 7.061 | 55 | 291418 | 53.04 | ug/L | 95 |
| 56) 1,2-Diclpropane | 7.104 | 63 | 239826 | 53.91 | ug/L | 97 |
| 57) Dibromomethane | 7.250 | 93 | 169907 | 52.20 | ug/L | 98 |
| 58) 1,4-Dioxane | 7.305 | 88 | 88199 | 984.02 | ug/L | 92 |
| 59) Methyl Methacrylate | 7.336 | 69 | 195638 | 57.19 | ug/L | 97 |
| 60) Bromodichloromethane | 7.476 | 83 | 302307 | 53.08 | ug/L | 97 |
| 61) 2-Nitropropane | 7.756 | 41 | 132166 | 92.06 | ug/L | 98 |
| 62) 2-Chloroethylvinyl Ether | 7.884 | 63 | 89467 | 30.98 | ug/L | 93 |
| 63) cis-1,3-Dichloropropene | 8.019 | 75 | 330107 | 58.62 | ug/L | 95 |
| 64) 4-Methyl-2-pentanone | 8.226 | 43 | 392620 | 53.09 | ug/L | 99 |
| 66) Toluene | 8.390 | 91 | 967653 | 51.96 | ug/L | 97 |
| 67) trans-1,3-Dichloropropene | 8.659 | 75 | 289917 | 62.18 | ug/L | 100 |
| 68) Ethyl Methacrylate | 8.805 | 69 | 340328 | 59.44 | ug/L | 95 |
| 69) 1,1,2-Trichloroethane | 8.848 | 97 | 228058 | 53.10 | ug/L | 97 |
| 72) Tetrachloroethene | 8.988 | 164 | 169130 | 51.25 | ug/L | 97 |
| 73) 2-Hexanone | 9.140 | 43 | 282314 | 51.68 | ug/L | 98 |
| 74) 1,3-Dichloropropane | 9.018 | 76 | 394002 | 52.54 | ug/L | 98 |
| 75) Dibromochloromethane | 9.244 | 129 | 231613 | 51.42 | ug/L | 94 |
| 76) N-Butyl Acetate | 9.299 | 43 | 560065 | 53.38 | ug/L | 97 |
| 77) 1,2-Dibromoethane | 9.341 | 107 | 237617 | 54.75 | ug/L | 94 |
| 78) 3-Chlorobenzotrifluoride | 9.854 | 180 | 288456 | 48.05 | ug/L | 98 |
| 79) Chlorobenzene | 9.835 | 112 | 640515 | 52.88 | ug/L | 100 |
| 80) 4-Chlorobenzotrifluoride | 9.908 | 180 | 263777 | 49.19 | ug/L | 98 |
| 81) 1,1,1,2-Tetrachloroethane | 9.927 | 131 | 207447 | 52.50 | ug/L | 95 |
| 82) Ethylbenzene | 9.957 | 106 | 338034 | 53.10 | ug/L | 98 |
| 83) (m+p)Xylene | 10.067 | 106 | 837781 | 105.86 | ug/L | 98 |
| 84) o-Xylene | 10.427 | 106 | 421719 | 54.14 | ug/L | 98 |
| 85) Styrene | 10.439 | 104 | 733211 | 56.90 | ug/L | 98 |
| 86) Bromoform | 10.591 | 173 | 145430 | 58.18 | ug/L | 100 |
| 87) 2-Chlorobenzotrifluoride | 10.670 | 180 | 297120 | 49.17 | ug/L | 97 |
| 88) Isopropylbenzene | 10.762 | 105 | 1064979 | 57.28 | ug/L | 98 |
| 89) Cyclohexanone | 10.823 | 55 | 1200955 | 1518.83 | ug/L | 99 |
| 90) trans-1,4-Dichloro-2-B... | 11.067 | 53 | 79131 | 64.16 | ug/L | 96 |
| 92) 1,1,2,2-Tetrachloroethane | 11.018 | 83 | 338417 | 51.76 | ug/L | 97 |
| 93) Bromobenzene | 11.006 | 156 | 277072 | 49.43 | ug/L | 99 |
| 94) 1,2,3-Trichloropropane | 11.048 | 110 | 108623 | 51.37 | ug/L | 95 |
| 95) n-Propylbenzene | 11.115 | 91 | 1283075 | 53.38 | ug/L | 99 |
| 96) 2-Chlorotoluene | 11.183 | 91 | 773076 | 52.26 | ug/L | 96 |
| 97) 3-Chlorotoluene | 11.231 | 91 | 756599 | 49.55 | ug/L | 95 |
| 98) 4-Chlorotoluene | 11.274 | 91 | 875154 | 51.64 | ug/L | 99 |
| 99) 1,3,5-Trimethylbenzene | 11.268 | 105 | 927692 | 52.56 | ug/L | 99 |
| 100) tert-Butylbenzene | 11.542 | 119 | 778628 | 54.22 | ug/L | 100 |
| 101) 1,2,4-Trimethylbenzene | 11.579 | 105 | 929338 | 54.28 | ug/L | 99 |
| 102) 3,4-Dichlorobenzotrifl... | 11.640 | 214 | 223704 | 46.98 | ug/L | 99 |
| 103) sec-Butylbenzene | 11.725 | 105 | 1128814 | 55.03 | ug/L | 100 |

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5590.D
Acq On : 8 Sep 2022 2:57 pm
Operator : F.NAEGLER
Sample : 50 PPB ICV Inst : MSVOA10
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 08 16:10:10 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Sep 08 14:38:30 2022
Response via : Initial Calibration

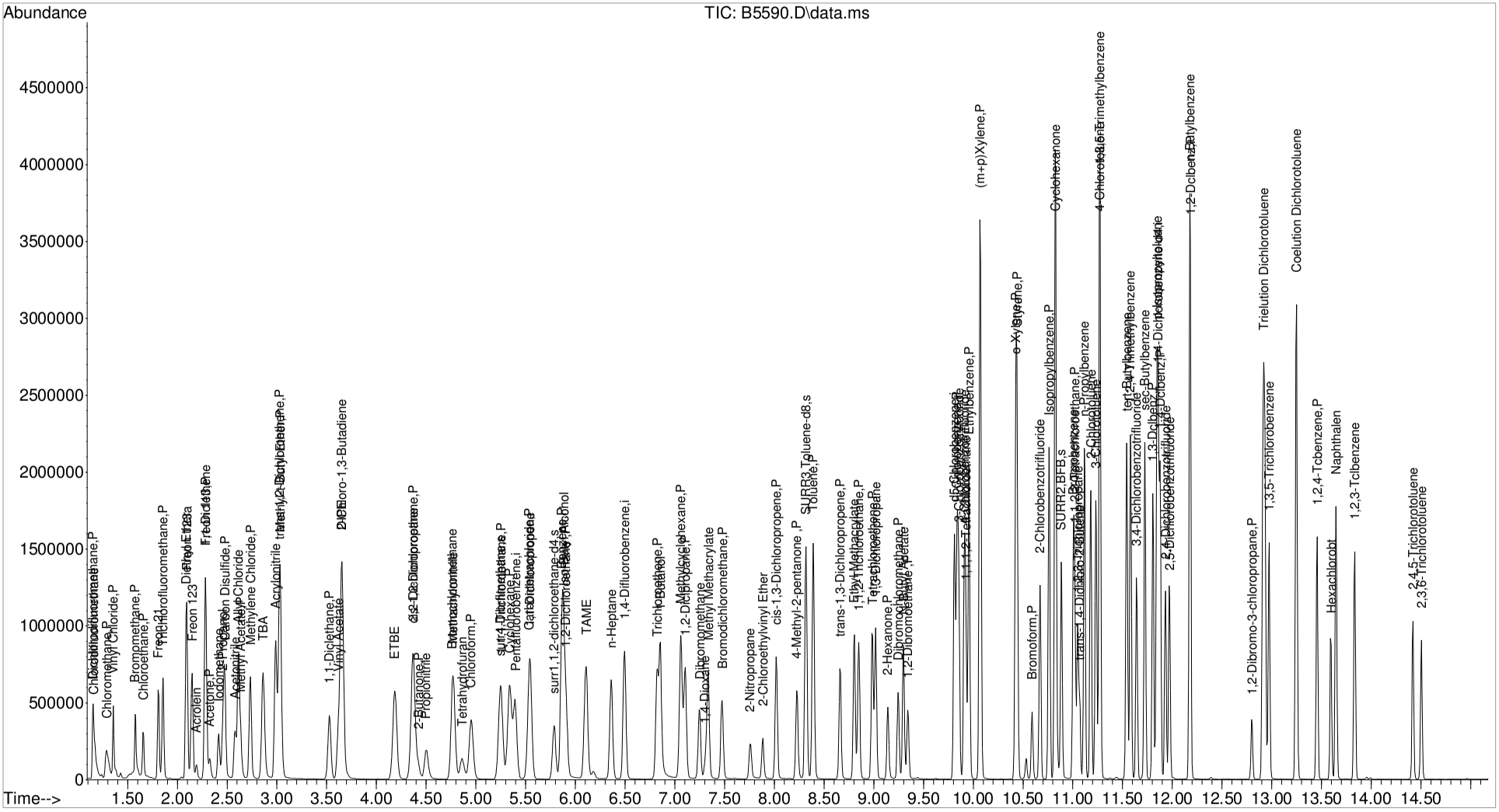
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 104) p-Isopropyltoluene | 11.847 | 119 | 960180 | 55.39 | ug/L | 100 |
| 105) 1,3-Dclbenz | 11.804 | 146 | 532600 | 54.32 | ug/L | 97 |
| 106) 1,4-Dclbenz | 11.878 | 146 | 537190 | 50.07 | ug/L | 97 |
| 107) 2,4-Dichlorobenzotrifl... | 11.932 | 214 | 204425 | 47.87 | ug/L | 92 |
| 108) 2,5-Dichlorobenzotrifl... | 11.975 | 214 | 226431 | 47.53 | ug/L | 95 |
| 109) n-Butylbenzene | 12.176 | 91 | 846670 | 55.65 | ug/L | 98 |
| 110) 1,2-Dclbenz | 12.182 | 146 | 524406 | 51.38 | ug/L | 99 |
| 111) 1,2-Dibromo-3-chloropr... | 12.804 | 157 | 63519 | 52.82 | ug/L | 91 |
| 112) Trielution Dichlorotol... | 12.920 | 125 | 1273172 | 149.67 | ug/L | 94 |
| 113) 1,3,5-Trichlorobenzene | 12.975 | 180 | 334980 | 48.09 | ug/L | 99 |
| 114) Coelution Dichlorotoluene | 13.249 | 125 | 918022 | 99.41 | ug/L | 99 |
| 115) 1,2,4-Tcbenzene | 13.456 | 180 | 327226 | 50.88 | ug/L | 95 |
| 116) Hexachlorobt | 13.597 | 225 | 116189 | 53.05 | ug/L | 96 |
| 117) Naphthalen | 13.645 | 128 | 1004526 | 56.33 | ug/L | 99 |
| 118) 1,2,3-Tclbenzene | 13.834 | 180 | 315244 | 50.60 | ug/L | 99 |
| 119) 2,4,5-Trichlorotoluene | 14.420 | 159 | 185462 | 46.69 | ug/L | 96 |
| 120) 2,3,6-Trichlorotoluene | 14.505 | 159 | 154679 | 47.60 | ug/L | 92 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5590.D
Acq On : 8 Sep 2022 2:57 pm
Operator : F.NAEGLER
Sample : 50 PPB ICV Inst : MSVOA10
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 08 16:10:10 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Sep 08 14:38:30 2022
Response via : Initial Calibration







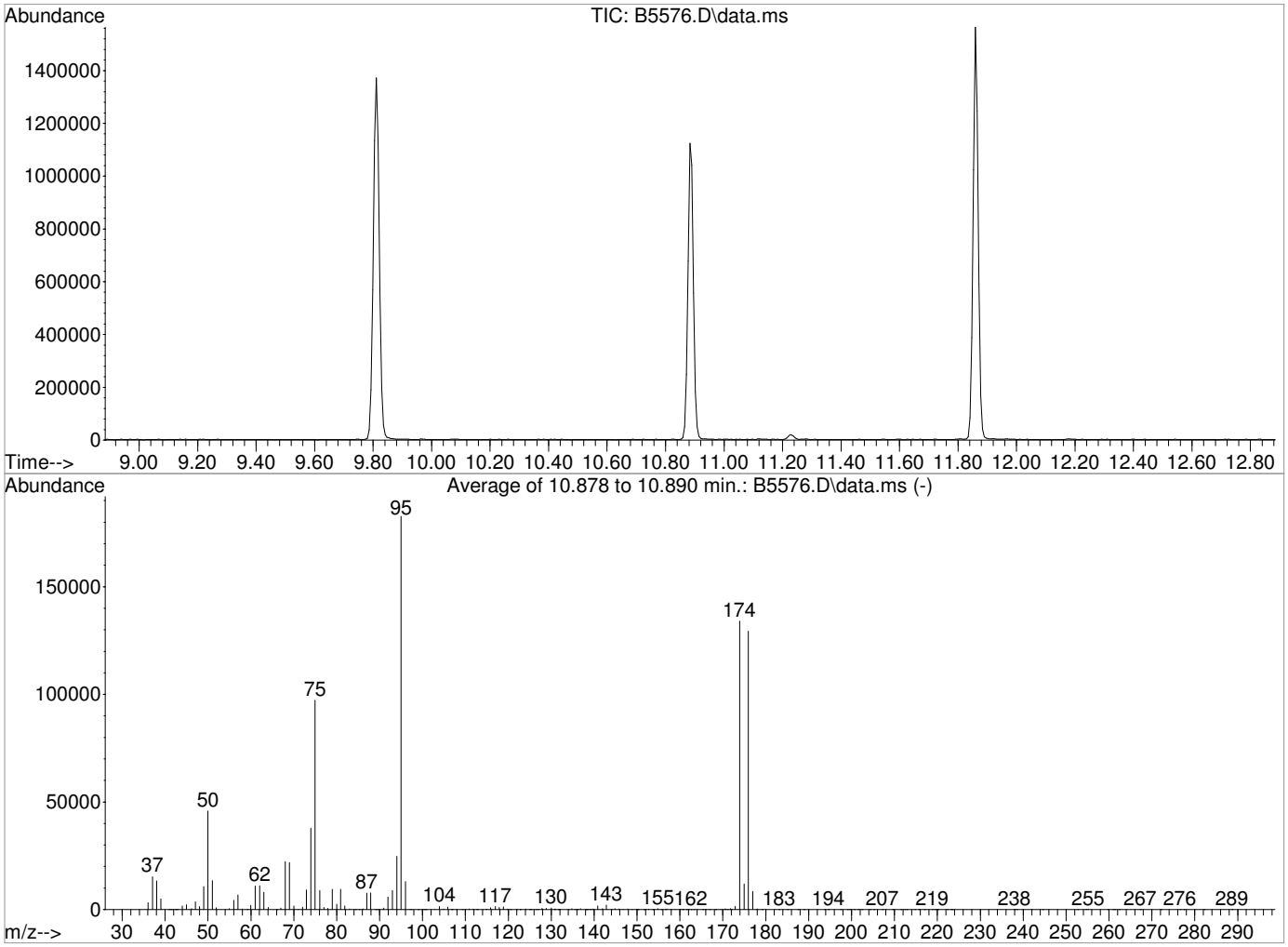

1st 09/08/22
2nd 09/12/22

1st FJ 09/08/22
2nd 09/12/22

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5576.D
Acq On : 8 Sep 2022 9:39 am
Operator : F.NAEGLER
Sample : TUNE Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File: RTEINT.P

Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Title : MS#10 - 8260B WATERS 5.0mL Purge
Last Update : Thu Jul 21 10:00:08 2022



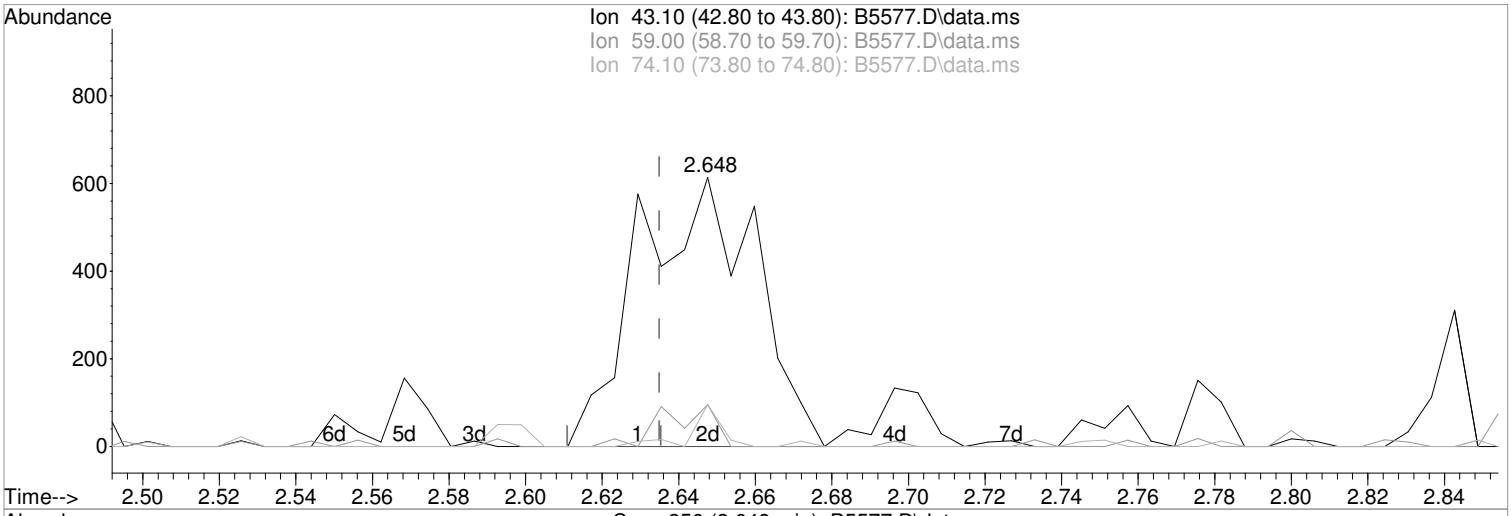

AutoFind: Scans 1606, 1607, 1608; Background Corrected with Scan 1599

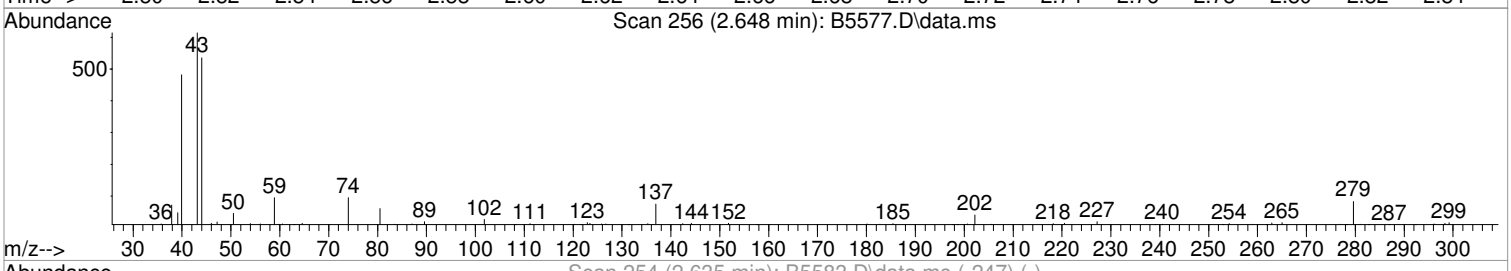
| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 25.1 | 45848 | PASS |
| 75 | 95 | 30 | 60 | 53.3 | 97312 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 182720 | PASS |
| 96 | 95 | 5 | 9 | 7.1 | 12980 | PASS |
| 173 | 174 | 0.00 | 2 | 1.2 | 1559 | PASS |
| 174 | 95 | 50 | 120 | 73.4 | 134051 | PASS |
| 175 | 174 | 5 | 9 | 8.9 | 11896 | PASS |
| 176 | 174 | 95 | 101 | 96.5 | 129317 | PASS |
| 177 | 176 | 5 | 9 | 6.5 | 8447 | PASS |

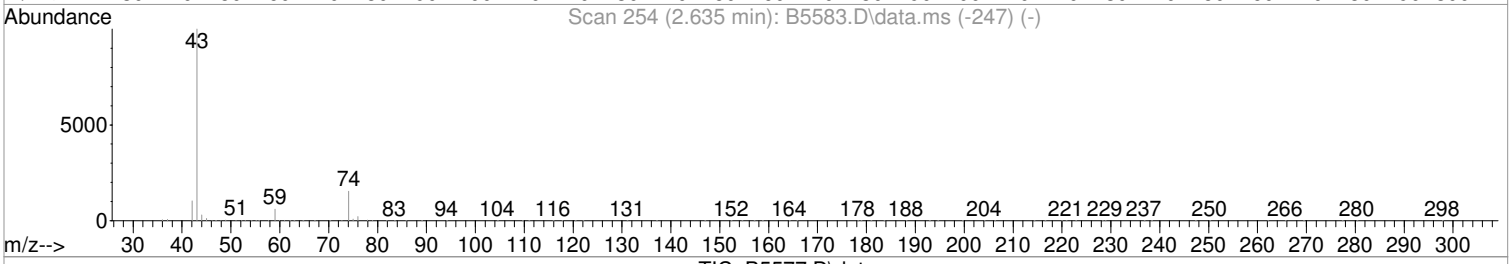
# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5577.D
Acq On : 8 Sep 2022 10:13 am
Operator : F.NAEGLER
Sample : ICALBLK Inst : MSVOA10
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 08 16:58:02 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Sep 08 14:38:30 2022
Response via : Initial Calibration




TIC: B5577.D\data.ms

(22) Methyl Acetate (P)

2.648min (+0.013) 0.22 ug/L m

response 1302

| Ion | Exp% | Act% |
|---|---|---|
| 43.10 | 100 | 100 |
| 59.00 | 6.10 | 15.47 |
| 74.10 | 15.30 | 15.47 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

After

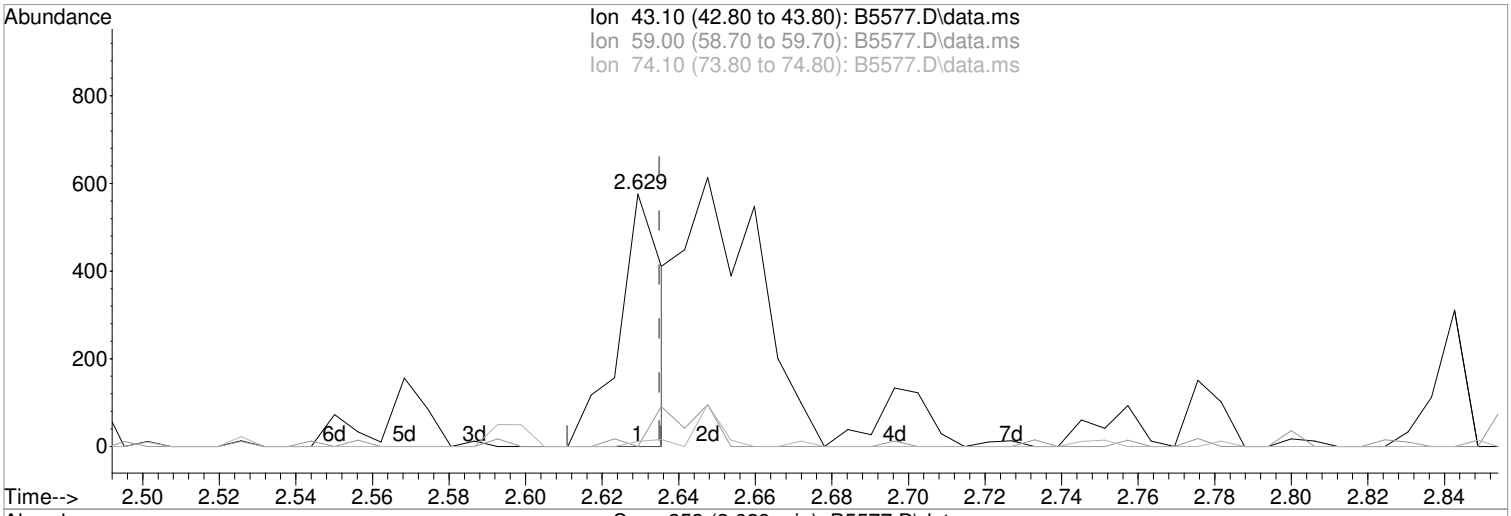
Poor integration.

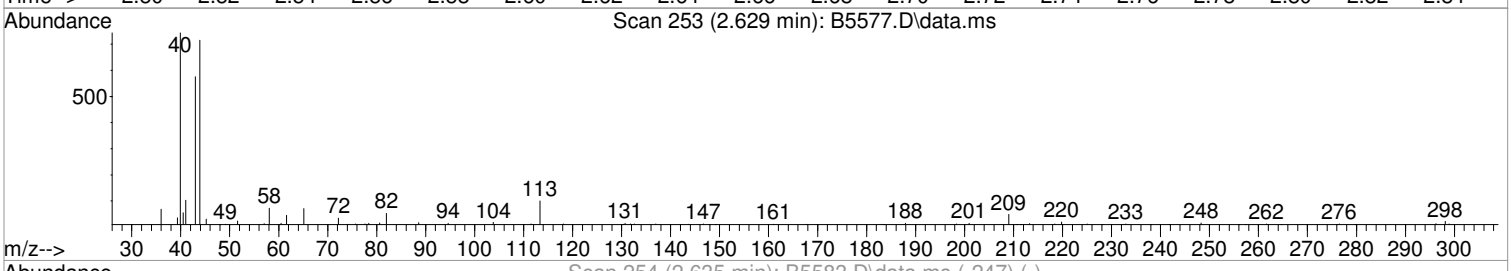
09/08/22

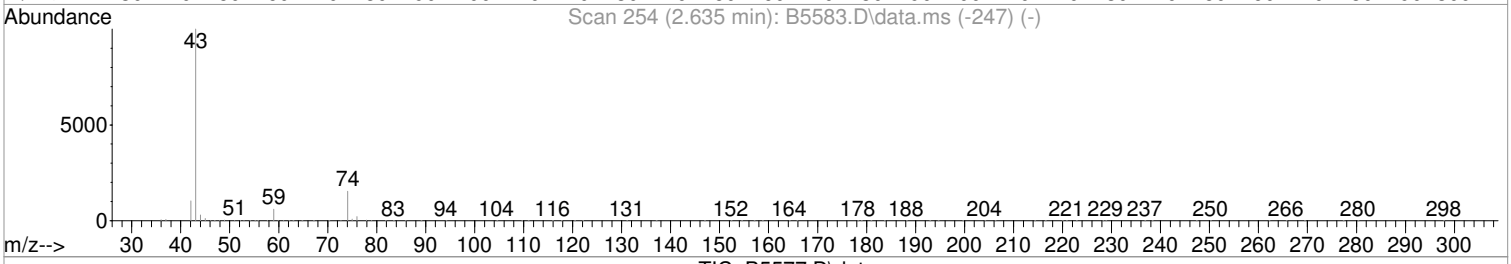
# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5577.D
Acq On : 8 Sep 2022 10:13 am
Operator : F.NAEGLER
Sample : ICALBLK Inst : MSVOA10
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 08 16:58:02 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Sep 08 14:38:30 2022
Response via : Initial Calibration




TIC: B5577.D\data.ms

(22) Methyl Acetate (P)

2.629min (-0.006) 0.08 ug/L

response 461

| Ion | Exp% | Act% |
|---|---|---|
| 43.10 | 100 | 100 |
| 59.00 | 6.10 | 0.00 |
| 74.10 | 15.30 | 1.91 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

Before

09/08/22

# Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5577.D
Acq On : 8 Sep 2022 10:13 am
Operator : F.NAEGLER
Sample : ICALBLK Inst : MSVOA10
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 08 16:58:37 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Sep 08 14:38:30 2022
Response via : Initial Calibration

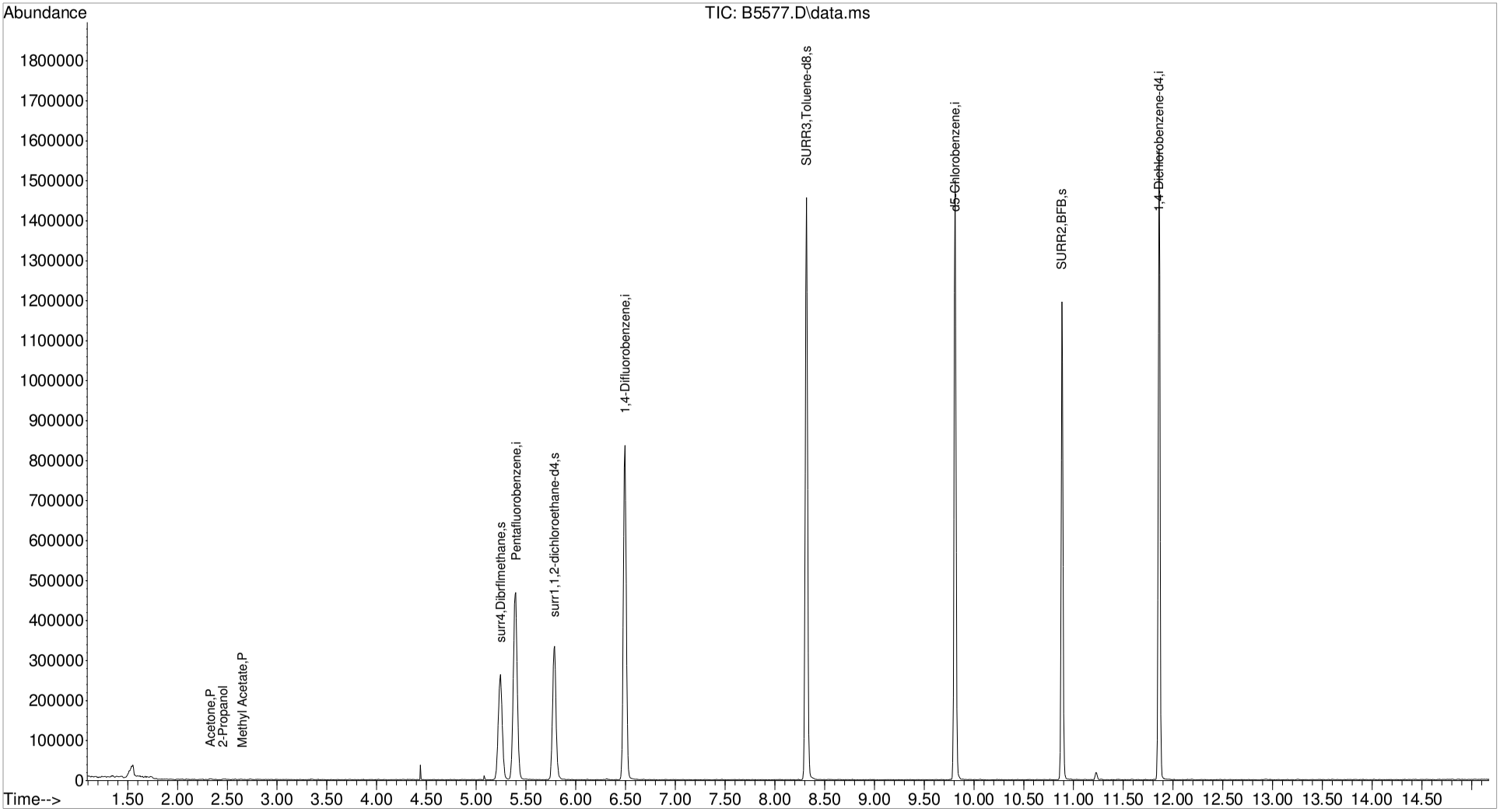
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.397 | 168 | 409608 | 50.00 | ug/L | 0.00 |
| 42) 1,4-Difluorobenzene | 6.494 | 114 | 691474 | 50.00 | ug/L | 0.00 |
| 71) d5-Chlorobenzene | 9.811 | 117 | 617489 | 50.00 | ug/L | 0.00 |
| 91) 1,4-Dichlorobenzene-d4 | 11.859 | 152 | 274380 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 44) surr4,Dibrflmethane | 5.245 | 113 | 214127 | 48.42 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 116 | | Recovery = 96.84% | | | |
| 47) surr1,1,2-dichloroetha... | 5.781 | 65 | 281086 | 49.51 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 73 - 125 | | Recovery = 99.02% | | | |
| 65) SURR3,Toluene-d8 | 8.317 | 98 | 824065 | 48.91 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 87 - 121 | | Recovery = 97.82% | | | |
| 70) SURR2,BFB | 10.884 | 95 | 288154 | 45.40 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 85 - 122 | | Recovery = 90.80% | | | |
| Target Compounds | | | | | | Qvalue |
| 6) Bromomethane | 1.587 | 94 | 627 | Below Cal | # | 64 |
| 16) Acetone | 2.331 | 43 | 1780 | 0.74 | ug/L | 78 |
| 17) 2-Propanol | 2.459 | 45 | 590 | 1.35 | ug/L # | 1 |
| 22) Methyl Acetate | 2.648 | 43 | 1302m | 0.22 | ug/L | |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5577.D
Acq On : 8 Sep 2022 10:13 am
Operator : F.NAEGLER
Sample : ICALBLK Inst : MSVOA10
Misc :
ALS Vial : 1 Sample Multiplier: 1

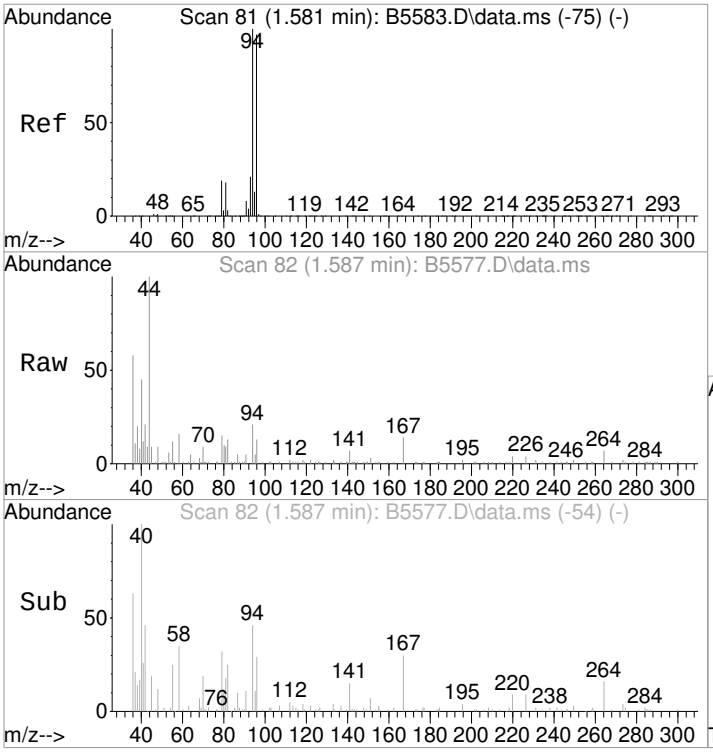
Quant Time: Sep 08 16:58:37 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Sep 08 14:38:30 2022
Response via : Initial Calibration







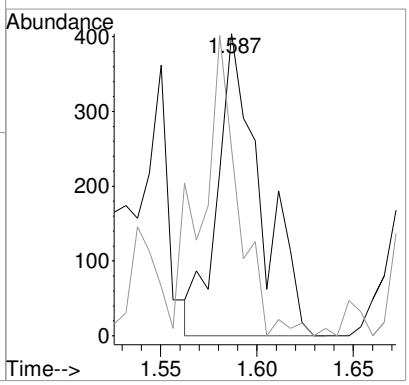

1st FJ 09/08/22
2nd 09/12/22

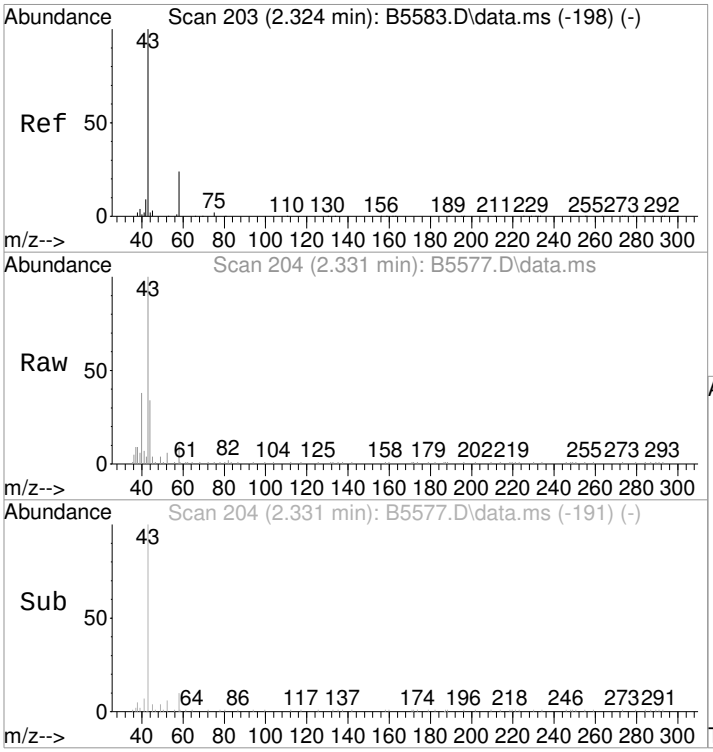



#6
Bromomethane
Concen: Below Cal
RT: 1.587 min Scan# 82
Delta R.T. 0.007 min
Lab File: B5577.D
Acq: 8 Sep 2022 10:13 am

Tgt Ion: 94 Resp: 627

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 61.9 | 77.0 | 117.0# |

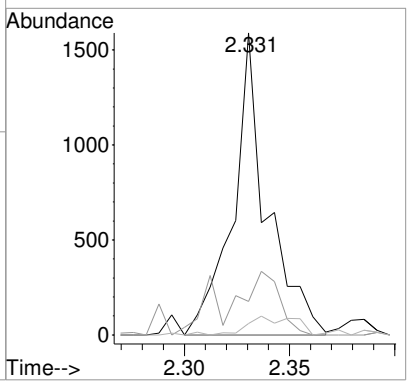


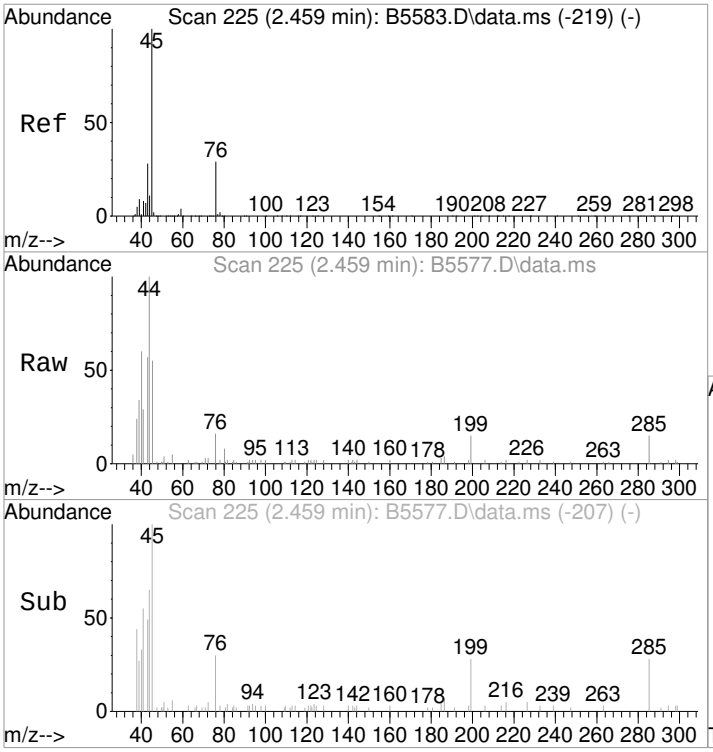




#16
Acetone
Concen: 0.74 ug/L
RT: 2.331 min Scan# 204
Delta R.T. 0.006 min
Lab File: B5577.D
Acq: 8 Sep 2022 10:13 am

Tgt Ion: 43 Resp: 1780

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 11.1 | 3.7 | 43.7 |
| 42 | 3.8 | 0.0 | 28.6 |

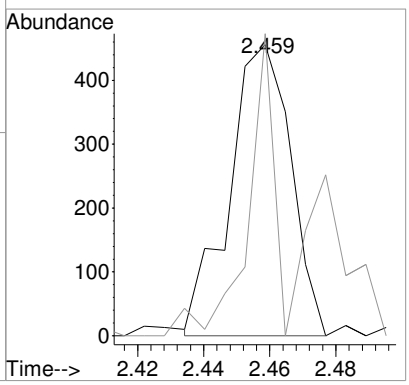


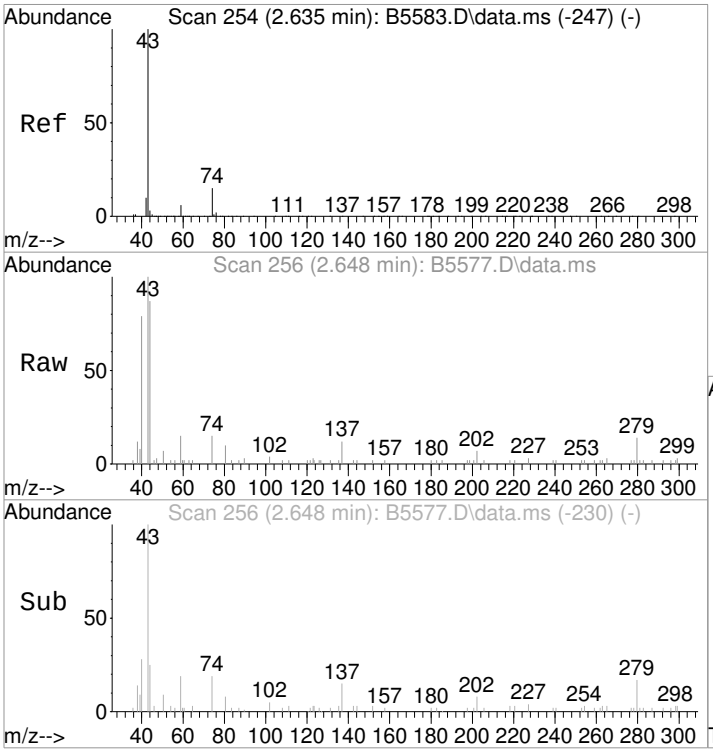



#17
2-Propanol
Concen: 1.35 ug/L
RT: 2.459 min Scan# 225
Delta R.T. 0.000 min
Lab File: B5577.D
Acq: 8 Sep 2022 10:13 am

Tgt Ion: 45 Resp: 590

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 103.7 | 8.4 | 48.4# |

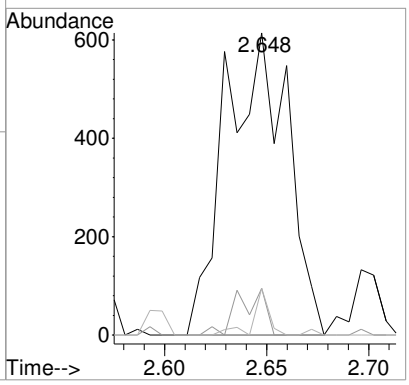



#22
Methyl Acetate
Concen: 0.22 ug/L m
RT: 2.648 min Scan# 256
Delta R.T. 0.013 min
Lab File: B5577.D
Acq: 8 Sep 2022 10:13 am

Tgt Ion: 43 Resp: 1302

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 59 | 15.5 | 0.0 | 26.1 |
| 74 | 15.5 | 0.0 | 35.3 |

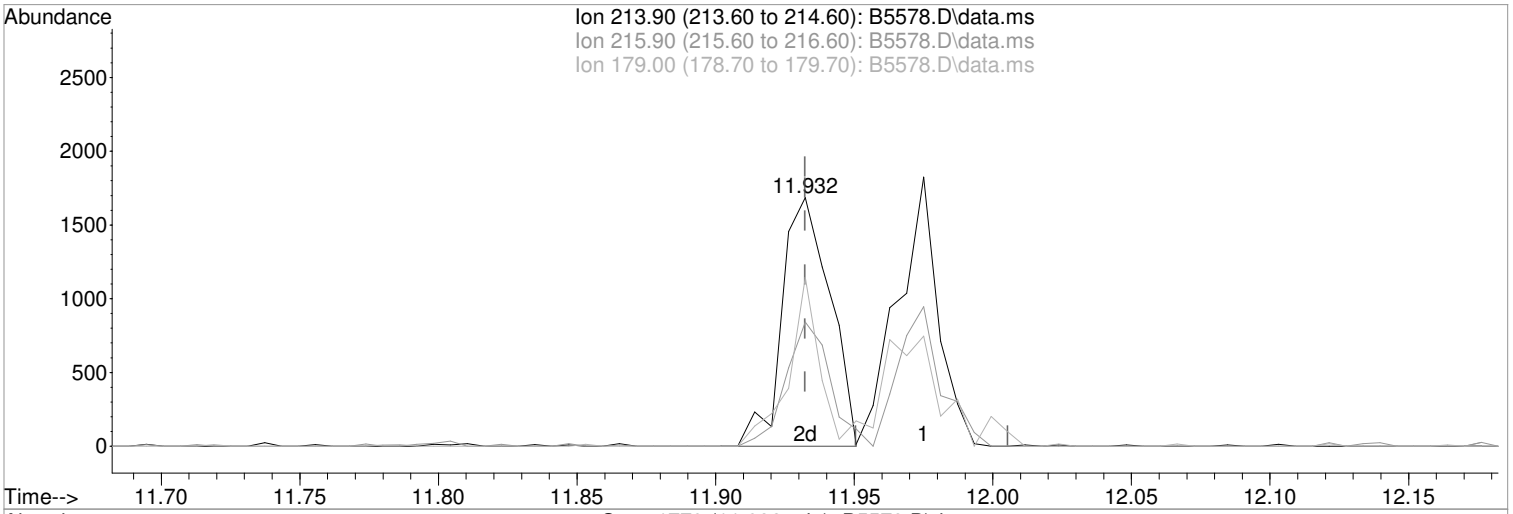


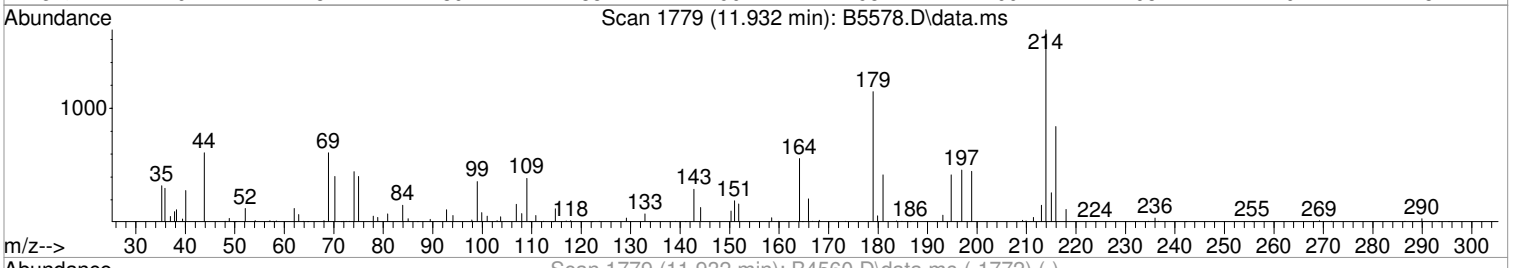
1st FN 09/08/22
2nd 09/12/22

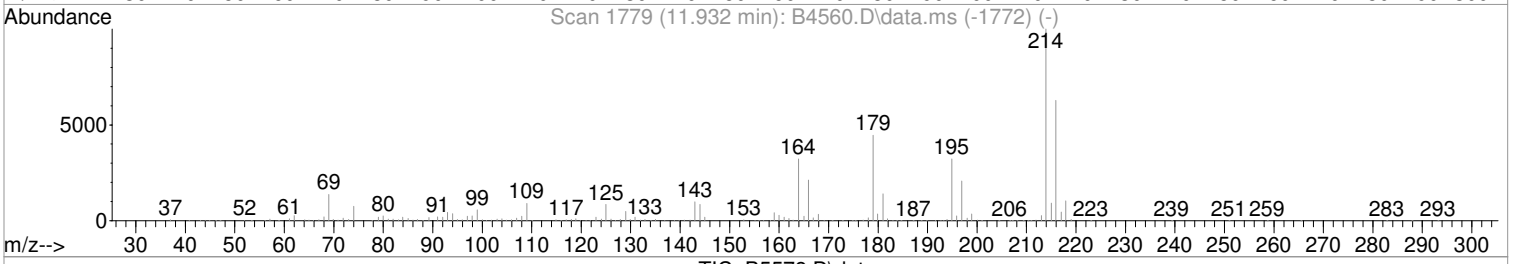
# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5578.D
Acq On : 8 Sep 2022 10:35 am
Operator : F.NAEGLER
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 08 14:19:03 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration




TIC: B5578.D\data.ms

(107) 2,4-Dichlorobenzotrifluoride

11.932min (+0.000) 0.58 ug/L m

response 2032

| Ion | Exp% | Act% |
|---|---|---|
| 213.90 | 100 | 100 |
| 215.90 | 62.70 | 49.91 |
| 179.00 | 44.60 | 68.01# |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

After

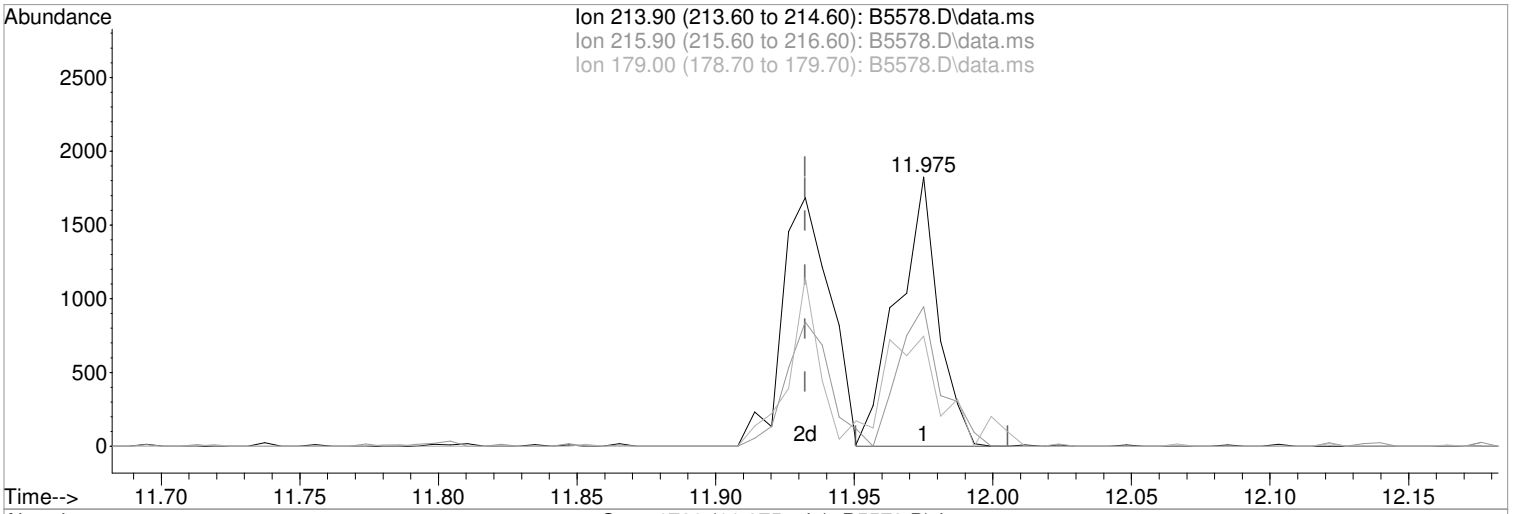
Wrong peak selected.

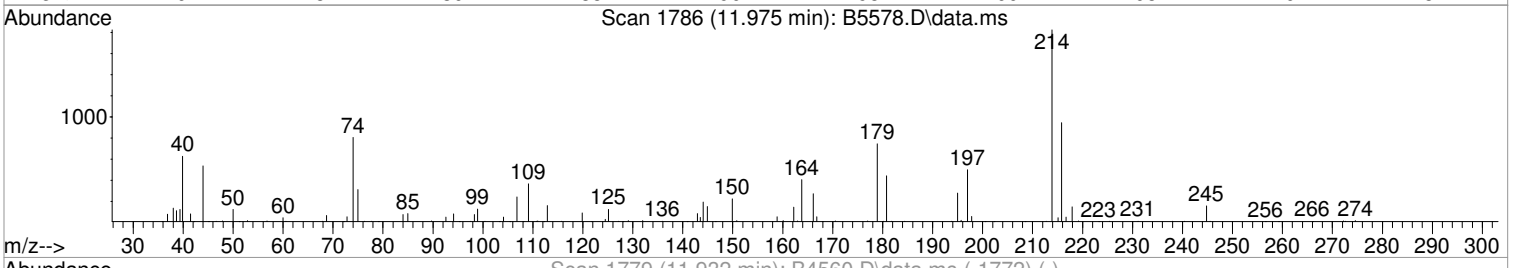
09/08/22

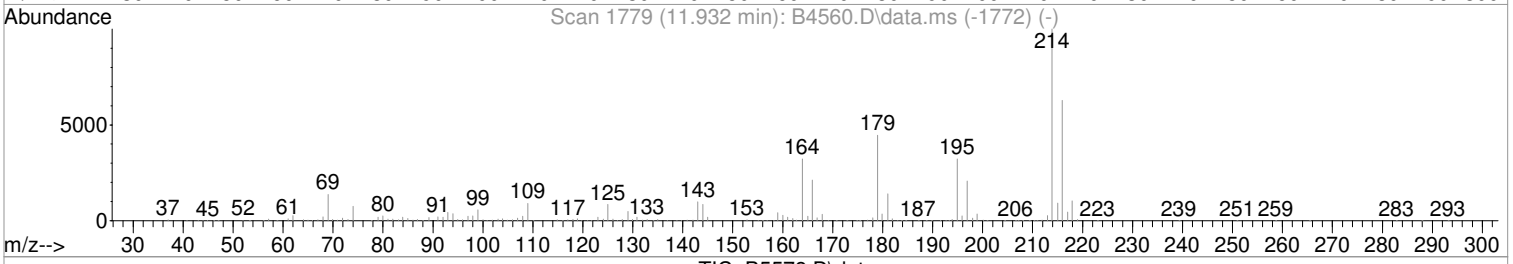
# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5578.D
Acq On : 8 Sep 2022 10:35 am
Operator : F.NAEGLER
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 08 14:19:03 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration




TIC: B5578.D\data.ms

(107) 2,4-Dichlorobenzotrifluoride

11.975min (+0.043) 0.53 ug/L

response 1862

| Ion | Exp% | Act% |
|---|---|---|
| 213.90 | 100 | 100 |
| 215.90 | 62.70 | 51.86 |
| 179.00 | 44.60 | 40.95 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

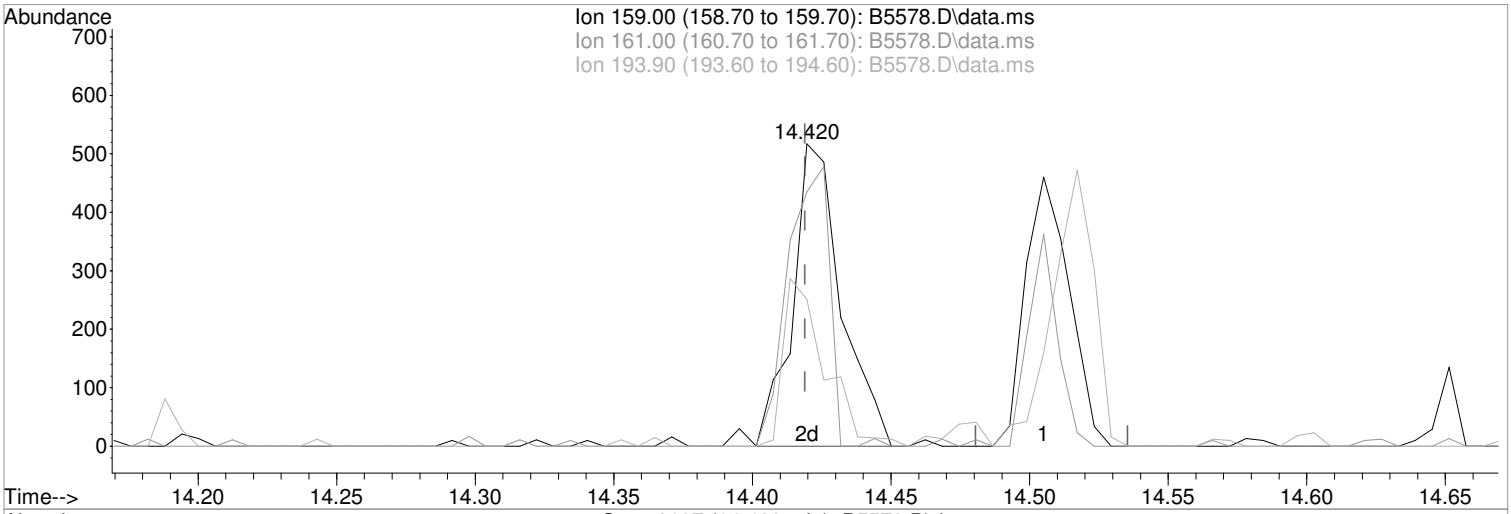
Before

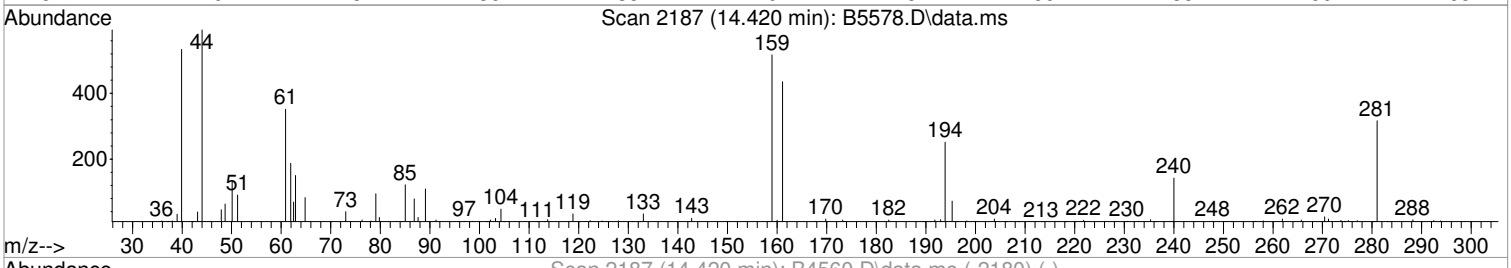
09/08/22

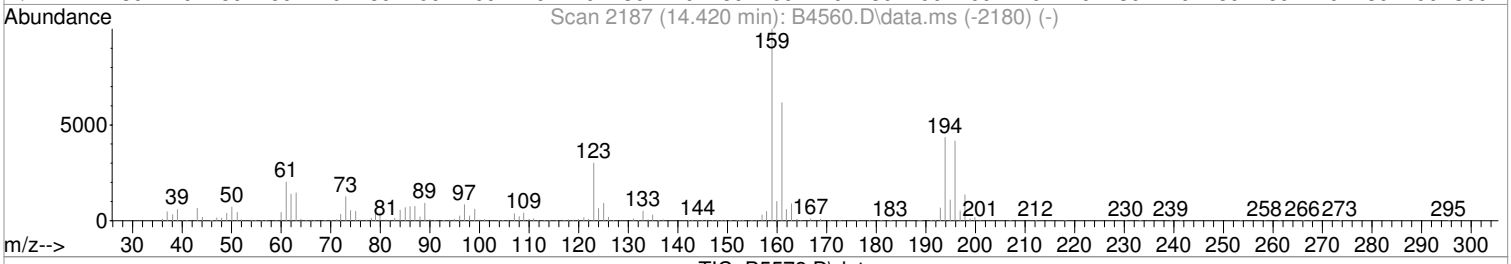
# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5578.D
Acq On : 8 Sep 2022 10:35 am
Operator : F.NAEGLER
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 08 14:19:03 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration




TIC: B5578.D\data.ms

(119) 2,4,5-Trichlorotoluene

14.420min (+0.001) 0.23 ug/L m

response 630

| Ion | Exp% | Act% |
|---|---|---|
| 159.00 | 100 | 100 |
| 161.00 | 61.70 | 84.14# |
| 193.90 | 43.40 | 48.55 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

After

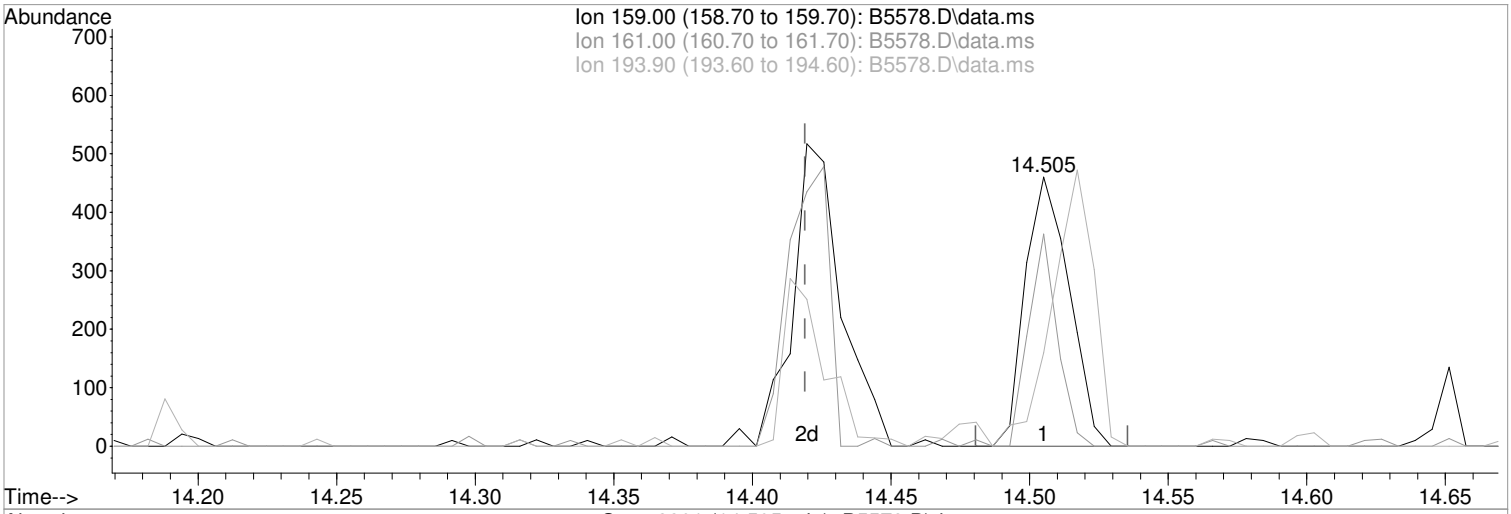
Wrong peak selected.

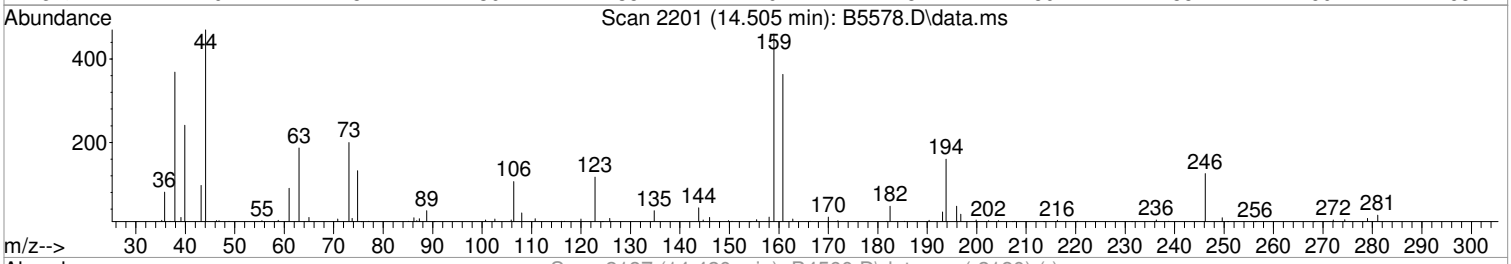
09/08/22

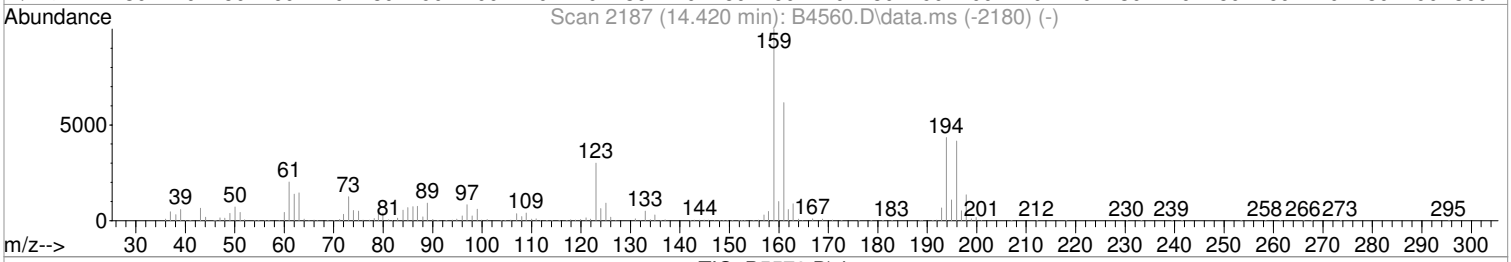
# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5578.D
Acq On : 8 Sep 2022 10:35 am
Operator : F.NAEGLER
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 08 14:19:03 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration




TIC: B5578.D\data.ms

(119) 2,4,5-Trichlorotoluene

14.505min (+0.086) 0.18 ug/L

response 509

| Ion | Exp% | Act% |
|---|---|---|
| 159.00 | 100 | 100 |
| 161.00 | 61.70 | 78.91 |
| 193.90 | 43.40 | 34.78 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

Before

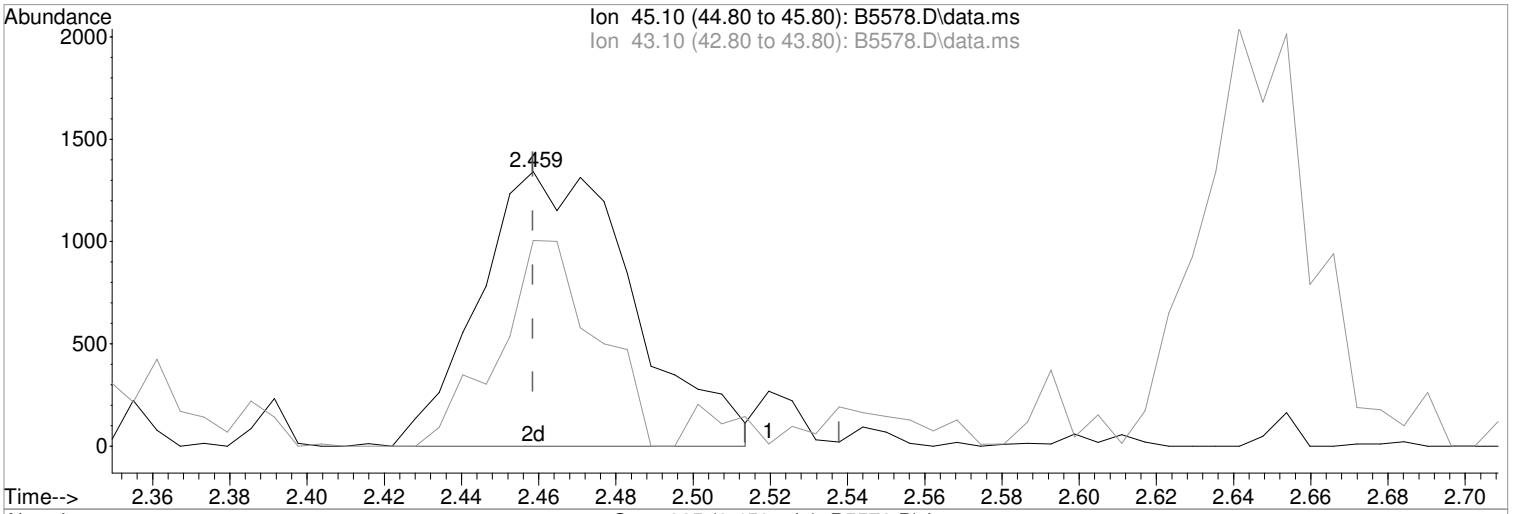
09/08/22

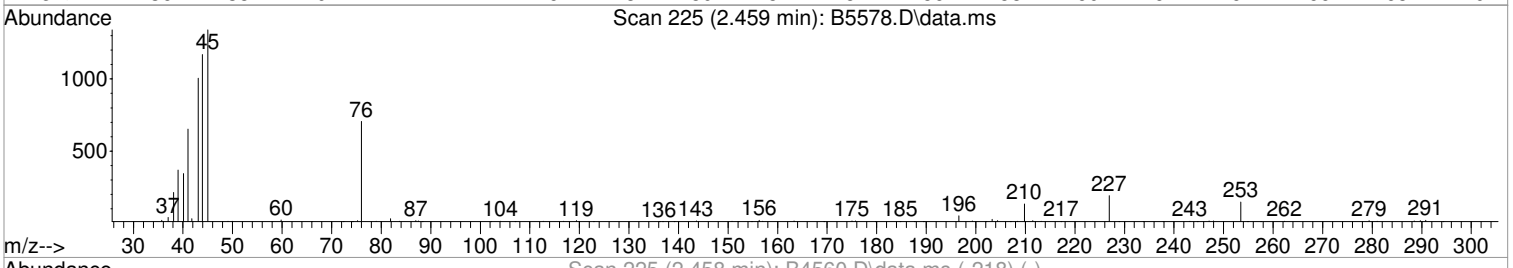
1st FN 09/08/22
2nd 09/12/22

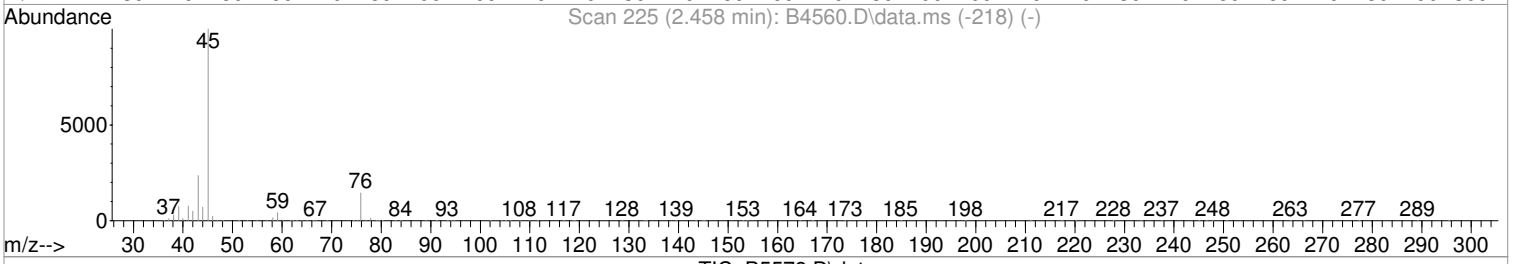
# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5578.D
Acq On : 8 Sep 2022 10:35 am
Operator : F.NAEGLER
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 08 14:19:03 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration




TIC: B5578.D\data.ms

(17) 2-Propanol

2.459min (+0.000) 9.04 ug/L m

response 3733

| Ion | Exp% | Act% |
|---|---|---|
| 45.10 | 100 | 100 |
| 43.10 | 23.80 | 75.02# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

After

Poor integration.

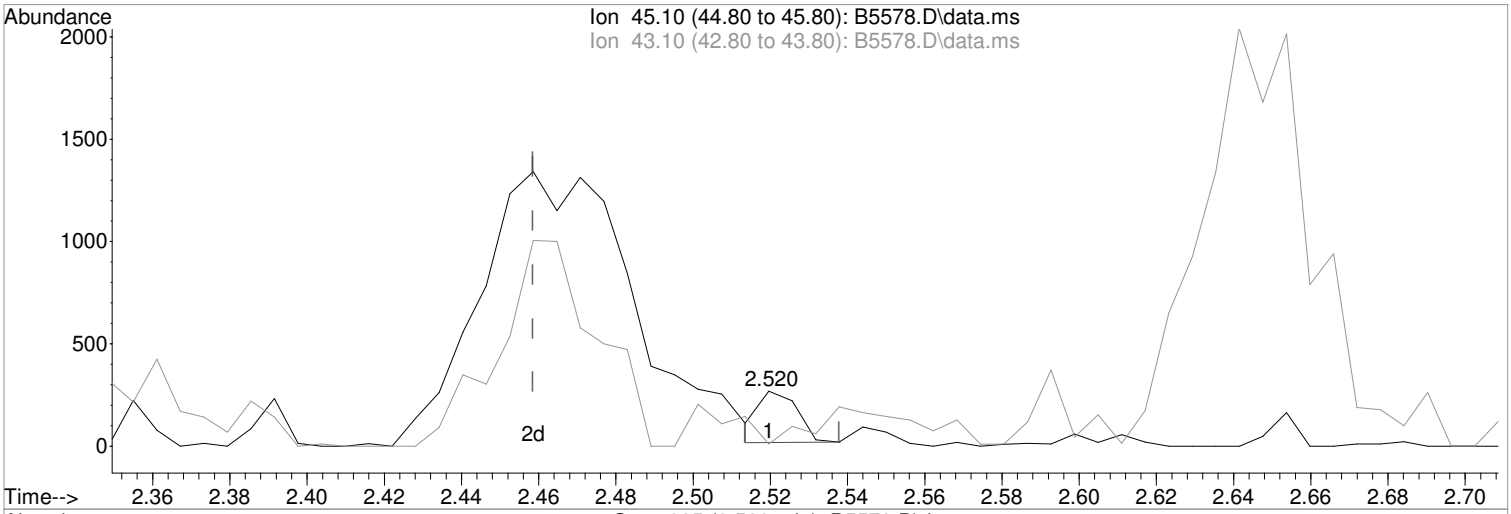
09/08/22

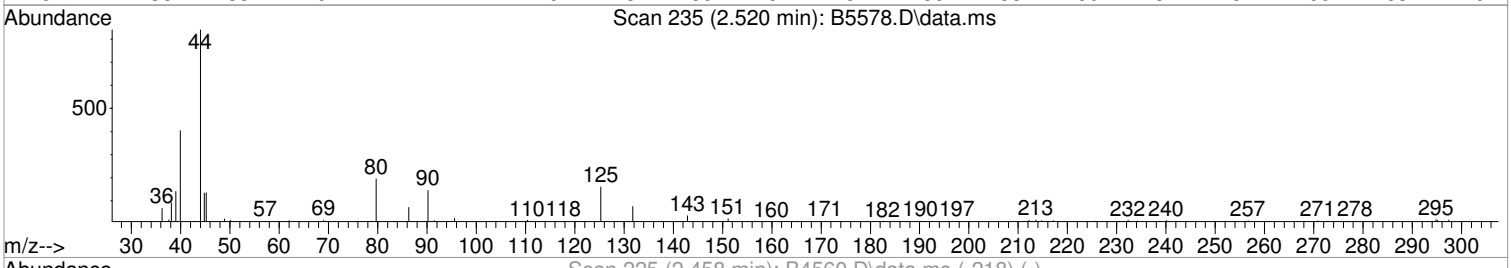
1st FJ 09/08/22
2nd 09/12/22

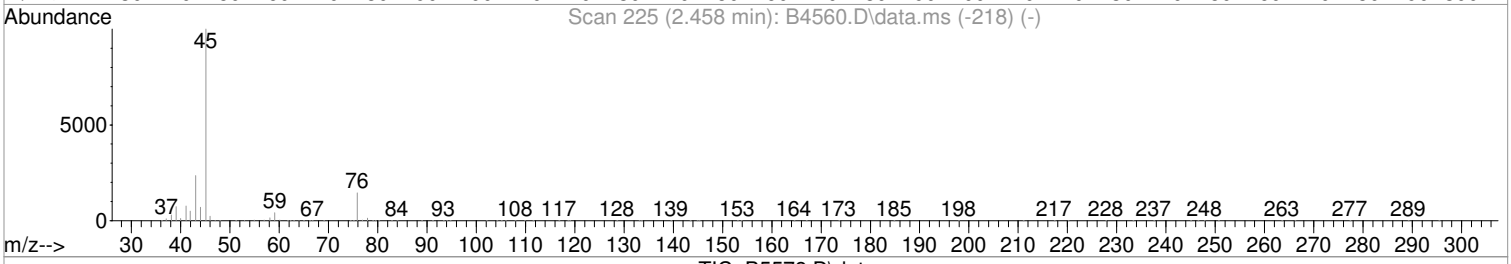
# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5578.D
Acq On : 8 Sep 2022 10:35 am
Operator : F.NAEGLER
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 08 14:19:03 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration




TIC: B5578.D\data.ms

(17) 2-Propanol

2.520min (+0.061) 0.41 ug/L

response 171

| Ion | Exp% | Act% |
|---|---|---|
| 45.10 | 100 | 100 |
| 43.10 | 23.80 | 4.46 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

Before

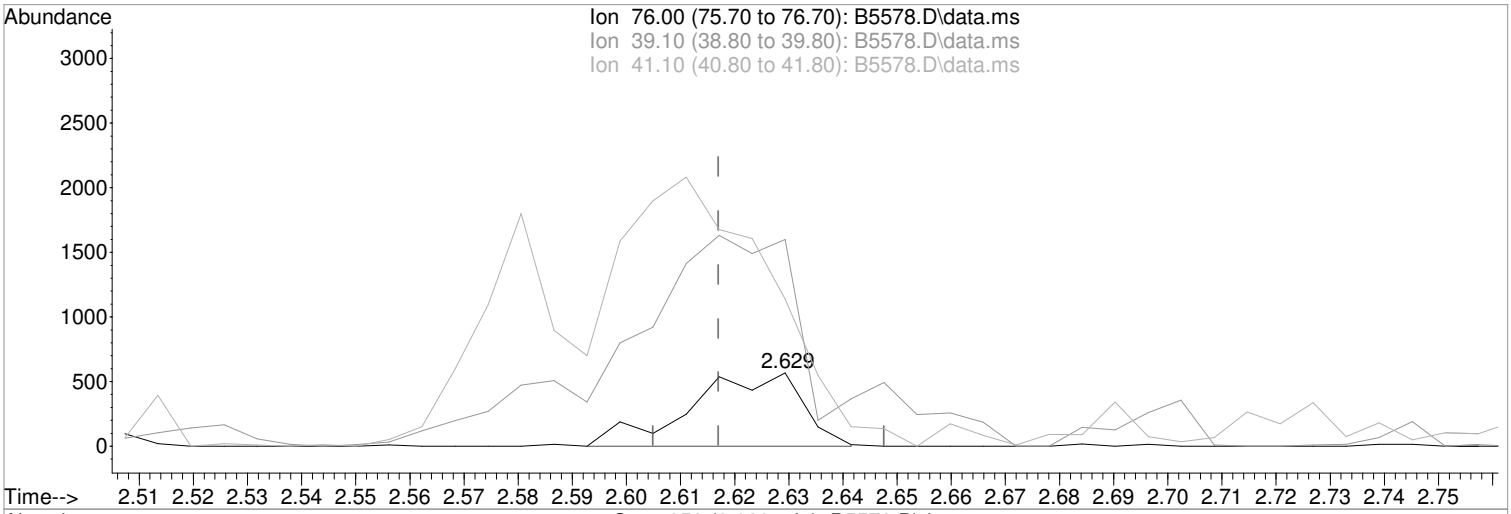
09/08/22

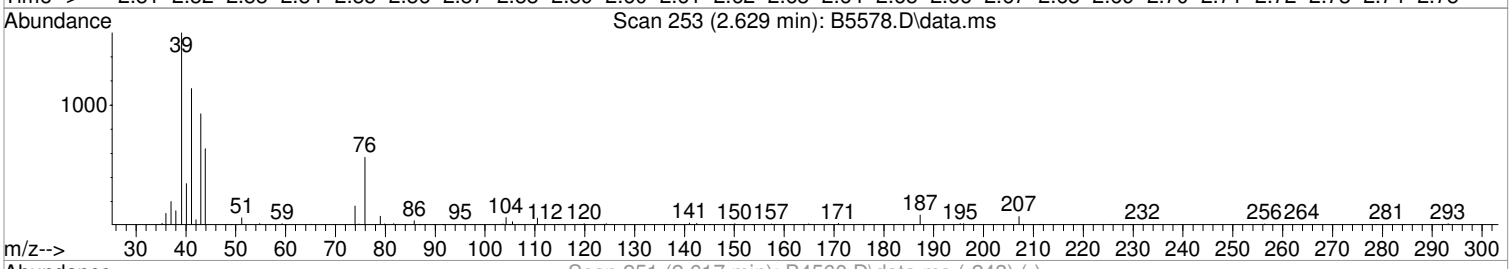
1st FN 09/08/22
2nd 09/12/22

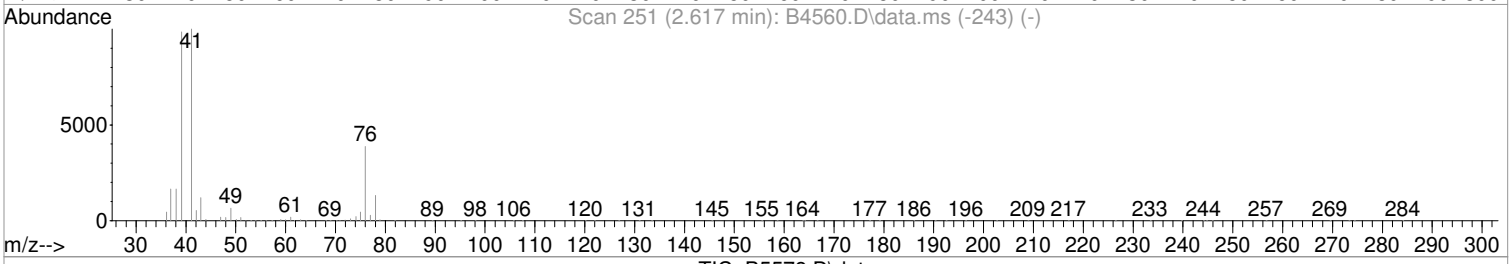
# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5578.D
Acq On : 8 Sep 2022 10:35 am
Operator : F.NAEGLER
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 08 14:19:03 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration




TIC: B5578.D\data.ms

(21) Allyl Chloride

2.629min (+0.012) 0.47 ug/L m

response 817

| Ion | Exp% | Act% |
|---|---|---|
| 76.00 | 100 | 100 |
| 39.10 | 275.70 | 281.51 |
| 41.10 | 384.30 | 200.35# |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

After

Poor integration.

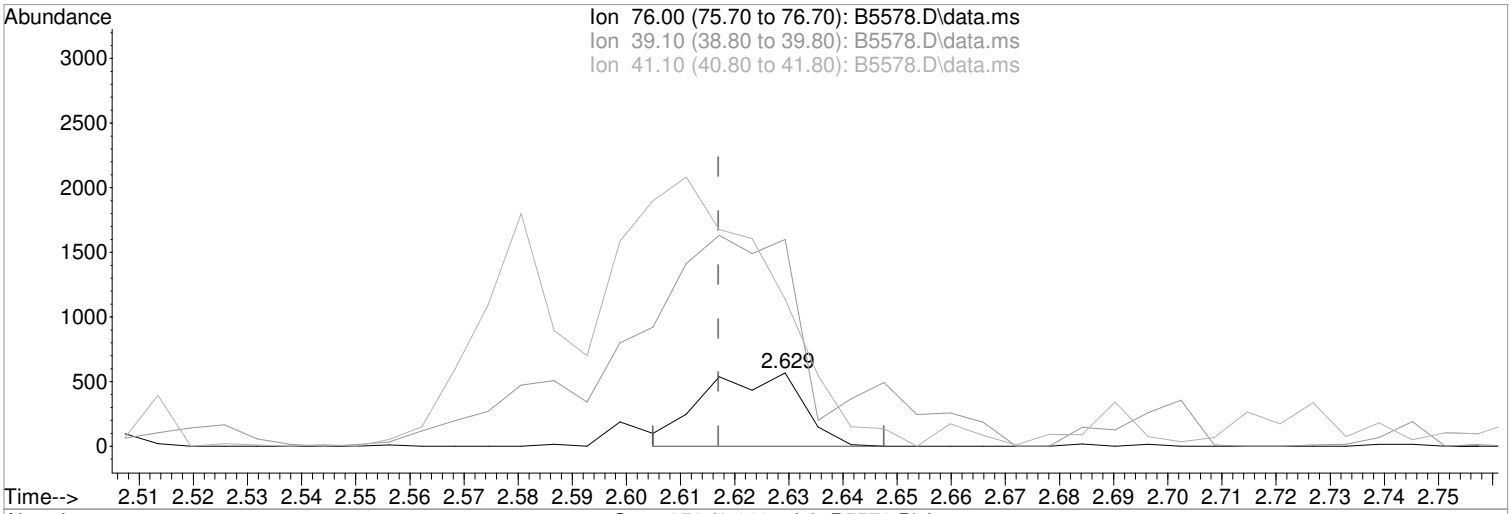
09/08/22

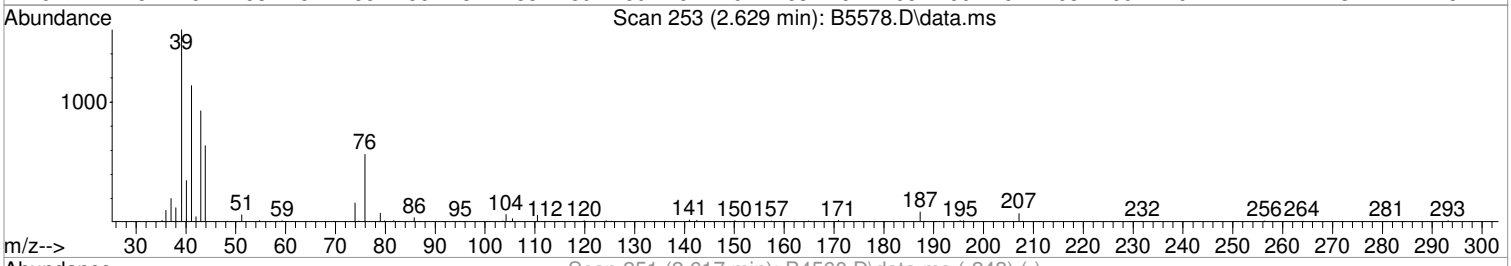
1st FN 09/08/22
2nd 09/12/22

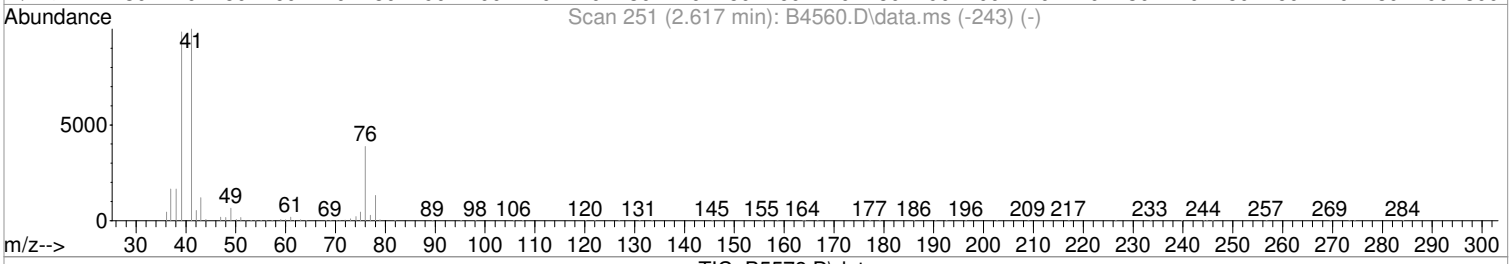
# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5578.D
Acq On : 8 Sep 2022 10:35 am
Operator : F.NAEGLER
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 08 14:19:03 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration




TIC: B5578.D\data.ms

(21) Allyl Chloride

2.629min (+0.012) 0.41 ug/L

response 712

| Ion | Exp% | Act% |
|---|---|---|
| 76.00 | 100 | 100 |
| 39.10 | 275.70 | 281.51 |
| 41.10 | 384.30 | 200.35# |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

Before

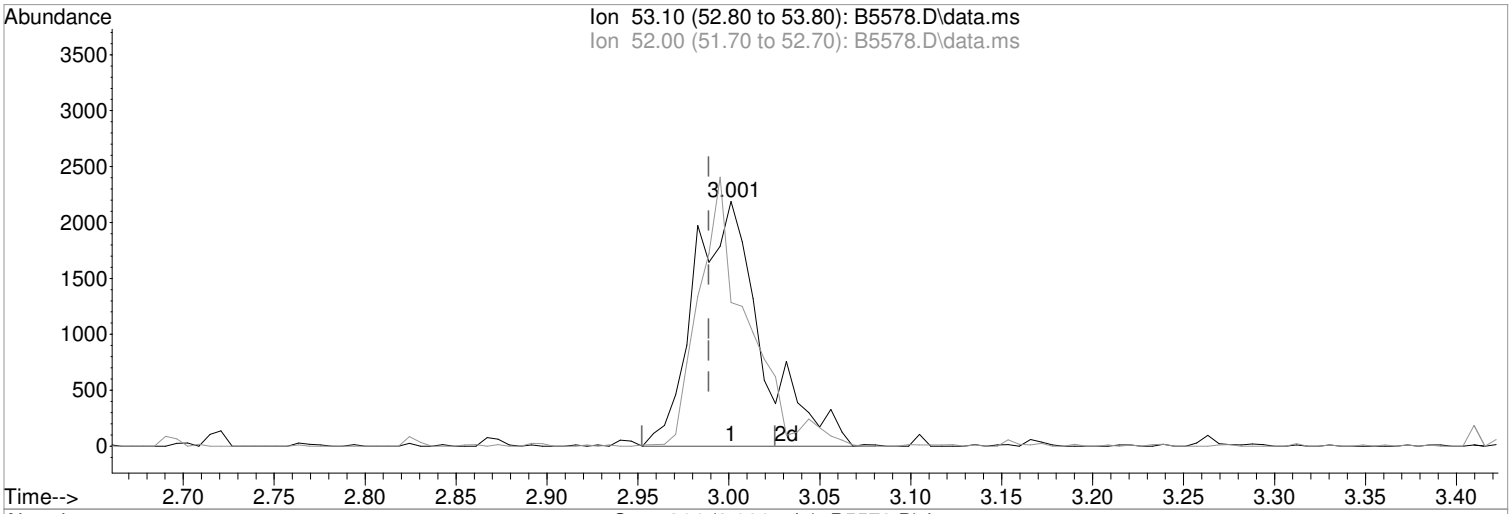
09/08/22

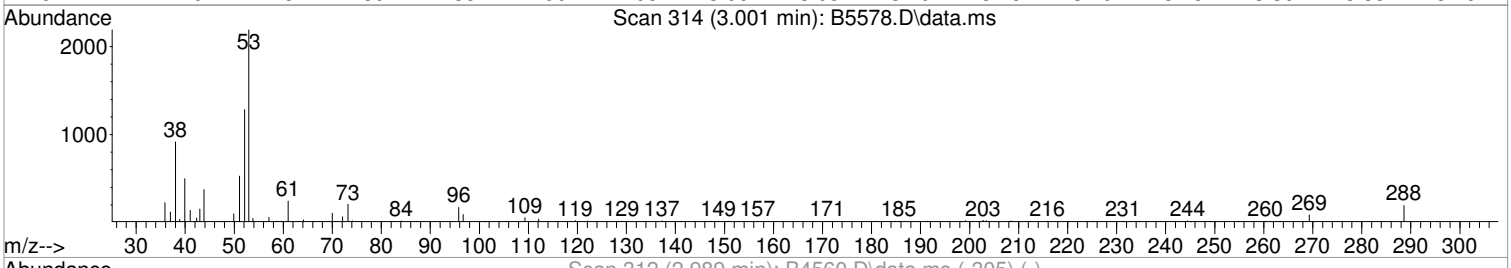
1st FN 09/08/22
2nd 09/12/22

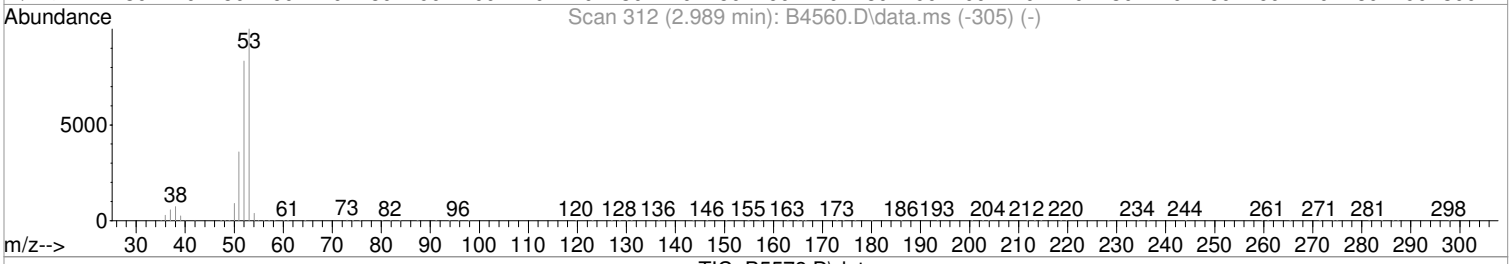
# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5578.D
Acq On : 8 Sep 2022 10:35 am
Operator : F.NAEGLER
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 08 14:19:03 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration




TIC: B5578.D\data.ms

(25) Acrylonitrile

3.001min (+0.012) 2.79 ug/L m

response 5661

| Ion | Exp% | Act% |
|---|---|---|
| 53.10 | 100 | 100 |
| 52.00 | 83.30 | 58.64# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

After

Poor integration.

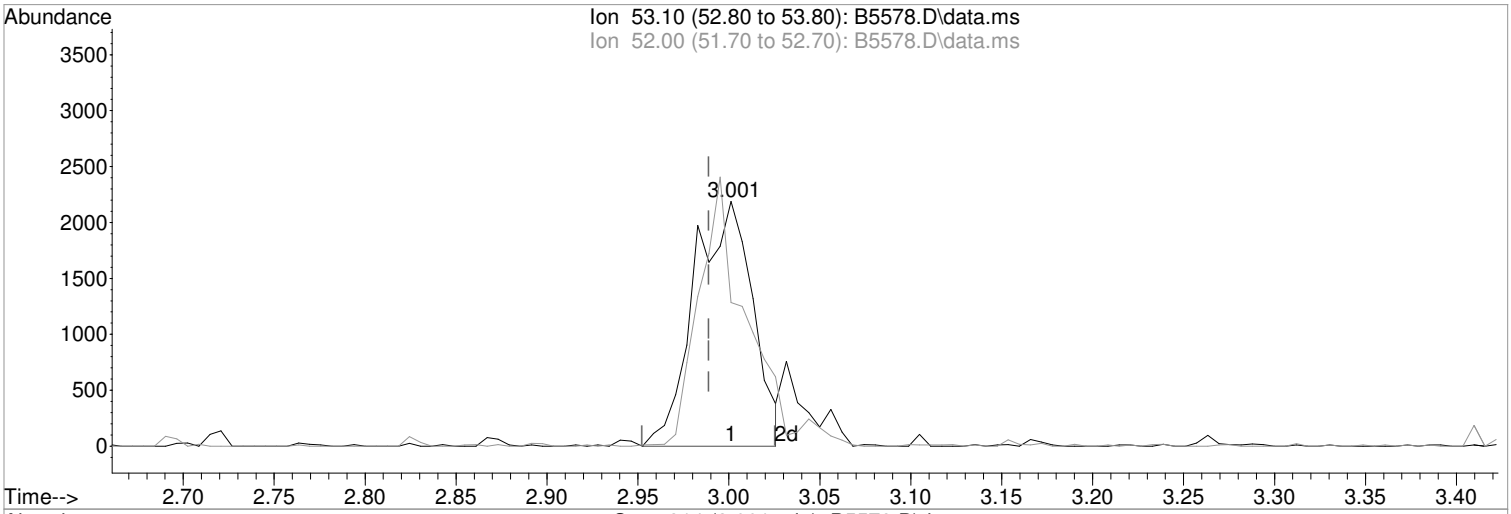
09/08/22

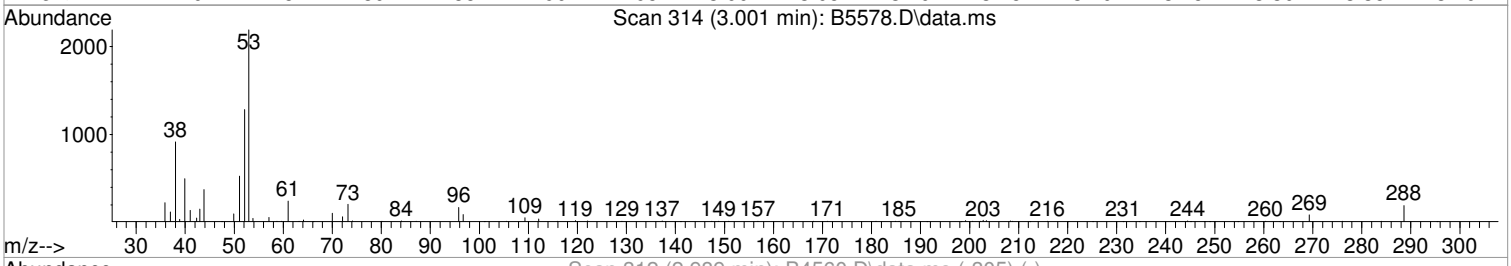
1st FN 09/08/22
2nd 09/12/22

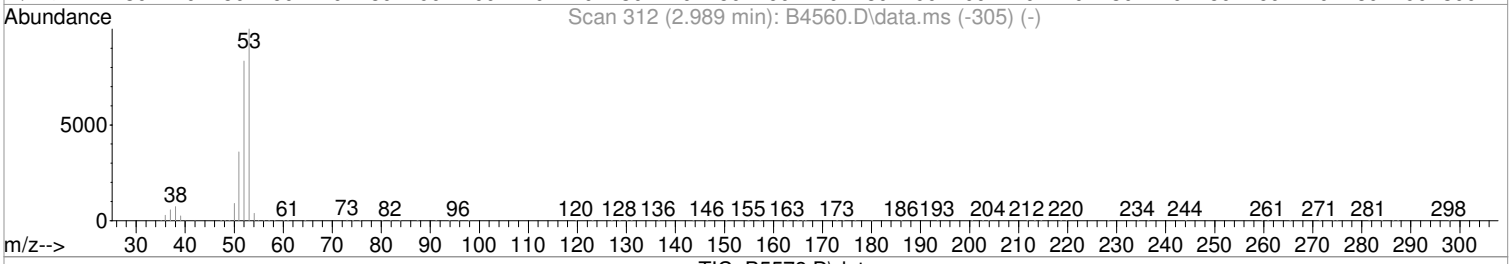
# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5578.D
Acq On : 8 Sep 2022 10:35 am
Operator : F.NAEGLER
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 08 14:19:03 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration




TIC: B5578.D\data.ms

(25) Acrylonitrile

3.001min (+0.012) 2.41 ug/L

response 4893

| Ion | Exp% | Act% |
|---|---|---|
| 53.10 | 100 | 100 |
| 52.00 | 83.30 | 57.38# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

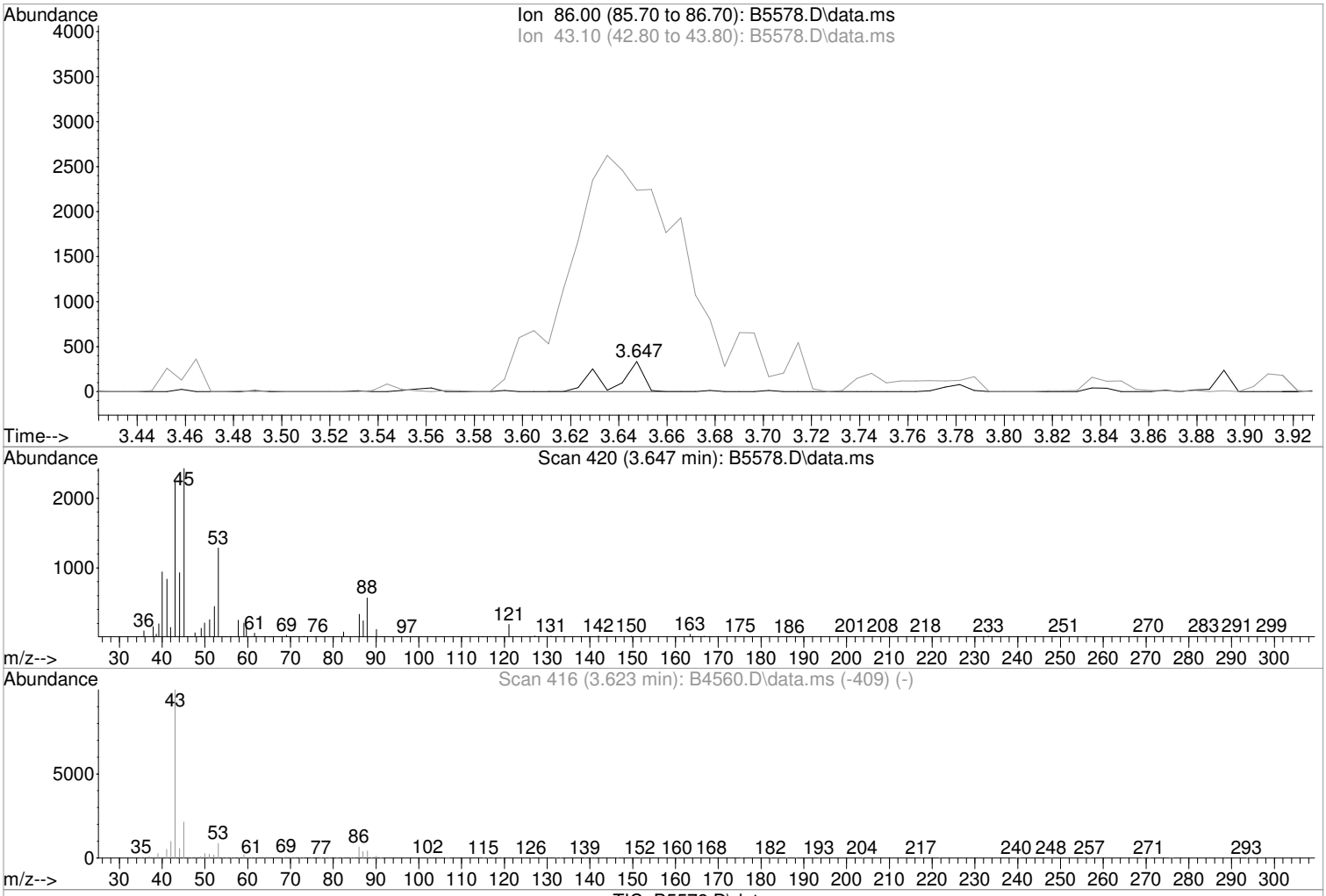
Before

09/08/22

# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5578.D
Acq On : 8 Sep 2022 10:35 am
Operator : F.NAEGLER
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 08 14:19:03 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration




TIC: B5578.D\data.ms

(29) Vinyl Acetate

3.647min (+0.025) 0.56 ug/L m

response 276

| Ion | Exp% | Act% |
|---|---|---|
| 86.00 | 100 | 100 |
| 43.10 | 1560.10 | 669.76# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

After

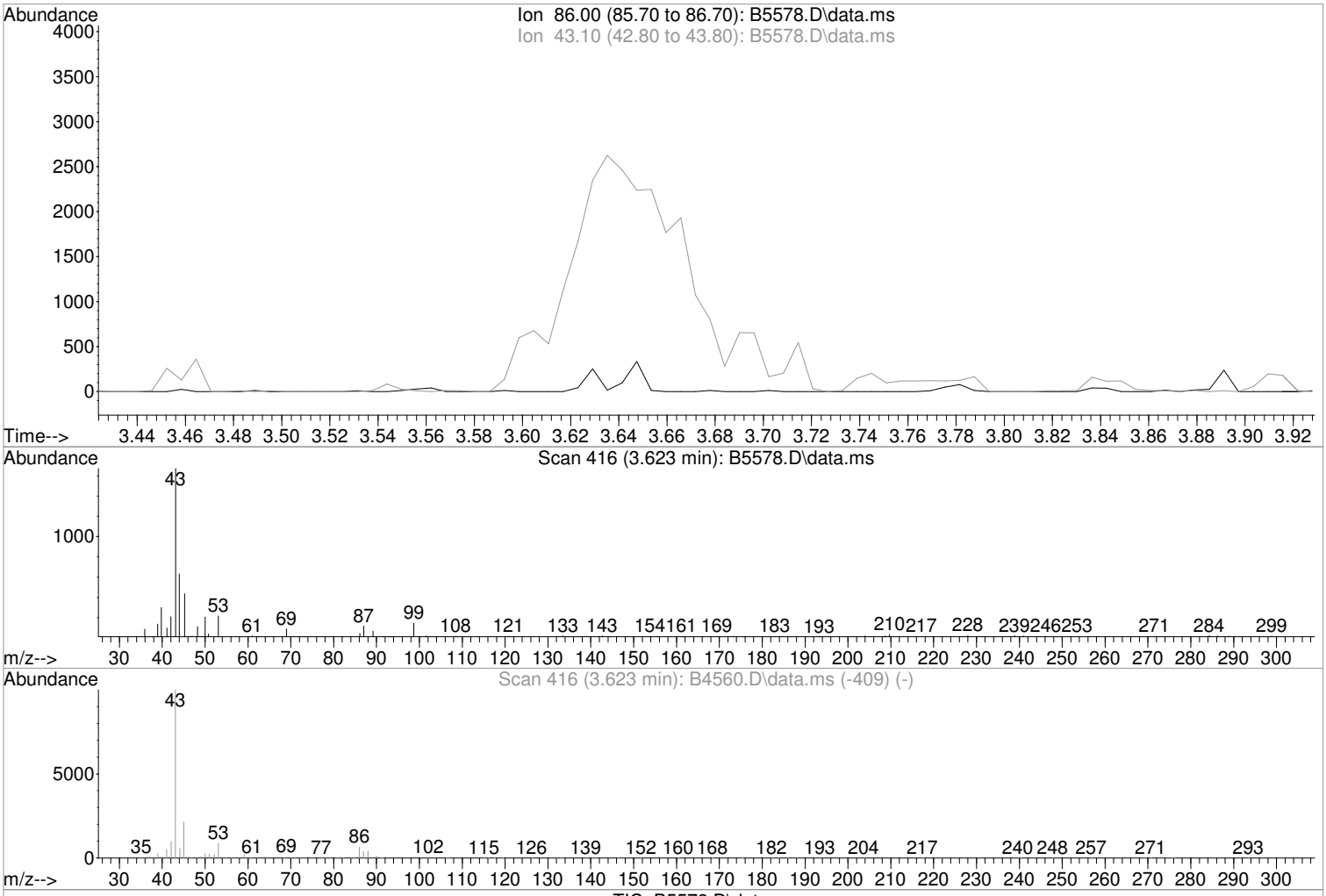
Poor integration.

09/08/22

# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5578.D
Acq On : 8 Sep 2022 10:35 am
Operator : F.NAEGLER
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 08 14:19:03 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration




TIC: B5578.D\data.ms

(29) Vinyl Acetate

3.623min (-3.623) 0.00 ug/L

response 0

| Ion | Exp% | Act% |
|---|---|---|
| 86.00 | 100 | 0.00 |
| 43.10 | 1560.10 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

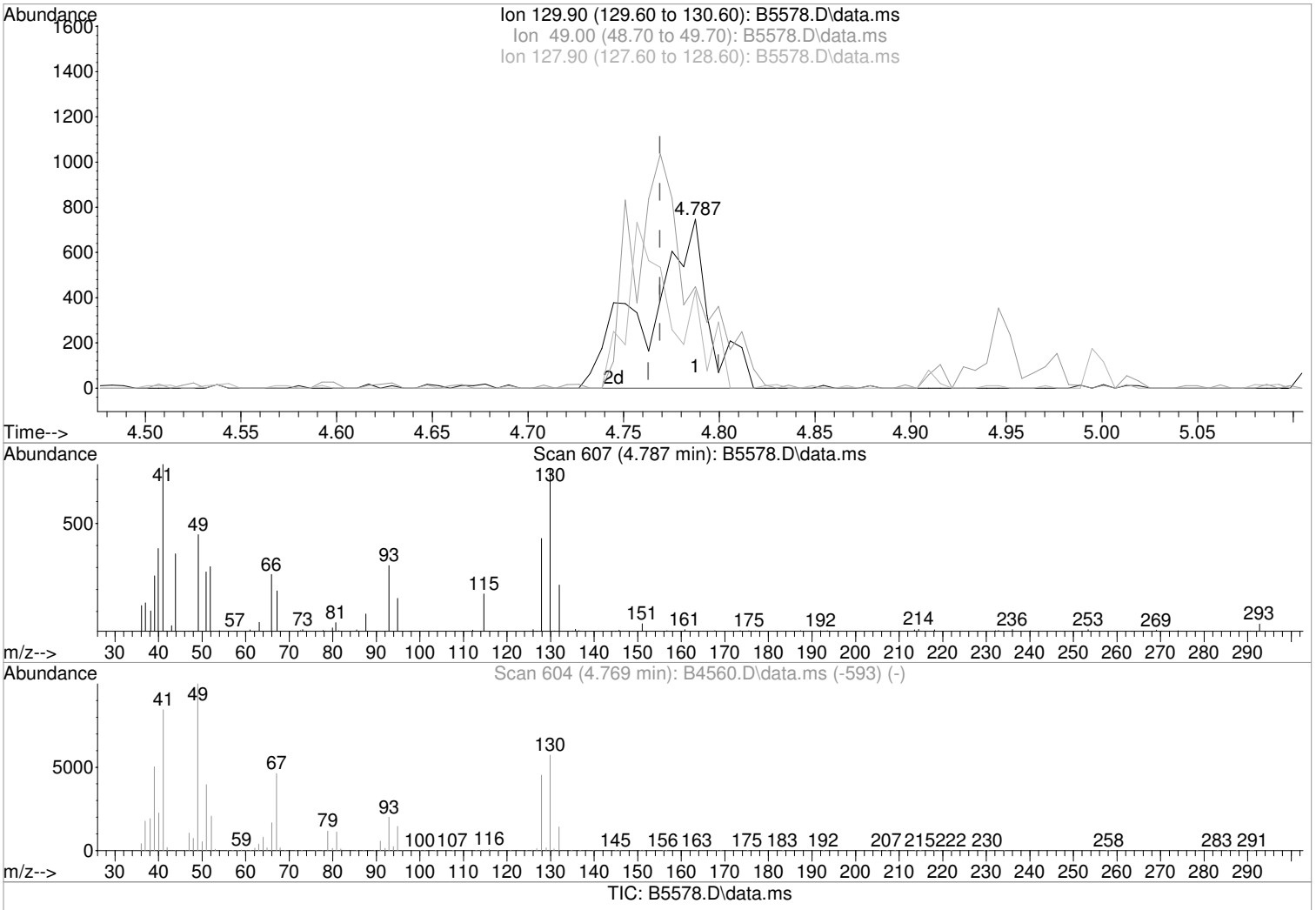
Before

09/08/22

# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5578.D
Acq On : 8 Sep 2022 10:35 am
Operator : F.NAEGLER
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 08 14:19:03 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration




TIC: B5578.D\data.ms

(37) Bromochloromethane

4.787min (+0.018) 0.68 ug/L m

response 1662

| Ion | Exp% | Act% |
|---|---|---|
| 129.90 | 100 | 100 |
| 49.00 | 174.90 | 60.11# |
| 127.90 | 79.00 | 57.83# |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

After

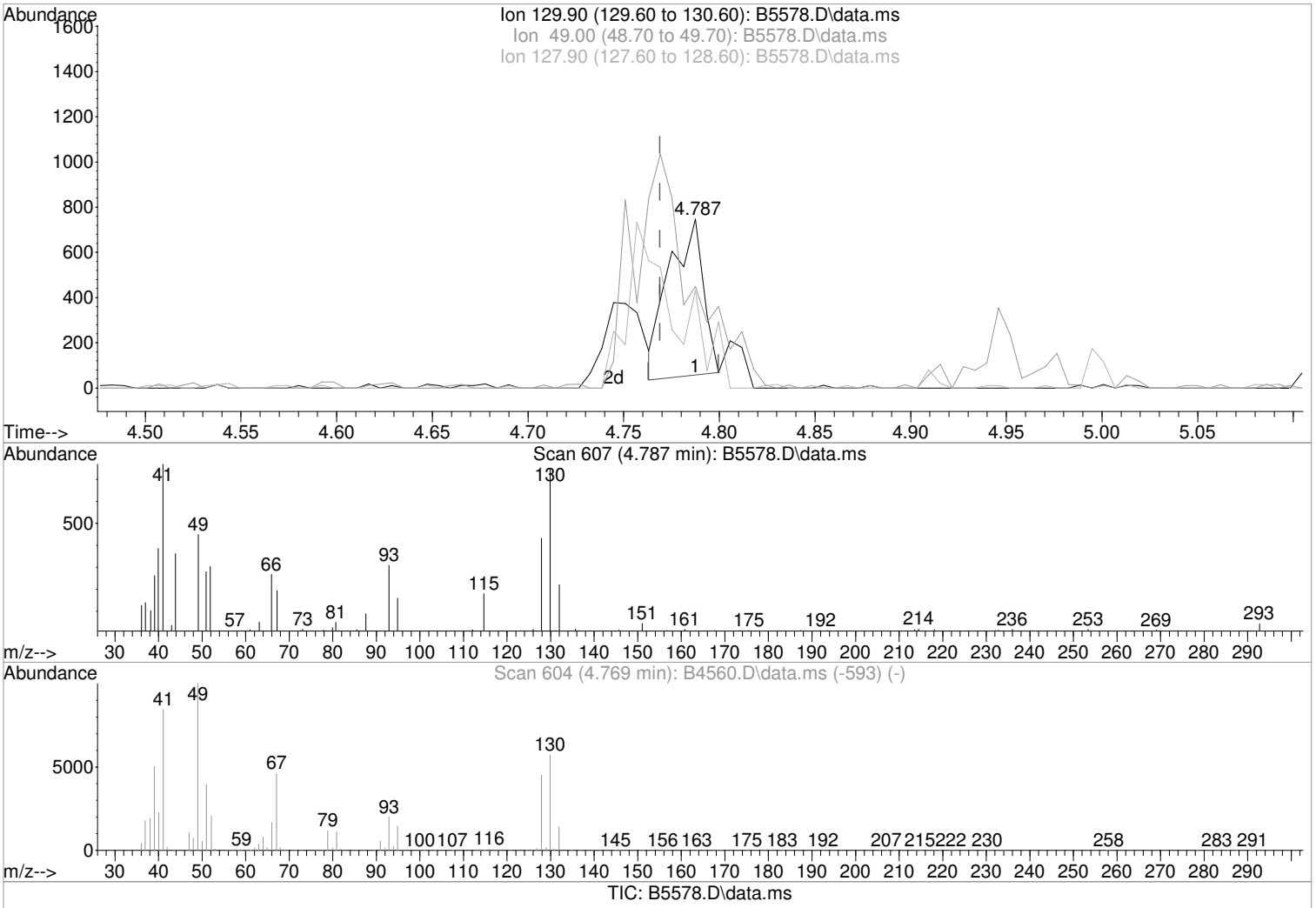
Poor integration.

09/08/22

# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5578.D
Acq On : 8 Sep 2022 10:35 am
Operator : F.NAEGLER
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 08 14:19:03 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration




TIC: B5578.D\data.ms

(37) Bromochloromethane

4.787min (+0.018) 0.35 ug/L

response 862

| Ion | Exp% | Act% |
|---|---|---|
| 129.90 | 100 | 100 |
| 49.00 | 174.90 | 60.11# |
| 127.90 | 79.00 | 57.83# |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

Before

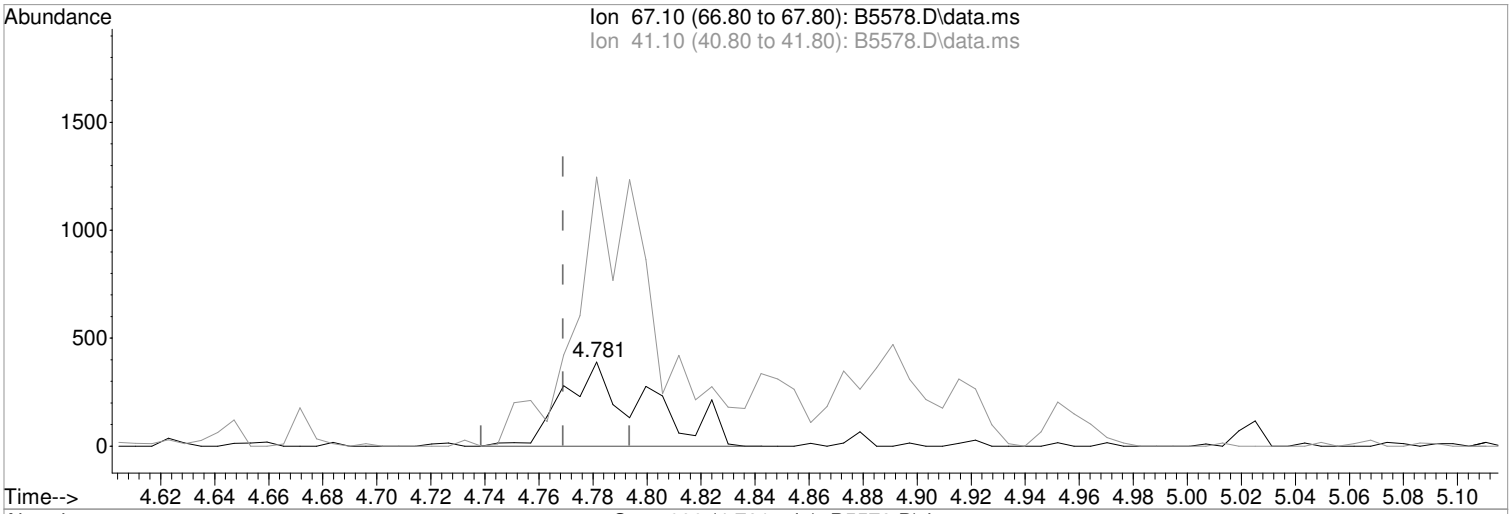
09/08/22

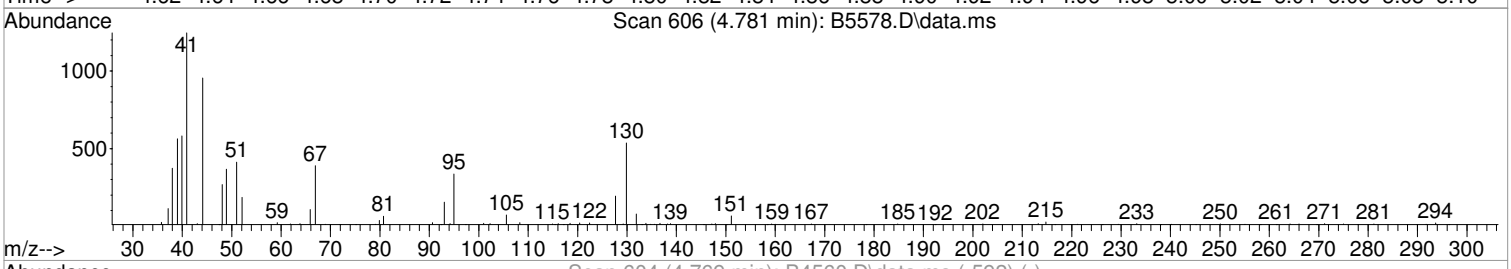
1st FN 09/08/22
2nd 09/12/22

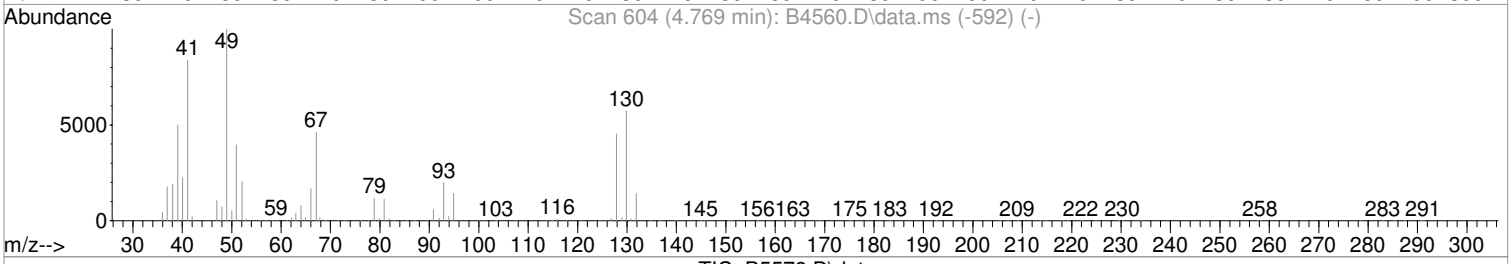
# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5578.D
Acq On : 8 Sep 2022 10:35 am
Operator : F.NAEGLER
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 08 14:19:03 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration




TIC: B5578.D\data.ms

(38) Methacrylonitrile

4.781min (+0.012) 0.41 ug/L m

response 822

| Ion | Exp% | Act% |
|---|---|---|
| 67.10 | 100 | 100 |
| 41.10 | 186.60 | 319.49# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

After

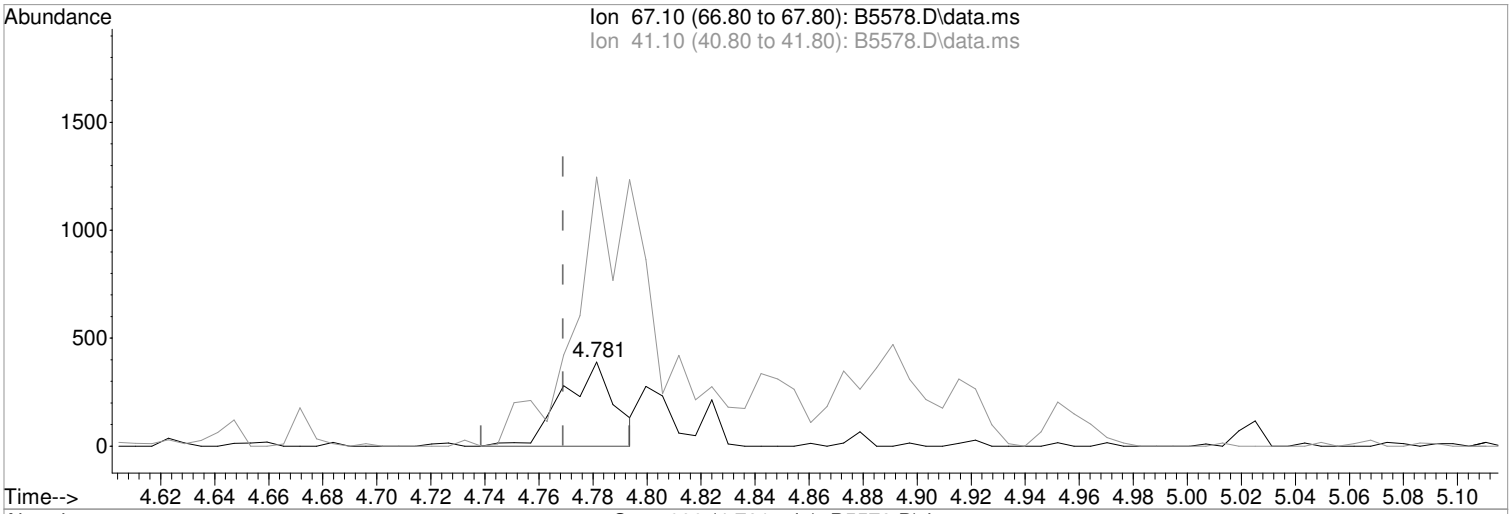
Poor integration.

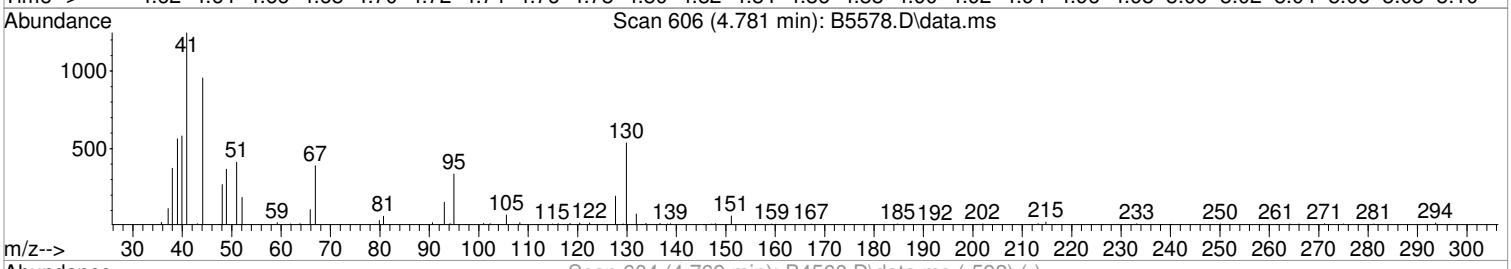
09/08/22

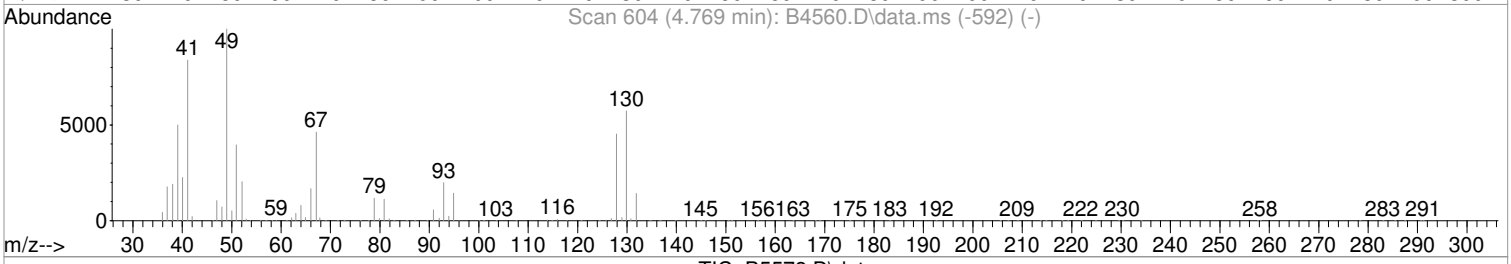
# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5578.D
Acq On : 8 Sep 2022 10:35 am
Operator : F.NAEGLER
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 08 14:19:03 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration




TIC: B5578.D\data.ms

(38) Methacrylonitrile

4.781min (+0.012) 0.26 ug/L

response 514

| Ion | Exp% | Act% |
|---|---|---|
| 67.10 | 100 | 100 |
| 41.10 | 186.60 | 319.49# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

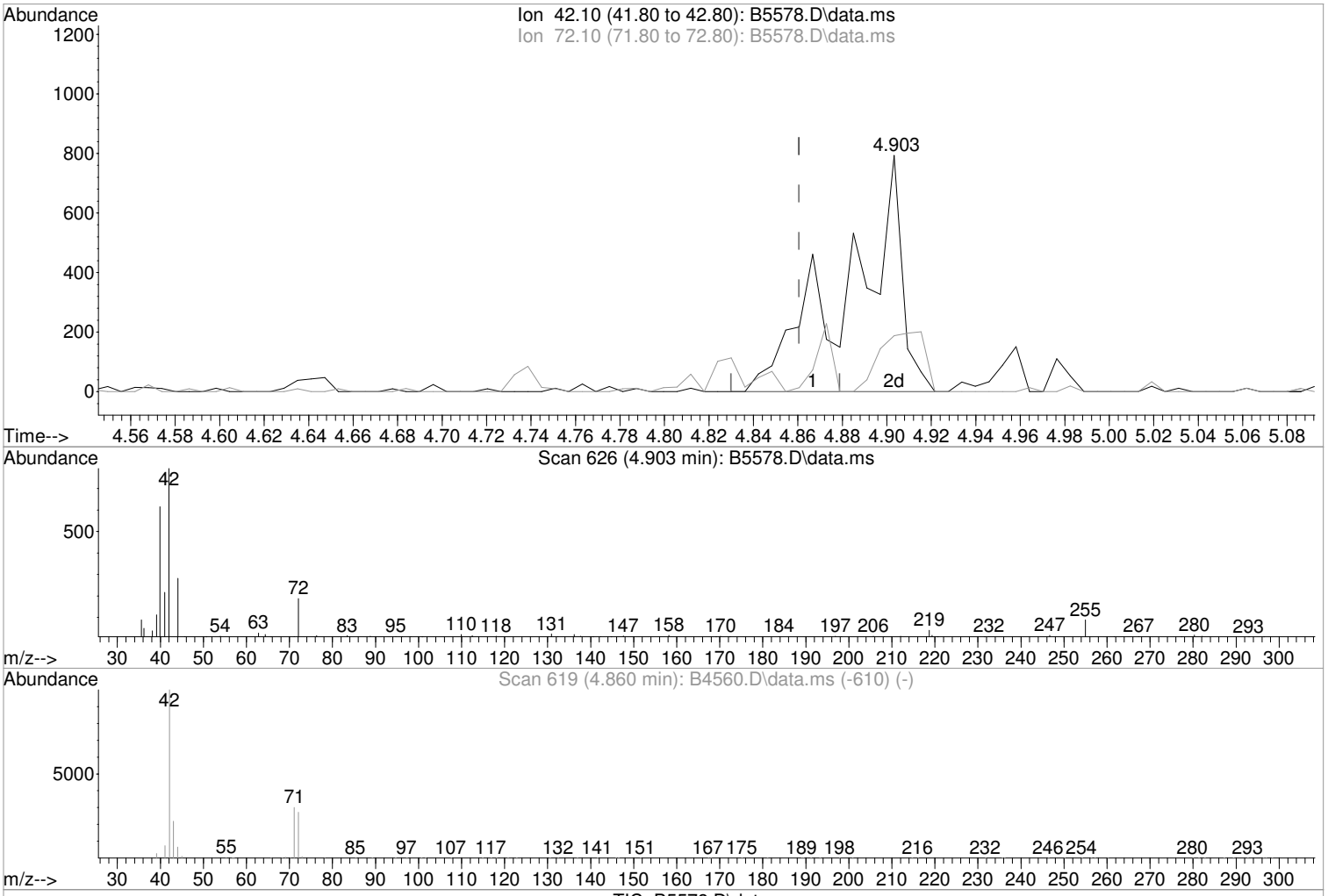
Before

09/08/22

# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5578.D
Acq On : 8 Sep 2022 10:35 am
Operator : F.NAEGLER
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 08 14:19:03 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration




TIC: B5578.D\data.ms

(39) Tetrahydrofuran

4.903min (+0.043) 0.67 ug/L m

response 1305

| Ion | Exp% | Act% |
|---|---|---|
| 42.10 | 100 | 100 |
| 72.10 | 27.20 | 23.71 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

After

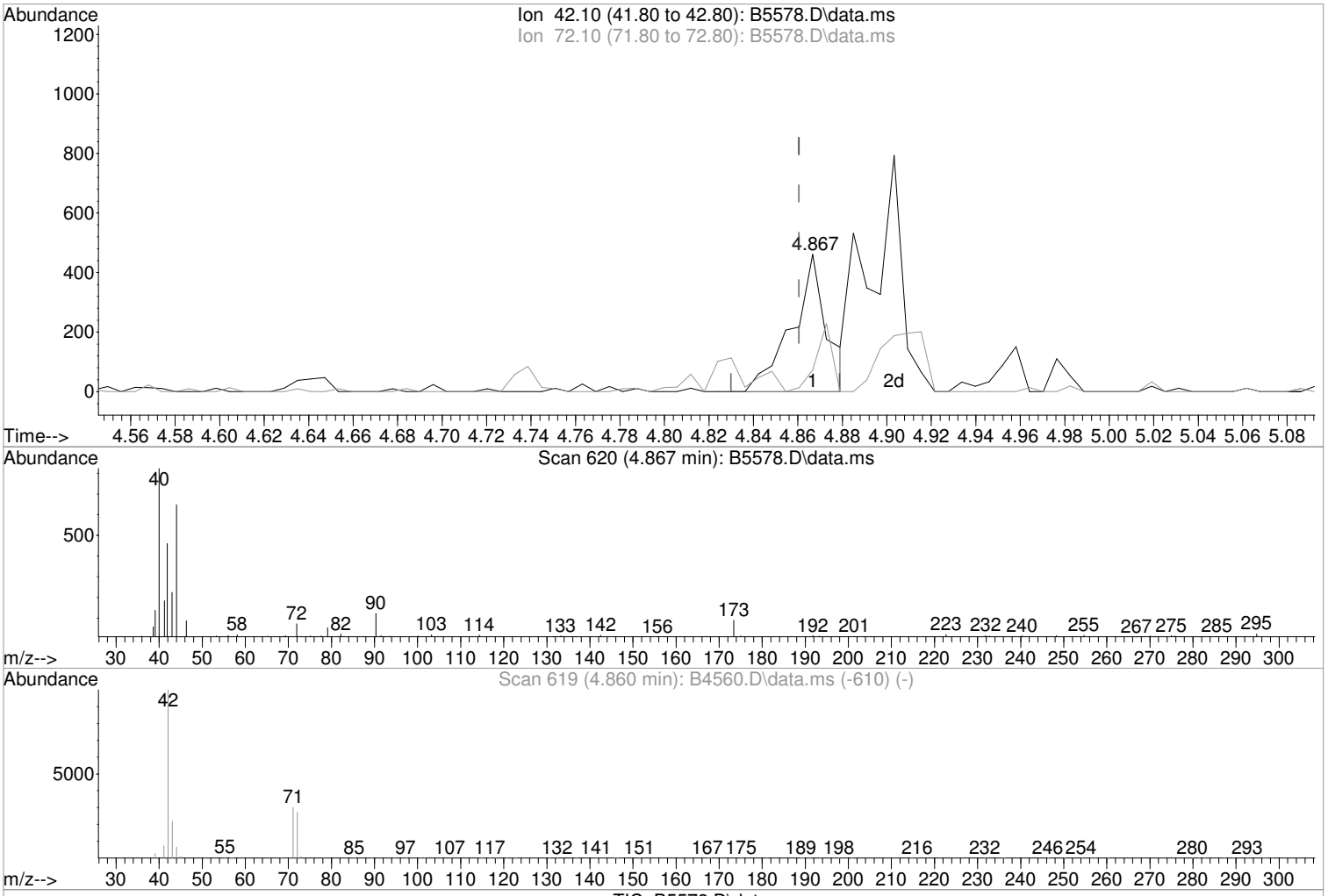
Poor integration.

09/08/22

# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5578.D
Acq On : 8 Sep 2022 10:35 am
Operator : F.NAEGLER
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 08 14:19:03 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration




TIC: B5578.D\data.ms

(39) Tetrahydrofuran

4.867min (+0.006) 0.25 ug/L

response 496

| Ion | Exp% | Act% |
|---|---|---|
| 42.10 | 100 | 100 |
| 72.10 | 27.20 | 15.84 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

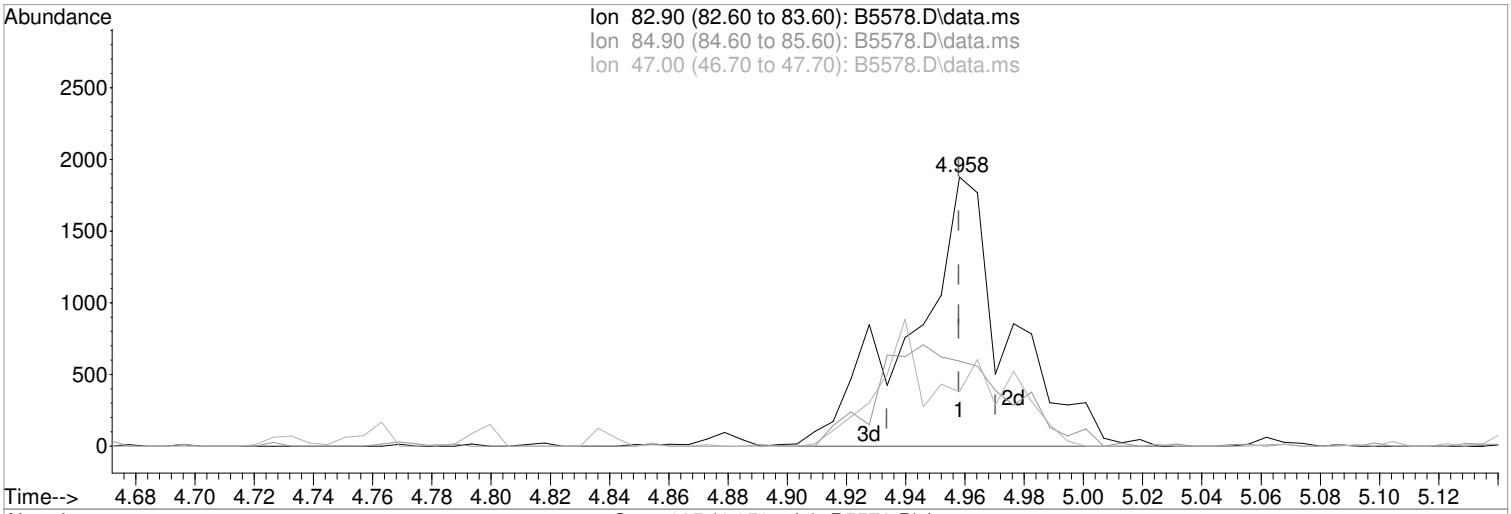
Before

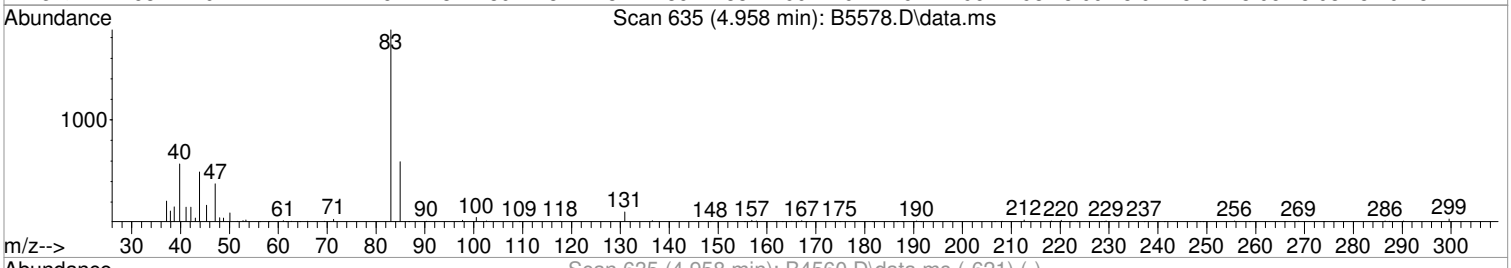
09/08/22

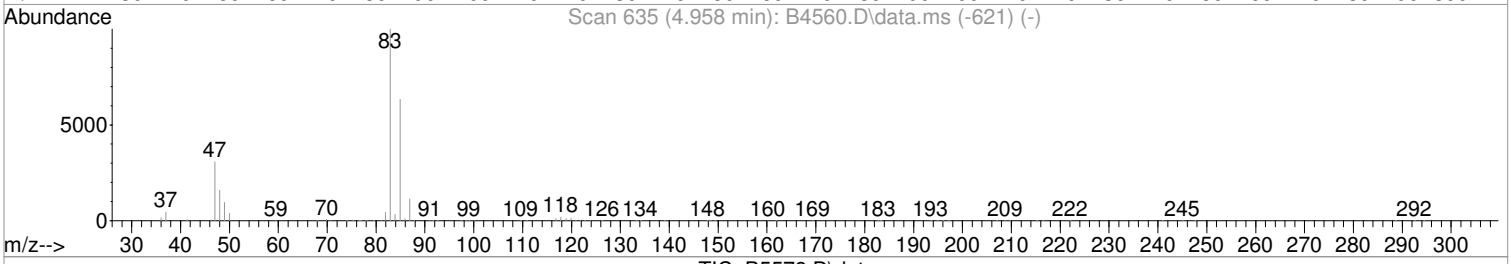
# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5578.D
Acq On : 8 Sep 2022 10:35 am
Operator : F.NAEGLER
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 08 14:19:03 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration




TIC: B5578.D\data.ms

(40) Chloroform (P)

4.958min (+0.000) 0.71 ug/L m

response 4204

| Ion | Exp% | Act% |
|---|---|---|
| 82.90 | 100 | 100 |
| 84.90 | 63.20 | 31.66# |
| 47.00 | 30.80 | 20.20 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

After

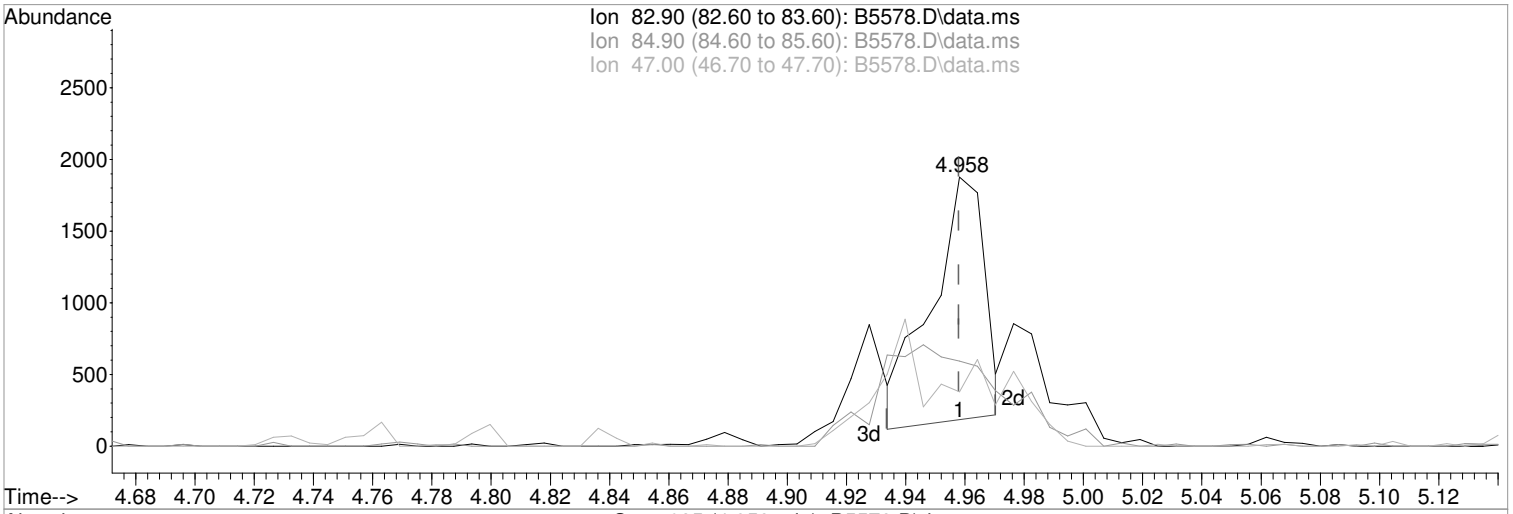
Poor integration.

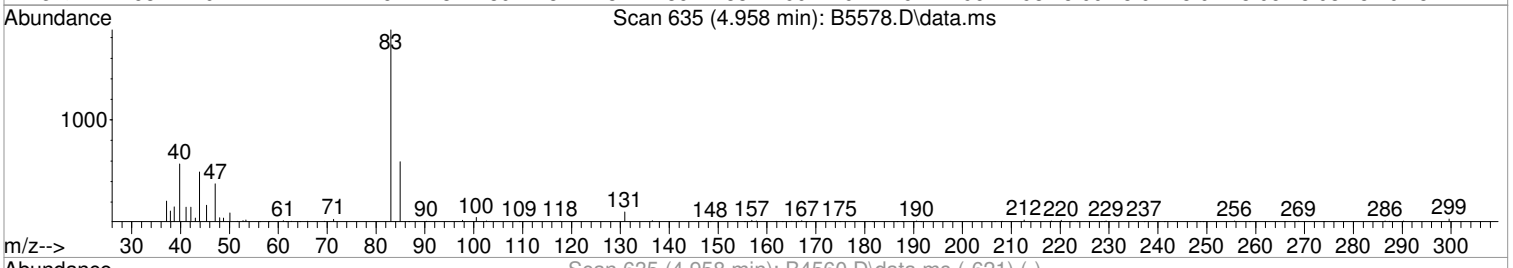
09/08/22

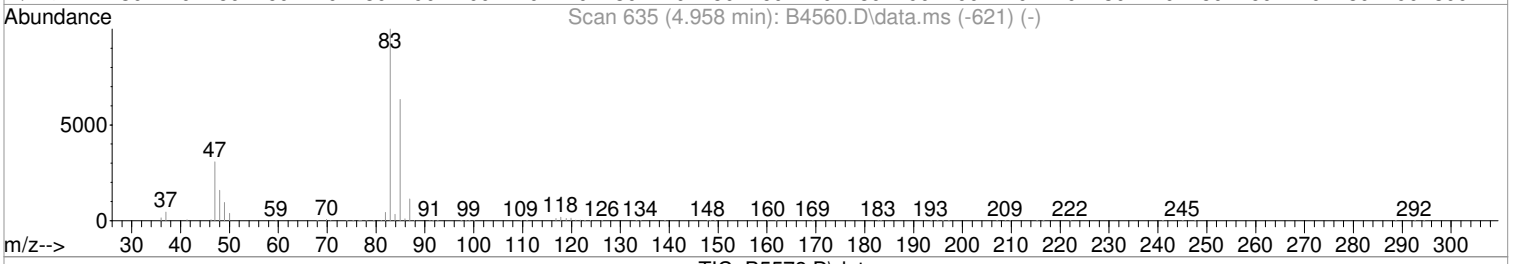
# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5578.D
Acq On : 8 Sep 2022 10:35 am
Operator : F.NAEGLER
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 08 14:19:03 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration




TIC: B5578.D\data.ms

(40) Chloroform (P)

4.958min (+0.000) 0.36 ug/L

response 2119

| Ion | Exp% | Act% |
|---|---|---|
| 82.90 | 100 | 100 |
| 84.90 | 63.20 | 31.66# |
| 47.00 | 30.80 | 20.20 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

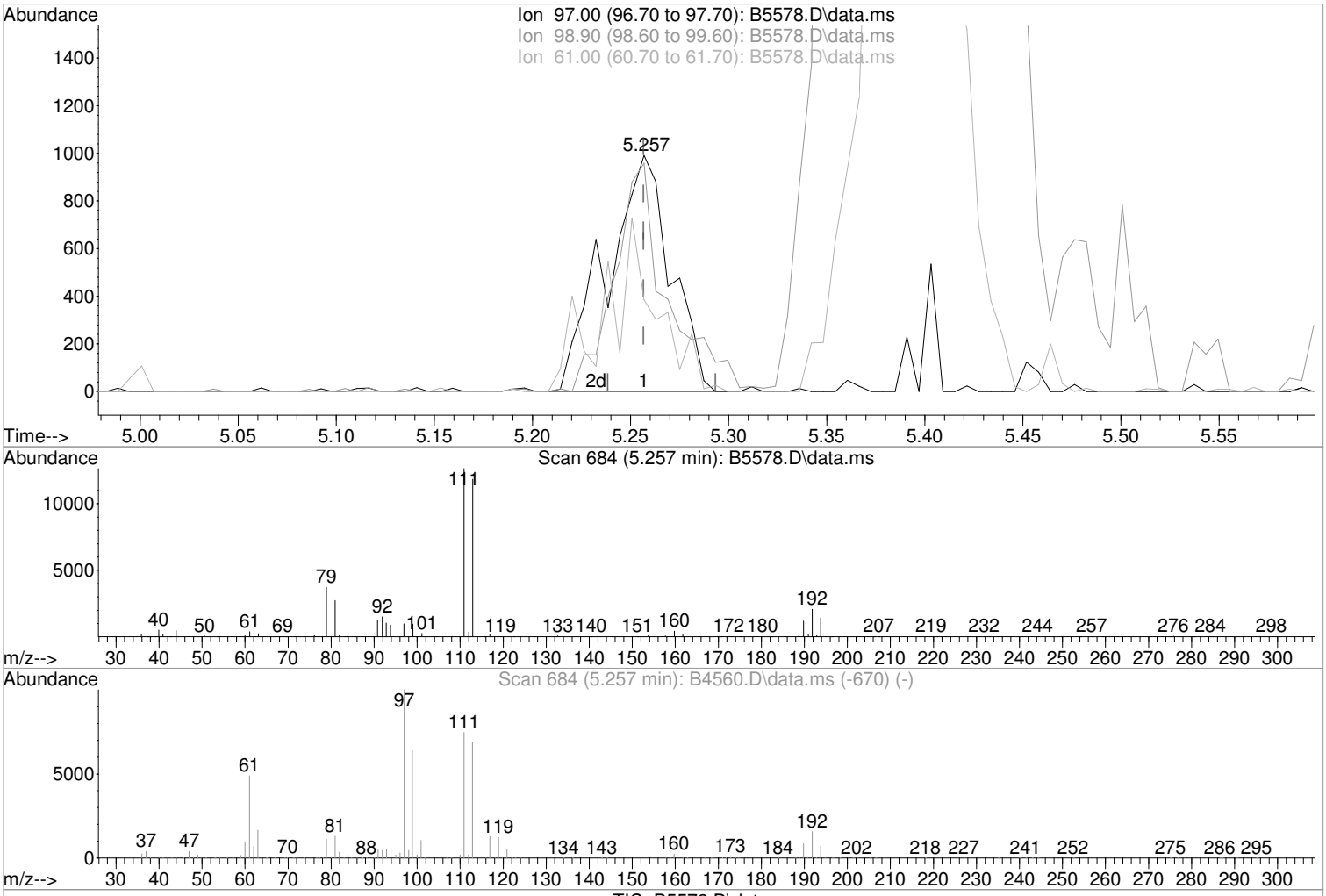
Before

09/08/22

# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5578.D
Acq On : 8 Sep 2022 10:35 am
Operator : F.NAEGLER
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 08 14:19:03 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration




TIC: B5578.D\data.ms

(41) 1,1,1-Trichloroethane (P)

5.257min (+0.000) 0.50 ug/L m

response 2261

| Ion | Exp% | Act% |
|---|---|---|
| 97.00 | 100 | 100 |
| 98.90 | 63.70 | 96.67# |
| 61.00 | 48.90 | 38.95 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

After

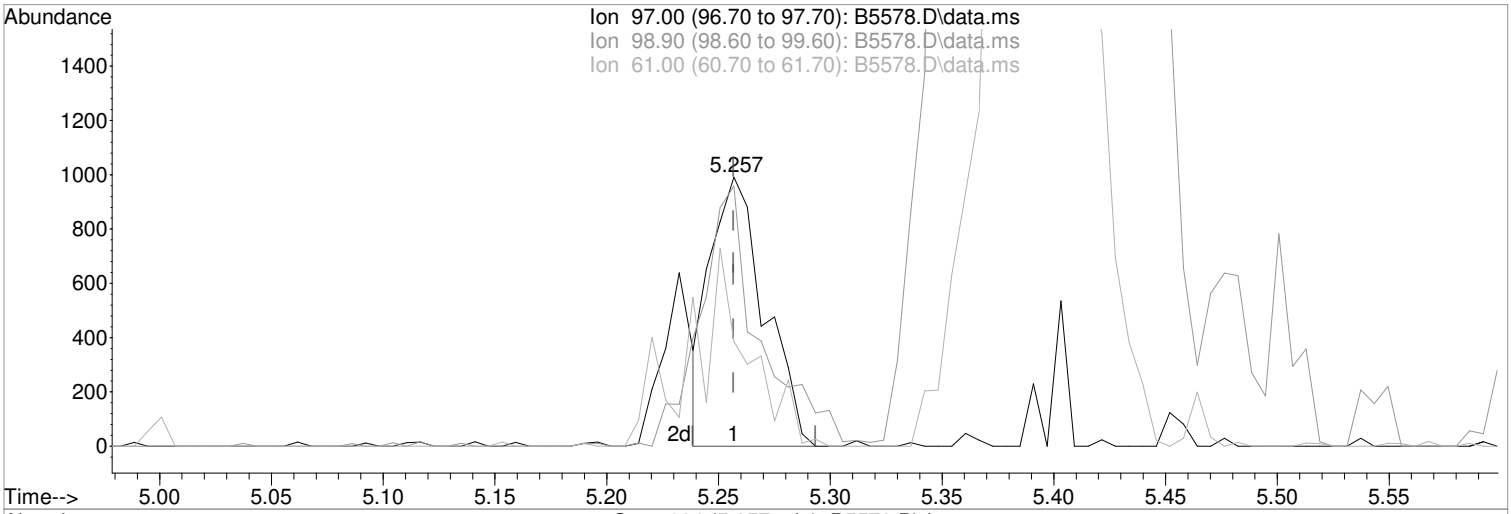
Poor integration.

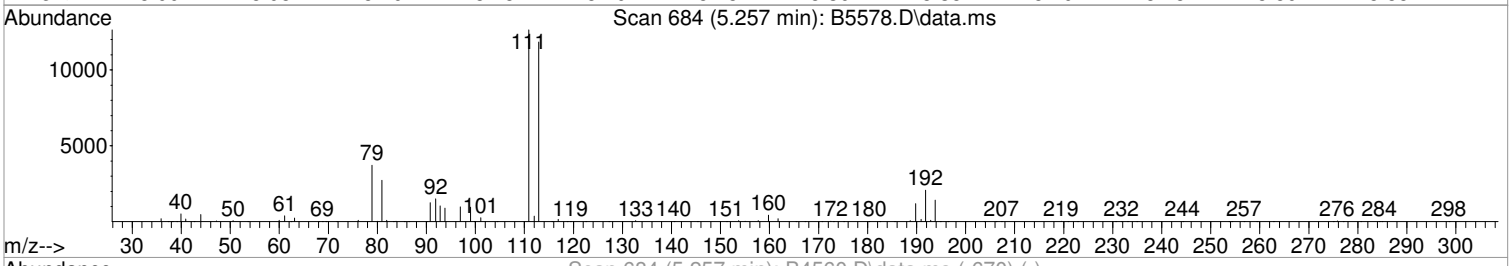
09/08/22

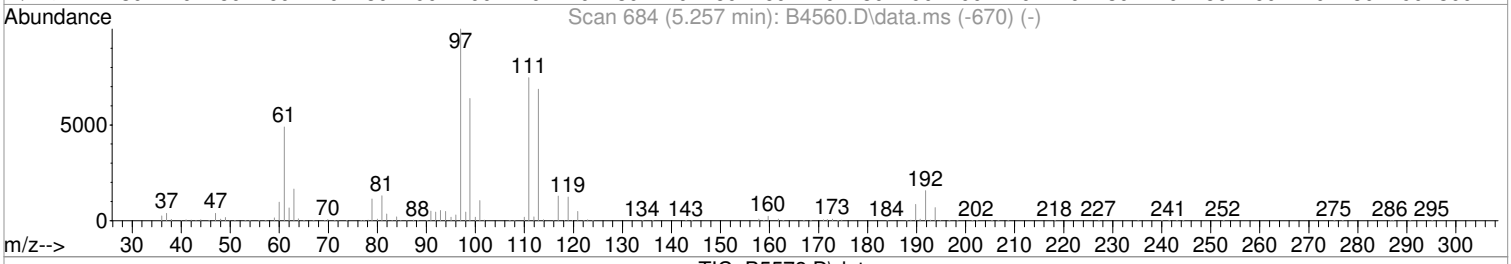
# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5578.D
Acq On : 8 Sep 2022 10:35 am
Operator : F.NAEGLER
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 08 14:19:03 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration




TIC: B5578.D\data.ms

(41) 1,1,1-Trichloroethane (P)

5.257min (+0.000) 0.37 ug/L

response 1685

| Ion | Exp% | Act% |
|---|---|---|
| 97.00 | 100 | 100 |
| 98.90 | 63.70 | 96.67# |
| 61.00 | 48.90 | 38.95 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

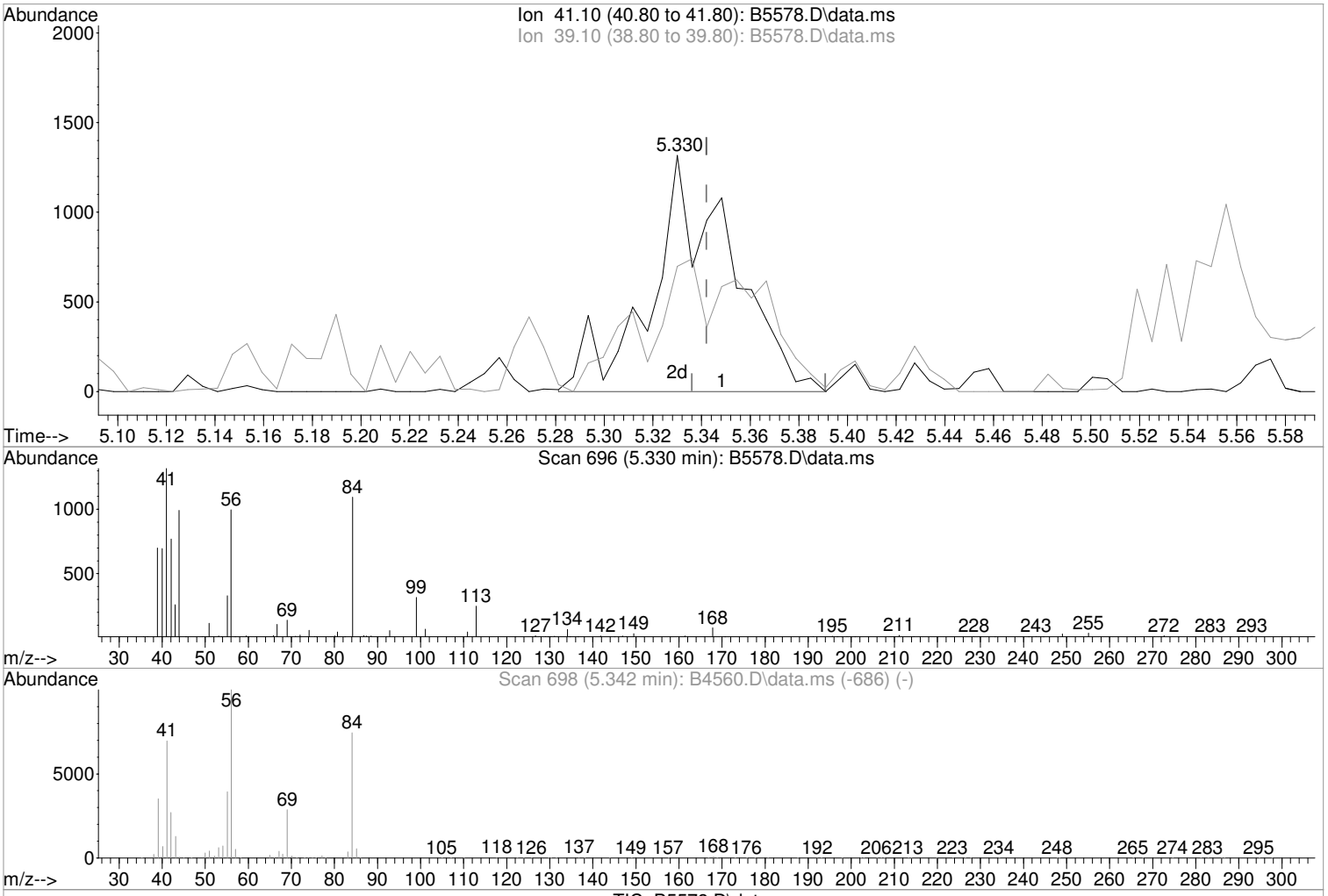
Before

09/08/22

# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5578.D
Acq On : 8 Sep 2022 10:35 am
Operator : F.NAEGLER
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 08 14:19:03 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration




TIC: B5578.D\data.ms

(43) Cyclohexane (P)

5.330min (-0.012) 0.62 ug/L m

response 2999

| Ion | Exp% | Act% |
|---|---|---|
| 41.10 | 100 | 100 |
| 39.10 | 50.20 | 53.08 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

After

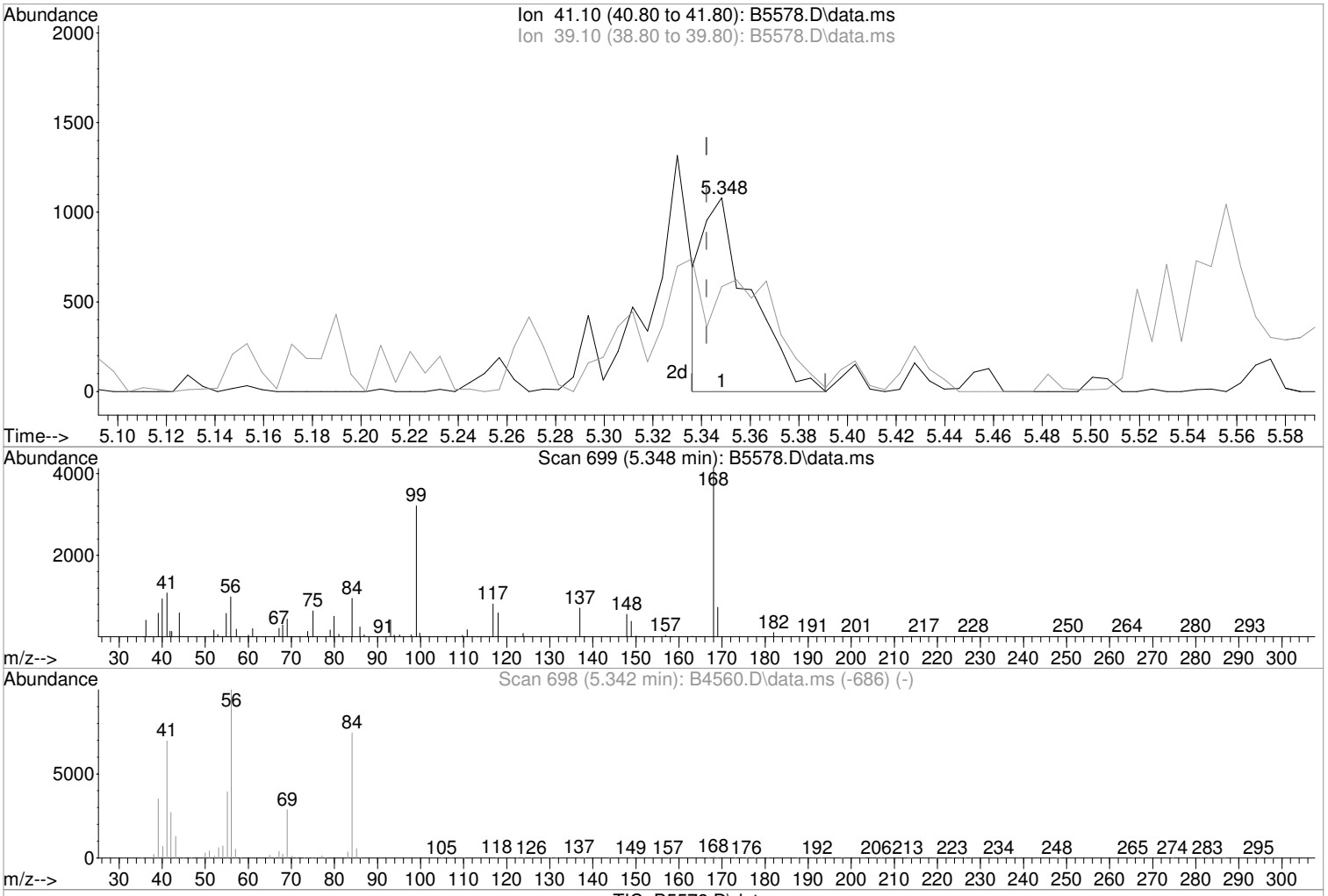
Poor integration.

09/08/22

# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5578.D
Acq On : 8 Sep 2022 10:35 am
Operator : F.NAEGLER
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 08 14:19:03 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration




TIC: B5578.D\data.ms

(43) Cyclohexane (P)

5.348min (+0.006) 0.30 ug/L

response 1445

| Ion | Exp% | Act% |
|---|---|---|
| 41.10 | 100 | 100 |
| 39.10 | 50.20 | 47.80 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

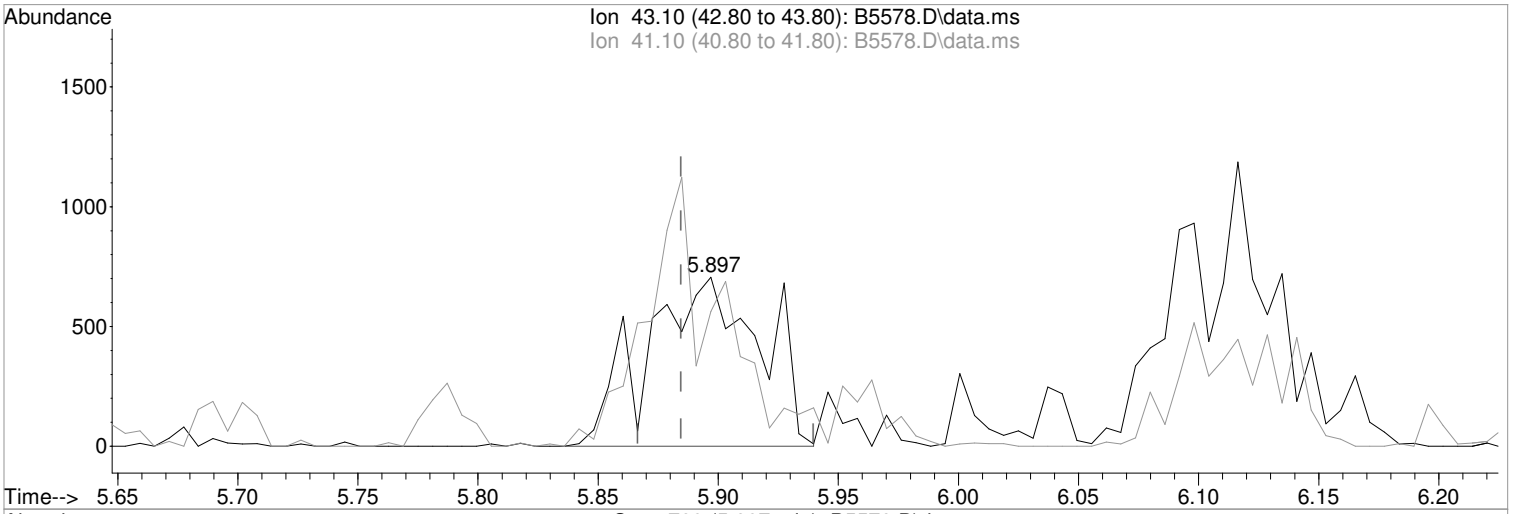
Before

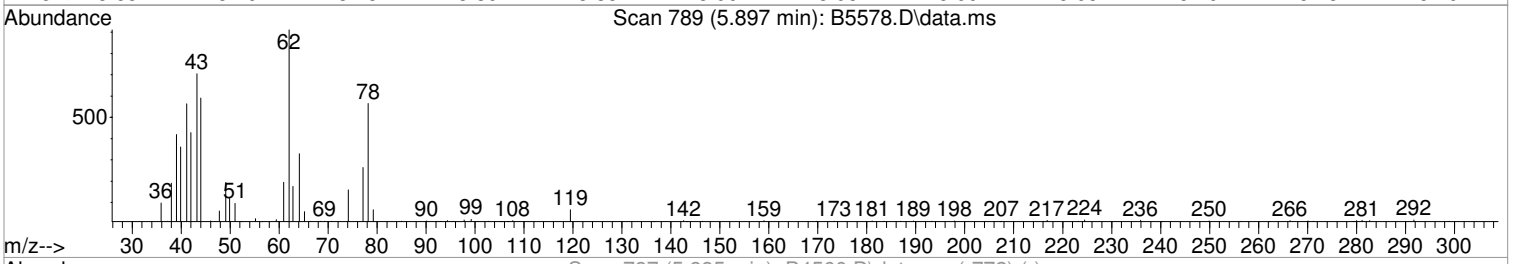
09/08/22

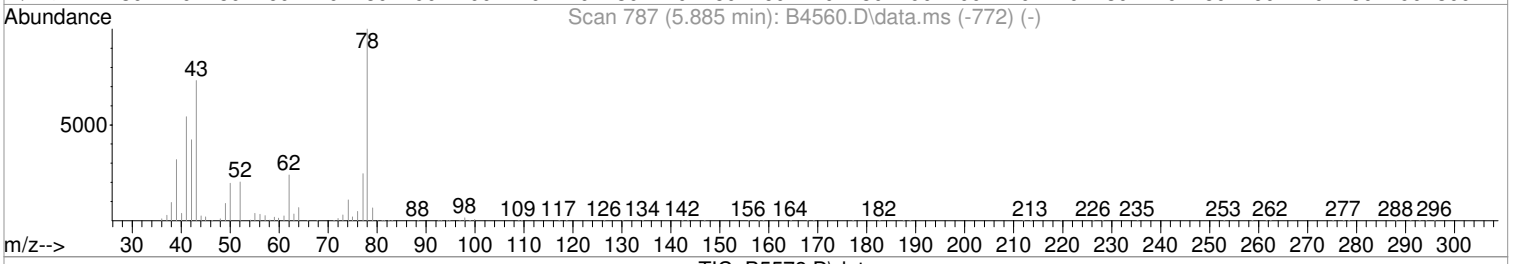
# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5578.D
Acq On : 8 Sep 2022 10:35 am
Operator : F.NAEGLER
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 08 14:19:03 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration




TIC: B5578.D\data.ms

(50) Iso-Butyl Alcohol

5.897min (+0.012) 7.18 ug/L m

response 2337

| Ion | Exp% | Act% |
|---|---|---|
| 43.10 | 100 | 100 |
| 41.10 | 74.50 | 79.86 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

After

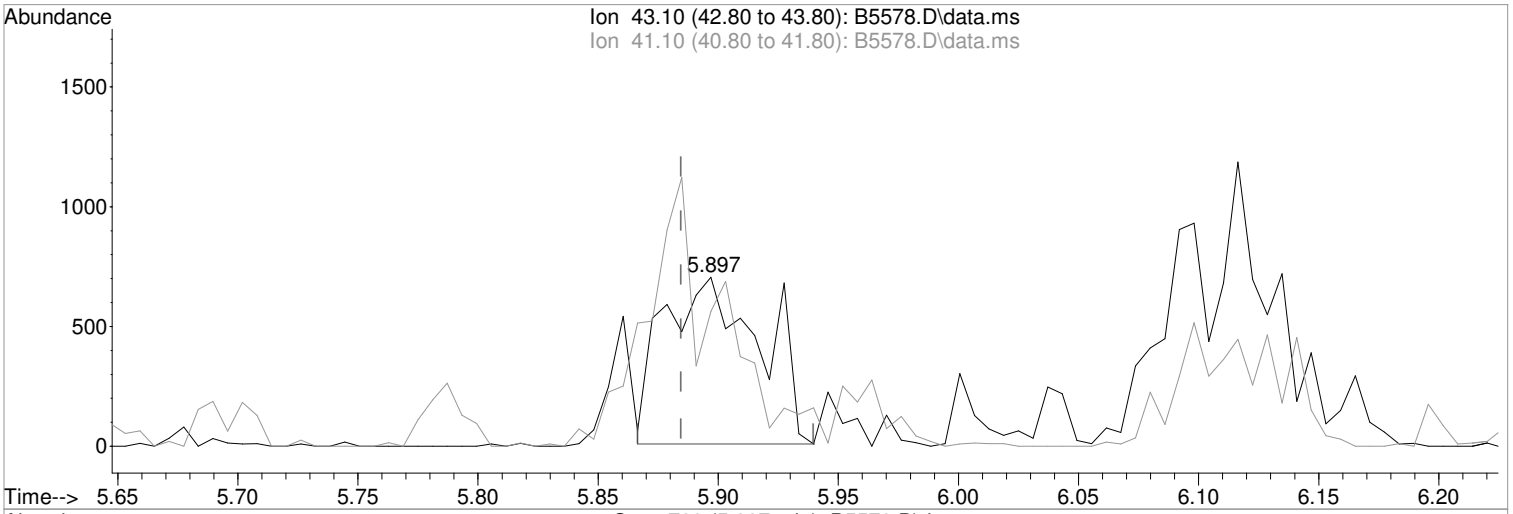
Poor integration.

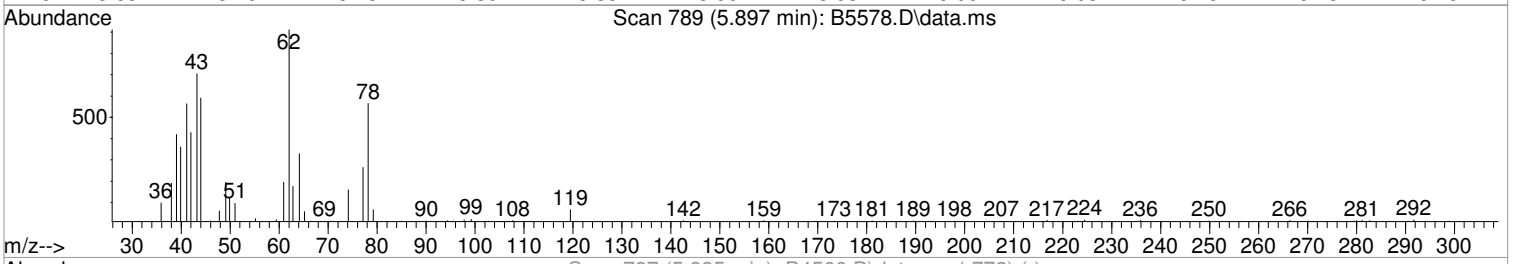
09/08/22

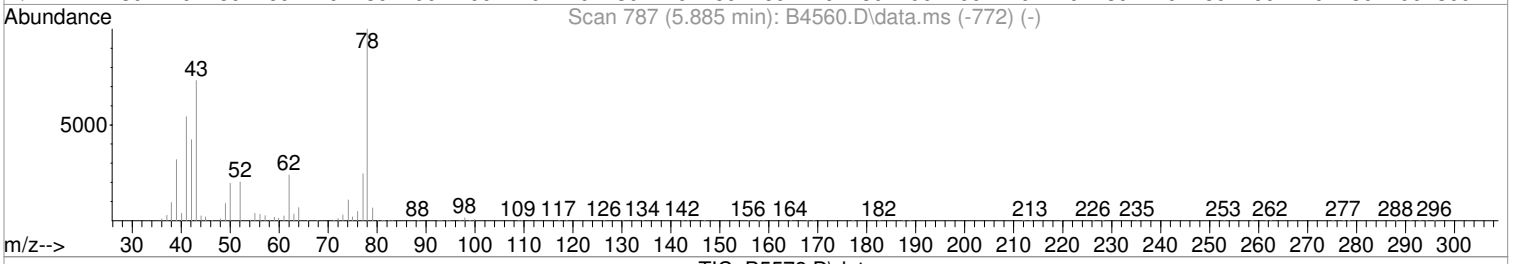
# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5578.D
Acq On : 8 Sep 2022 10:35 am
Operator : F.NAEGLER
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 08 14:19:03 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration




TIC: B5578.D\data.ms

(50) Iso-Butyl Alcohol

5.897min (+0.012) 5.99 ug/L

response 1950

| Ion | Exp% | Act% |
|---|---|---|
| 43.10 | 100 | 100 |
| 41.10 | 74.50 | 79.86 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

Before

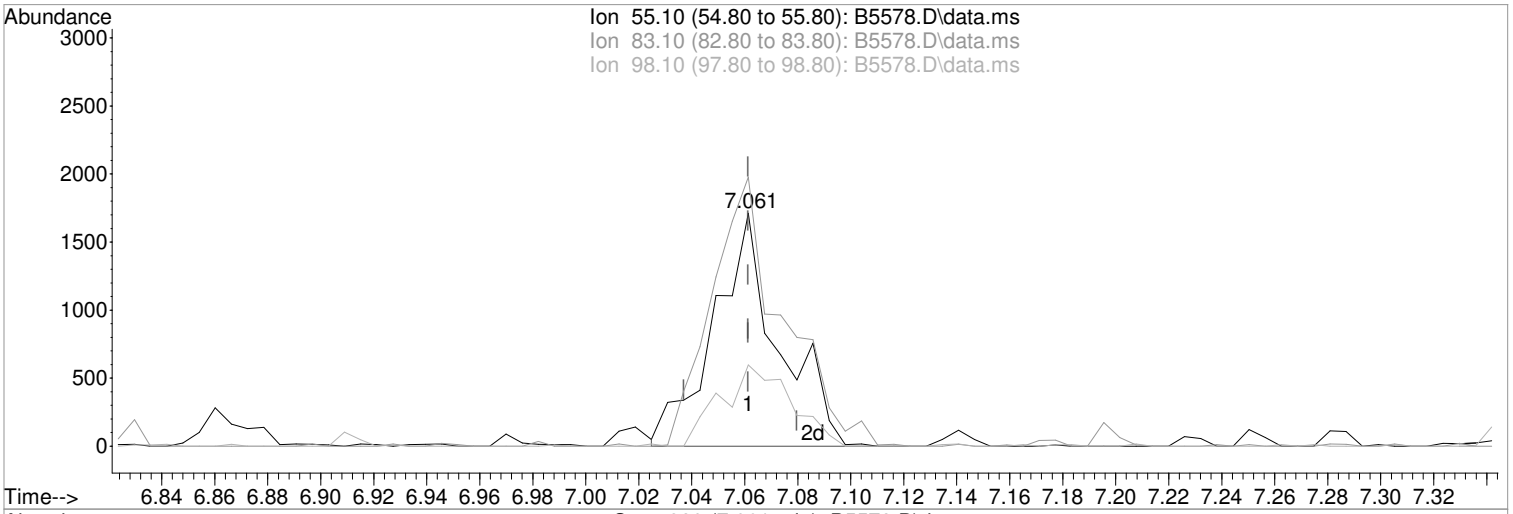
09/08/22

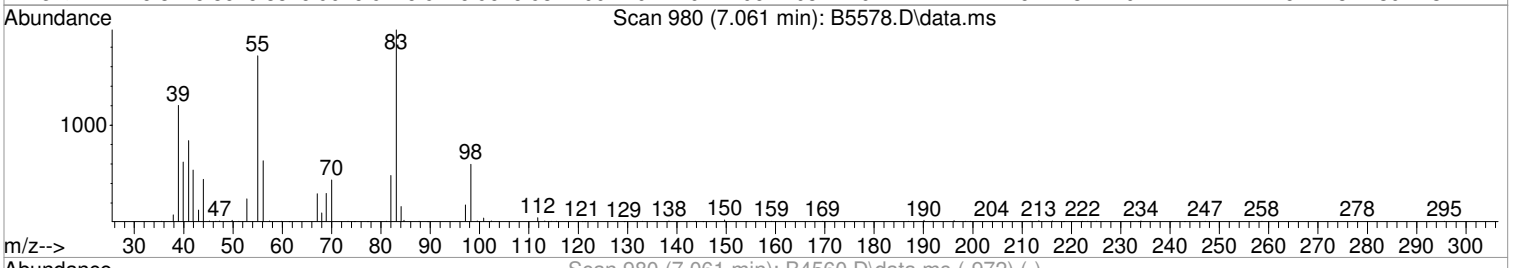
1st FN 09/08/22
2nd 09/12/22

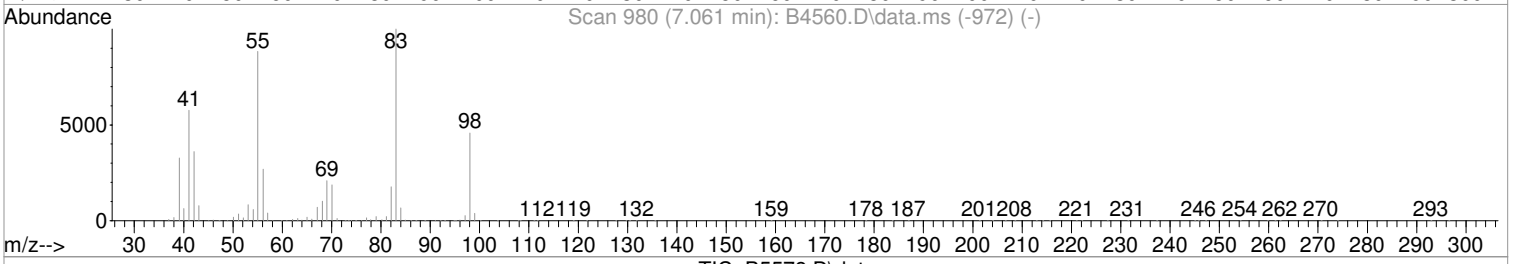
# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5578.D
Acq On : 8 Sep 2022 10:35 am
Operator : F.NAEGLER
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 08 14:19:03 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration




TIC: B5578.D\data.ms

(55) Methylcyclohexane (P)

7.061min (+0.000) 0.54 ug/L m

response 2912

| Ion | Exp% | Act% |
|---|---|---|
| 55.10 | 100 | 100 |
| 83.10 | 112.90 | 115.55 |
| 98.10 | 51.70 | 34.95 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

After

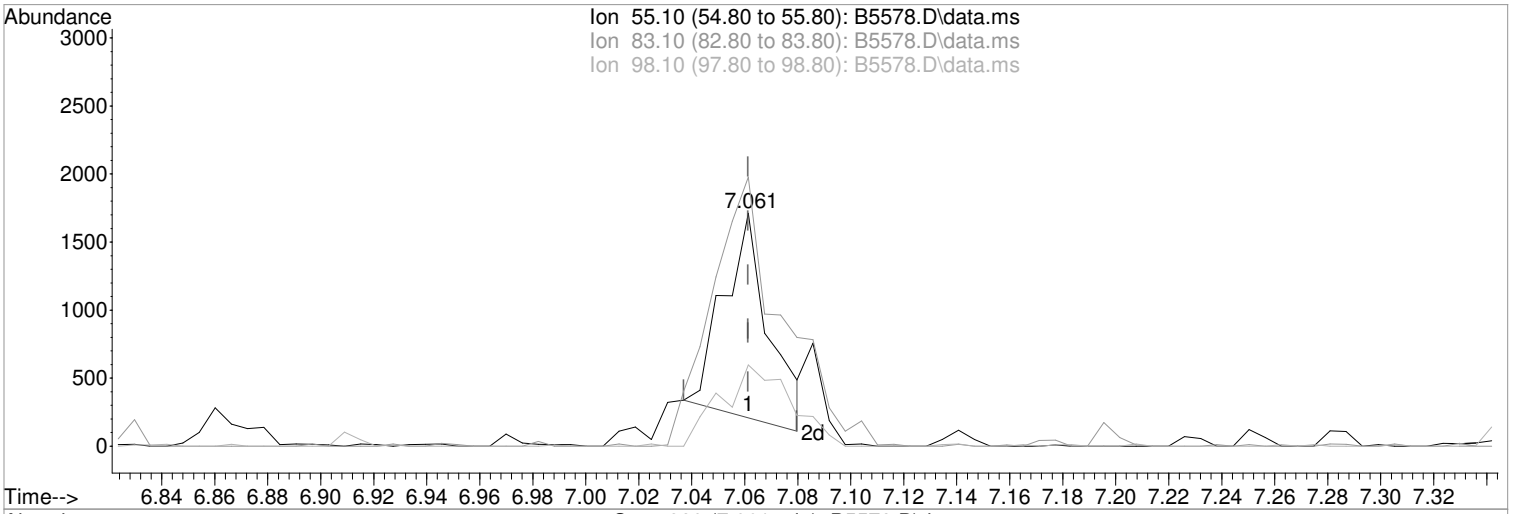
Poor integration.

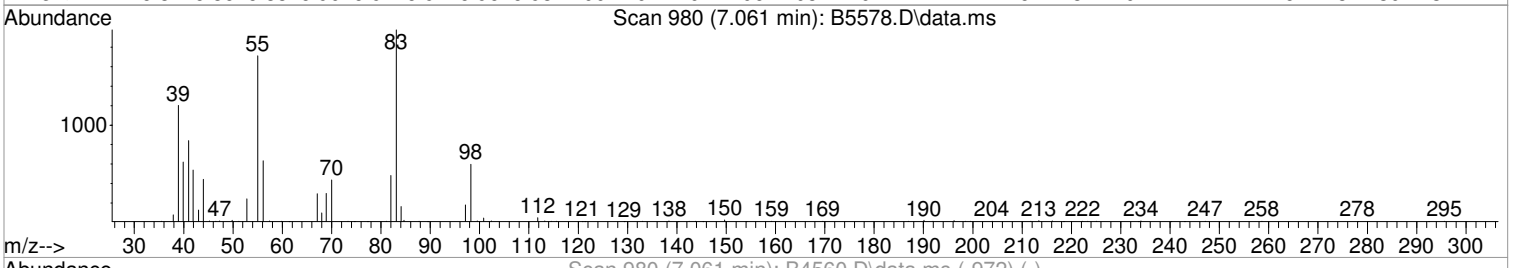
09/08/22

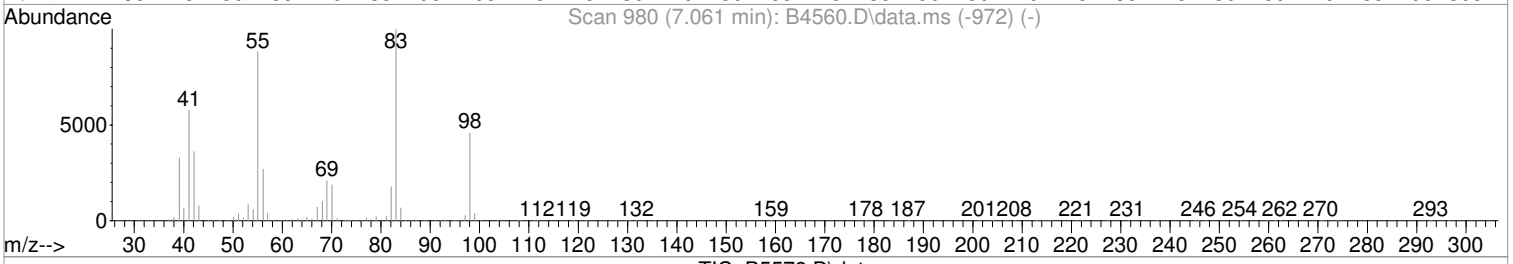
# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5578.D
Acq On : 8 Sep 2022 10:35 am
Operator : F.NAEGLER
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 08 14:19:03 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration




TIC: B5578.D\data.ms

(55) Methylcyclohexane (P)

7.061min (+0.000) 0.32 ug/L

response 1739

| Ion | Exp% | Act% |
|---|---|---|
| 55.10 | 100 | 100 |
| 83.10 | 112.90 | 115.55 |
| 98.10 | 51.70 | 34.95 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

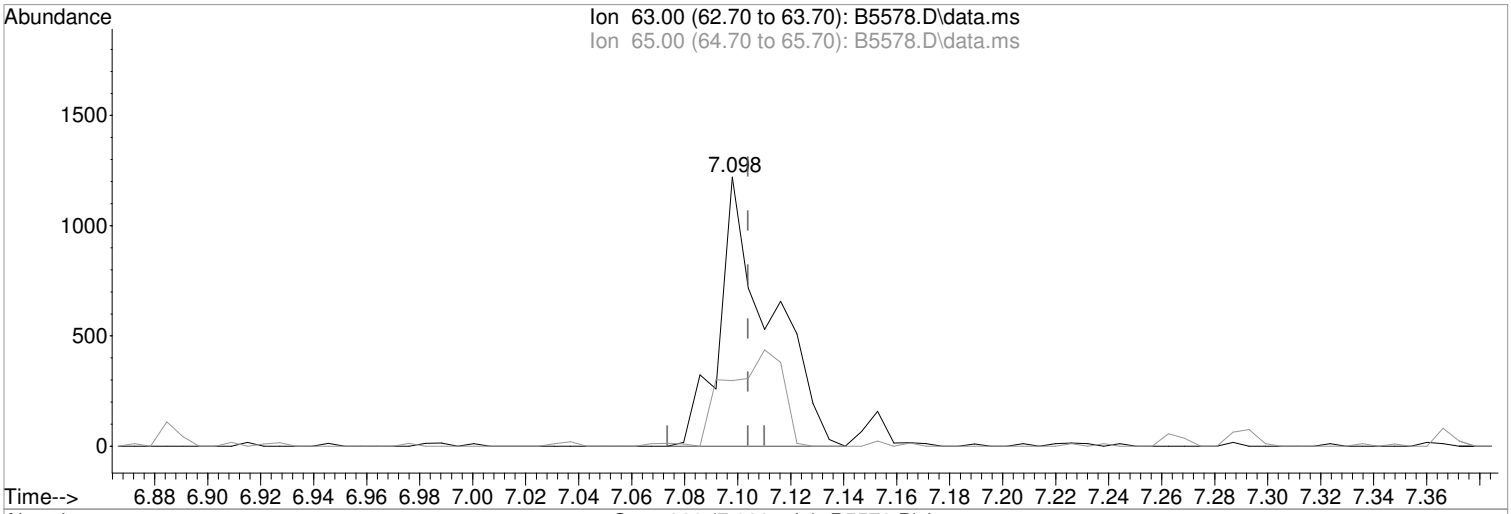
Before

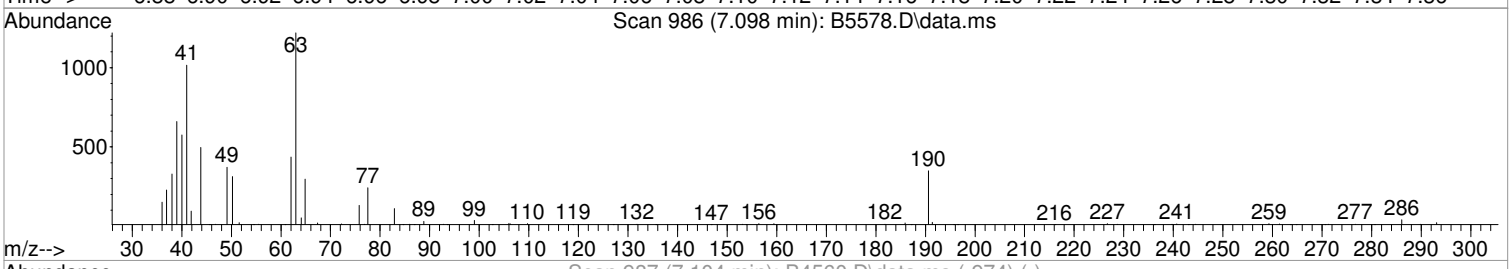
09/08/22

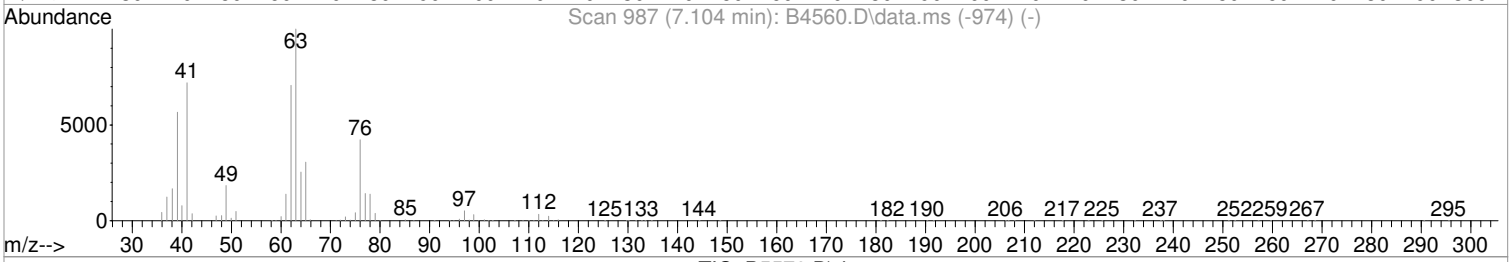
# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5578.D
Acq On : 8 Sep 2022 10:35 am
Operator : F.NAEGLER
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 08 14:19:03 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration




TIC: B5578.D\data.ms

(56) 1,2-Diclpropane (P)

7.098min (-0.006) 0.39 ug/L m

response 1631

| Ion | Exp% | Act% |
|---|---|---|
| 63.00 | 100 | 100 |
| 65.00 | 30.50 | 24.34 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

After

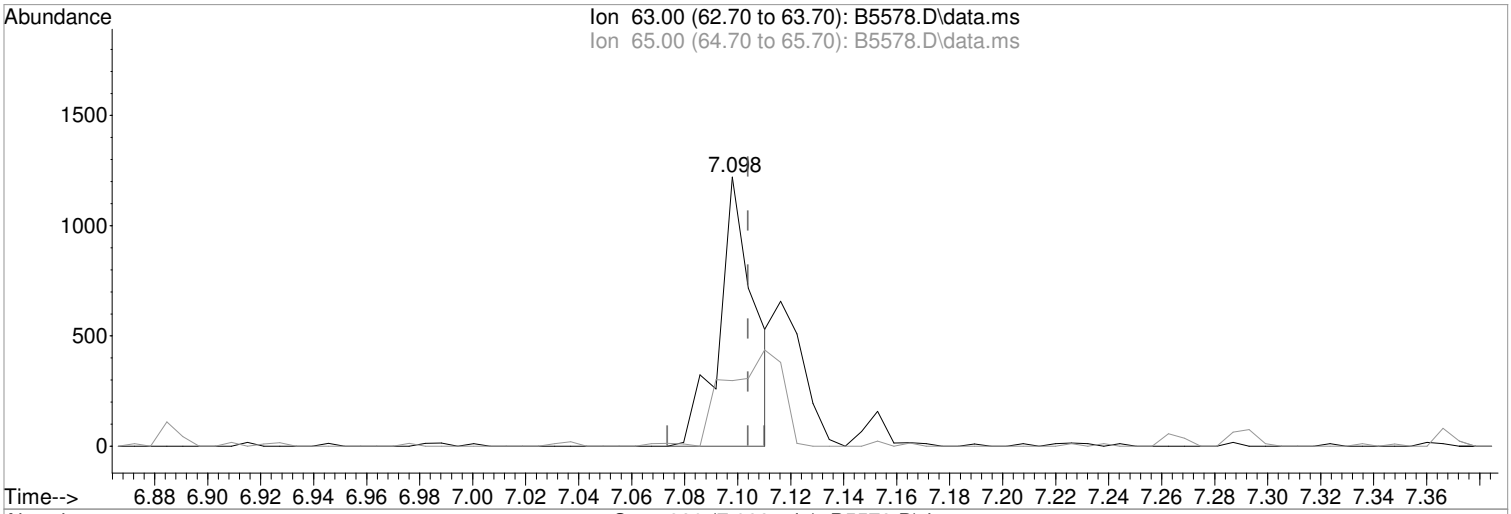
Poor integration.

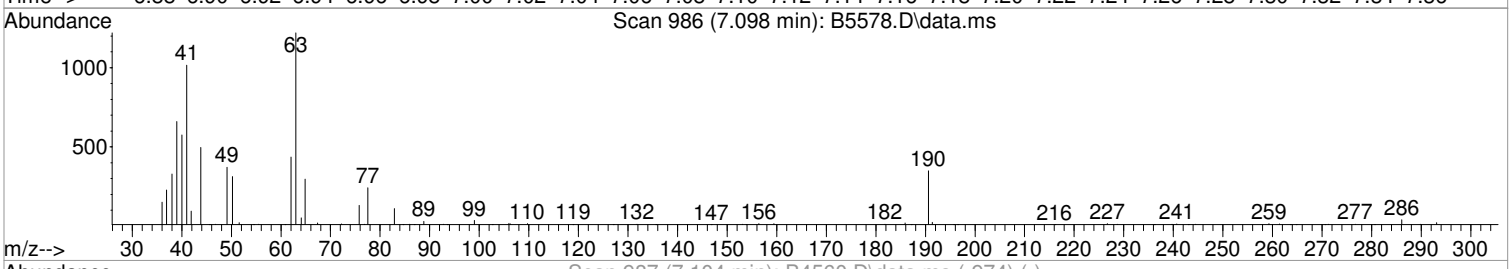
09/08/22

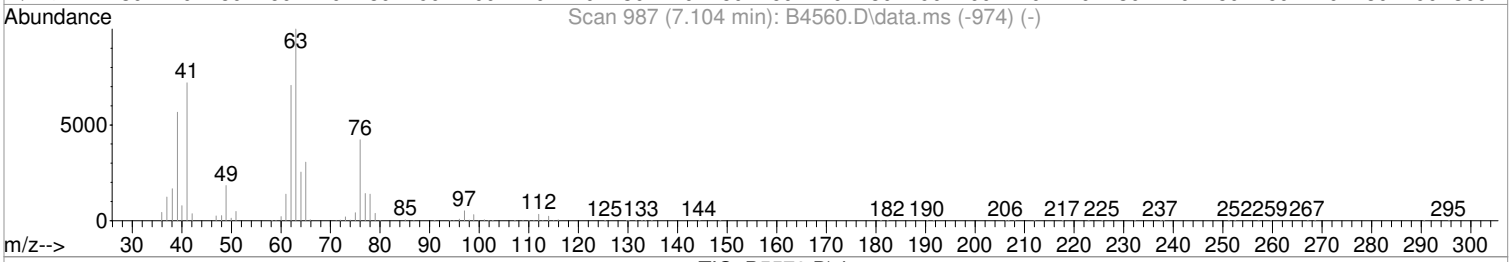
# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5578.D
Acq On : 8 Sep 2022 10:35 am
Operator : F.NAEGLER
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 08 14:19:03 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration




TIC: B5578.D\data.ms

(56) 1,2-Diclpropane (P)

7.098min (-0.006) 0.27 ug/L

response 1122

| Ion | Exp% | Act% |
|---|---|---|
| 63.00 | 100 | 100 |
| 65.00 | 30.50 | 24.34 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

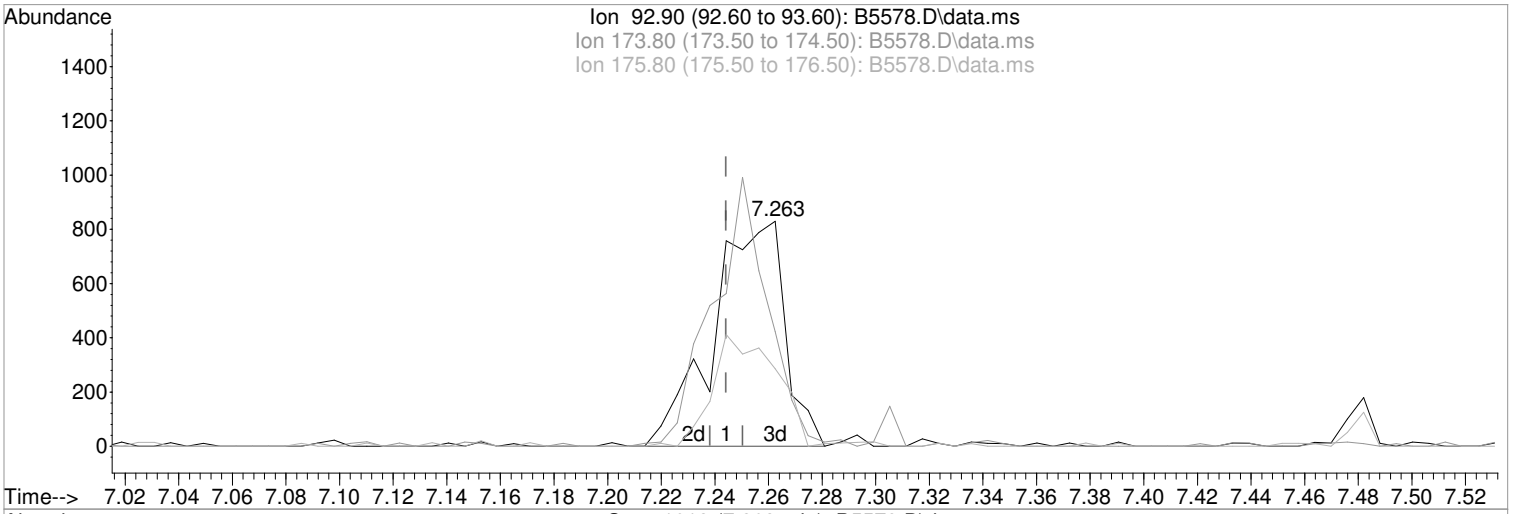
Before

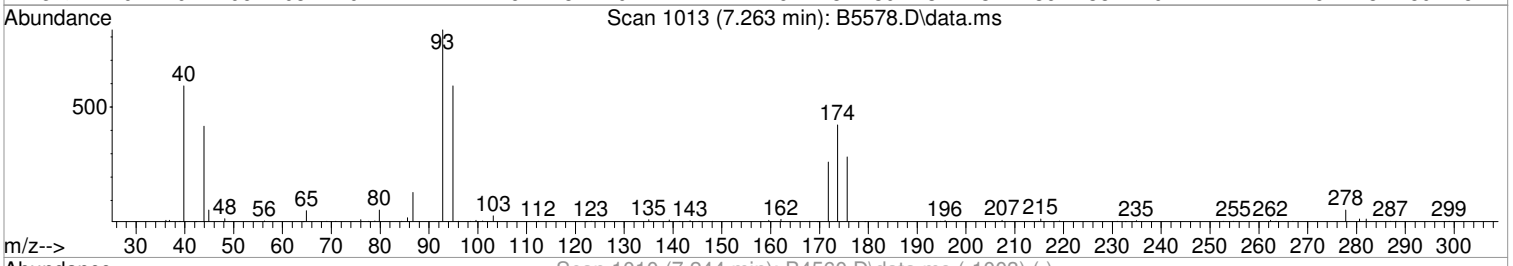
09/08/22

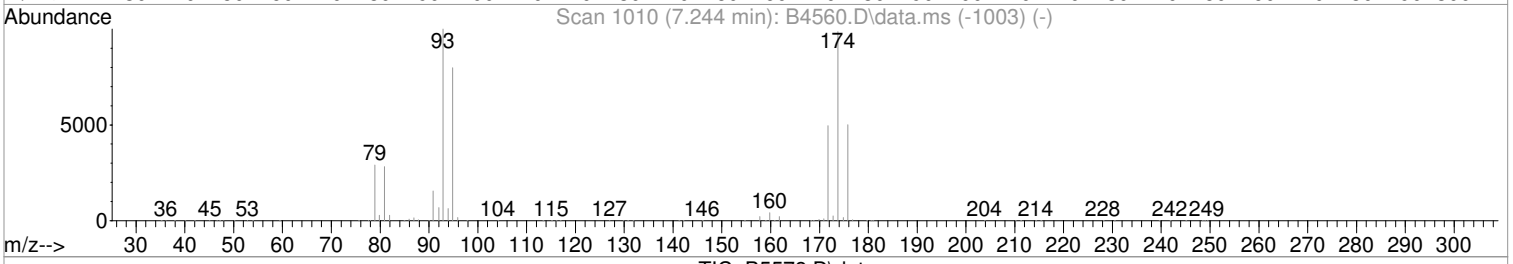
# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5578.D
Acq On : 8 Sep 2022 10:35 am
Operator : F.NAEGLER
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 08 14:19:03 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration




TIC: B5578.D\data.ms

(57) Dibromomethane

7.263min (+0.018) 0.60 ug/L m

response 1540

| Ion | Exp% | Act% |
|---|---|---|
| 92.90 | 100 | 100 |
| 173.80 | 98.70 | 50.96# |
| 175.80 | 50.10 | 34.46 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

After

Poor integration.

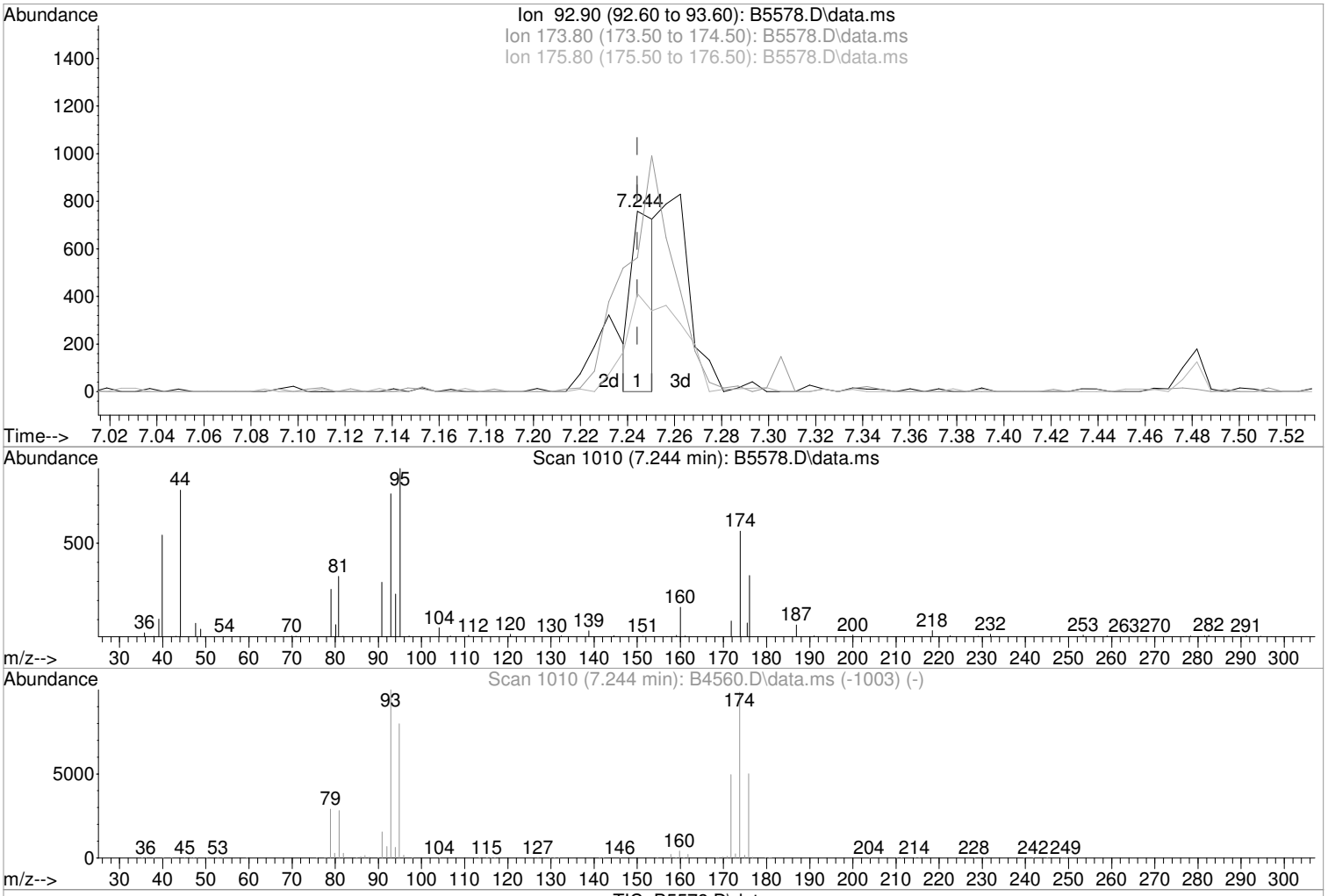
09/08/22

1st FW 09/08/22
2nd WR 09/12/22

# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5578.D
Acq On : 8 Sep 2022 10:35 am
Operator : F.NAEGLER
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 08 14:19:03 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration




TIC: B5578.D\data.ms

(57) Dibromomethane

7.244min (+0.000) 0.21 ug/L

response 543

| Ion | Exp% | Act% |
|---|---|---|
| 92.90 | 100 | 100 |
| 173.80 | 98.70 | 74.27# |
| 175.80 | 50.10 | 54.35 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

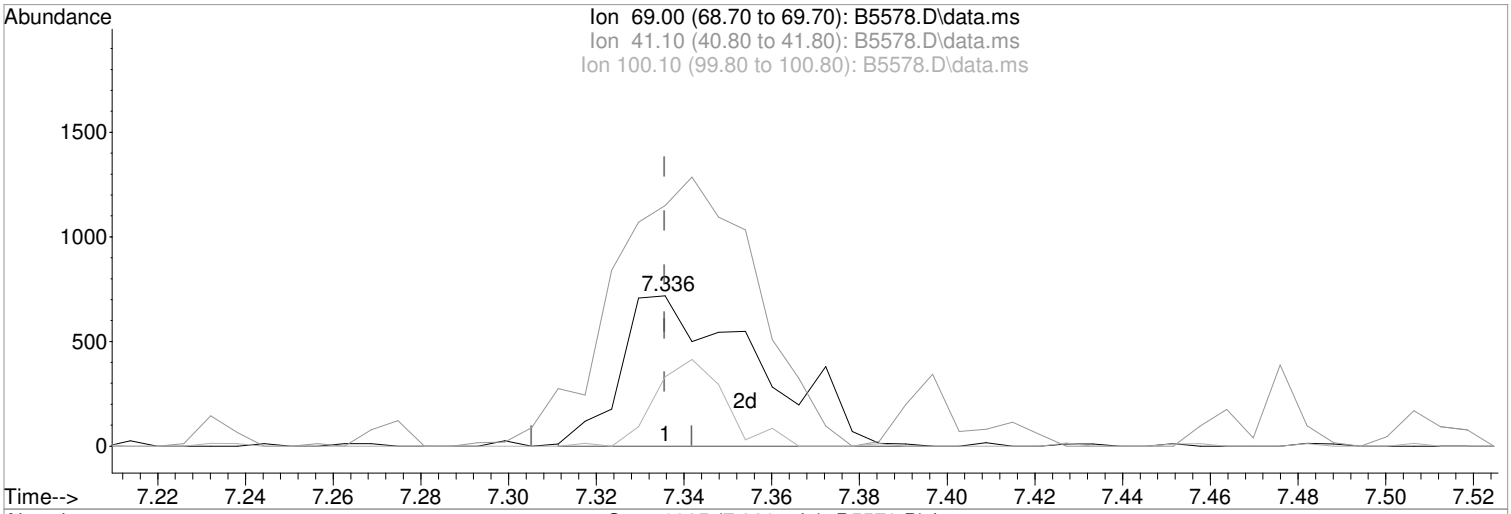
Before

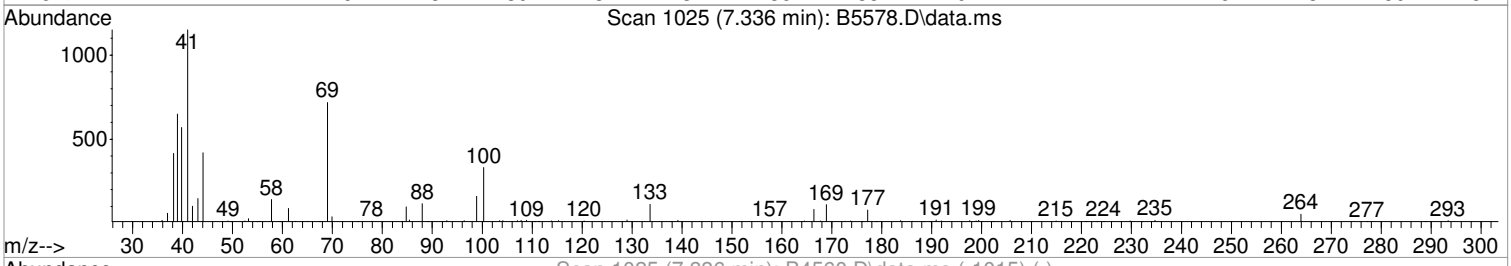
09/08/22

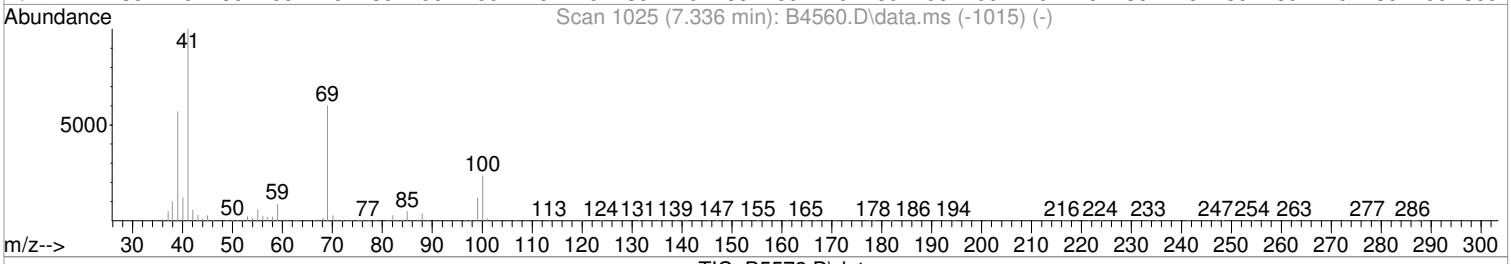
# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5578.D
Acq On : 8 Sep 2022 10:35 am
Operator : F.NAEGLER
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 08 14:19:03 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration




TIC: B5578.D\data.ms

(59) Methyl Methacrylate

7.336min (+0.000) 0.50 ug/L m

response 1561

| Ion | Exp% | Act% |
|---|---|---|
| 69.00 | 100 | 100 |
| 41.10 | 168.10 | 160.17 |
| 100.10 | 39.10 | 46.10 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

After

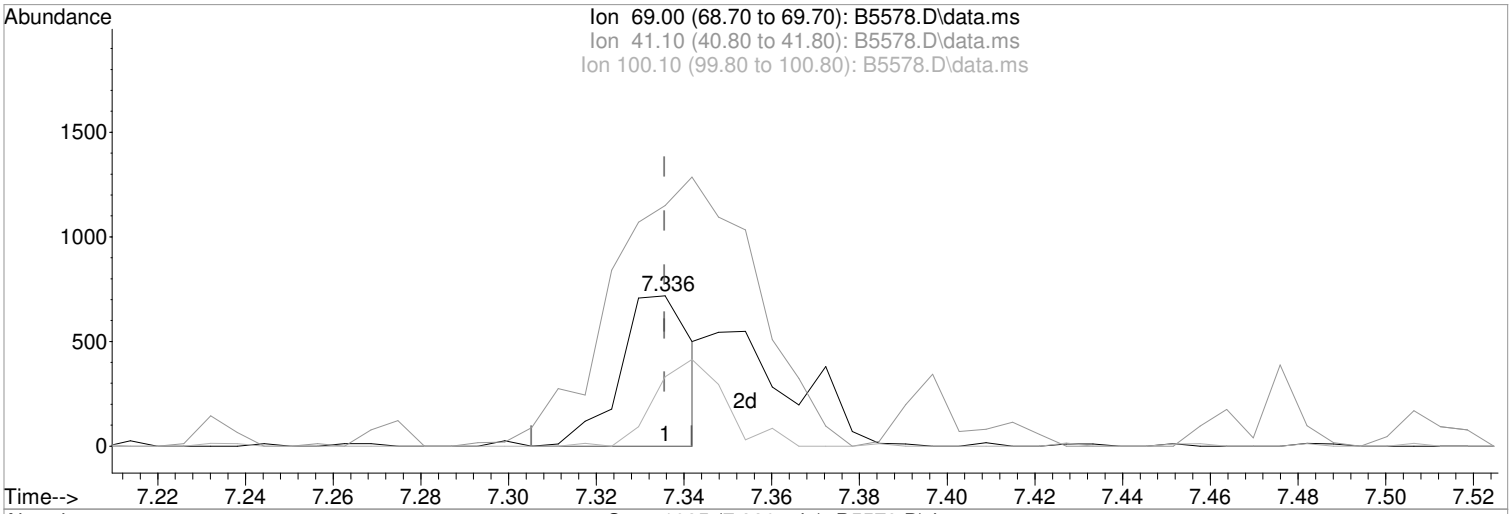
Poor integration.

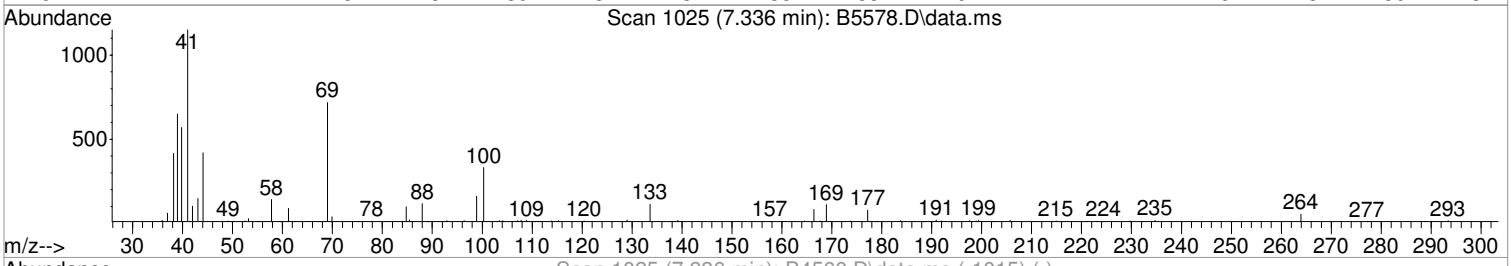
09/08/22

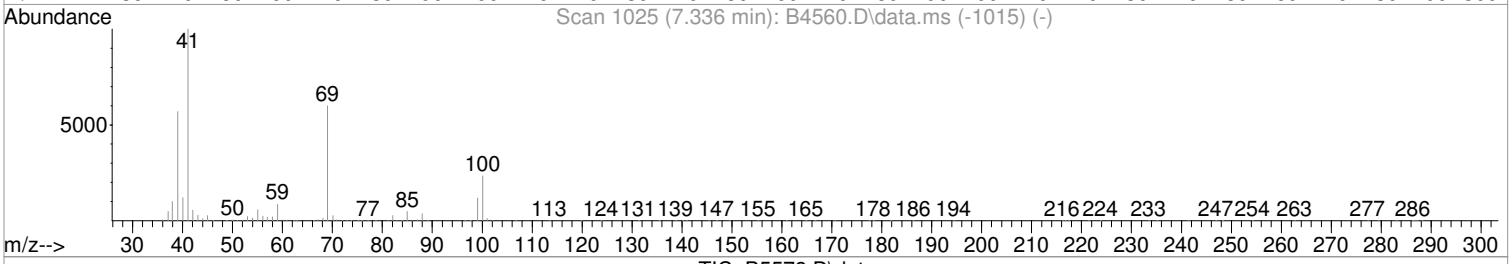
# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5578.D
Acq On : 8 Sep 2022 10:35 am
Operator : F.NAEGLER
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 08 14:19:03 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration




TIC: B5578.D\data.ms

(59) Methyl Methacrylate

7.336min (+0.000) 0.26 ug/L

response 817

| Ion | Exp% | Act% |
|---|---|---|
| 69.00 | 100 | 100 |
| 41.10 | 168.10 | 160.17 |
| 100.10 | 39.10 | 46.10 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

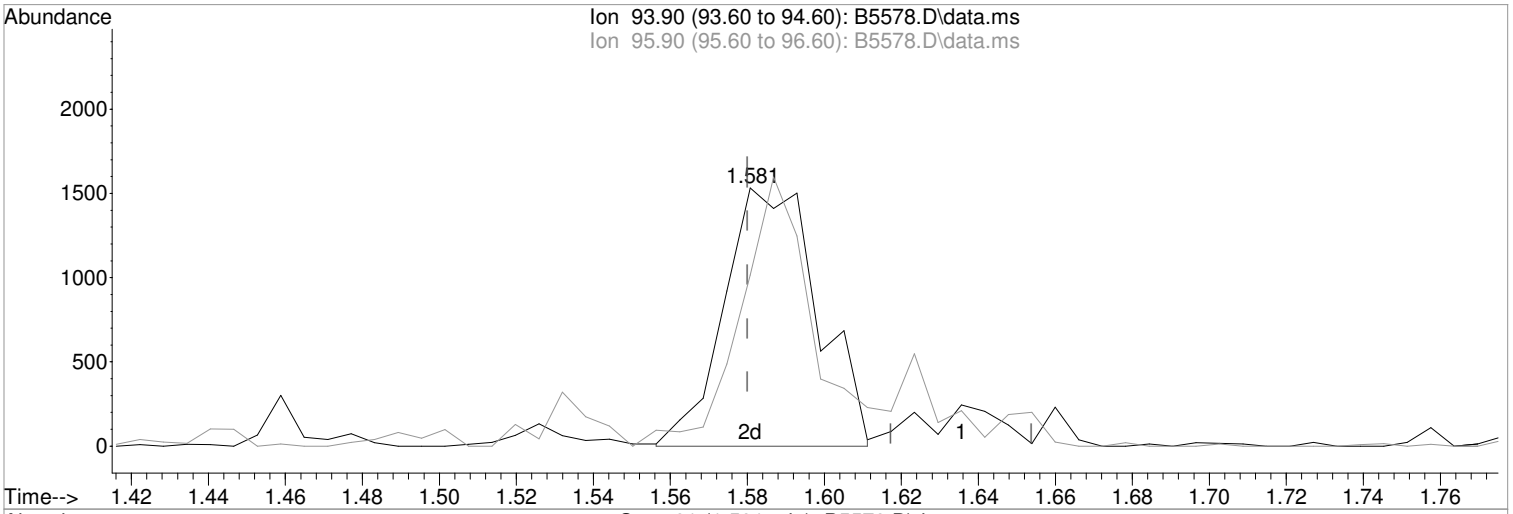
Before

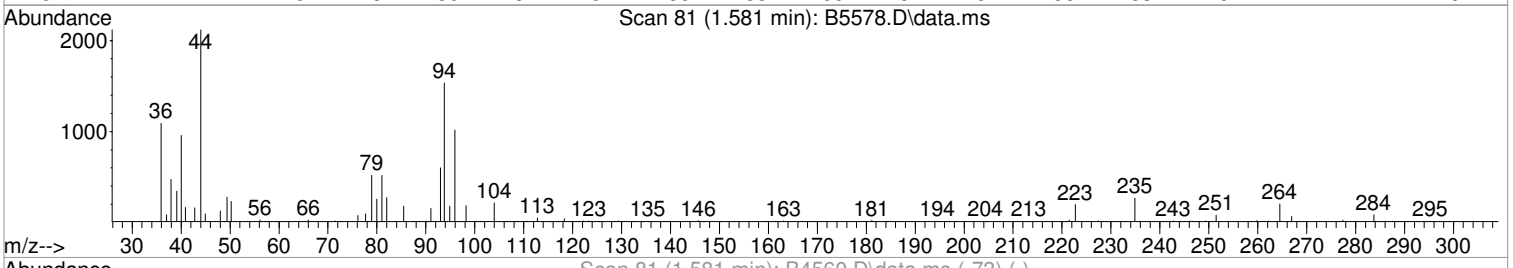
09/08/22

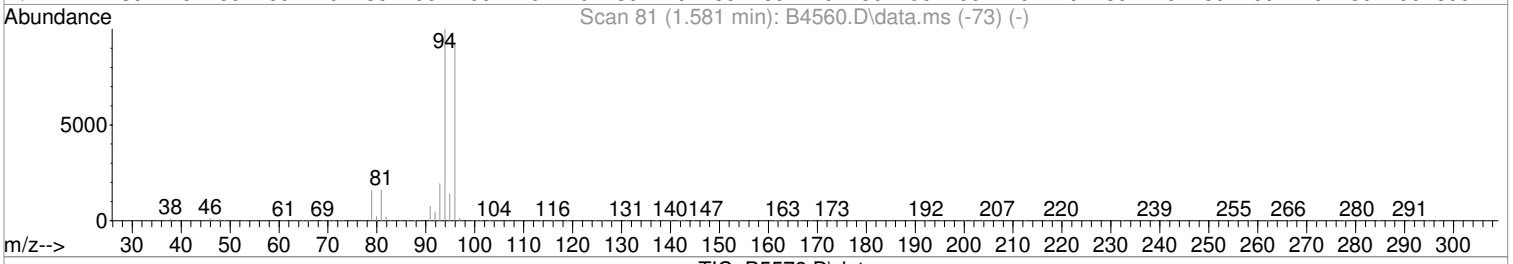
# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5578.D
Acq On : 8 Sep 2022 10:35 am
Operator : F.NAEGLER
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 08 14:19:03 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration




TIC: B5578.D\data.ms

(6) Bromomethane (P)

1.581min (+0.001) 1.12 ug/L m

response 2594

| Ion | Exp% | Act% |
|---|---|---|
| 93.90 | 100 | 100 |
| 95.90 | 92.60 | 66.28# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

After

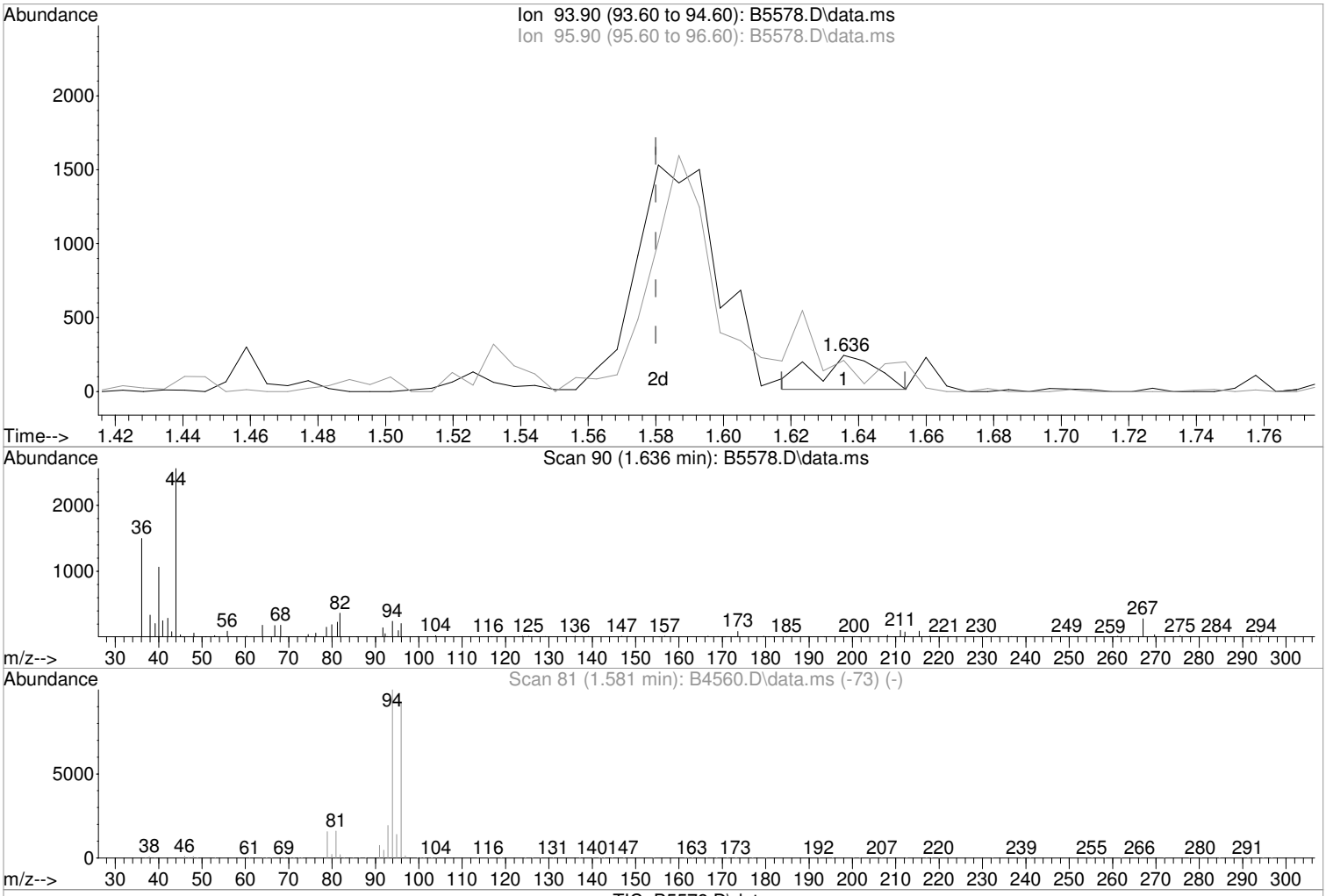
Poor integration.

09/08/22

# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5578.D
Acq On : 8 Sep 2022 10:35 am
Operator : F.NAEGLER
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 08 14:19:03 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration




TIC: B5578.D\data.ms

(6) Bromomethane (P)

1.636min (+0.056) 0.12 ug/L

response 283

| Ion | Exp% | Act% |
|---|---|---|
| 93.90 | 100 | 100 |
| 95.90 | 92.60 | 86.48 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

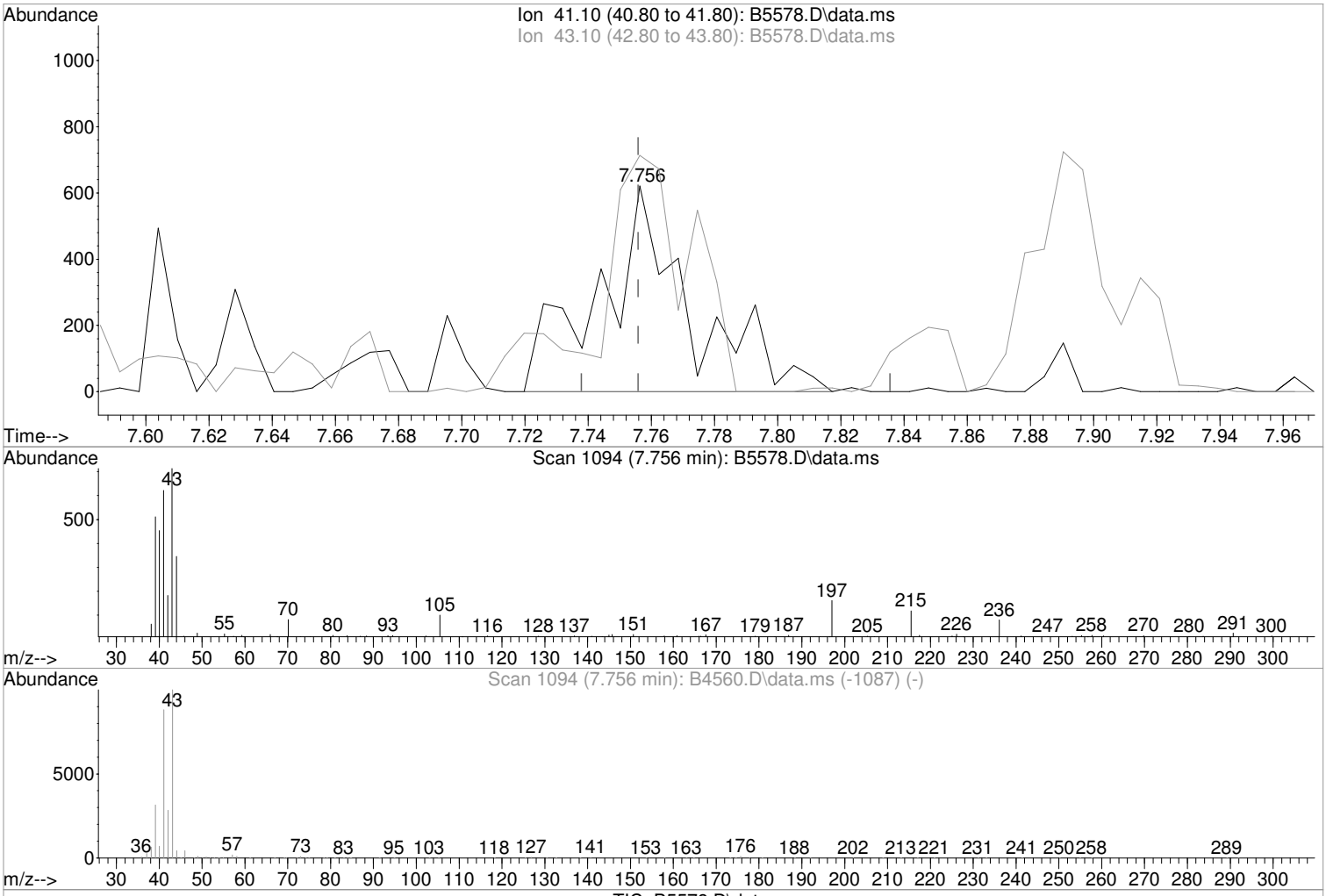
Before

09/08/22

# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5578.D
Acq On : 8 Sep 2022 10:35 am
Operator : F.NAEGLER
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 08 14:19:03 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration




TIC: B5578.D\data.ms

(61) 2-Nitropropane

7.756min (+0.000) 1.11 ug/L m

response 1239

| Ion | Exp% | Act% |
|---|---|---|
| 41.10 | 100 | 100 |
| 43.10 | 113.00 | 114.81 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

After

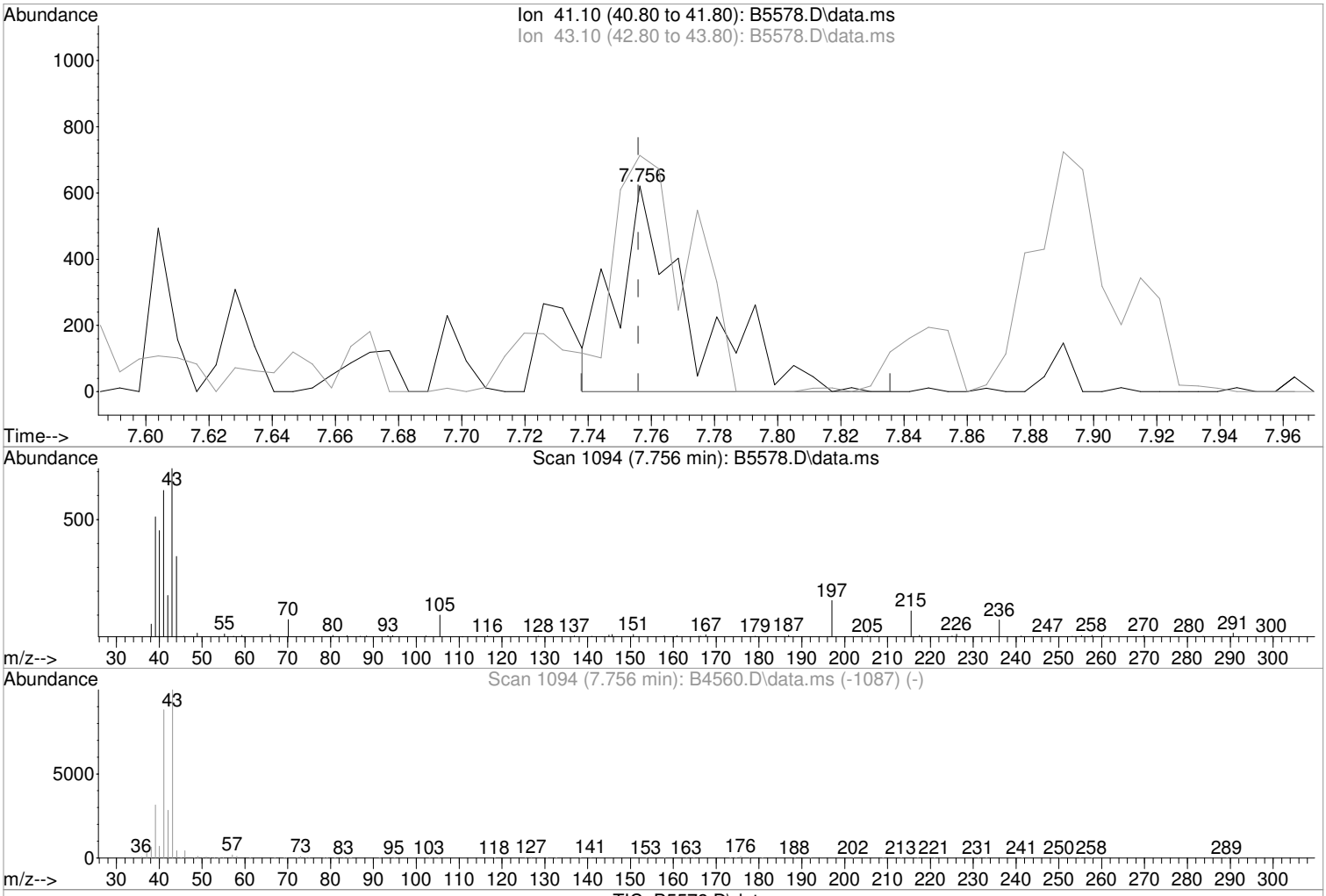
Poor integration.

09/08/22

# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5578.D
Acq On : 8 Sep 2022 10:35 am
Operator : F.NAEGLER
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 08 14:19:03 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration




TIC: B5578.D\data.ms

(61) 2-Nitropropane

7.756min (+0.000) 0.90 ug/L

response 1006

| Ion | Exp% | Act% |
|---|---|---|
| 41.10 | 100 | 100 |
| 43.10 | 113.00 | 114.81 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

Before

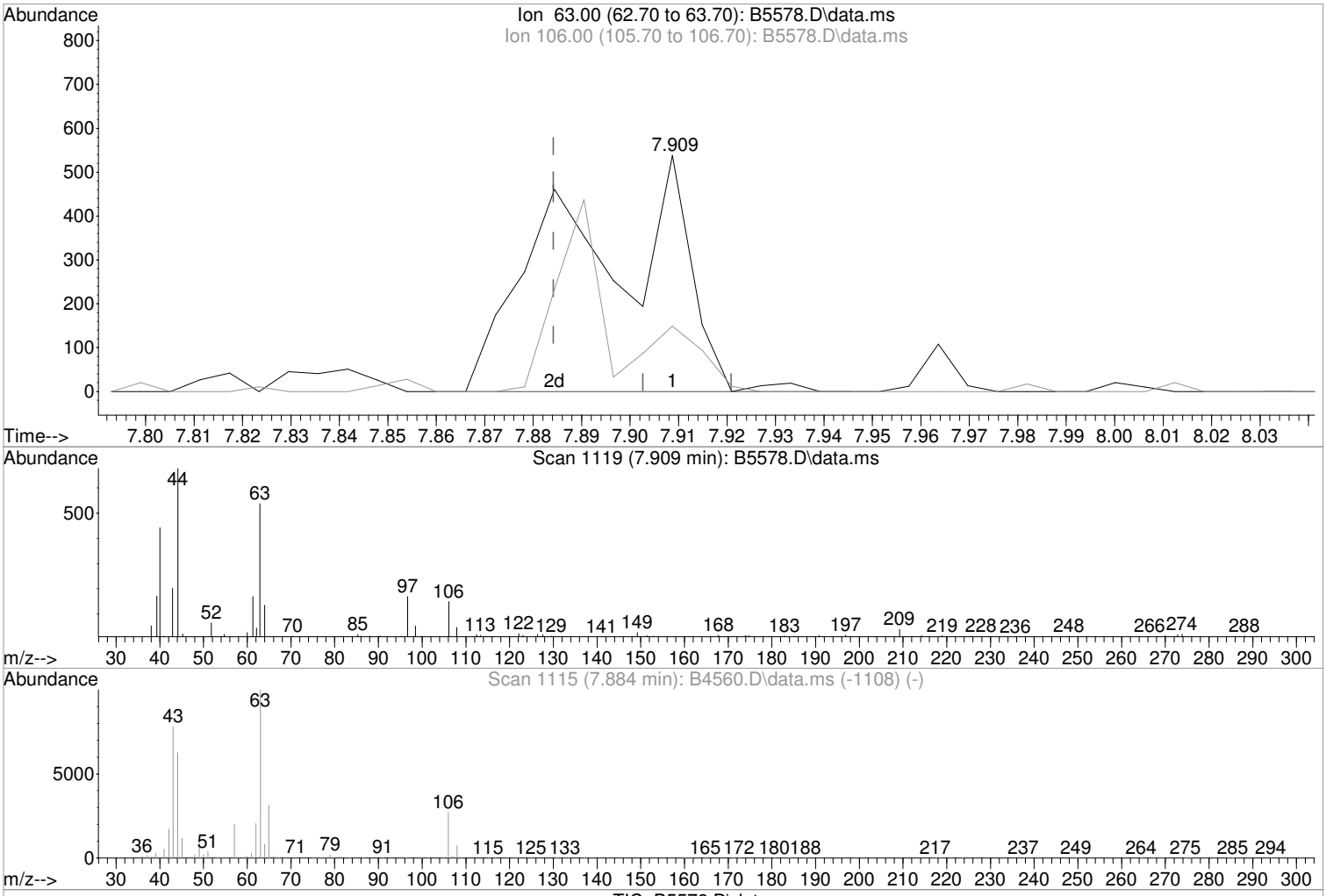
09/08/22

1st FN 09/08/22
2nd 09/12/22

# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5578.D
Acq On : 8 Sep 2022 10:35 am
Operator : F.NAEGLER
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 08 14:19:03 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration




TIC: B5578.D\data.ms

(62) 2-Chloroethylvinyl Ether

7.909min (+0.024) 0.35 ug/L m

response 889

| Ion | Exp% | Act% |
|---|---|---|
| 63.00 | 100 | 100 |
| 106.00 | 27.00 | 27.70 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

After

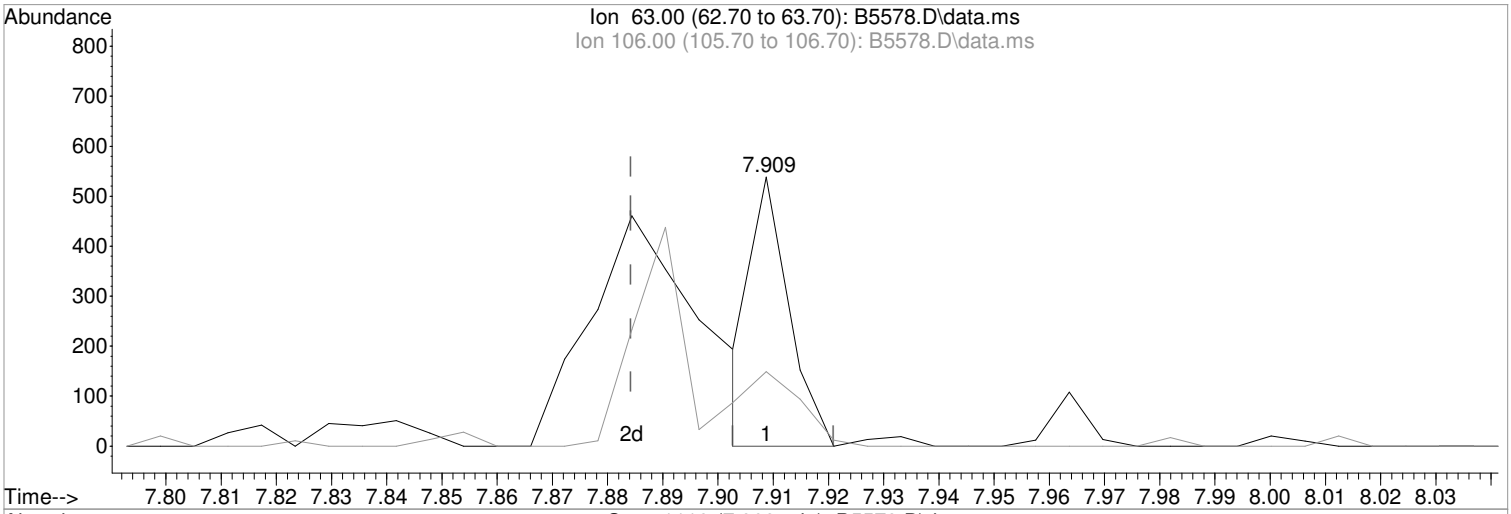
Poor integration.

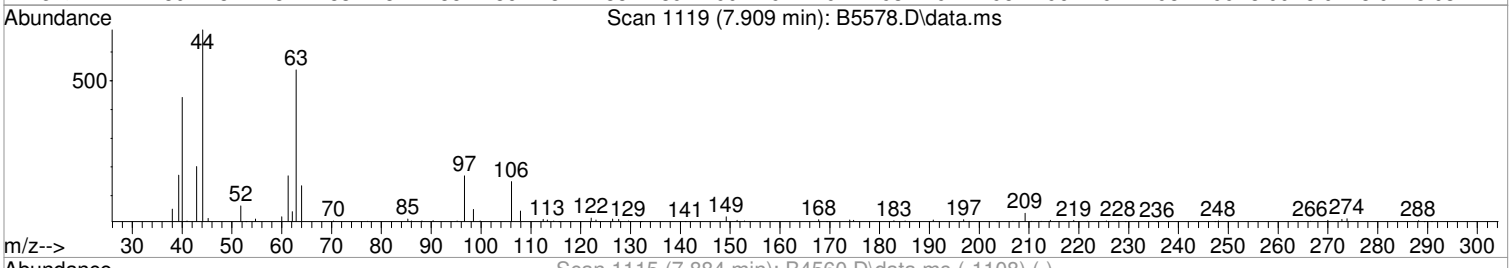
09/08/22

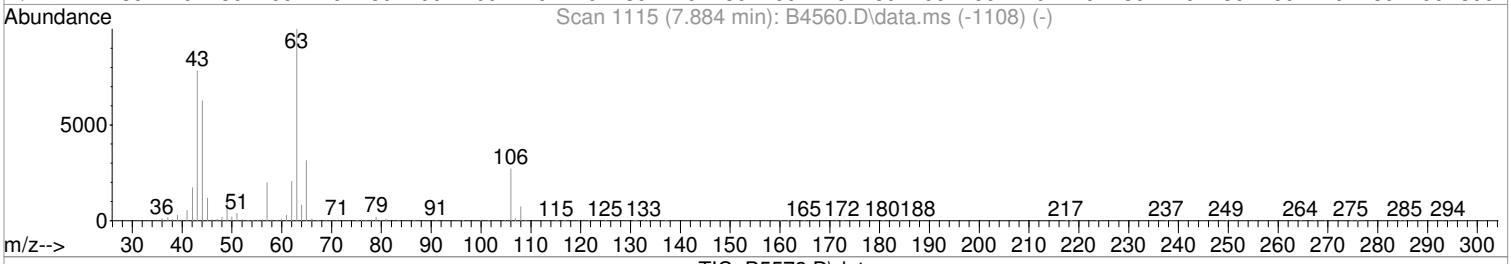
# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5578.D
Acq On : 8 Sep 2022 10:35 am
Operator : F.NAEGLER
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 08 14:19:03 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration




TIC: B5578.D\data.ms

(62) 2-Chloroethylvinyl Ether

7.909min (+0.024) 0.10 ug/L

response 252

| Ion | Exp% | Act% |
|---|---|---|
| 63.00 | 100 | 100 |
| 106.00 | 27.00 | 27.70 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

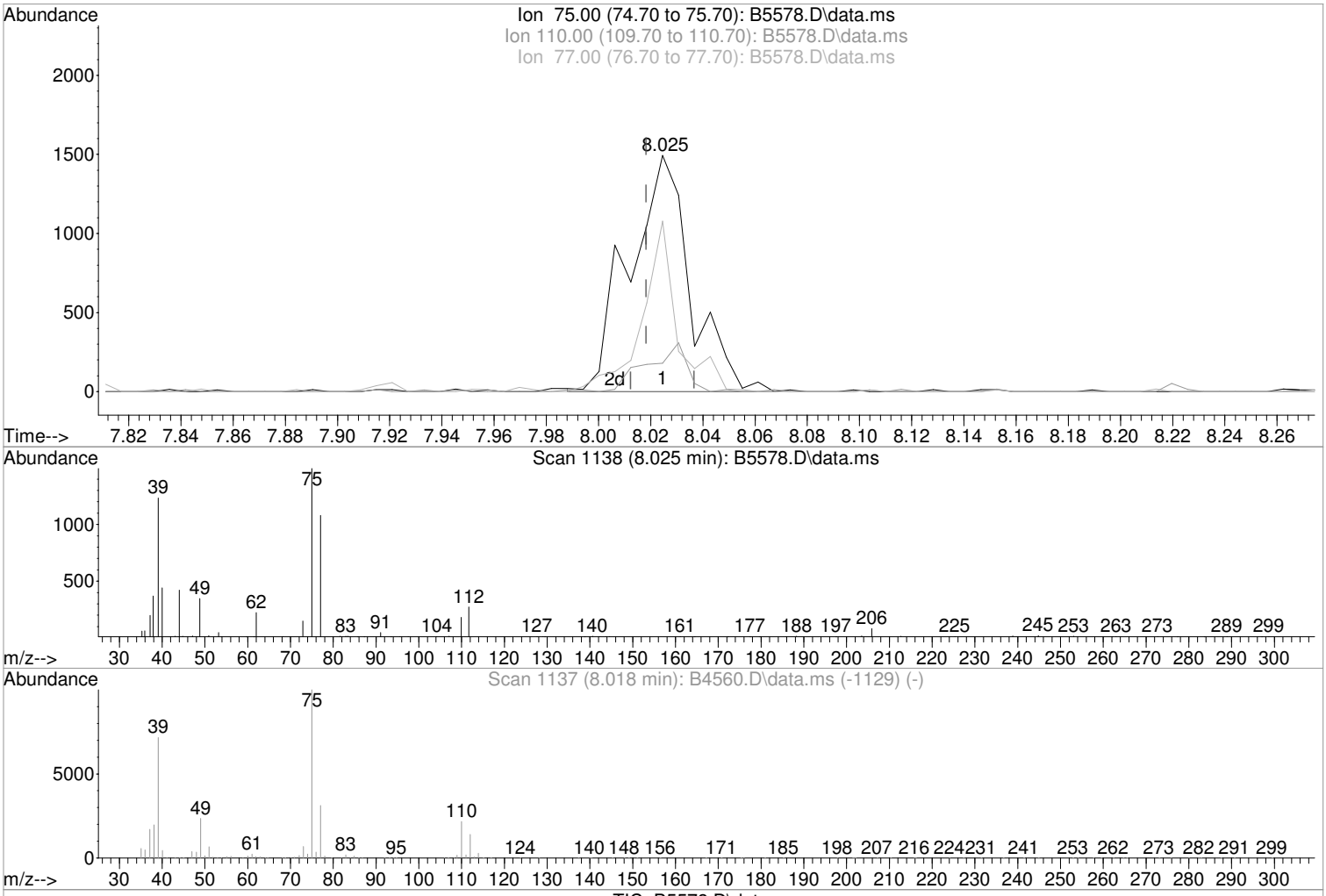
Before

09/08/22

# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5578.D
Acq On : 8 Sep 2022 10:35 am
Operator : F.NAEGLER
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 08 14:19:03 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration




TIC: B5578.D\data.ms

(63) cis-1,3-Dichloropropene (P)

8.025min (+0.006) 0.47 ug/L m

response 2428

| Ion | Exp% | Act% |
|---|---|---|
| 75.00 | 100 | 100 |
| 110.00 | 21.80 | 12.06 |
| 77.00 | 31.20 | 72.27# |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

After

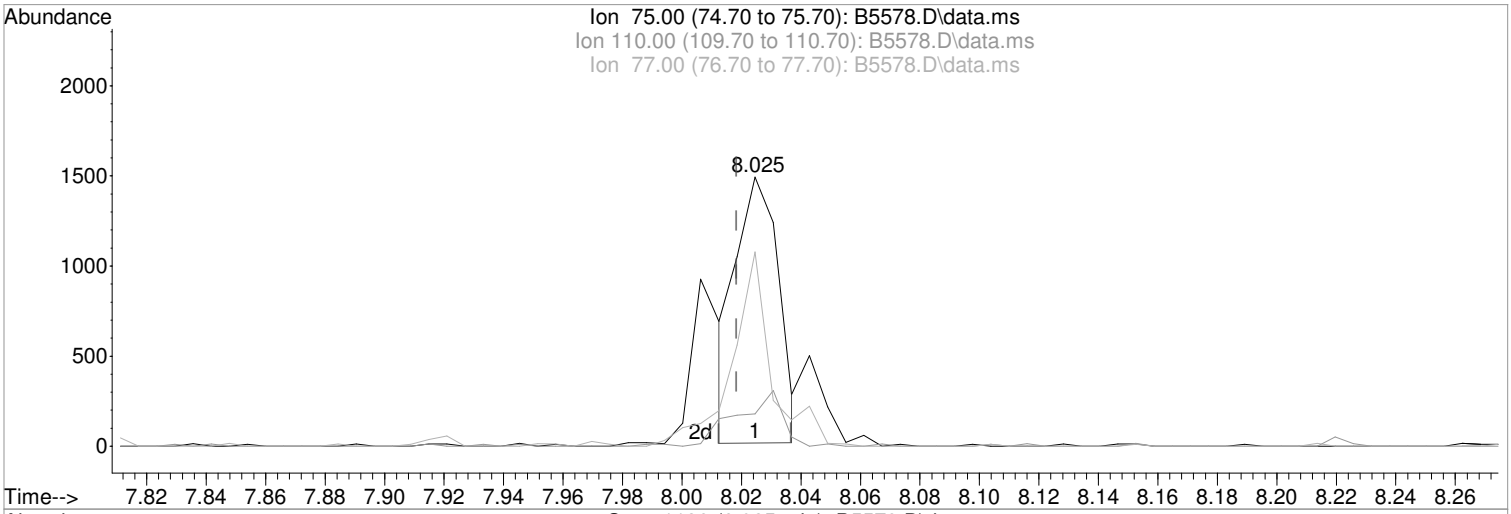
Poor integration.

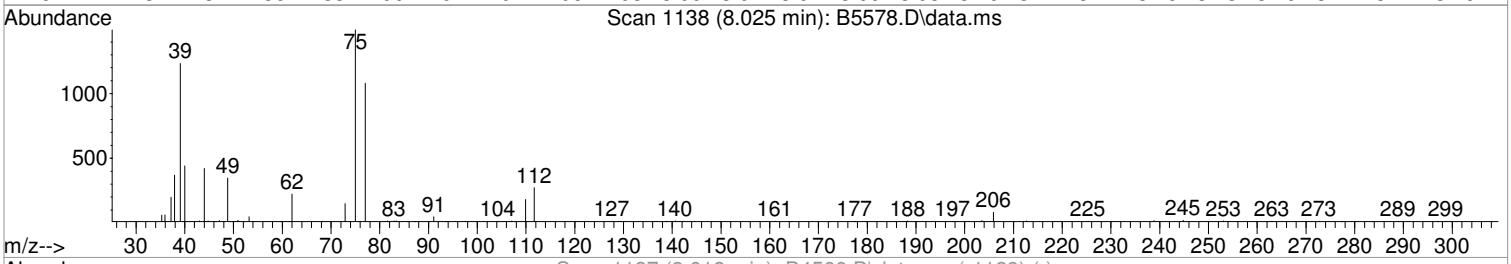
09/08/22

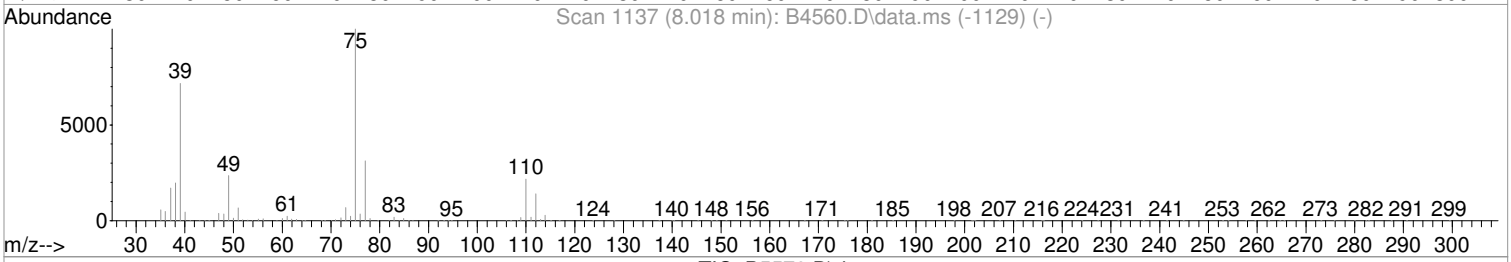
# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5578.D
Acq On : 8 Sep 2022 10:35 am
Operator : F.NAEGLER
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 08 14:19:03 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration




TIC: B5578.D\data.ms

(63) cis-1,3-Dichloropropene (P)

8.025min (+0.006) 0.29 ug/L

response 1463

| Ion | Exp% | Act% |
|---|---|---|
| 75.00 | 100 | 100 |
| 110.00 | 21.80 | 12.06 |
| 77.00 | 31.20 | 72.27# |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

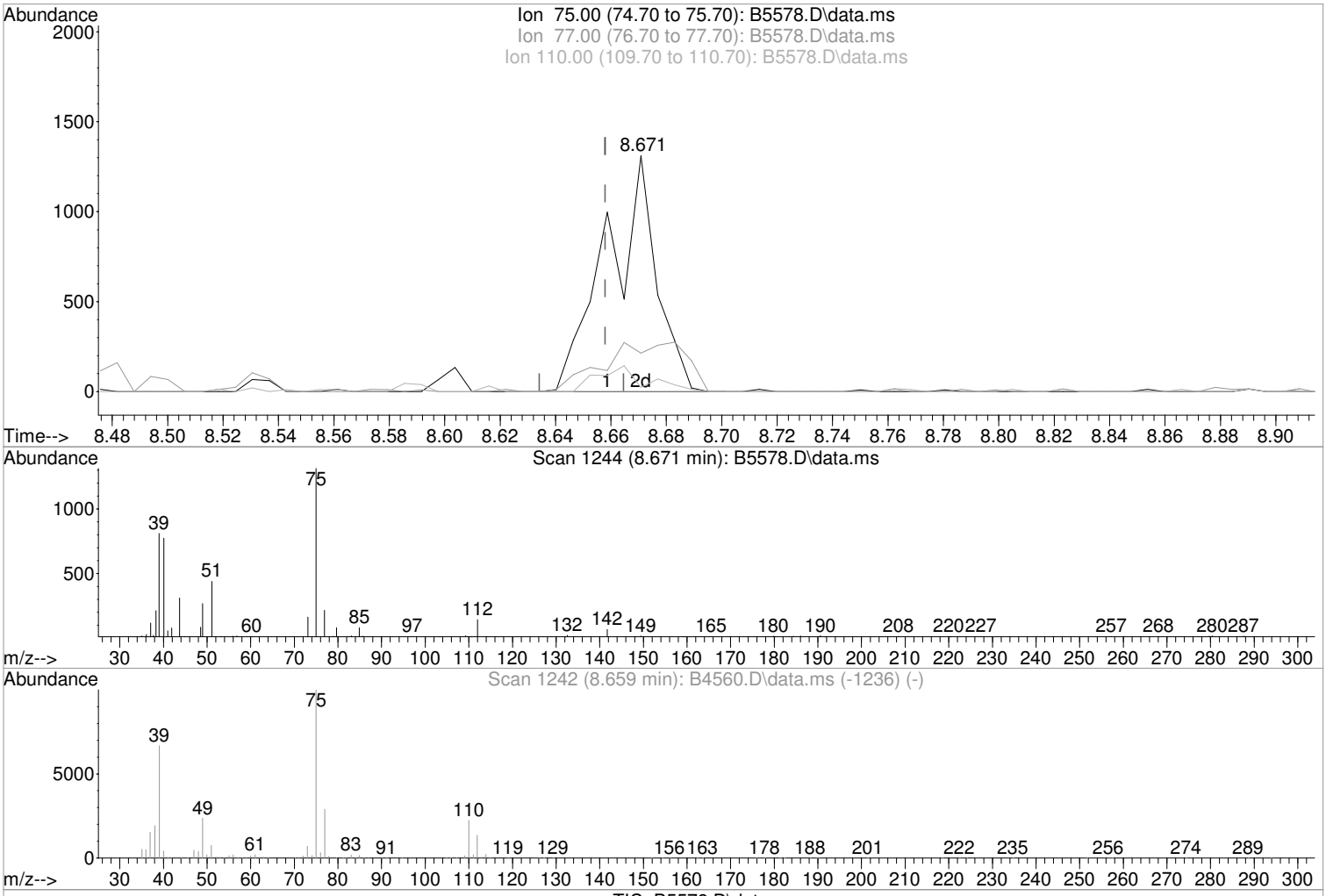
Before

09/08/22

# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5578.D
Acq On : 8 Sep 2022 10:35 am
Operator : F.NAEGLER
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 08 14:19:03 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration




TIC: B5578.D\data.ms

(67) trans-1,3-Dichloropropene (P)

8.671min (+0.013) 0.37 ug/L m

response 1632

| Ion | Exp% | Act% |
|---|---|---|
| 75.00 | 100 | 100 |
| 77.00 | 28.90 | 16.31 |
| 110.00 | 22.40 | 0.99# |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

After

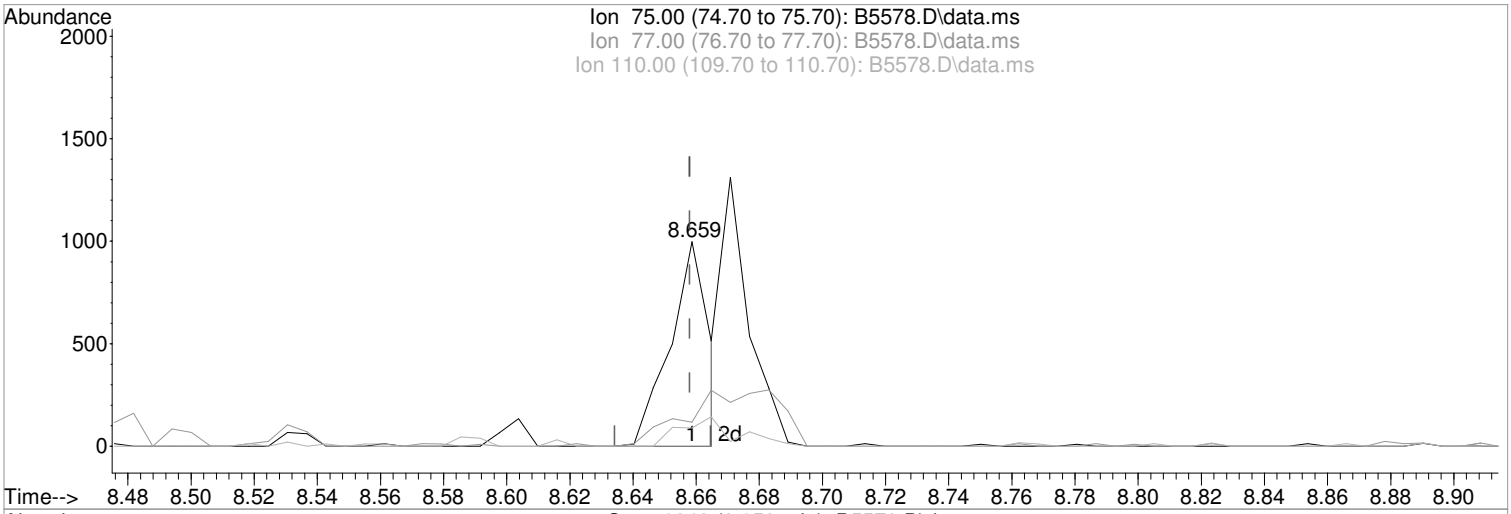
Poor integration.

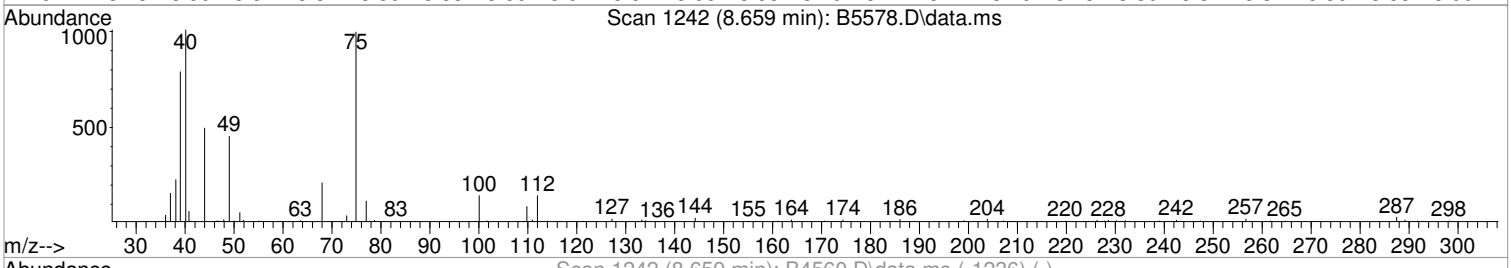
09/08/22

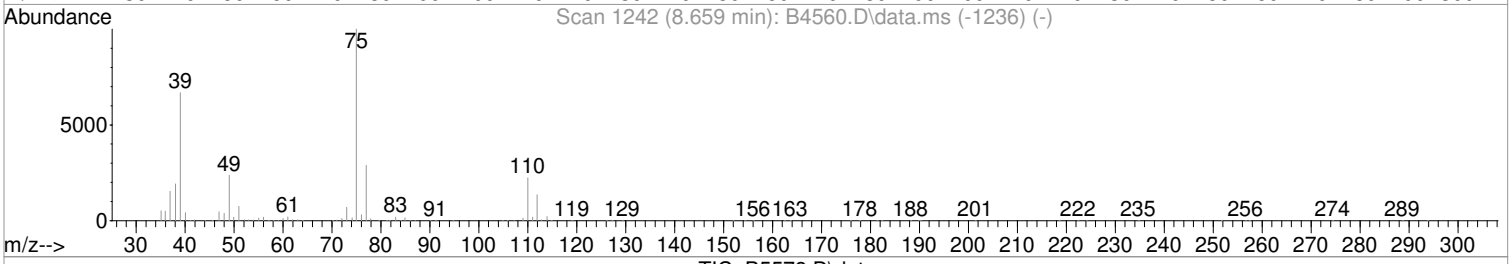
# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5578.D
Acq On : 8 Sep 2022 10:35 am
Operator : F.NAEGLER
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 08 14:19:03 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration




TIC: B5578.D\data.ms

(67) trans-1,3-Dichloropropene (P)

8.659min (+0.001) 0.19 ug/L

response 844

| Ion | Exp% | Act% |
|---|---|---|
| 75.00 | 100 | 100 |
| 77.00 | 28.90 | 11.74 |
| 110.00 | 22.40 | 8.93 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

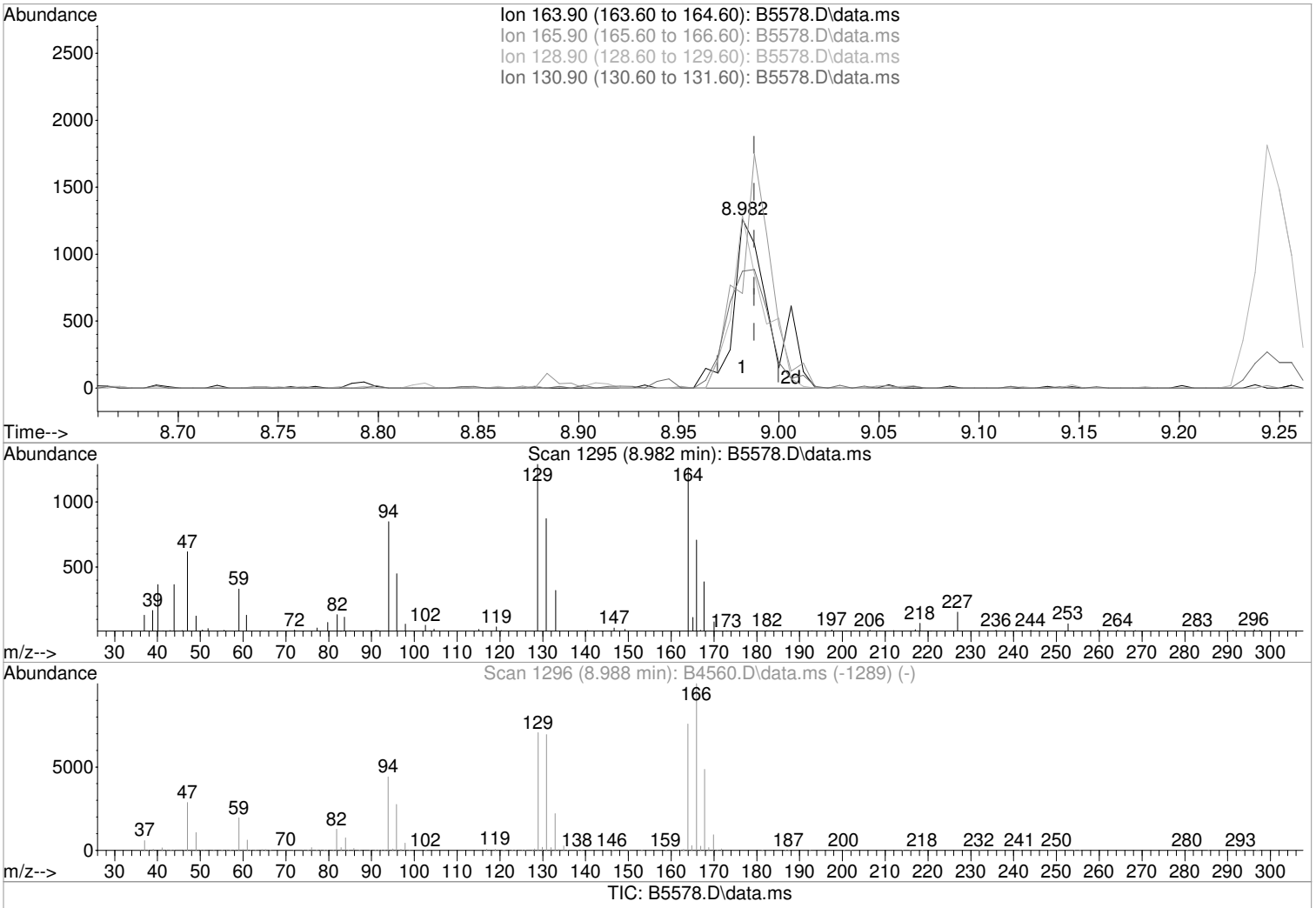
Before

09/08/22

# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5578.D
Acq On : 8 Sep 2022 10:35 am
Operator : F.NAEGLER
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 08 14:19:03 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration




TIC: B5578.D\data.ms

(72) Tetrachloroethene (P)

8.982min (-0.006) 0.55 ug/L m

response 1610

| Ion | Exp% | Act% |
|---|---|---|
| 163.90 | 100 | 100 |
| 165.90 | 131.90 | 56.02# |
| 128.90 | 93.00 | 102.06 |
| 130.90 | 91.50 | 69.18# |

Manual Integration:

After

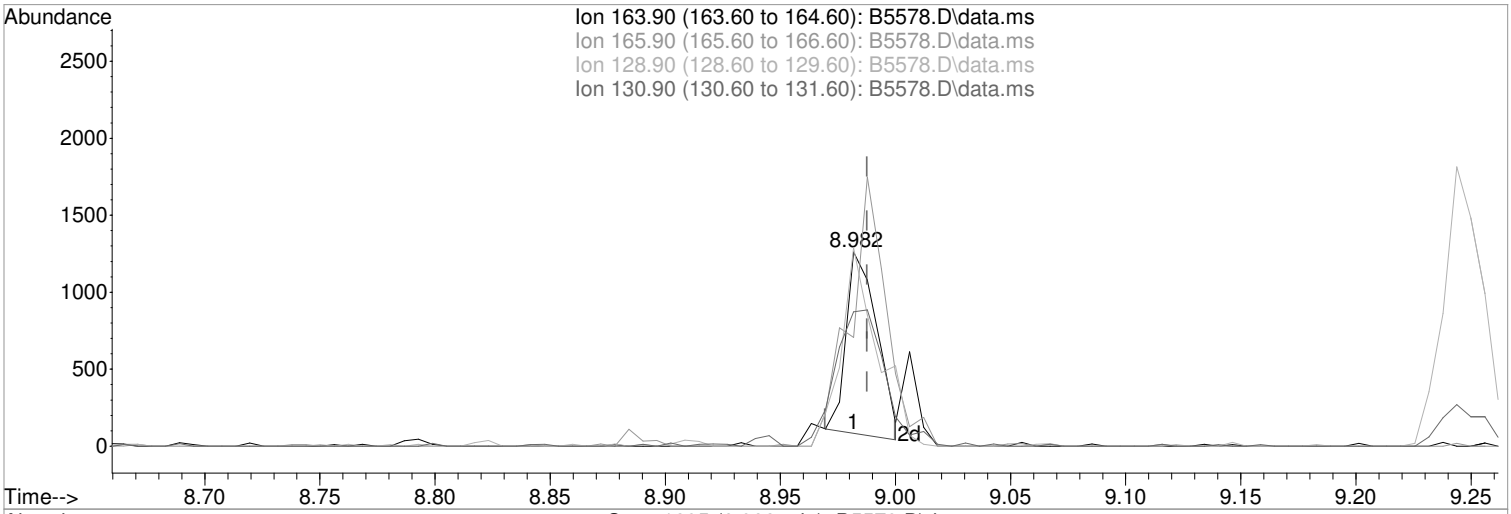
Poor integration.

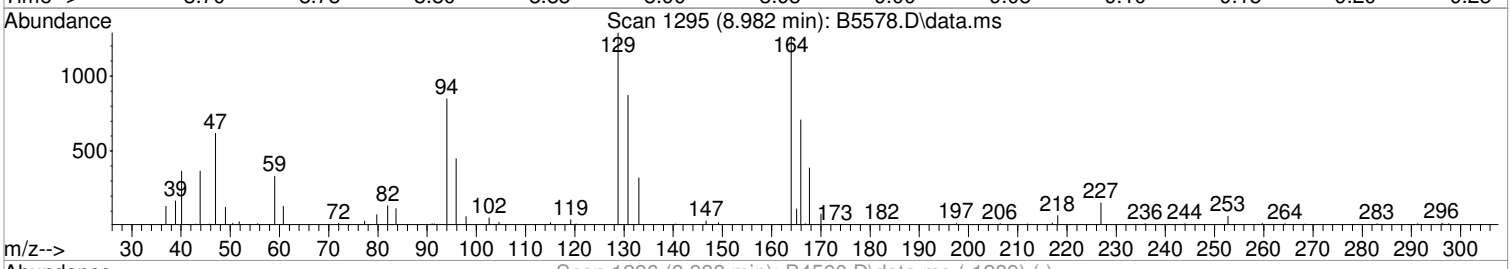
09/08/22

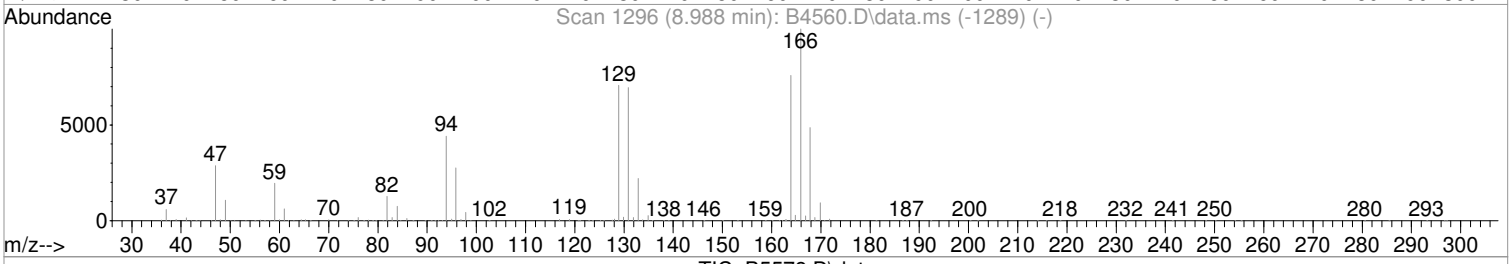
# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5578.D
Acq On : 8 Sep 2022 10:35 am
Operator : F.NAEGLER
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 08 14:19:03 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration




TIC: B5578.D\data.ms

(72) Tetrachloroethene (P)

8.982min (-0.006) 0.38 ug/L

response 1106

| Ion | Exp% | Act% |
|---|---|---|
| 163.90 | 100 | 100 |
| 165.90 | 131.90 | 56.02# |
| 128.90 | 93.00 | 102.06 |
| 130.90 | 91.50 | 69.18# |

Manual Integration:

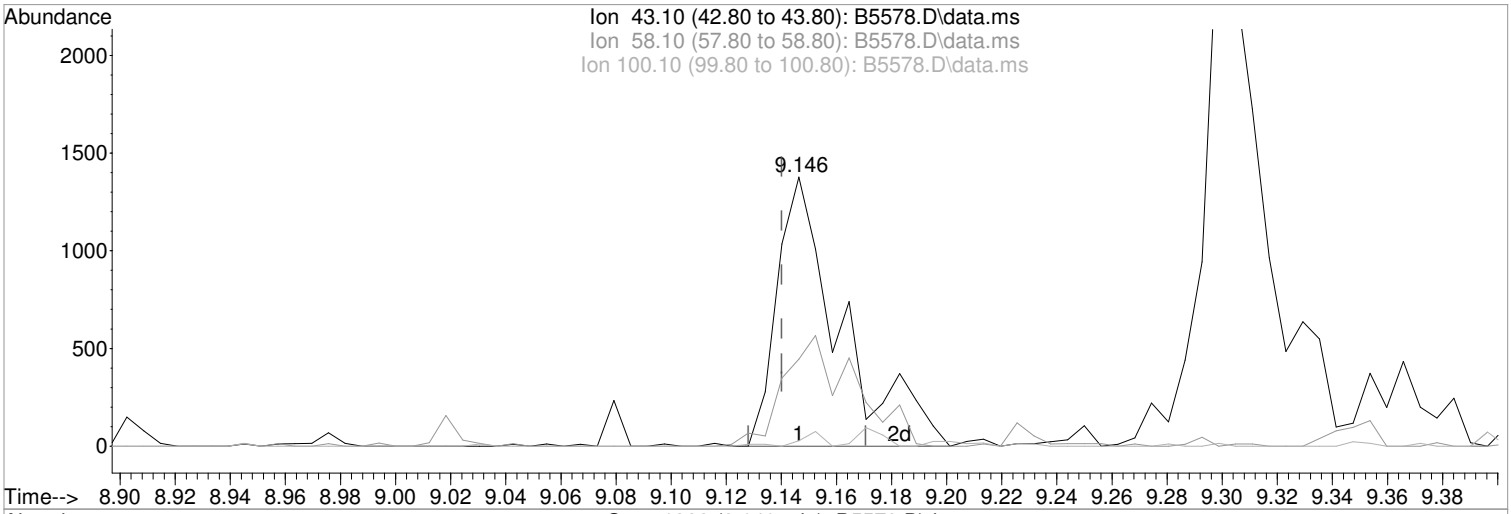
Before

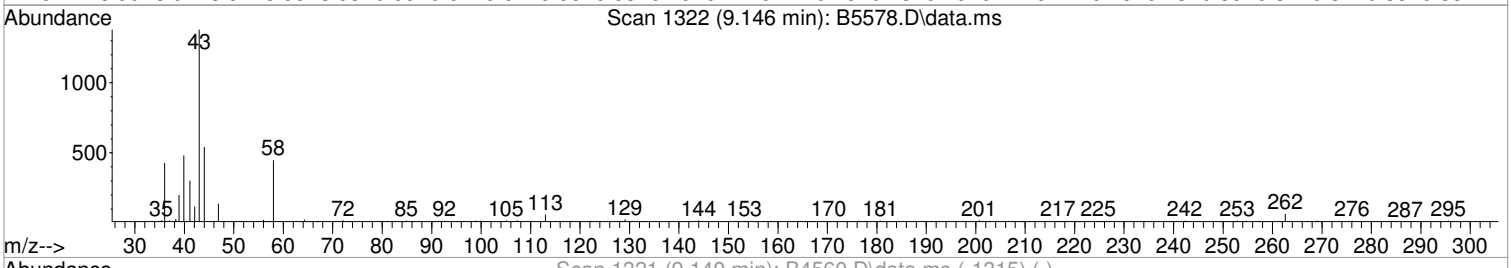
09/08/22

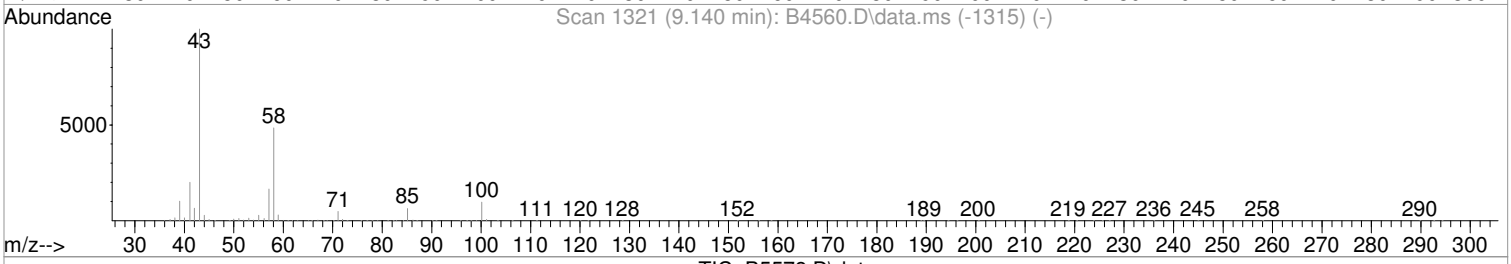
# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5578.D
Acq On : 8 Sep 2022 10:35 am
Operator : F.NAEGLER
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 08 14:19:03 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration




TIC: B5578.D\data.ms

(73) 2-Hexanone (P)

9.146min (+0.006) 0.46 ug/L m

response 2188

| Ion | Exp% | Act% |
|---|---|---|
| 43.10 | 100 | 100 |
| 58.10 | 48.30 | 32.39 |
| 100.10 | 9.60 | 1.09 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

After

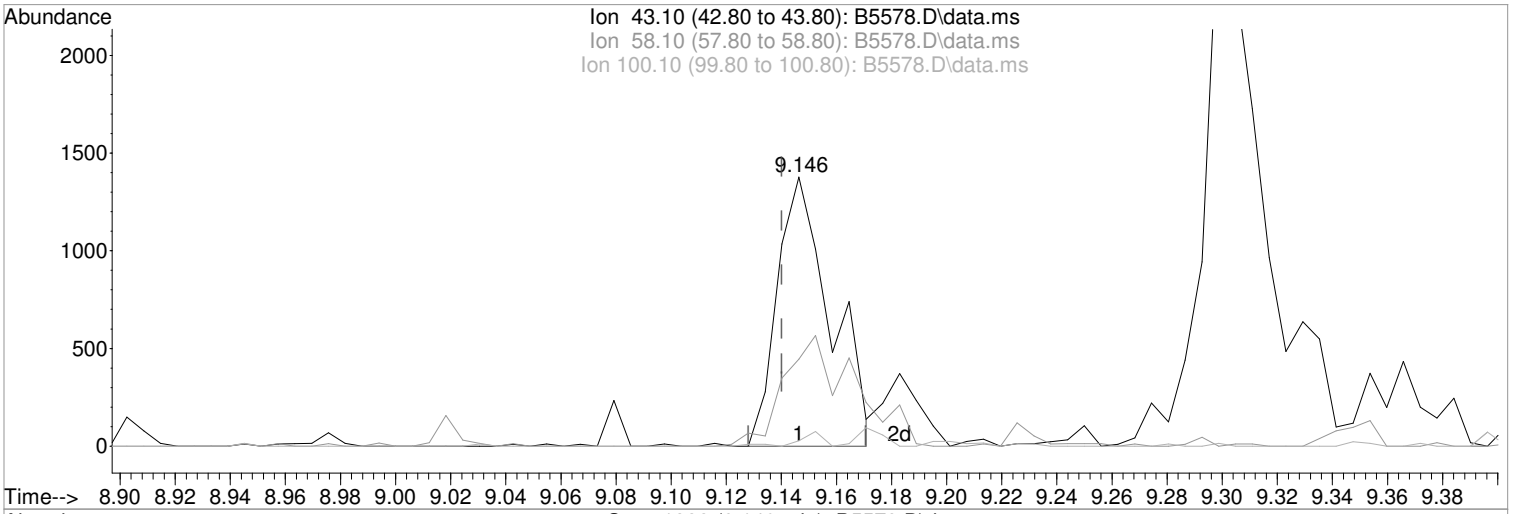
Poor integration.

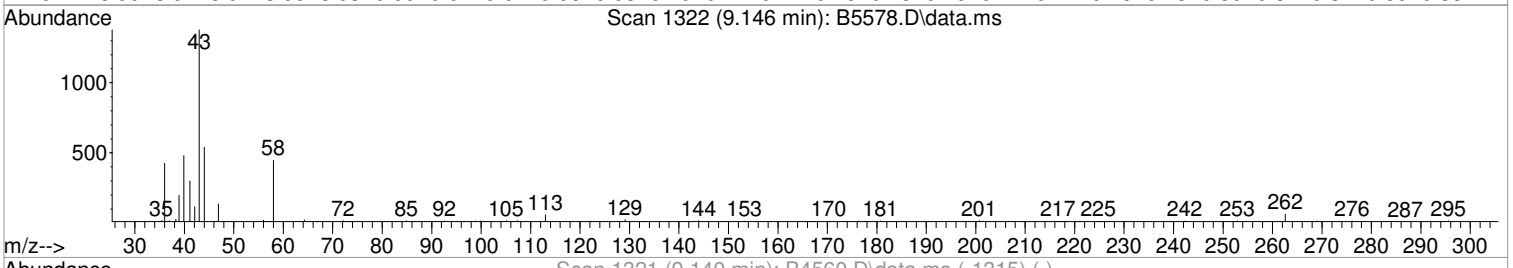
09/08/22

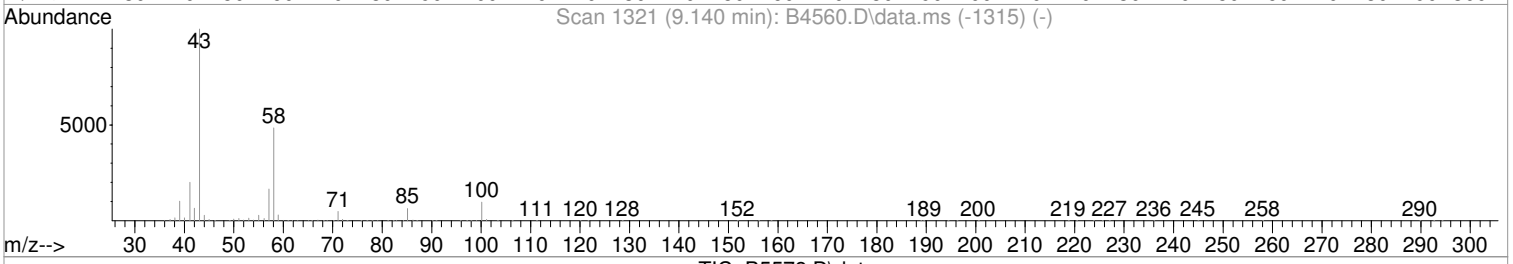
# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5578.D
Acq On : 8 Sep 2022 10:35 am
Operator : F.NAEGLER
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 08 14:19:03 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration




TIC: B5578.D\data.ms

(73) 2-Hexanone (P)

9.146min (+0.006) 0.39 ug/L

response 1849

| Ion | Exp% | Act% |
|---|---|---|
| 43.10 | 100 | 100 |
| 58.10 | 48.30 | 32.39 |
| 100.10 | 9.60 | 1.96 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

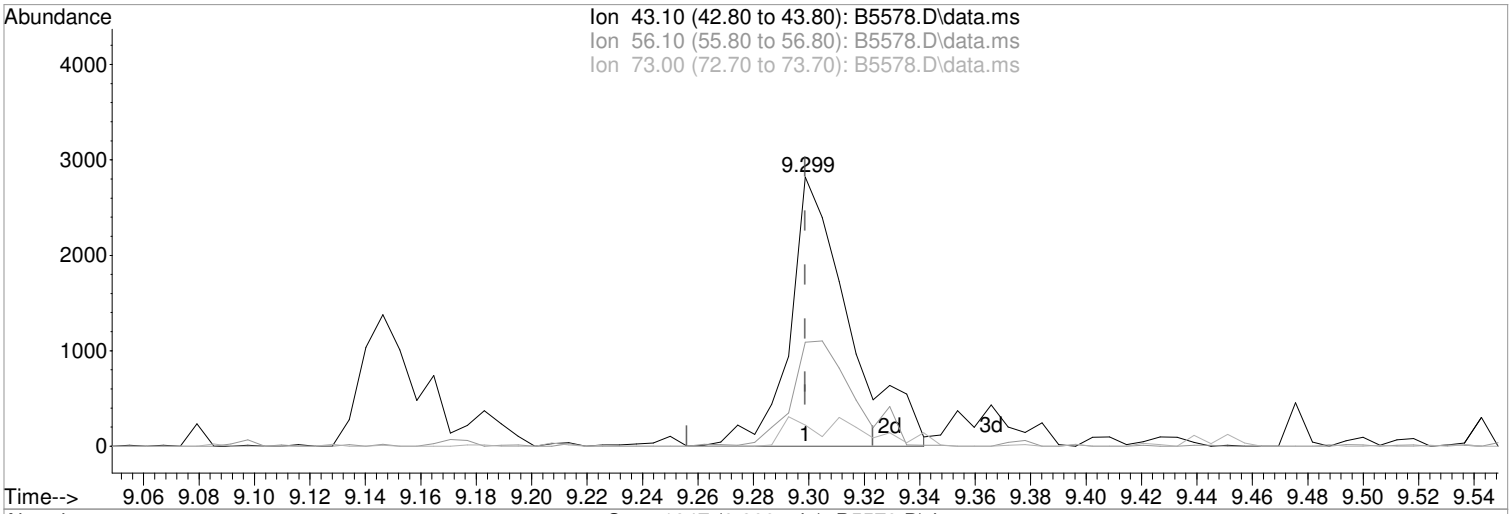
Before

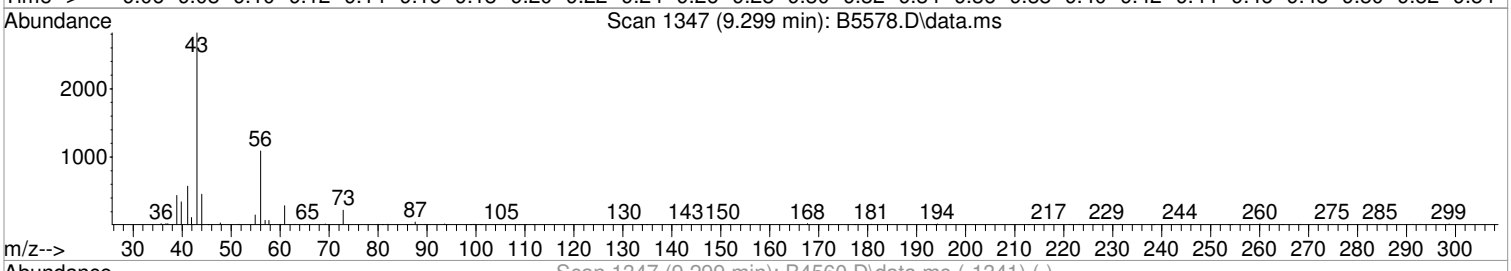
09/08/22

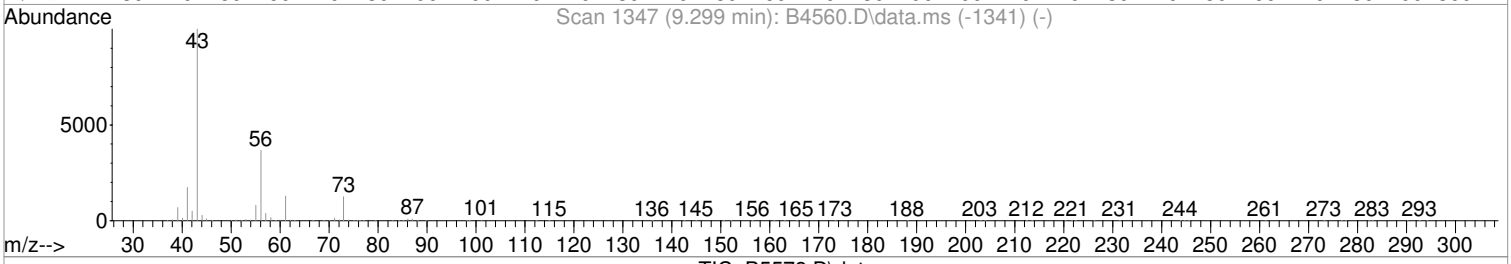
# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5578.D
Acq On : 8 Sep 2022 10:35 am
Operator : F.NAEGLER
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 08 14:19:03 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration




TIC: B5578.D\data.ms

(76) N-Butyl Acetate

9.299min (+0.000) 0.45 ug/L m

response 4190

| Ion | Exp% | Act% |
|---|---|---|
| 43.10 | 100 | 100 |
| 56.10 | 36.70 | 38.67 |
| 73.00 | 12.40 | 7.84 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

After

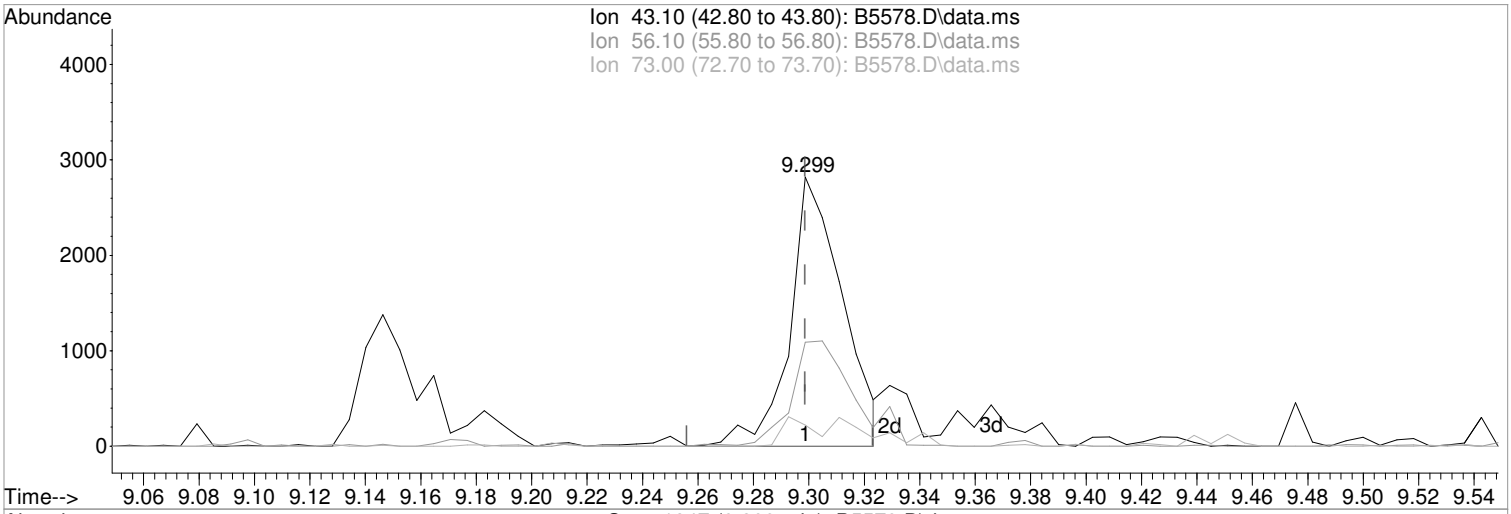
Poor integration.

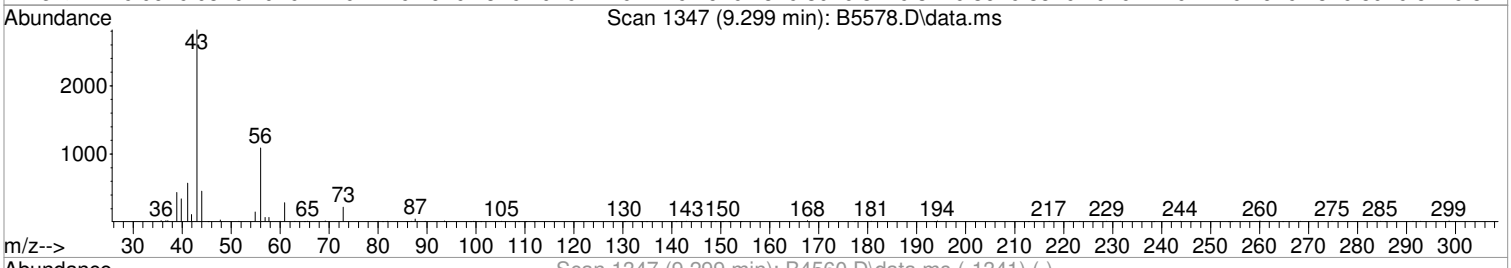
09/08/22

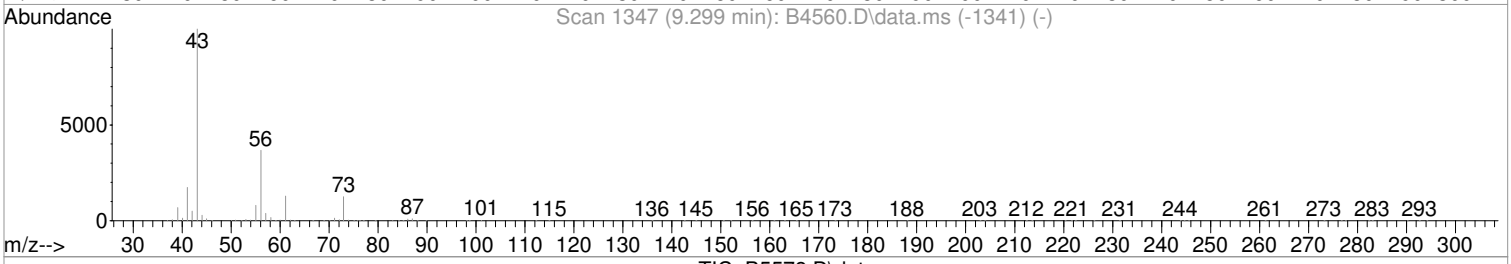
# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5578.D
Acq On : 8 Sep 2022 10:35 am
Operator : F.NAEGLER
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 08 14:19:03 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration




TIC: B5578.D\data.ms

(76) N-Butyl Acetate

9.299min (+0.000) 0.40 ug/L

response 3721

| Ion | Exp% | Act% |
|---|---|---|
| 43.10 | 100 | 100 |
| 56.10 | 36.70 | 38.67 |
| 73.00 | 12.40 | 7.84 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

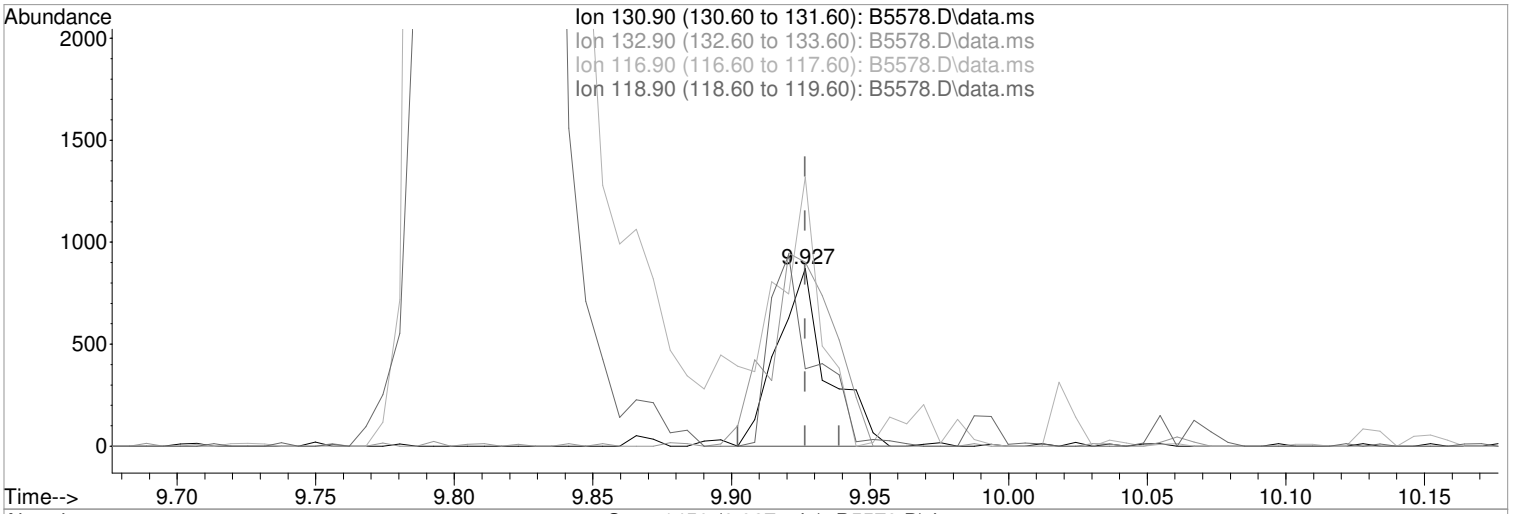
Before

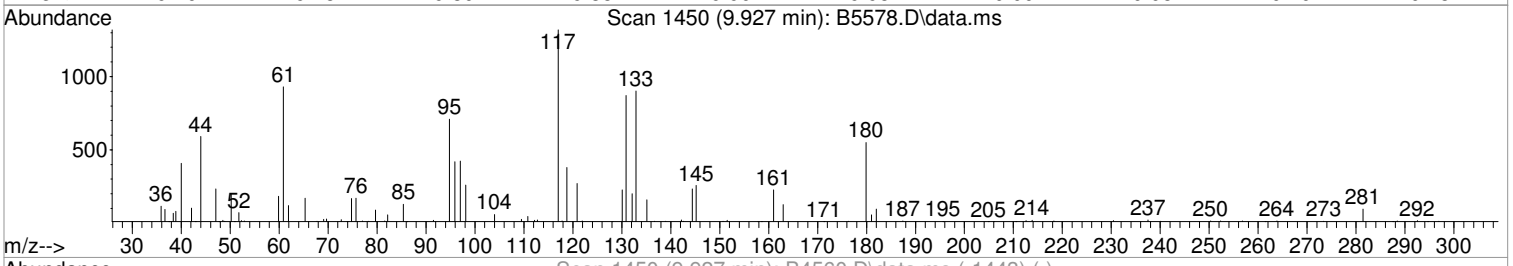
09/08/22

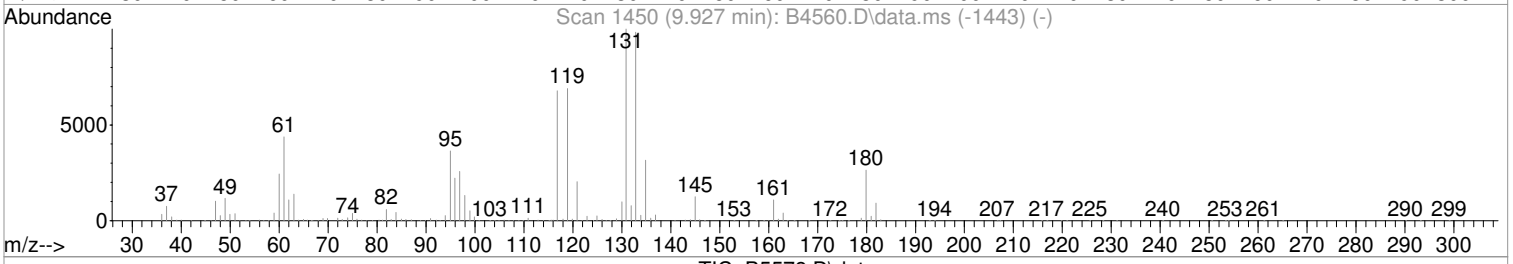
# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5578.D
Acq On : 8 Sep 2022 10:35 am
Operator : F.NAEGLER
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 08 14:19:03 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration




TIC: B5578.D\data.ms

(81) 1,1,1,2-Tetrachloroethane

9.927min (+0.000) 0.35 ug/L m

response 1101

| Ion | Exp% | Act% |
|---|---|---|
| 130.90 | 100 | 100 |
| 132.90 | 98.40 | 103.56 |
| 116.90 | 67.80 | 151.44# |
| 118.90 | 69.20 | 43.51# |

Manual Integration:

After

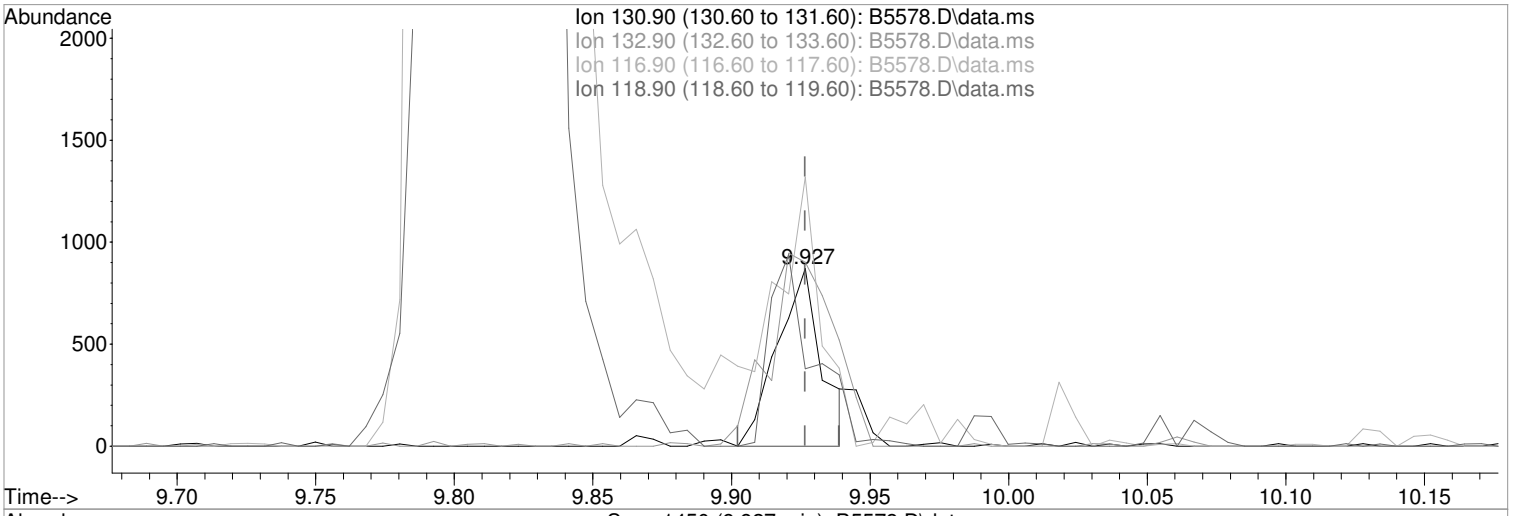
Poor integration.

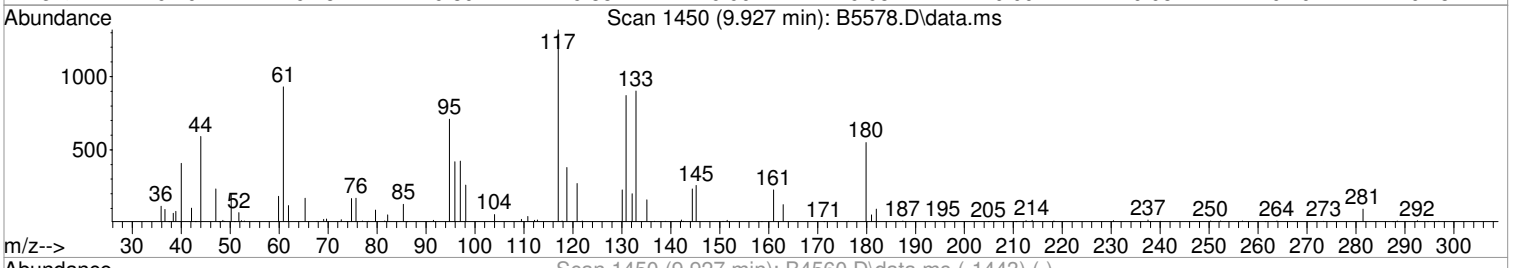
09/08/22

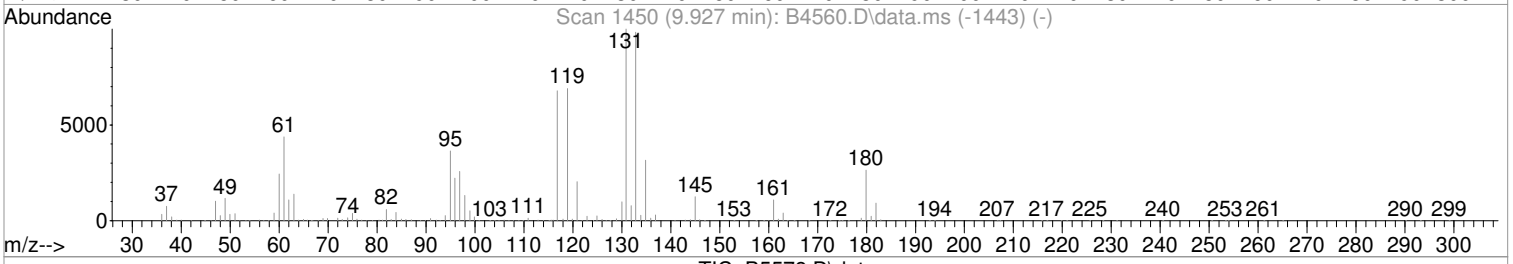
# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5578.D
Acq On : 8 Sep 2022 10:35 am
Operator : F.NAEGLER
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 08 14:19:03 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration




TIC: B5578.D\data.ms

(81) 1,1,1,2-Tetrachloroethane

9.927min (+0.000) 0.31 ug/L

response 976

| Ion | Exp% | Act% |
|---|---|---|
| 130.90 | 100 | 100 |
| 132.90 | 98.40 | 103.56 |
| 116.90 | 67.80 | 151.44# |
| 118.90 | 69.20 | 43.51# |

Manual Integration:

Before

09/08/22

# Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5578.D
Acq On : 8 Sep 2022 10:35 am
Operator : F.NAEGLER
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 08 14:25:00 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Pentafluorobenzene | 5.397 | 168 | 384204 | 50.00 | ug/L | | 0.00 |
| 42) 1,4-Difluorobenzene | 6.494 | 114 | 635693 | 50.00 | ug/L | | 0.00 |
| 71) d5-Chlorobenzene | 9.811 | 117 | 571422 | 50.00 | ug/L | | 0.00 |
| 91) 1,4-Dichlorobenzene-d4 | 11.859 | 152 | 262021 | 50.00 | ug/L | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 44) surr4,Dibrflmethane | 5.245 | 113 | 46924 | 12.72 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 116 | | Recovery = 25.44%# | | | | |
| 47) surr1,1,2-dichloroetha... | 5.787 | 65 | 61451 | 12.63 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 73 - 125 | | Recovery = 25.26%# | | | | |
| 65) SURR3,Toluene-d8 | 8.317 | 98 | 173505 | 12.14 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 87 - 121 | | Recovery = 24.28%# | | | | |
| 70) SURR2,BFB | 10.884 | 95 | 61982 | 10.98 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 85 - 122 | | Recovery = 21.96%# | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Chlorodifluoromethane | 1.160 | 51 | 2518 | 0.56 | ug/L | | 77 |
| 3) Dichlorodifluoromethane | 1.154 | 85 | 2668 | 0.64 | ug/L | | 82 |
| 4) Chloromethane | 1.288 | 50 | 3229 | 0.68 | ug/L | | 72 |
| 5) Vinyl Chloride | 1.355 | 62 | 2565 | 0.53 | ug/L | | 80 |
| 6) Bromomethane | 1.581 | 94 | 2594m | 1.12 | ug/L | | |
| 7) Chloroethane | 1.666 | 64 | 2124 | 0.76 | ug/L | | 93 |
| 8) Freon 21 | 1.812 | 67 | 3950 | 0.60 | ug/L | | 100 |
| 9) Trichlorofluoromethane | 1.855 | 101 | 3244 | 0.68 | ug/L | | 90 |
| 10) Diethyl Ether | 2.087 | 59 | 2167 | 0.63 | ug/L | # | 80 |
| 11) Freon 123a | 2.093 | 67 | 2389 | 0.58 | ug/L | | 99 |
| 12) Freon 123 | 2.148 | 83 | 2788 | 0.62 | ug/L | | 82 |
| 13) Acrolein | 2.190 | 56 | 2333 | 2.83 | ug/L | # | 66 |
| 14) 1,1-Diclethene | 2.282 | 96 | 1847 | 0.64 | ug/L | # | 66 |
| 15) Freon 113 | 2.282 | 101 | 2132 | 0.71 | ug/L | # | 34 |
| 16) Acetone | 2.331 | 43 | 2630 | 1.21 | ug/L | | 79 |
| 17) 2-Propanol | 2.459 | 45 | 3733m | 9.04 | ug/L | | |
| 18) Iodomethane | 2.416 | 142 | 1220 | 0.25 | ug/L | # | 1 |
| 19) Carbon Disulfide | 2.477 | 76 | 6064 | 0.68 | ug/L | | 83 |
| 20) Acetonitrile | 2.581 | 41 | 1936 | 2.53 | ug/L | | 91 |
| 21) Allyl Chloride | 2.629 | 76 | 817m | 0.47 | ug/L | | |
| 22) Methyl Acetate | 2.641 | 43 | 4015 | 0.74 | ug/L | | 90 |
| 23) Methylene Chloride | 2.733 | 84 | 2474 | 0.70 | ug/L | # | 83 |
| 24) TBA | 2.861 | 59 | 5448 | 9.23 | ug/L | | 93 |
| 25) Acrylonitrile | 3.001 | 53 | 5661m | 2.79 | ug/L | | |
| 26) Methyl-t-Butyl Ether | 3.032 | 73 | 5691 | 0.53 | ug/L | | 87 |
| 27) trans-1,2-Dichloroethene | 3.019 | 96 | 1557 | 0.50 | ug/L | # | 79 |
| 28) 1,1-Diclethane | 3.525 | 63 | 3544 | 0.55 | ug/L | | 87 |
| 29) Vinyl Acetate | 3.647 | 86 | 276m | 0.56 | ug/L | | |
| 30) DIPE | 3.653 | 45 | 8175 | 0.57 | ug/L | | 81 |
| 31) 2-Chloro-1,3-Butadiene | 3.641 | 53 | 3104 | 0.53 | ug/L | # | 66 |
| 32) ETBE | 4.190 | 59 | 5310 | 0.45 | ug/L | # | 58 |
| 33) 2,2-Dichloropropane | 4.355 | 77 | 2150 | 0.56 | ug/L | # | 66 |
| 34) cis-1,2-Dichloroethene | 4.373 | 96 | 2454 | 0.68 | ug/L | # | 47 |
| 35) 2-Butanone | 4.434 | 43 | 2415 | 0.75 | ug/L | | 75 |
| 36) Propionitrile | 4.531 | 54 | 1395 | 1.65 | ug/L | | 100 |
| 37) Bromochloromethane | 4.787 | 130 | 1662m | 0.68 | ug/L | | |
| 38) Methacrylonitrile | 4.781 | 67 | 822m | 0.41 | ug/L | | |
| 39) Tetrahydrofuran | 4.903 | 42 | 1305m | 0.67 | ug/L | | |
| 40) Chloroform | 4.958 | 83 | 4204m | 0.71 | ug/L | | |

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5578.D
Acq On : 8 Sep 2022 10:35 am
Operator : F.NAEGLER
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 08 14:25:00 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) 1,1,1-Trichloroethane | 5.257 | 97 | 2261m | 0.50 | ug/L | | |
| 43) Cyclohexane | 5.330 | 41 | 2999m | 0.62 | ug/L | | |
| 45) Carbontetrachloride | 5.549 | 117 | 2223 | 0.57 | ug/L | # | 74 |
| 46) 1,1-Dichloropropene | 5.537 | 75 | 2461 | 0.51 | ug/L | | 75 |
| 48) Benzene | 5.873 | 78 | 7706 | 0.53 | ug/L | | 86 |
| 49) 1,2-Dichloroethane | 5.903 | 62 | 2613 | 0.44 | ug/L | # | 46 |
| 50) Iso-Butyl Alcohol | 5.897 | 43 | 2337m | 7.18 | ug/L | | |
| 51) TAME | 6.104 | 73 | 4531 | 0.41 | ug/L | # | 74 |
| 52) n-Heptane | 6.360 | 43 | 2805 | 0.52 | ug/L | | 82 |
| 53) 1-Butanol | 6.866 | 56 | 2330 | 13.98 | ug/L | | 78 |
| 54) Trichloroethene | 6.824 | 130 | 1916 | 0.50 | ug/L | # | 47 |
| 55) Methylcyclohexane | 7.061 | 55 | 2912m | 0.54 | ug/L | | |
| 56) 1,2-Diclpropane | 7.098 | 63 | 1631m | 0.39 | ug/L | | |
| 57) Dibromomethane | 7.263 | 93 | 1540m | 0.60 | ug/L | | |
| 58) 1,4-Dioxane | 7.324 | 88 | 819 | 11.02 | ug/L | # | 47 |
| 59) Methyl Methacrylate | 7.336 | 69 | 1561m | 0.50 | ug/L | | |
| 60) Bromodichloromethane | 7.476 | 83 | 2268 | 0.50 | ug/L | | 73 |
| 61) 2-Nitropropane | 7.756 | 41 | 1239m | 1.11 | ug/L | | |
| 62) 2-Chloroethylvinyl Ether | 7.909 | 63 | 889m | 0.35 | ug/L | | |
| 63) cis-1,3-Dichloropropene | 8.025 | 75 | 2428m | 0.47 | ug/L | | |
| 64) 4-Methyl-2-pentanone | 8.232 | 43 | 3202 | 0.49 | ug/L | | 92 |
| 66) Toluene | 8.390 | 91 | 8759 | 0.57 | ug/L | | 89 |
| 67) trans-1,3-Dichloropropene | 8.671 | 75 | 1632m | 0.37 | ug/L | | |
| 68) Ethyl Methacrylate | 8.805 | 69 | 2452 | 0.45 | ug/L | | 91 |
| 69) 1,1,2-Trichloroethane | 8.848 | 97 | 2112 | 0.61 | ug/L | # | 78 |
| 72) Tetrachloroethene | 8.982 | 164 | 1610m | 0.55 | ug/L | | |
| 73) 2-Hexanone | 9.146 | 43 | 2188m | 0.46 | ug/L | | |
| 74) 1,3-Dichloropropane | 9.012 | 76 | 3373 | 0.53 | ug/L | | 87 |
| 75) Dibromochloromethane | 9.244 | 129 | 2164 | 0.65 | ug/L | # | 71 |
| 76) N-Butyl Acetate | 9.299 | 43 | 4190m | 0.45 | ug/L | | |
| 77) 1,2-Dibromoethane | 9.348 | 107 | 1755 | 0.48 | ug/L | # | 76 |
| 78) 3-Chlorobenzotrifluoride | 9.860 | 180 | 2778 | 0.48 | ug/L | | 90 |
| 79) Chlorobenzene | 9.841 | 112 | 5252 | 0.50 | ug/L | | 85 |
| 80) 4-Chlorobenzotrifluoride | 9.908 | 180 | 2699 | 0.53 | ug/L | | 80 |
| 81) 1,1,1,2-Tetrachloroethane | 9.927 | 131 | 1101m | 0.35 | ug/L | | |
| 82) Ethylbenzene | 9.957 | 106 | 2741 | 0.51 | ug/L | # | 74 |
| 83) (m+p)Xylene | 10.073 | 106 | 7244 | 1.12 | ug/L | # | 68 |
| 84) o-Xylene | 10.433 | 106 | 3357 | 0.52 | ug/L | | 88 |
| 85) Styrene | 10.445 | 104 | 4608 | 0.42 | ug/L | | 88 |
| 86) Bromoform | 10.591 | 173 | 925 | 0.44 | ug/L | # | 70 |
| 87) 2-Chlorobenzotrifluoride | 10.677 | 180 | 2762 | 0.49 | ug/L | | 91 |
| 88) Isopropylbenzene | 10.762 | 105 | 7815 | 0.50 | ug/L | | 89 |
| 89) Cyclohexanone | 10.829 | 55 | 7015 | 8.92 | ug/L | | 96 |
| 90) trans-1,4-Dichloro-2-B... | 11.079 | 53 | 379 | 0.25 | ug/L | | 84 |
| 92) 1,1,2,2-Tetrachloroethane | 11.024 | 83 | 2130 | 0.47 | ug/L | # | 64 |
| 93) Bromobenzene | 11.018 | 156 | 2642 | 0.65 | ug/L | # | 43 |
| 94) 1,2,3-Trichloropropane | 11.054 | 110 | 953 | 0.62 | ug/L | # | 48 |
| 95) n-Propylbenzene | 11.122 | 91 | 10419 | 0.61 | ug/L | | 95 |
| 96) 2-Chlorotoluene | 11.182 | 91 | 6218 | 0.59 | ug/L | | 95 |
| 97) 3-Chlorotoluene | 11.237 | 91 | 5701 | 0.50 | ug/L | | 83 |
| 98) 4-Chlorotoluene | 11.280 | 91 | 7055 | 0.58 | ug/L | | 94 |
| 99) 1,3,5-Trimethylbenzene | 11.274 | 105 | 7125 | 0.58 | ug/L | | 86 |
| 100) tert-Butylbenzene | 11.548 | 119 | 5310 | 0.50 | ug/L | | 75 |
| 101) 1,2,4-Trimethylbenzene | 11.585 | 105 | 7138 | 0.58 | ug/L | | 95 |
| 102) 3,4-Dichlorobenzotrifl... | 11.646 | 214 | 2150 | 0.55 | ug/L | | 86 |
| 103) sec-Butylbenzene | 11.725 | 105 | 8266 | 0.56 | ug/L | | 87 |

# Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5578.D
Acq On : 8 Sep 2022 10:35 am
Operator : F.NAEGLER
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 08 14:25:00 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration

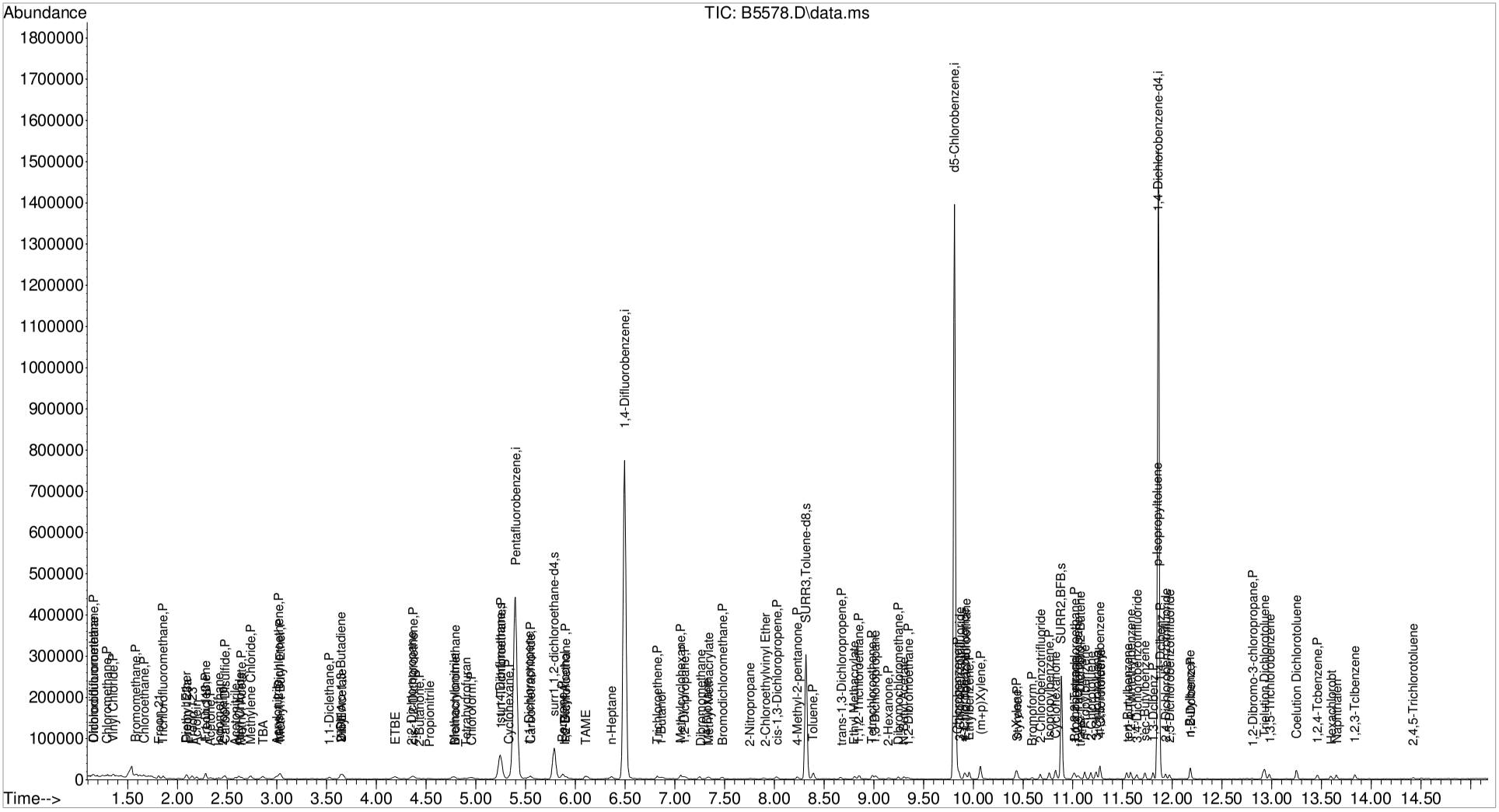
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 104) p-Isopropyltoluene | 11.847 | 119 | 6446 | 0.51 | ug/L | | 86 |
| 105) 1,3-Dclbenz | 11.810 | 146 | 3580 | 0.48 | ug/L | | 82 |
| 106) 1,4-Dclbenz | 11.878 | 146 | 5299 | 0.71 | ug/L | | 98 |
| 107) 2,4-Dichlorobenzotrifl... | 11.932 | 214 | 2032m | 0.58 | ug/L | | |
| 108) 2,5-Dichlorobenzotrifl... | 11.975 | 214 | 1862 | 0.47 | ug/L | | 82 |
| 109) n-Butylbenzene | 12.176 | 91 | 5636 | 0.53 | ug/L | | 82 |
| 110) 1,2-Dclbenz | 12.182 | 146 | 4143 | 0.55 | ug/L | | 82 |
| 111) 1,2-Dibromo-3-chloropr... | 12.810 | 157 | 370 | 0.43 | ug/L | # | 62 |
| 112) Trielution Dichlorotol... | 12.926 | 125 | 9314 | 1.51 | ug/L | | 94 |
| 113) 1,3,5-Trichlorobenzene | 12.981 | 180 | 3178 | 0.59 | ug/L | # | 64 |
| 114) Coelution Dichlorotoluene | 13.249 | 125 | 6545 | 1.00 | ug/L | | 92 |
| 115) 1,2,4-Tcbenzene | 13.463 | 180 | 1944 | 0.39 | ug/L | # | 75 |
| 116) Hexachlorobt | 13.597 | 225 | 1216 | 0.63 | ug/L | # | 73 |
| 117) Naphthalen | 13.652 | 128 | 5261 | 0.43 | ug/L | | 94 |
| 118) 1,2,3-Tclbenzene | 13.834 | 180 | 1965 | 0.38 | ug/L | # | 76 |
| 119) 2,4,5-Trichlorotoluene | 14.420 | 159 | 630m | 0.23 | ug/L | | |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5578.D
Acq On : 8 Sep 2022 10:35 am
Operator : F.NAEGLER
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 08 14:25:00 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration





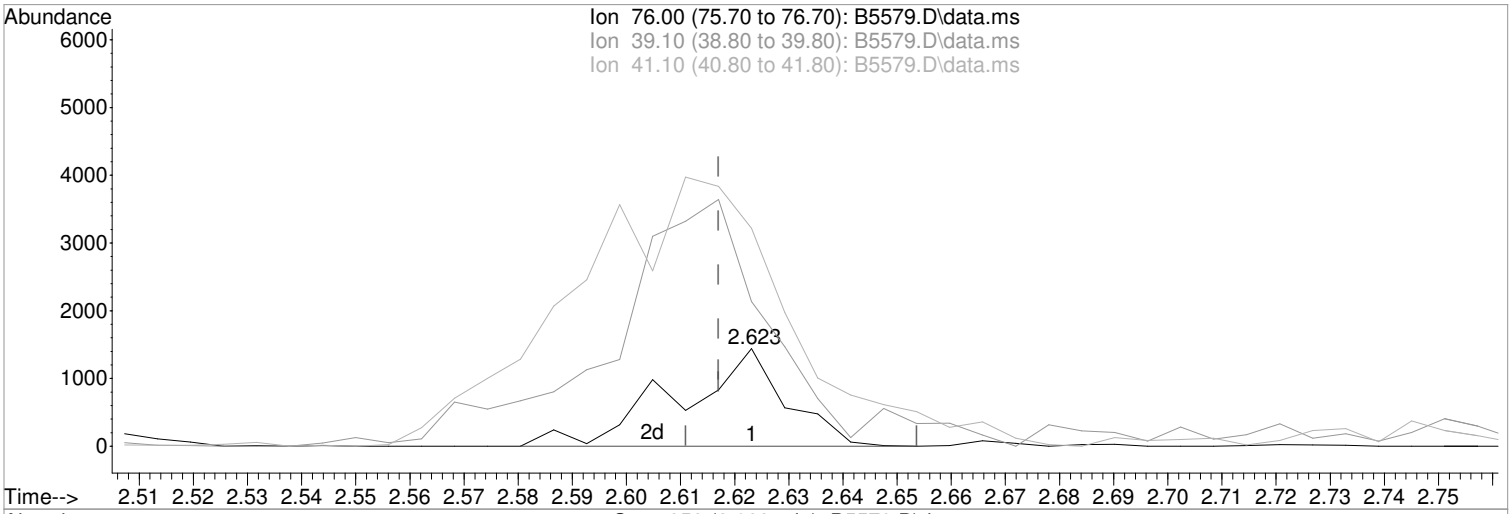

1st FNJ 09/08/22
2nd 09/12/22

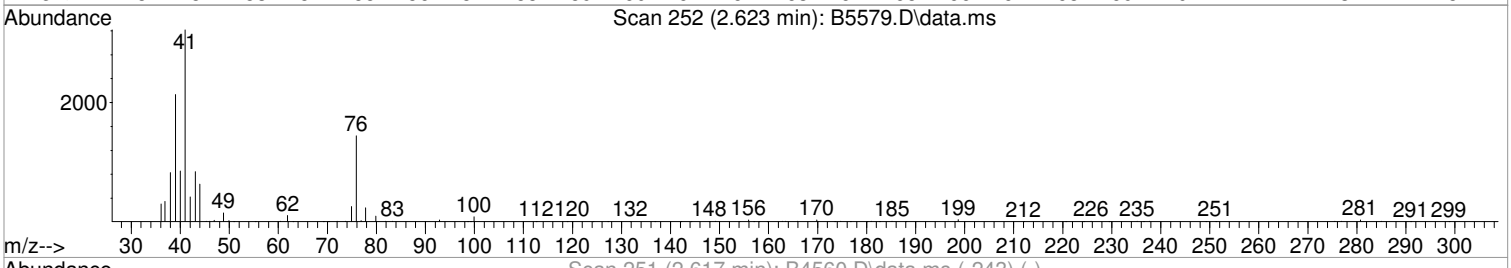
1st FN 09/08/22
2nd 09/12/22

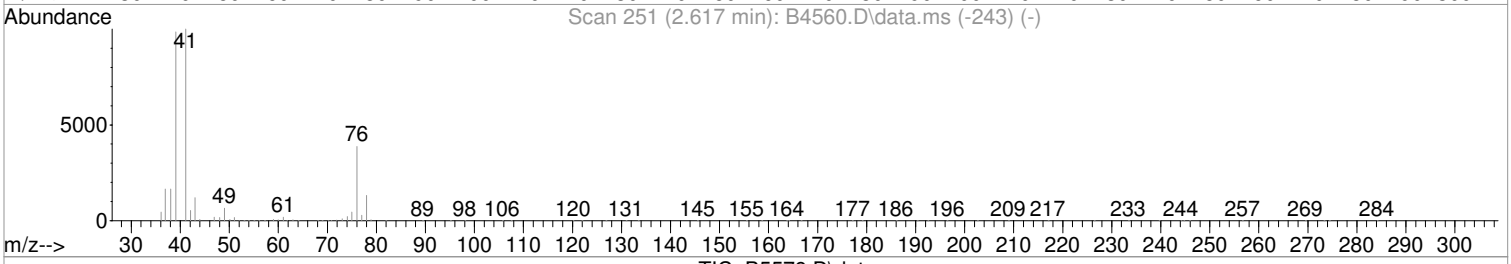
# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5579.D
Acq On : 8 Sep 2022 10:56 am
Operator : F.NAEGLER
Sample : 1 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 08 14:25:16 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration




TIC: B5579.D\data.ms

(21) Allyl Chloride

2.623min (+0.006) 1.18 ug/L m

response 2012

| Ion | Exp% | Act% |
|---|---|---|
| 76.00 | 100 | 100 |
| 39.10 | 275.70 | 147.82# |
| 41.10 | 384.30 | 222.80# |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

After

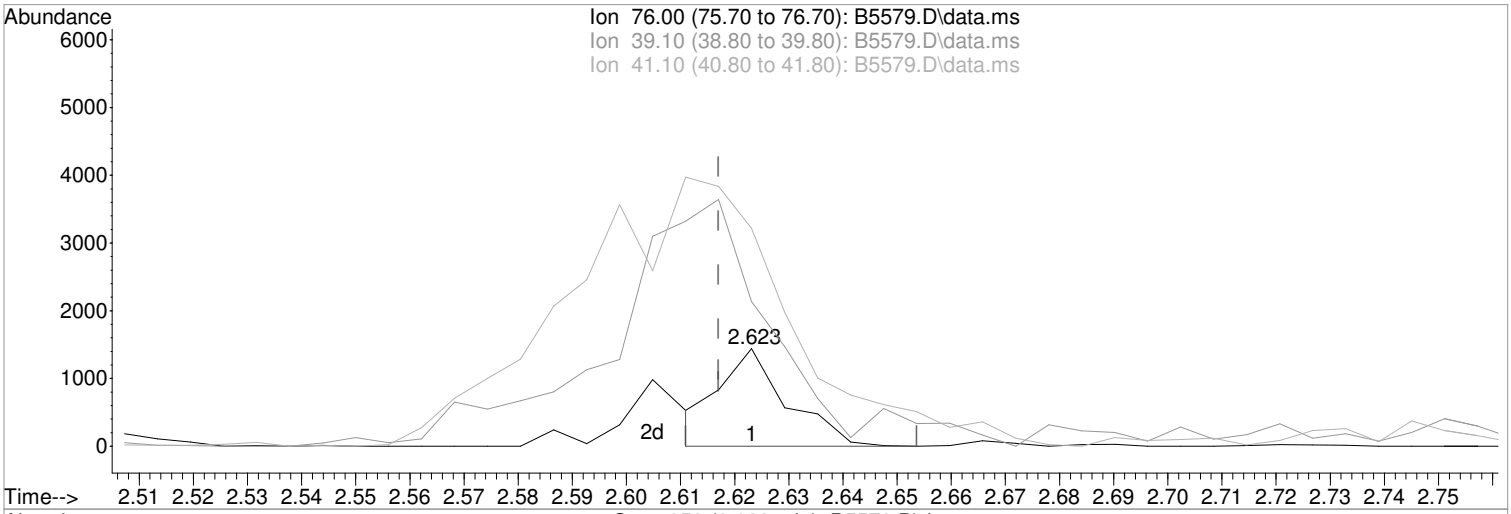
Poor integration.

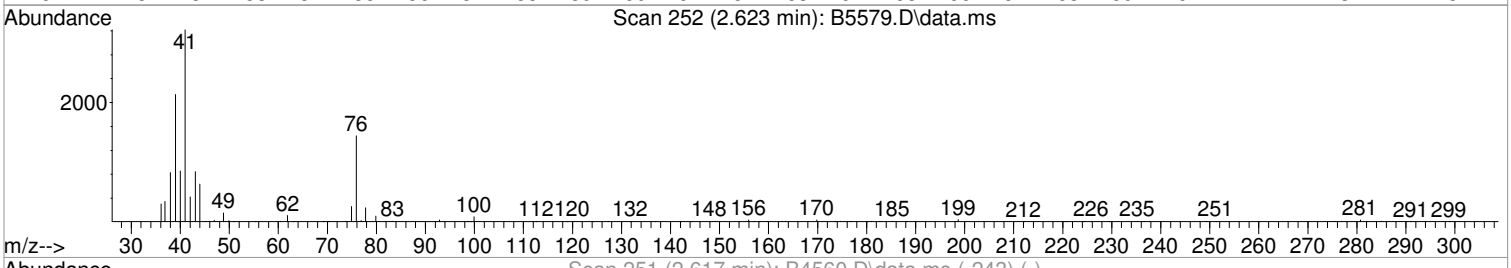
09/08/22

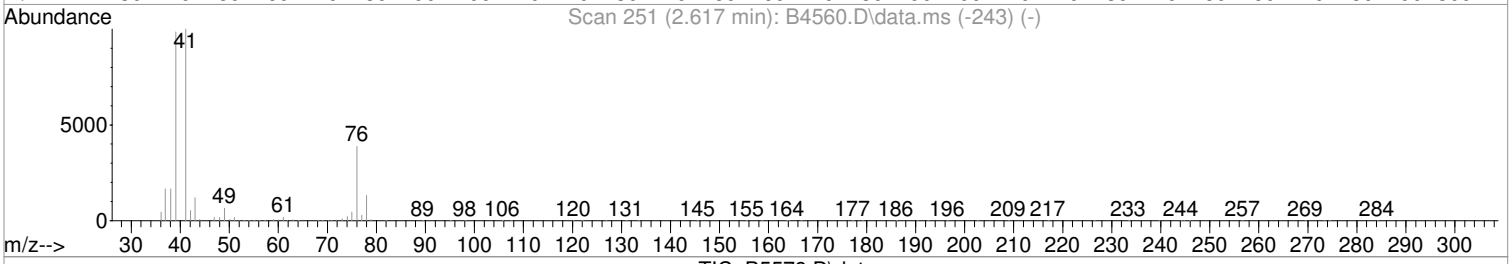
# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5579.D
Acq On : 8 Sep 2022 10:56 am
Operator : F.NAEGLER
Sample : 1 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 08 14:25:16 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration




TIC: B5579.D\data.ms

(21) Allyl Chloride

2.623min (+0.006) 0.73 ug/L

response 1240

| Ion | Exp% | Act% |
|---|---|---|
| 76.00 | 100 | 100 |
| 39.10 | 275.70 | 147.82# |
| 41.10 | 384.30 | 222.80# |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

Before

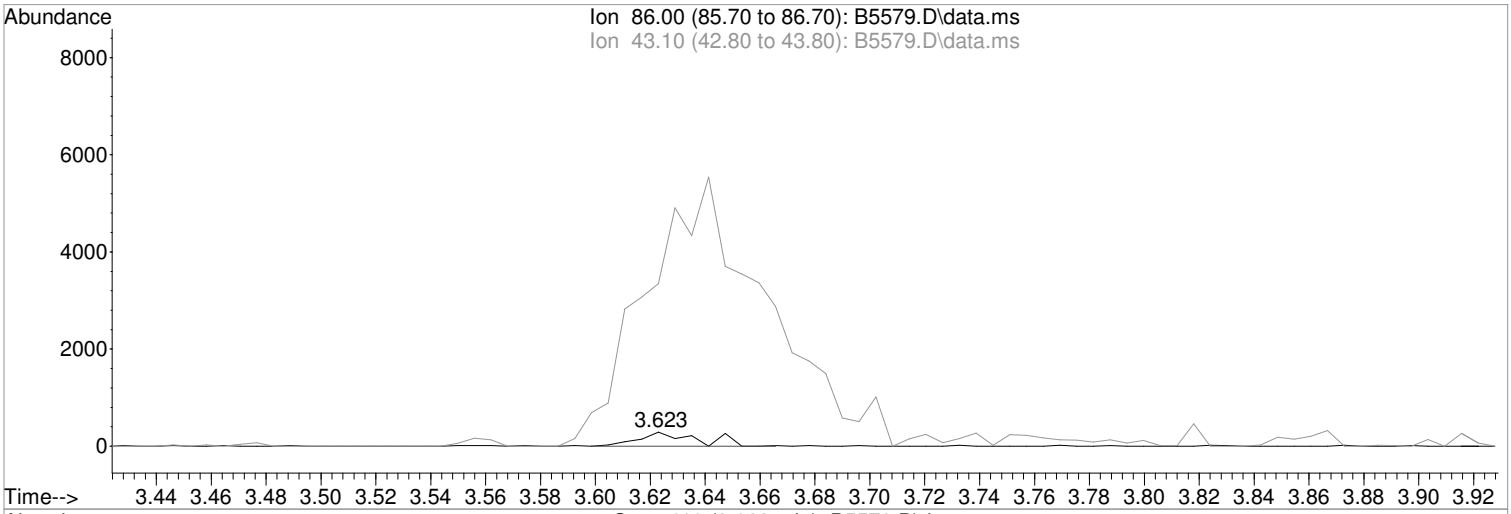
09/08/22

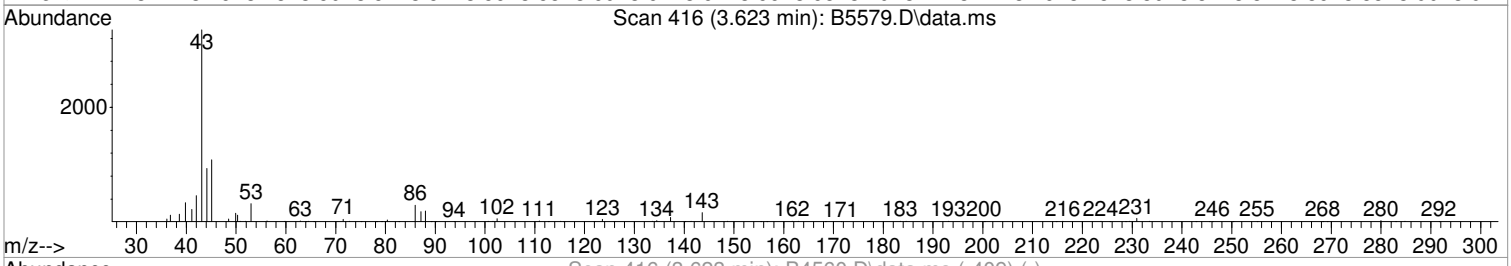
1st FN 09/08/22
2nd 09/12/22

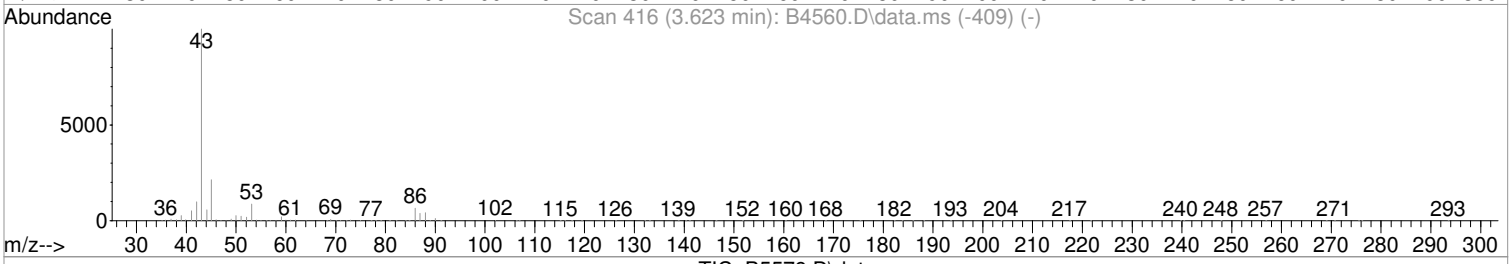
# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5579.D
Acq On : 8 Sep 2022 10:56 am
Operator : F.NAEGLER
Sample : 1 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 08 14:25:16 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration




TIC: B5579.D\data.ms

(29) Vinyl Acetate

3.623min (+0.000) 0.90 ug/L m

response 441

| Ion | Exp% | Act% |
|---|---|---|
| 86.00 | 100 | 100 |
| 43.10 | 1560.10 | 1146.58# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

After

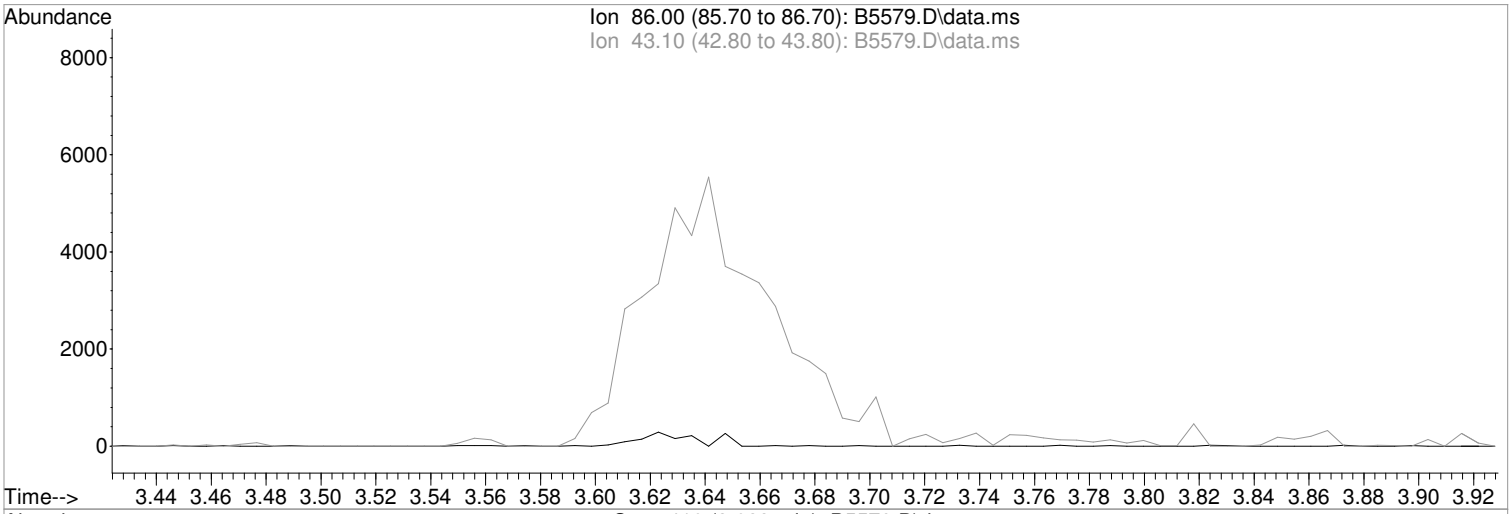
Peak not found.

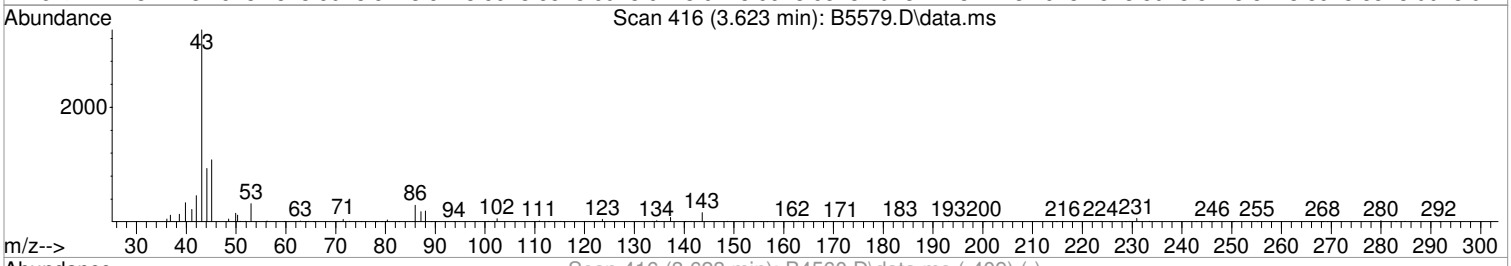
09/08/22

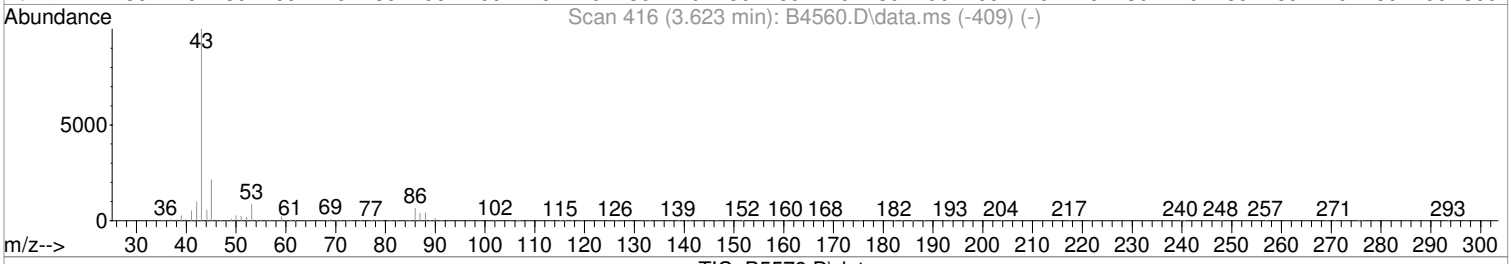
# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5579.D
Acq On : 8 Sep 2022 10:56 am
Operator : F.NAEGLER
Sample : 1 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 08 14:25:16 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration




TIC: B5579.D\data.ms

(29) Vinyl Acetate

3.623min (-3.623) 0.00 ug/L

response 0

| Ion | Exp% | Act% |
|---|---|---|
| 86.00 | 100 | 0.00 |
| 43.10 | 1560.10 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

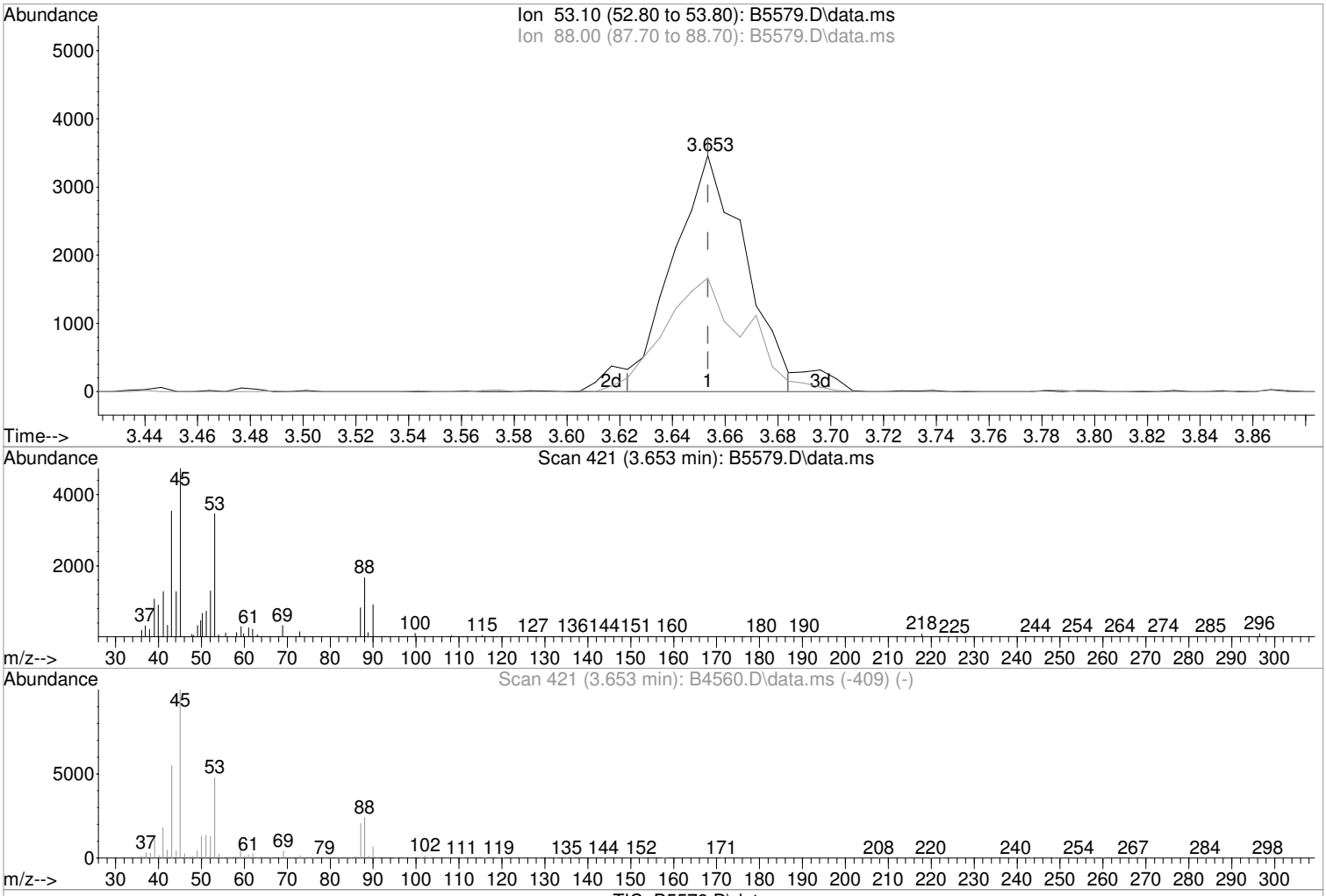
Before

09/08/22

# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5579.D
Acq On : 8 Sep 2022 10:56 am
Operator : F.NAEGLER
Sample : 1 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 08 14:25:16 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration




TIC: B5579.D\data.ms

(31) 2-Chloro-1,3-Butadiene

3.653min (+0.000) 1.23 ug/L m

response 7075

| Ion | Exp% | Act% |
|---|---|---|
| 53.10 | 100 | 100 |
| 88.00 | 50.60 | 48.12 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

After

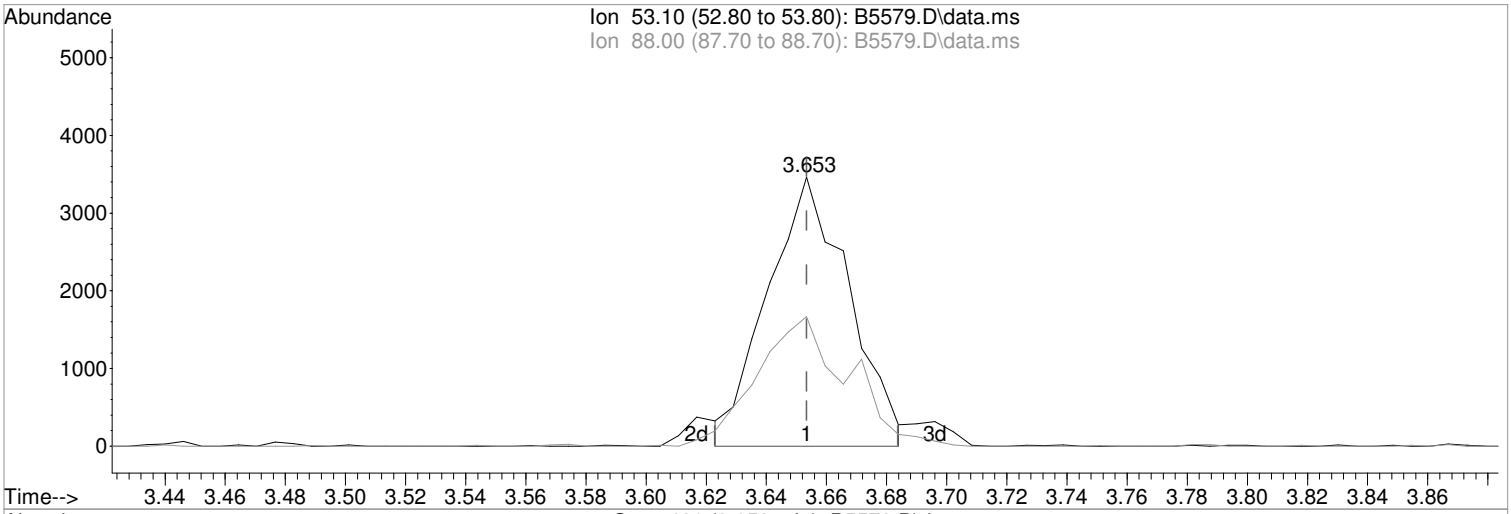
Poor integration.

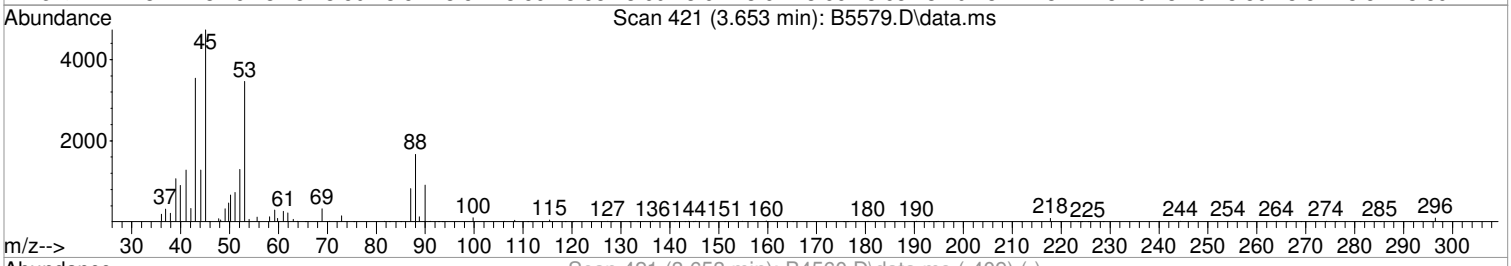
09/08/22

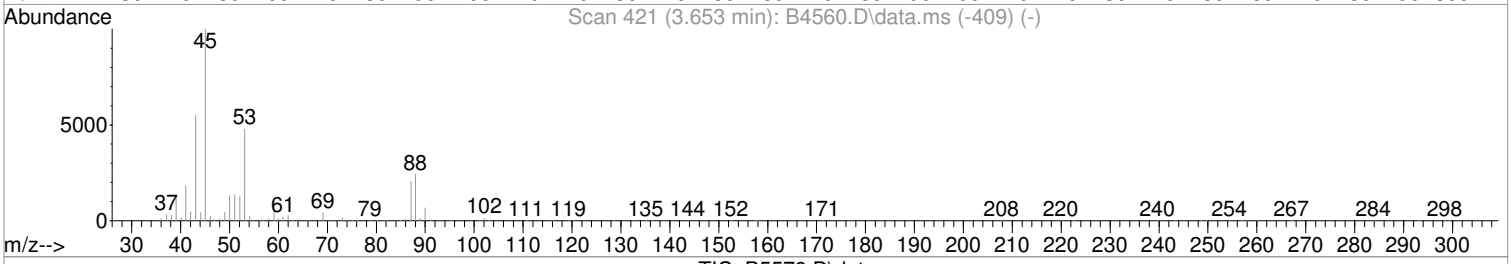
# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5579.D
Acq On : 8 Sep 2022 10:56 am
Operator : F.NAEGLER
Sample : 1 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 08 14:25:16 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration




TIC: B5579.D\data.ms

(31) 2-Chloro-1,3-Butadiene

3.653min (+0.000) 1.13 ug/L

response 6473

| Ion | Exp% | Act% |
|---|---|---|
| 53.10 | 100 | 100 |
| 88.00 | 50.60 | 48.12 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

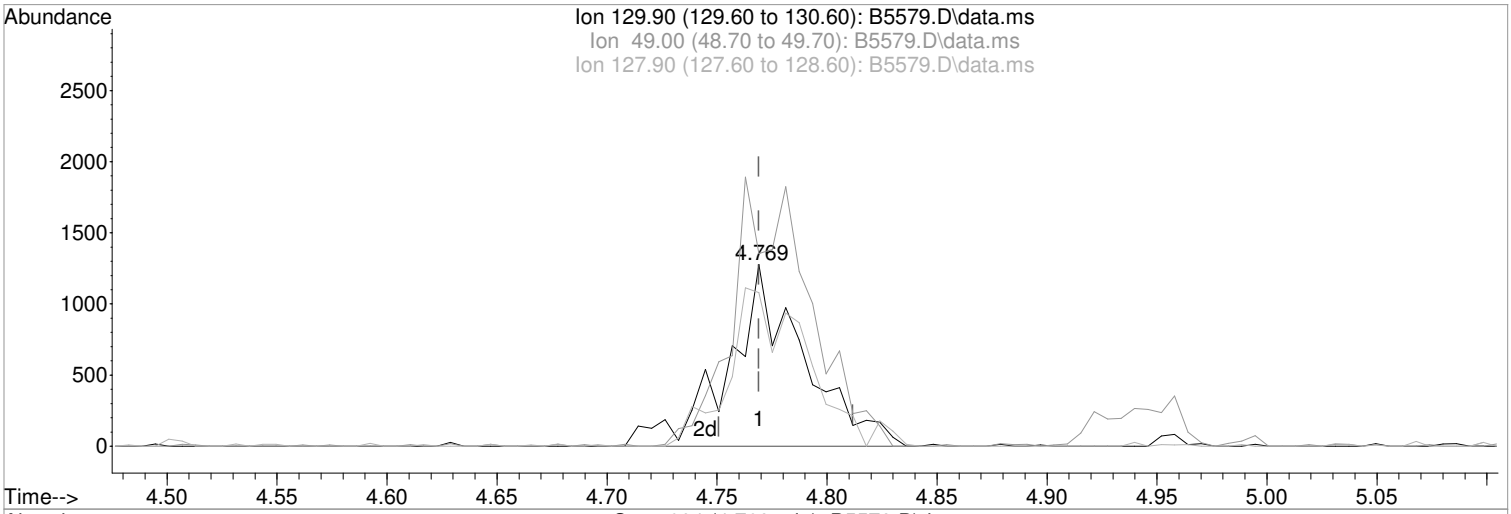
Before

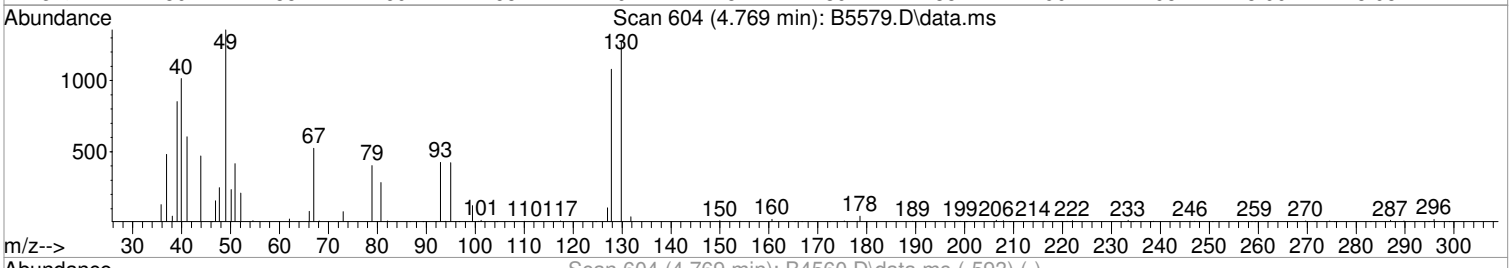
09/08/22

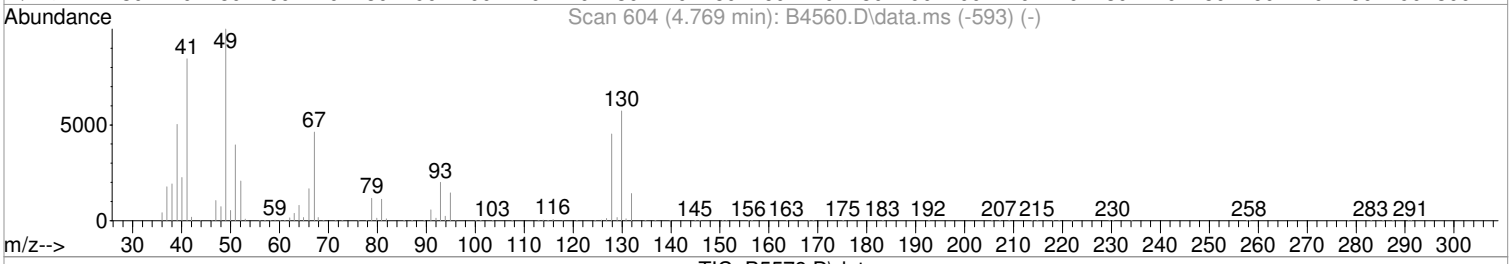
# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5579.D
Acq On : 8 Sep 2022 10:56 am
Operator : F.NAEGLER
Sample : 1 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 08 14:25:16 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration




TIC: B5579.D\data.ms

(37) Bromochloromethane

4.769min (+0.000) 1.27 ug/L m

response 3057

| Ion | Exp% | Act% |
|---|---|---|
| 129.90 | 100 | 100 |
| 49.00 | 174.90 | 106.11# |
| 127.90 | 79.00 | 84.49 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

After

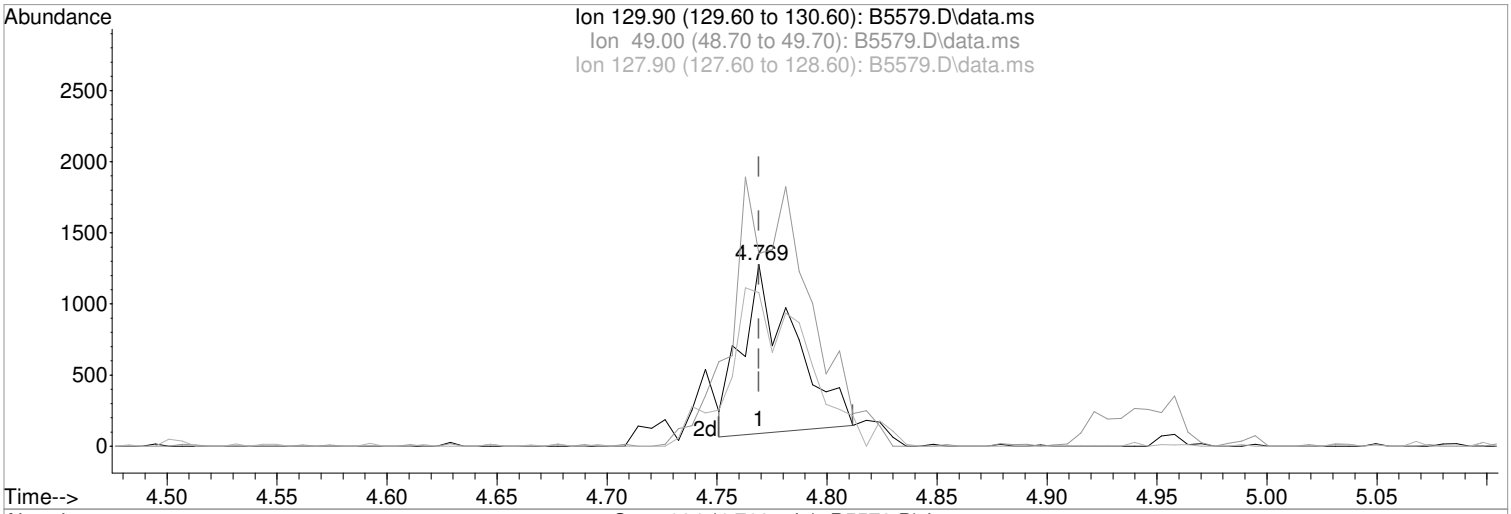
Poor integration.

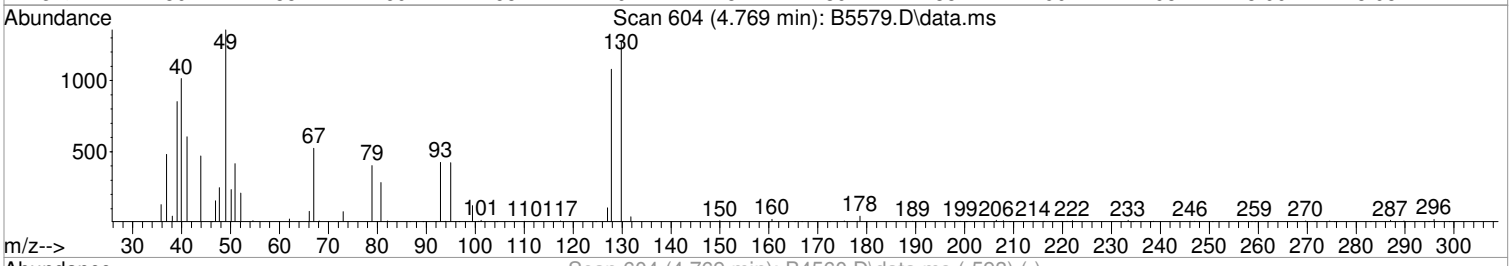
09/08/22

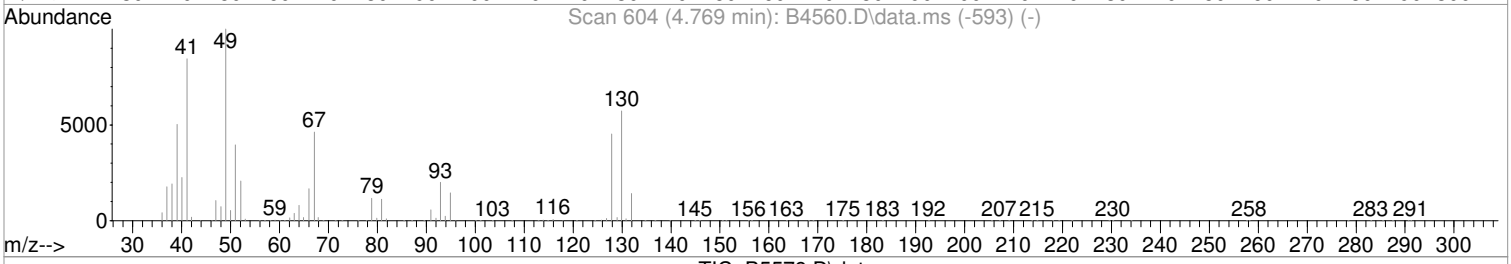
# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5579.D
Acq On : 8 Sep 2022 10:56 am
Operator : F.NAEGLER
Sample : 1 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 08 14:25:16 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration




TIC: B5579.D\data.ms

(37) Bromochloromethane

4.769min (+0.000) 0.82 ug/L

response 1958

| Ion | Exp% | Act% |
|---|---|---|
| 129.90 | 100 | 100 |
| 49.00 | 174.90 | 106.11# |
| 127.90 | 79.00 | 84.49 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

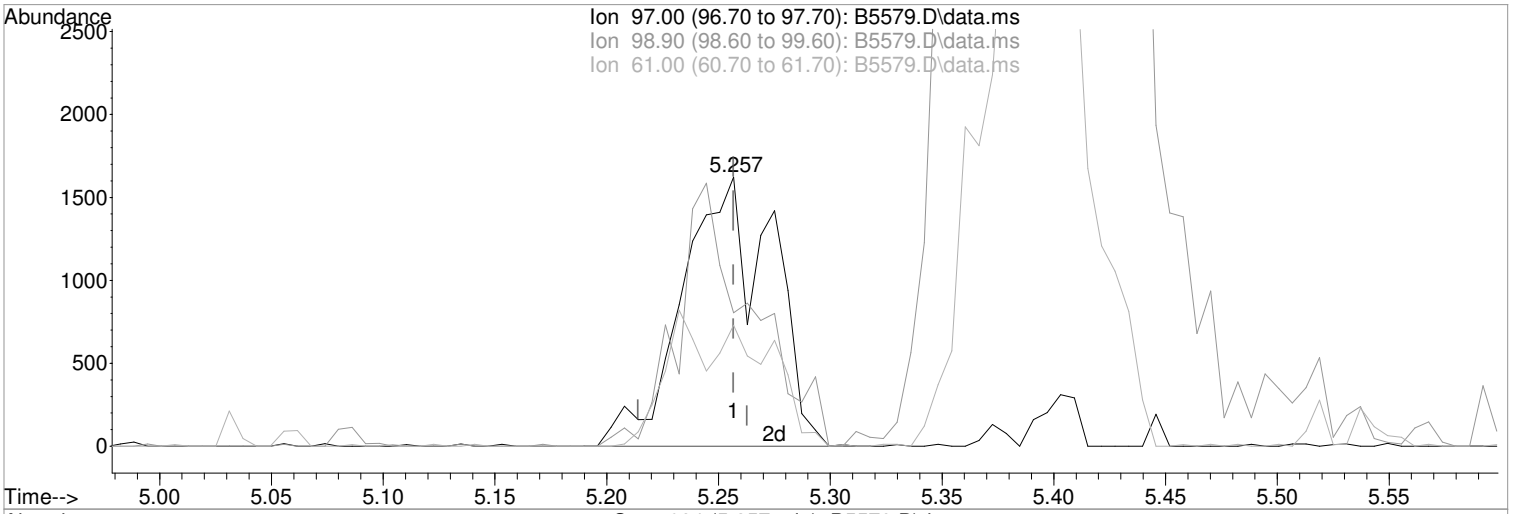
Before

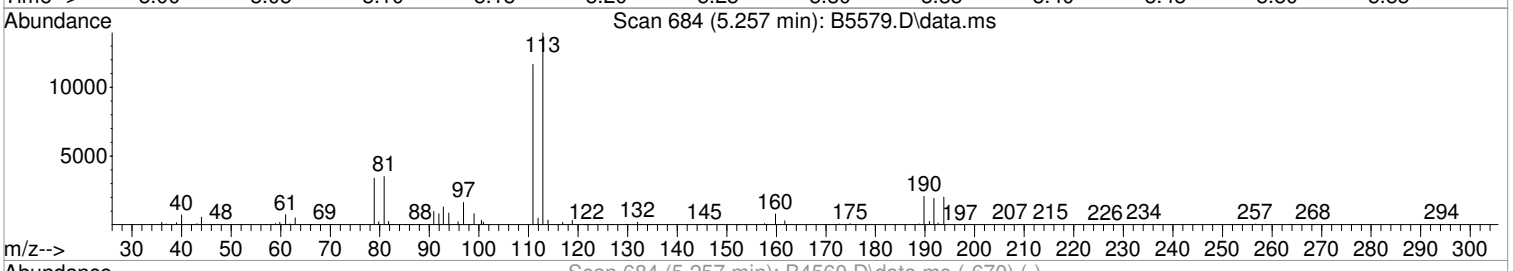
09/08/22

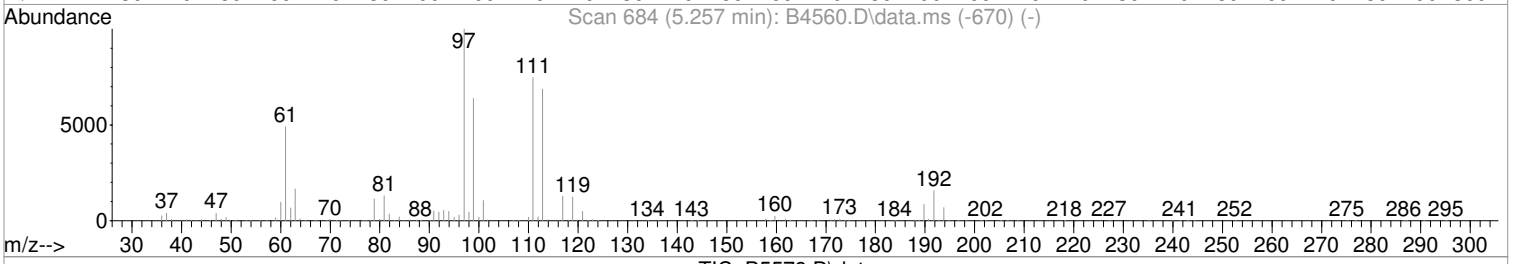
# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5579.D
Acq On : 8 Sep 2022 10:56 am
Operator : F.NAEGLER
Sample : 1 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 08 14:25:16 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration




TIC: B5579.D\data.ms

(41) 1,1,1-Trichloroethane (P)

5.257min (+0.000) 1.01 ug/L m

response 4531

| Ion | Exp% | Act% |
|---|---|---|
| 97.00 | 100 | 100 |
| 98.90 | 63.70 | 49.57 |
| 61.00 | 48.90 | 44.94 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

After

Poor integration.

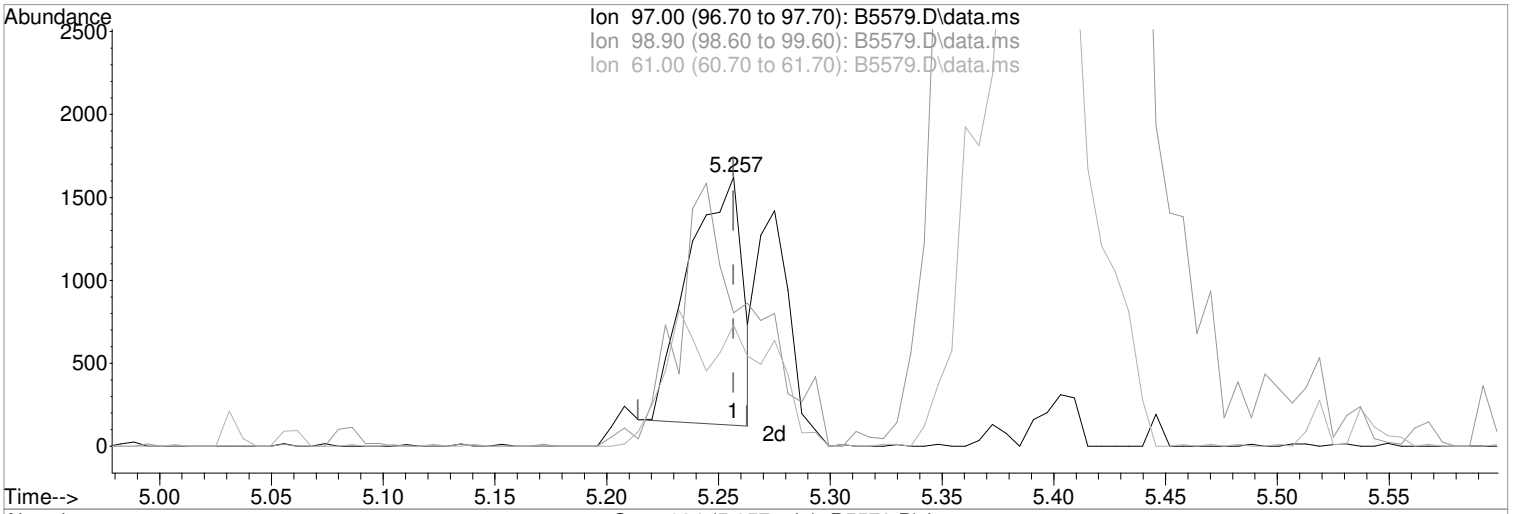
09/08/22

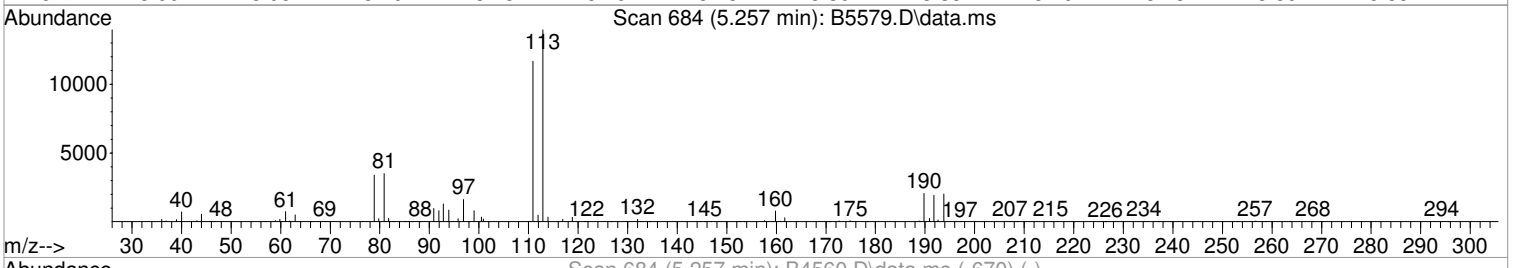
1st FN 09/08/22
2nd 09/12/22

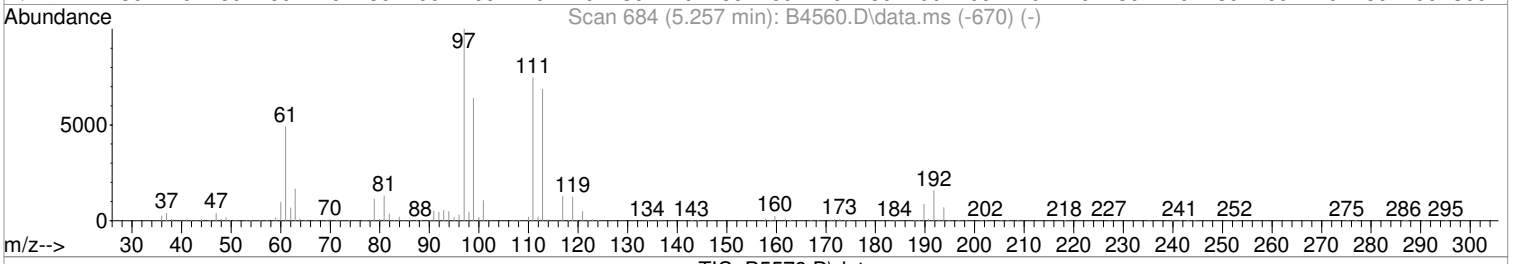
# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5579.D
Acq On : 8 Sep 2022 10:56 am
Operator : F.NAEGLER
Sample : 1 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 08 14:25:16 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration




TIC: B5579.D\data.ms

(41) 1,1,1-Trichloroethane (P)

5.257min (+0.000) 0.56 ug/L

response 2493

| Ion | Exp% | Act% |
|---|---|---|
| 97.00 | 100 | 100 |
| 98.90 | 63.70 | 49.57 |
| 61.00 | 48.90 | 44.94 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

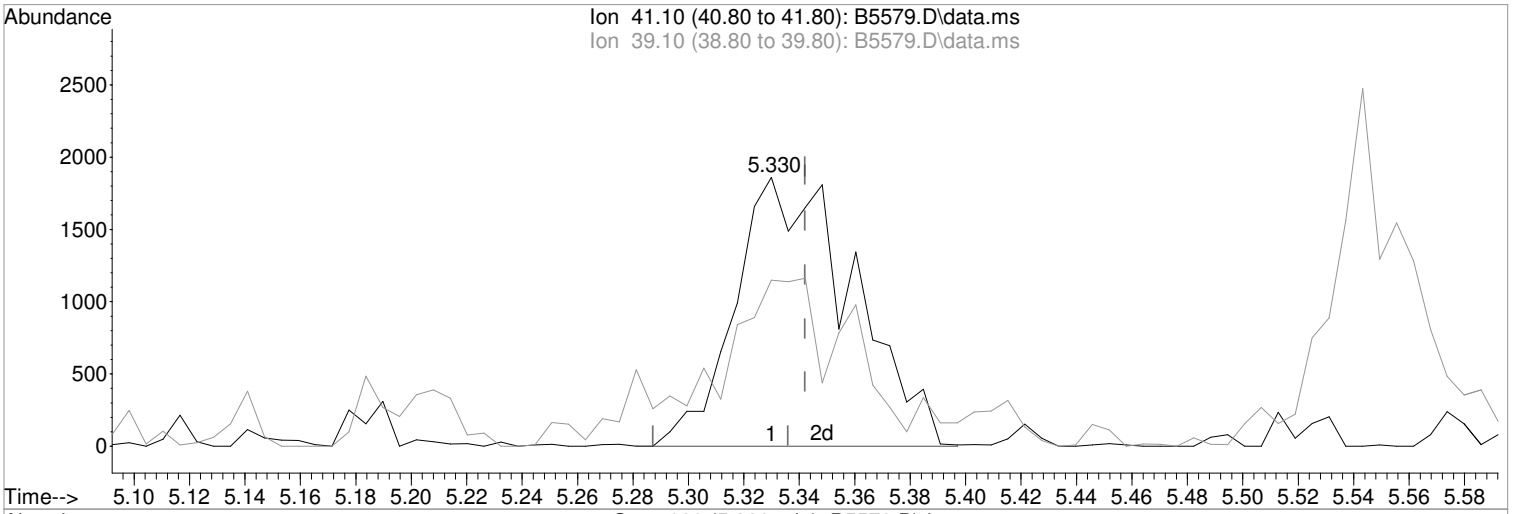
Before

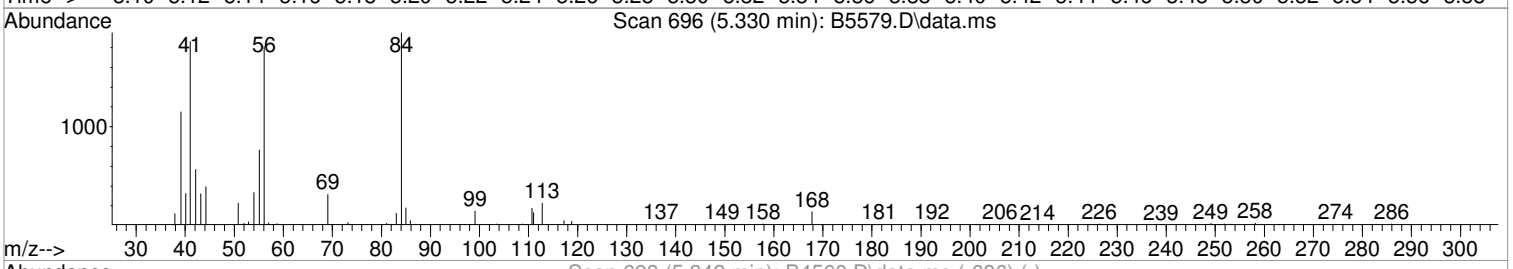
09/08/22

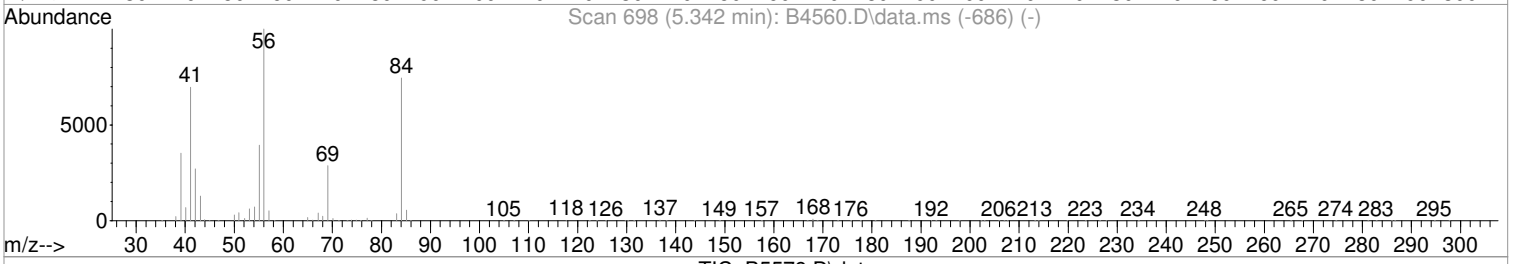
# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5579.D
Acq On : 8 Sep 2022 10:56 am
Operator : F.NAEGLER
Sample : 1 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 08 14:25:16 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration




TIC: B5579.D\data.ms

(43) Cyclohexane (P)

5.330min (-0.012) 1.13 ug/L m

response 5491

| Ion | Exp% | Act% |
|---|---|---|
| 41.10 | 100 | 100 |
| 39.10 | 50.20 | 61.74 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

After

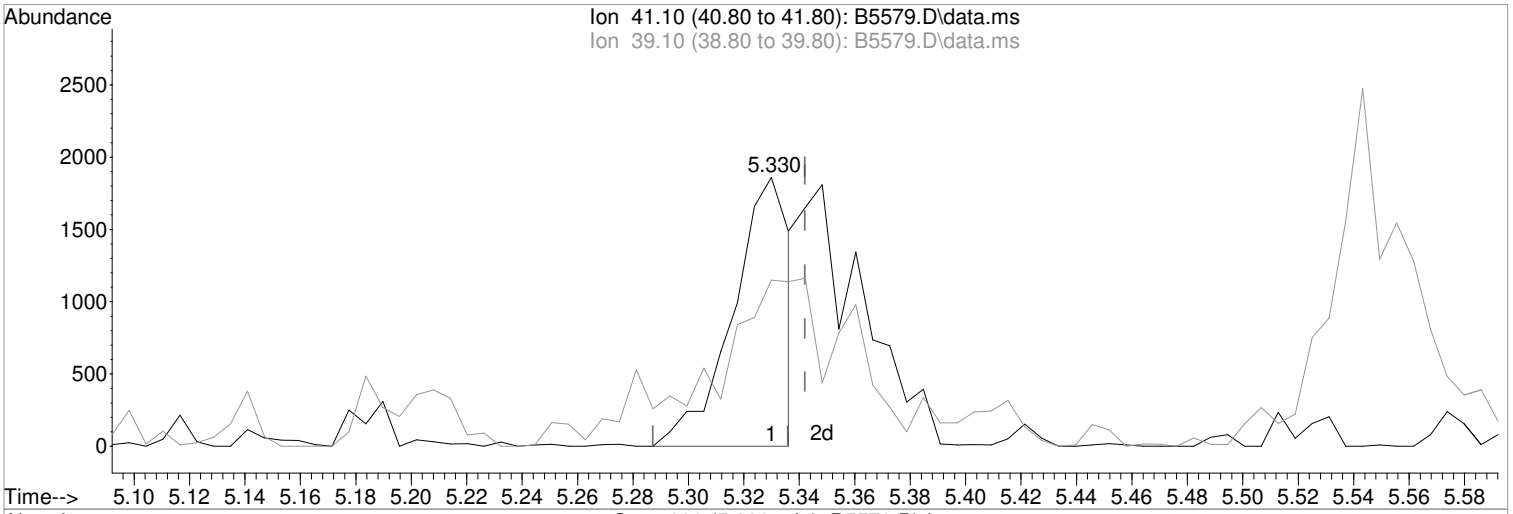
Poor integration.

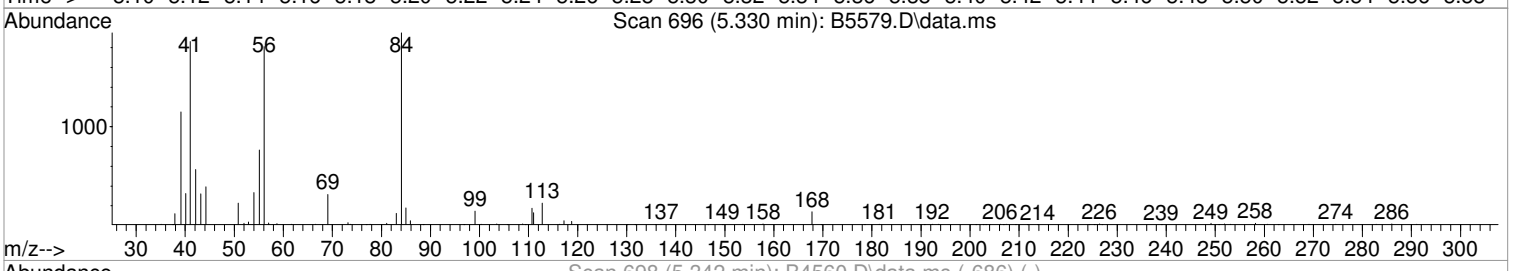
09/08/22

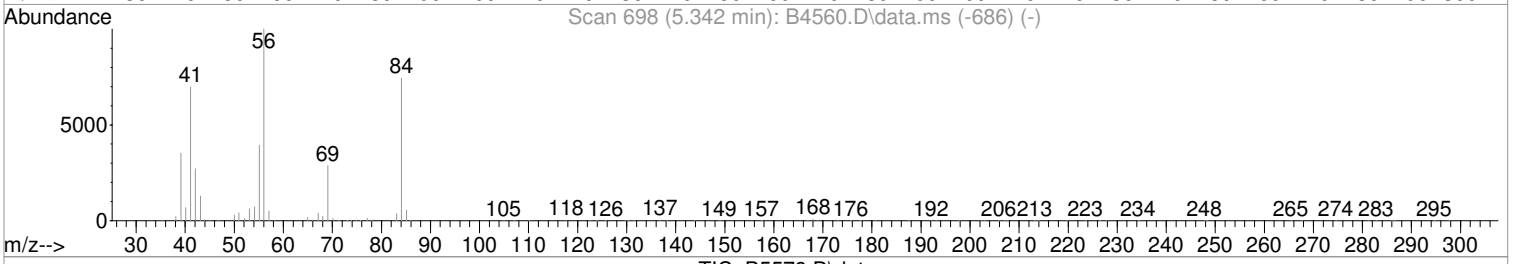
# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5579.D
Acq On : 8 Sep 2022 10:56 am
Operator : F.NAEGLER
Sample : 1 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 08 14:25:16 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration




TIC: B5579.D\data.ms

(43) Cyclohexane (P)

5.330min (-0.012) 0.55 ug/L

response 2647

| Ion | Exp% | Act% |
|---|---|---|
| 41.10 | 100 | 100 |
| 39.10 | 50.20 | 61.74 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

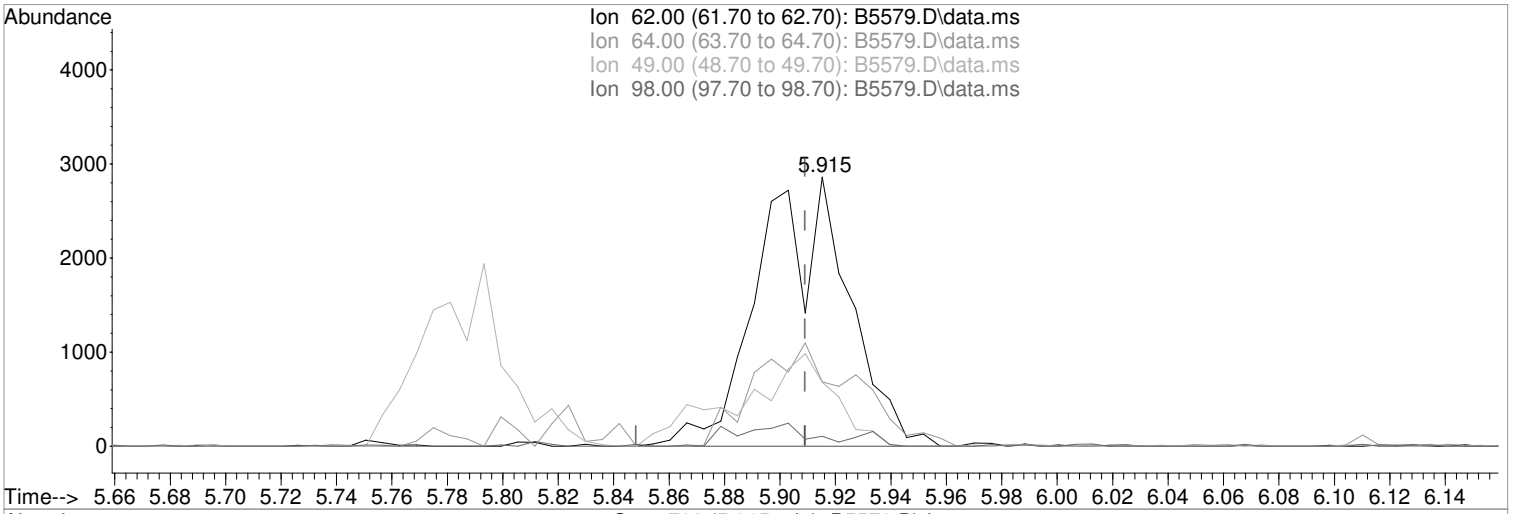
Before

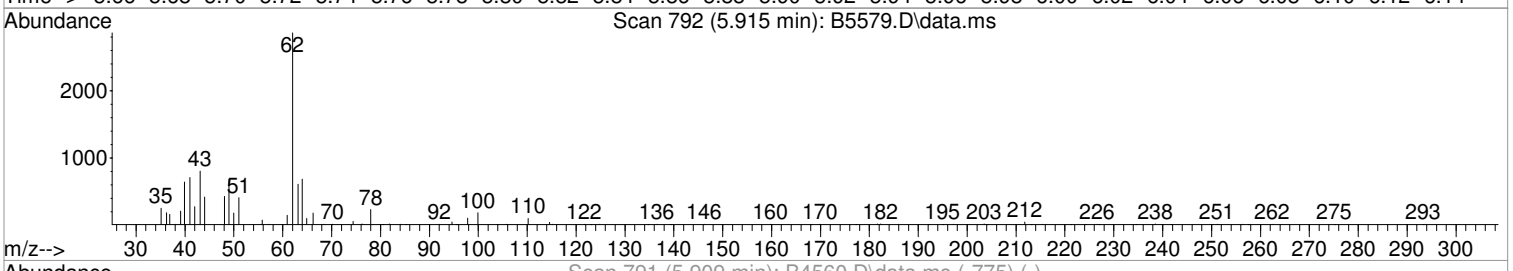
09/08/22

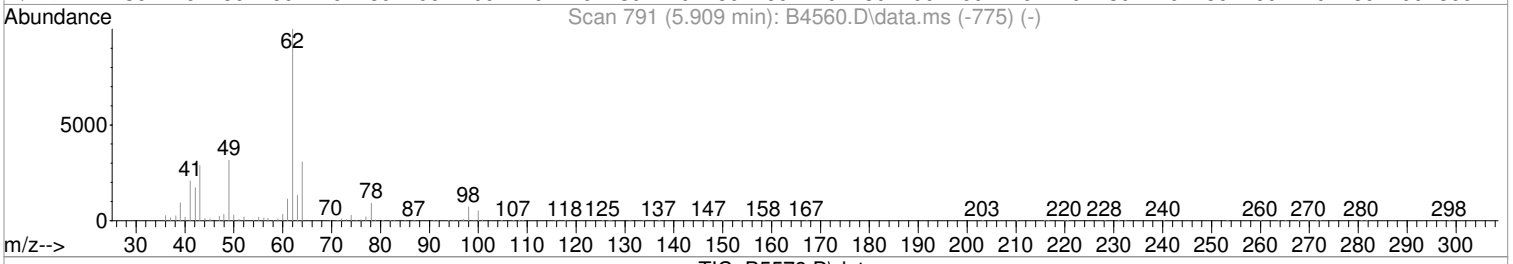
# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5579.D
Acq On : 8 Sep 2022 10:56 am
Operator : F.NAEGLER
Sample : 1 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 08 14:25:16 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration




TIC: B5579.D\data.ms

(49) 1,2-Dichloroethane (P)

5.915min (+0.006) 1.08 ug/L m

response 6410

| Ion | Exp% | Act% |
|---|---|---|
| 62.00 | 100 | 100 |
| 64.00 | 31.20 | 23.92 |
| 49.00 | 32.50 | 23.78 |
| 98.00 | 7.30 | 3.64 |

Manual Integration:

After

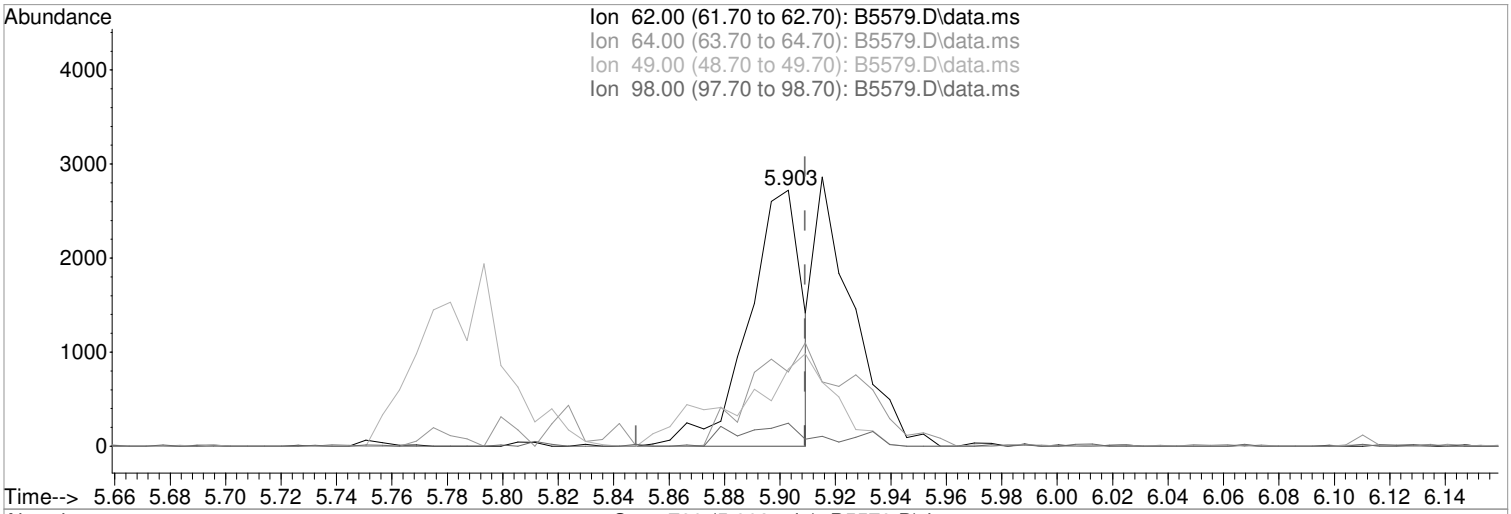
Poor integration.

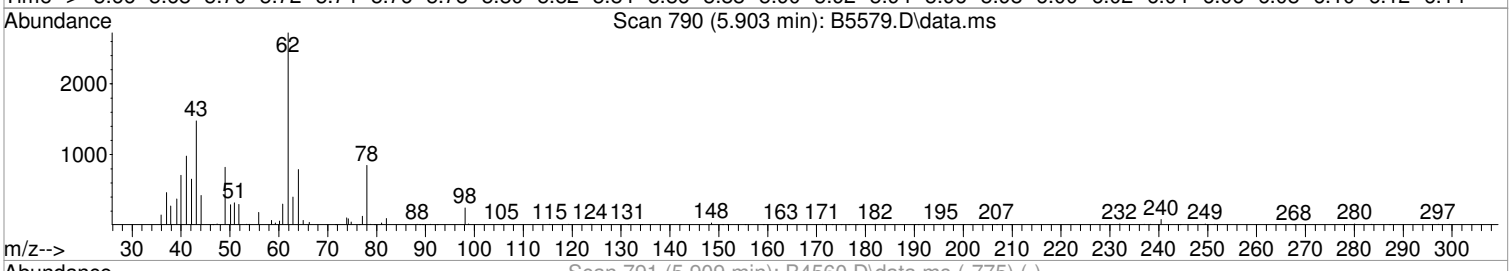
09/08/22

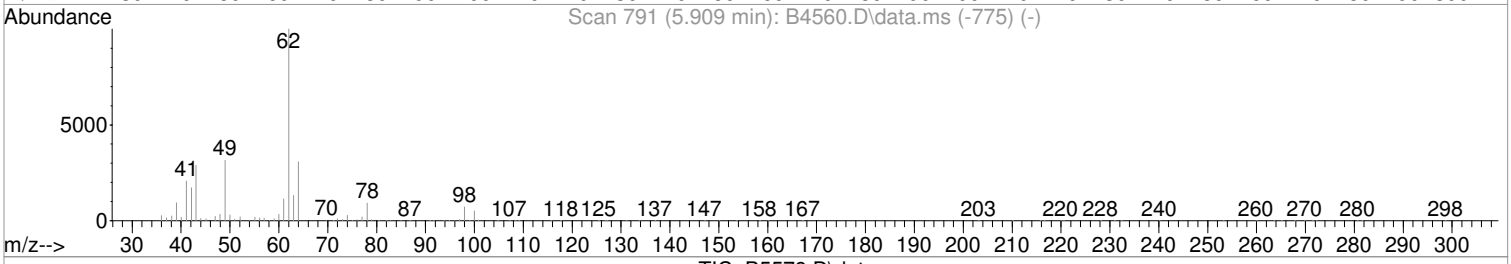
# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5579.D
Acq On : 8 Sep 2022 10:56 am
Operator : F.NAEGLER
Sample : 1 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 08 14:25:16 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration




TIC: B5579.D\data.ms

(49) 1,2-Dichloroethane (P)

5.903min (-0.006) 0.62 ug/L

response 3655

| Ion | Exp% | Act% |
|---|---|---|
| 62.00 | 100 | 100 |
| 64.00 | 31.20 | 28.99 |
| 49.00 | 32.50 | 30.16 |
| 98.00 | 7.30 | 9.00 |

Manual Integration:

Before

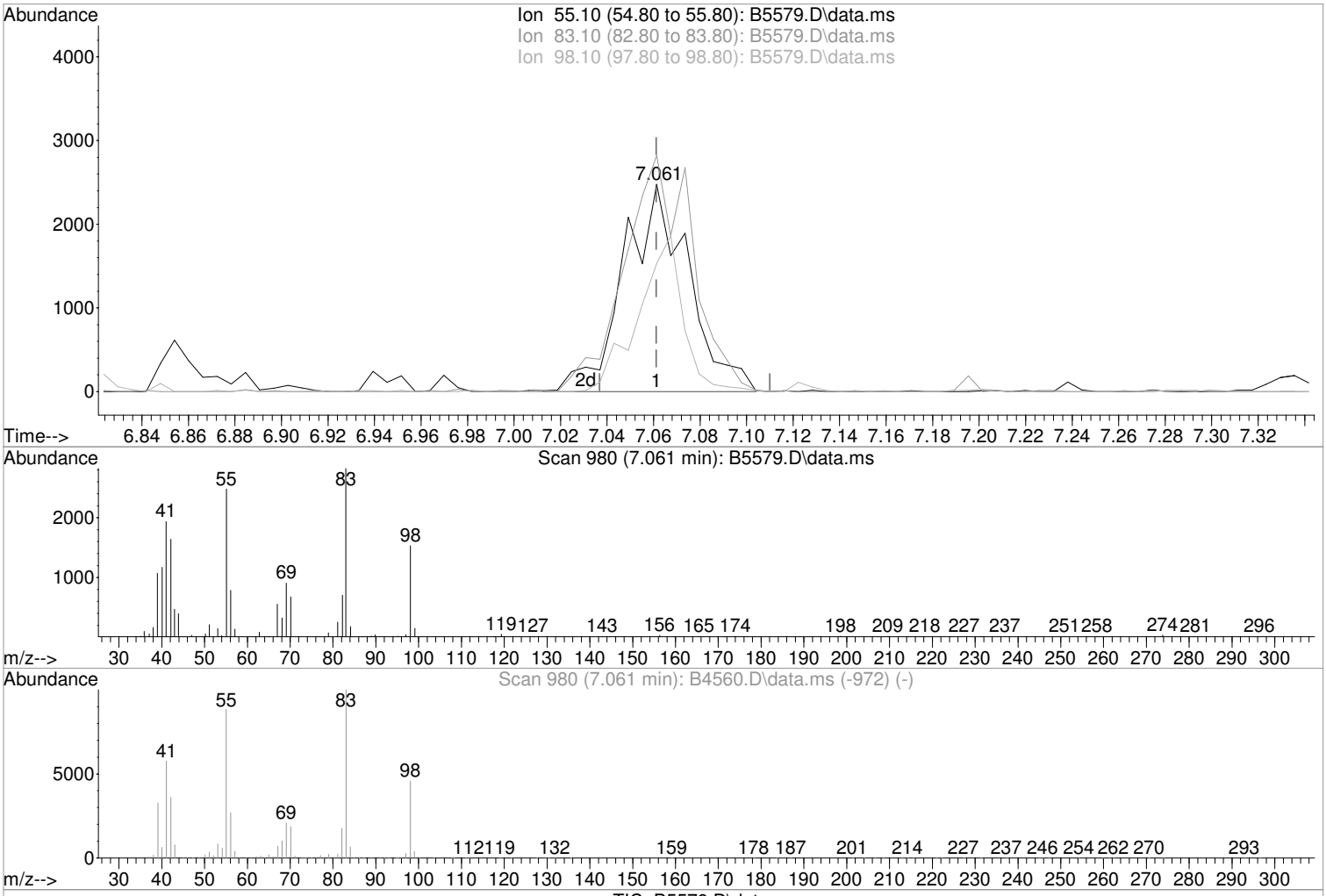
09/08/22

1st FJ 09/08/22
2nd 09/12/22

# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5579.D
Acq On : 8 Sep 2022 10:56 am
Operator : F.NAEGLER
Sample : 1 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 08 14:25:16 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration




TIC: B5579.D\data.ms

(55) Methylcyclohexane (P)

7.061min (+0.000) 0.90 ug/L m

response 4816

| Ion | Exp% | Act% |
|---|---|---|
| 55.10 | 100 | 100 |
| 83.10 | 112.90 | 113.84 |
| 98.10 | 51.70 | 61.76 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

After

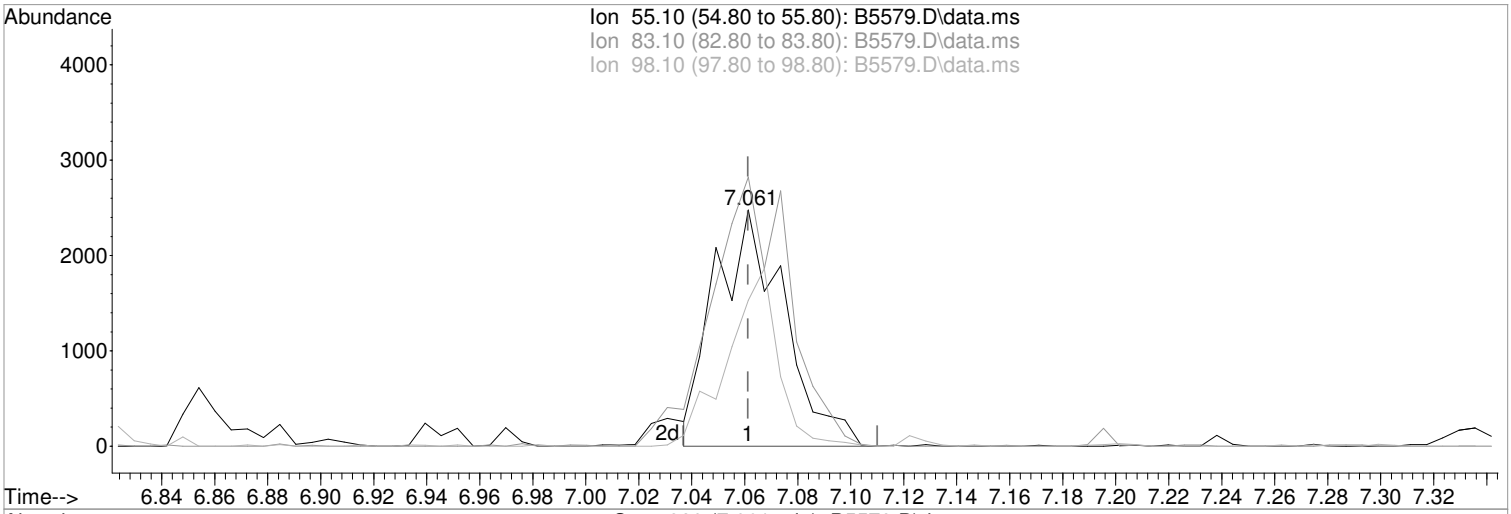
Poor integration.

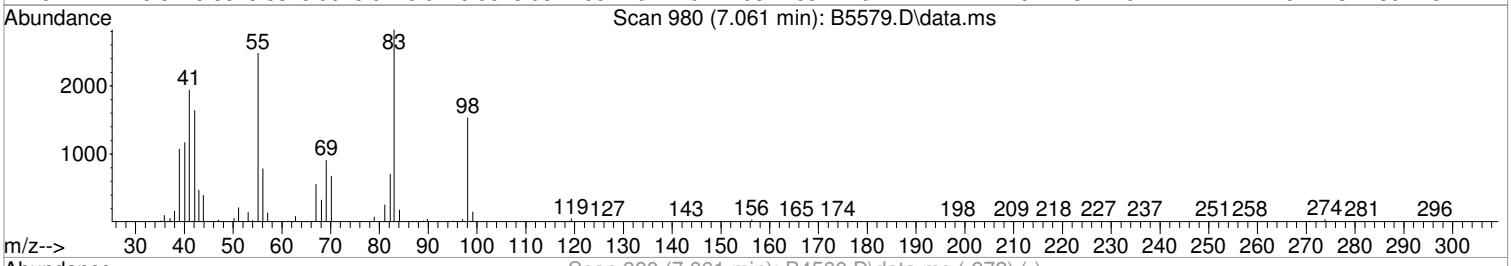
09/08/22

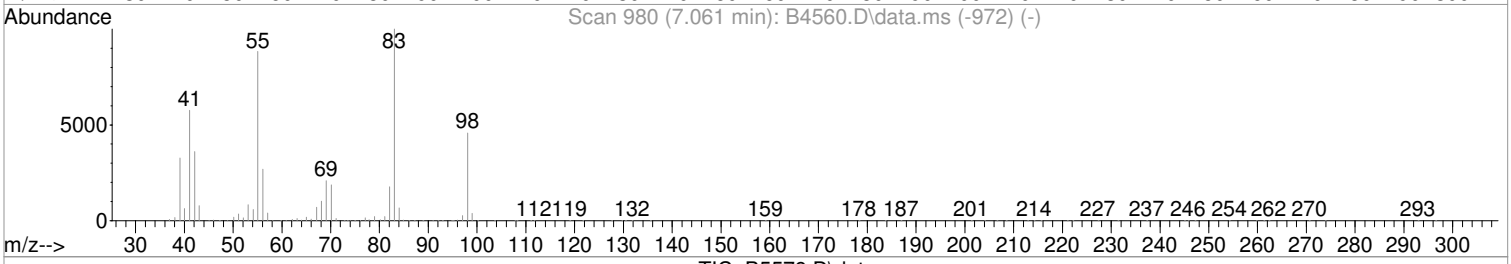
# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5579.D
Acq On : 8 Sep 2022 10:56 am
Operator : F.NAEGLER
Sample : 1 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 08 14:25:16 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration




TIC: B5579.D\data.ms

(55) Methylcyclohexane (P)

7.061min (+0.000) 0.85 ug/L

response 4522

| Ion | Exp% | Act% |
|---|---|---|
| 55.10 | 100 | 100 |
| 83.10 | 112.90 | 113.84 |
| 98.10 | 51.70 | 61.76 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

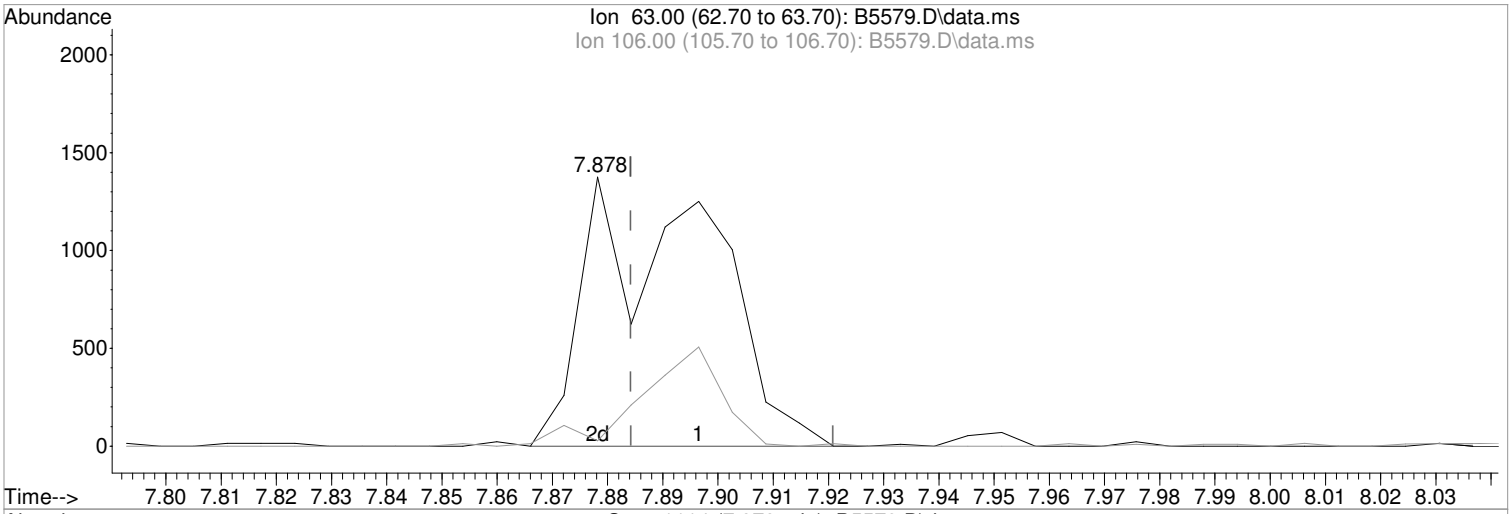
Before

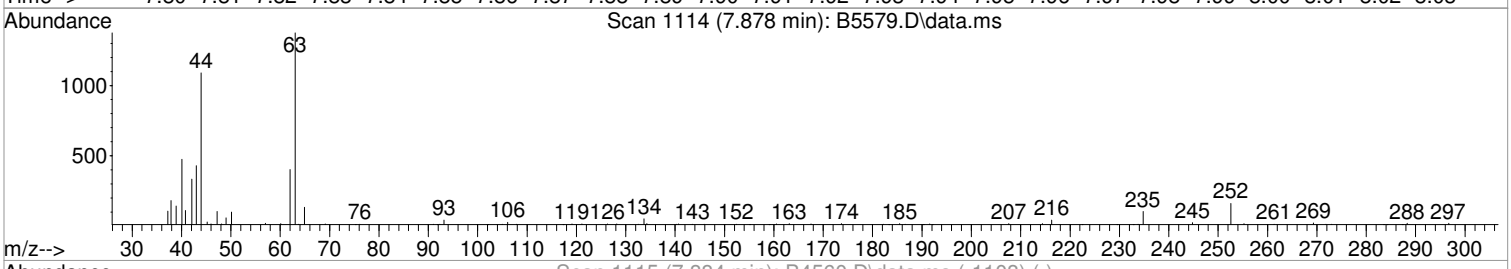
09/08/22

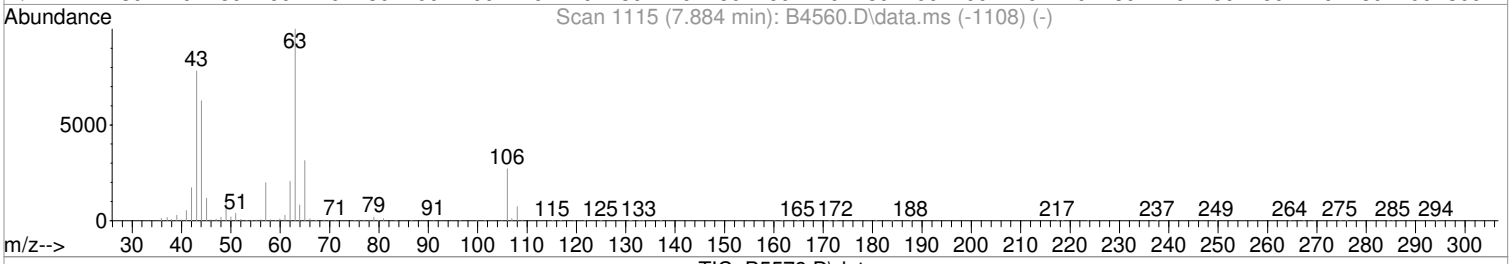
# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5579.D
Acq On : 8 Sep 2022 10:56 am
Operator : F.NAEGLER
Sample : 1 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 08 14:25:16 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration




TIC: B5579.D\data.ms

(62) 2-Chloroethylvinyl Ether

7.878min (-0.006) 0.86 ug/L m

response 2187

| Ion | Exp% | Act% |
|---|---|---|
| 63.00 | 100 | 100 |
| 106.00 | 27.00 | 1.96# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

After

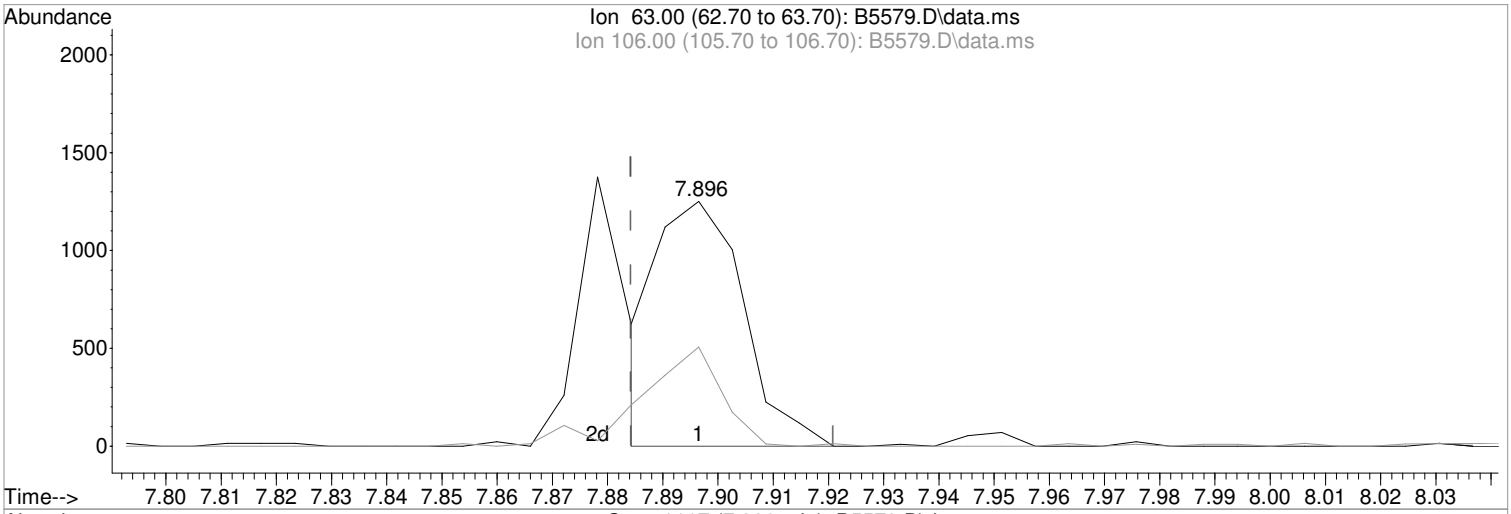
Poor integration.

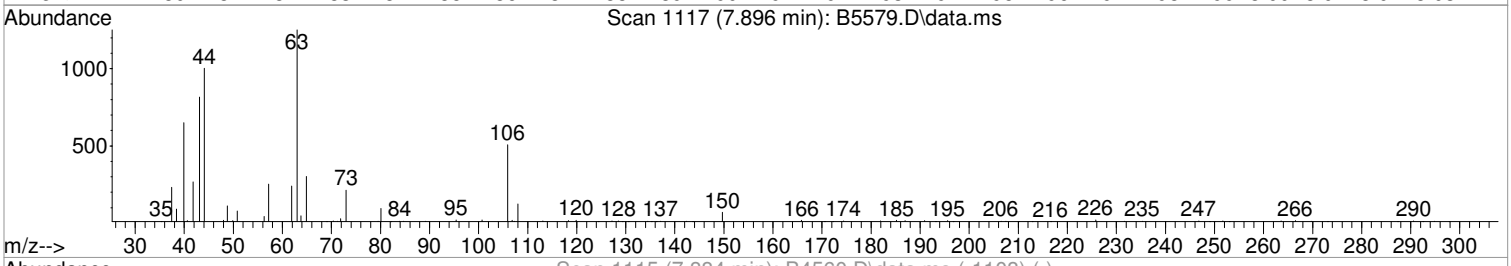
09/08/22

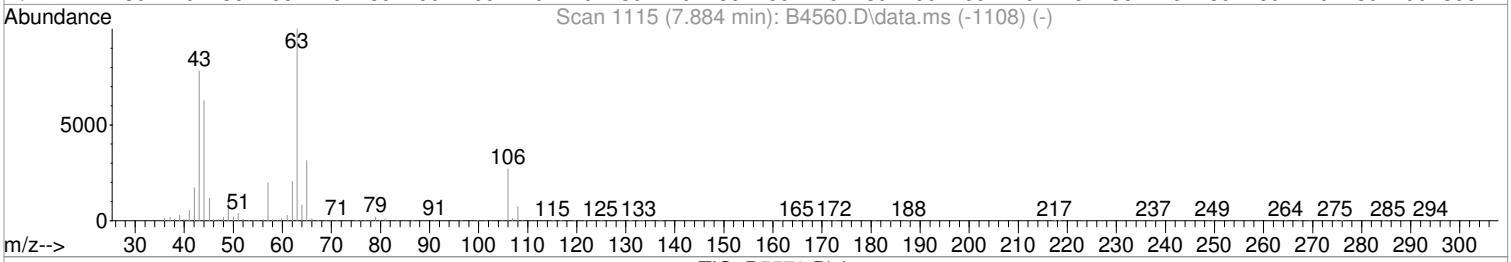
# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5579.D
Acq On : 8 Sep 2022 10:56 am
Operator : F.NAEGLER
Sample : 1 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 08 14:25:16 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration




TIC: B5579.D\data.ms

(62) 2-Chloroethylvinyl Ether

7.896min (+0.012) 0.54 ug/L

response 1360

| Ion | Exp% | Act% |
|---|---|---|
| 63.00 | 100 | 100 |
| 106.00 | 27.00 | 40.53 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

Before

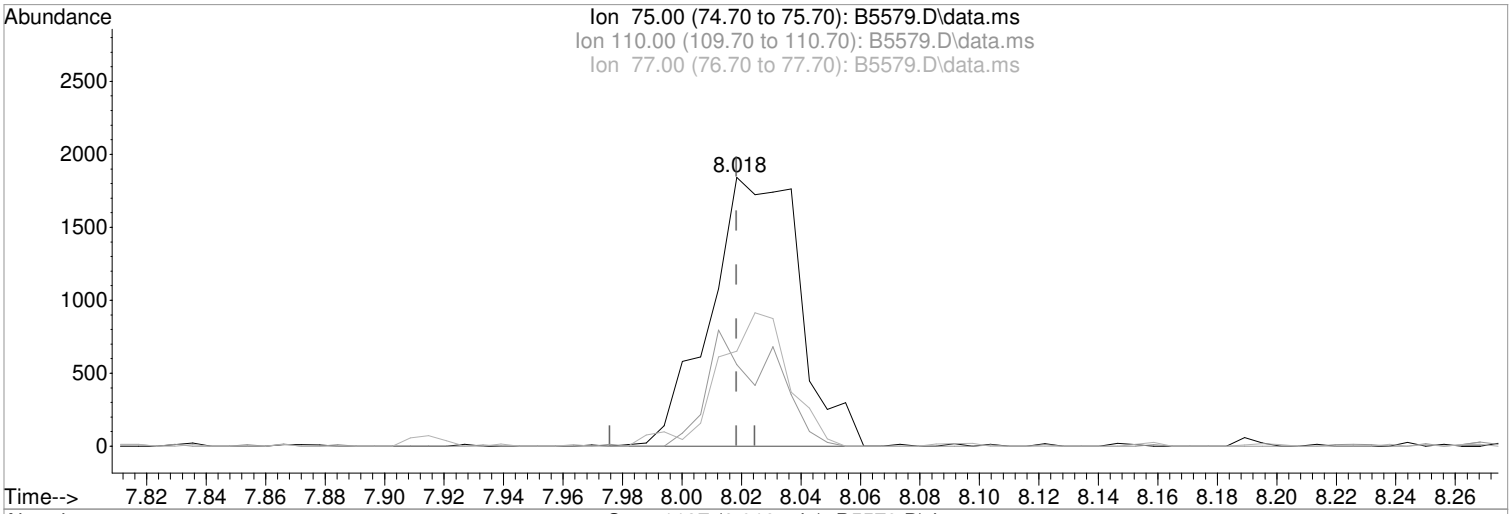
09/08/22

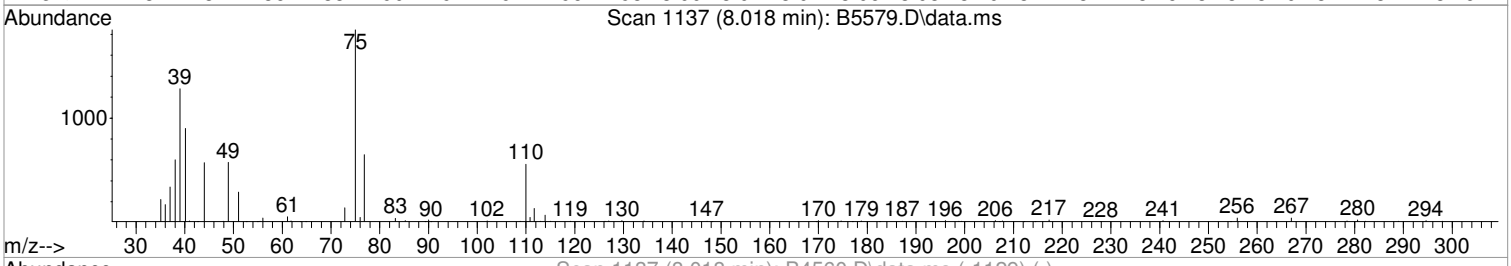
1st FN 09/08/22
2nd 09/12/22

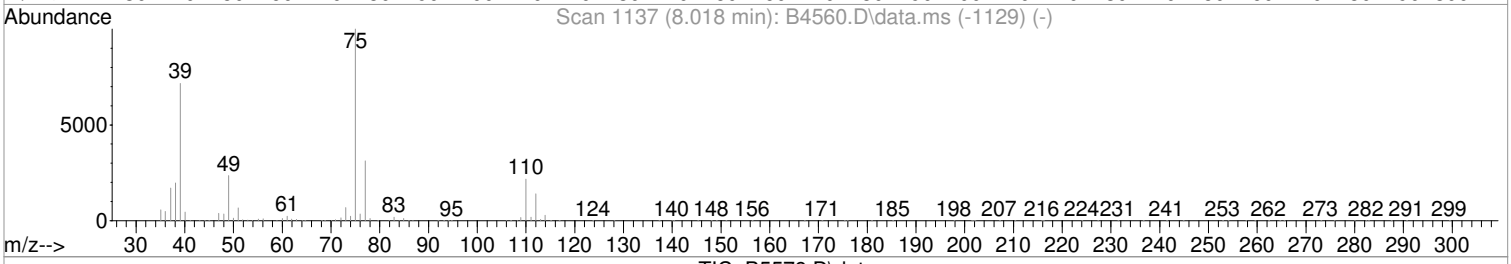
# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5579.D
Acq On : 8 Sep 2022 10:56 am
Operator : F.NAEGLER
Sample : 1 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 08 14:25:16 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration




TIC: B5579.D\data.ms

(63) cis-1,3-Dichloropropene (P)

8.018min (+0.000) 0.76 ug/L m

response 3847

| Ion | Exp% | Act% |
|---|---|---|
| 75.00 | 100 | 100 |
| 110.00 | 21.80 | 30.33 |
| 77.00 | 31.20 | 35.32 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

After

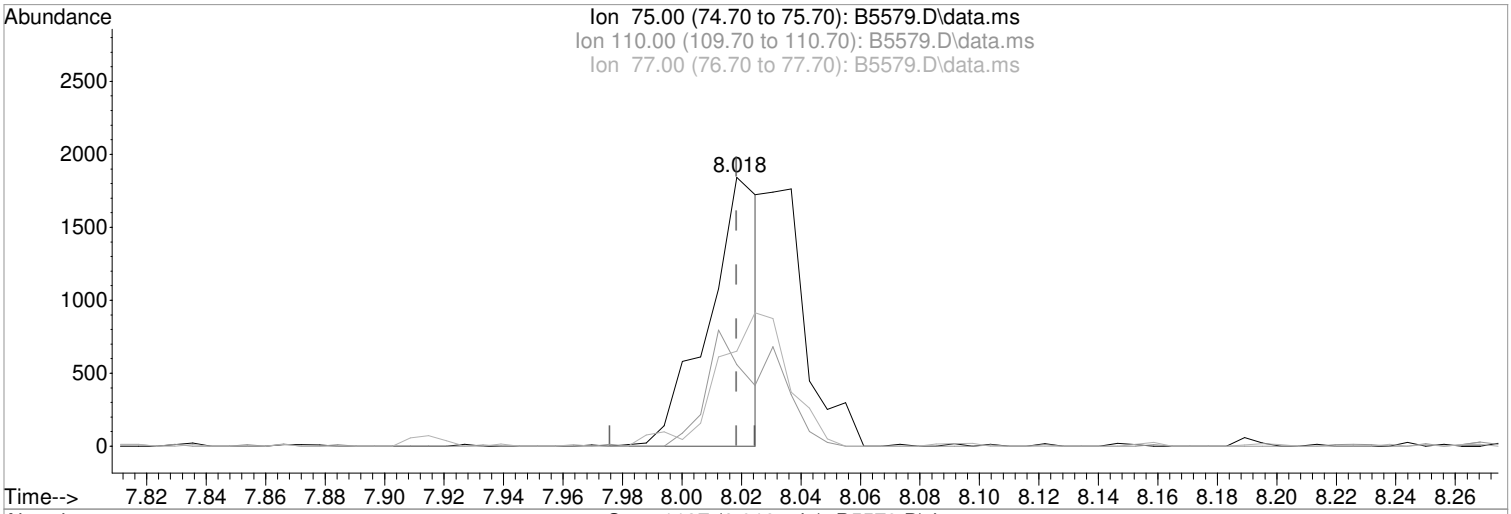
Poor integration.

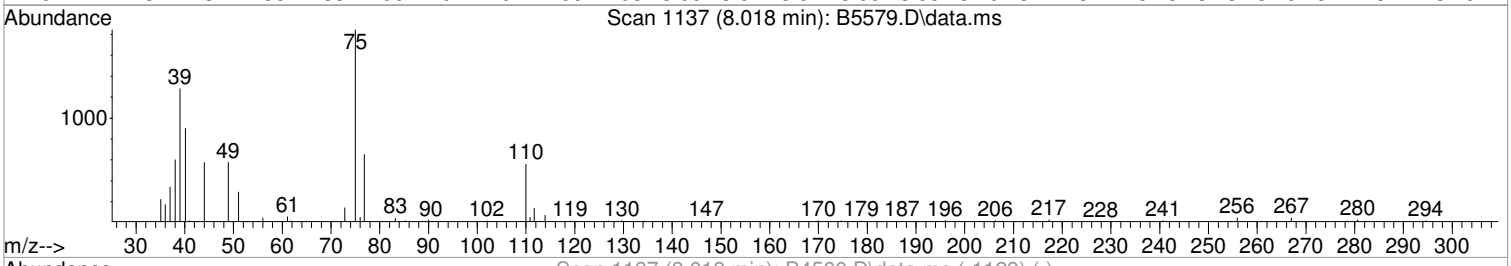
09/08/22

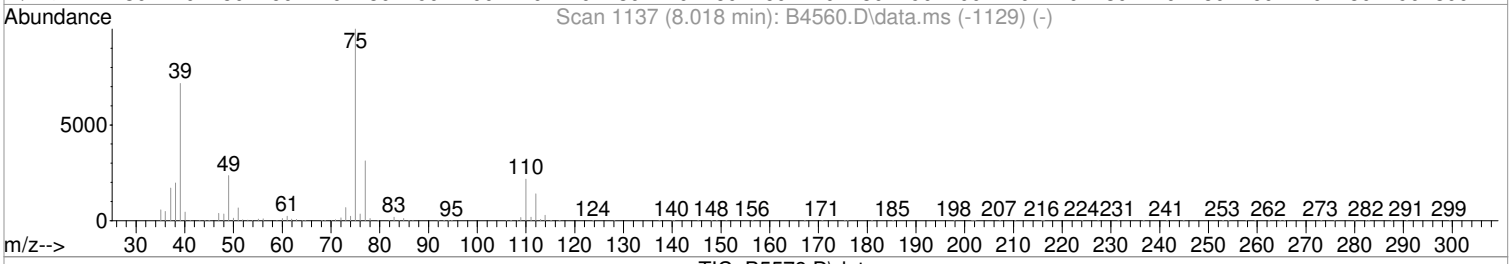
# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5579.D
Acq On : 8 Sep 2022 10:56 am
Operator : F.NAEGLER
Sample : 1 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 08 14:25:16 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration




TIC: B5579.D\data.ms

(63) cis-1,3-Dichloropropene (P)

8.018min (+0.000) 0.43 ug/L

response 2199

| Ion | Exp% | Act% |
|---|---|---|
| 75.00 | 100 | 100 |
| 110.00 | 21.80 | 30.33 |
| 77.00 | 31.20 | 35.32 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

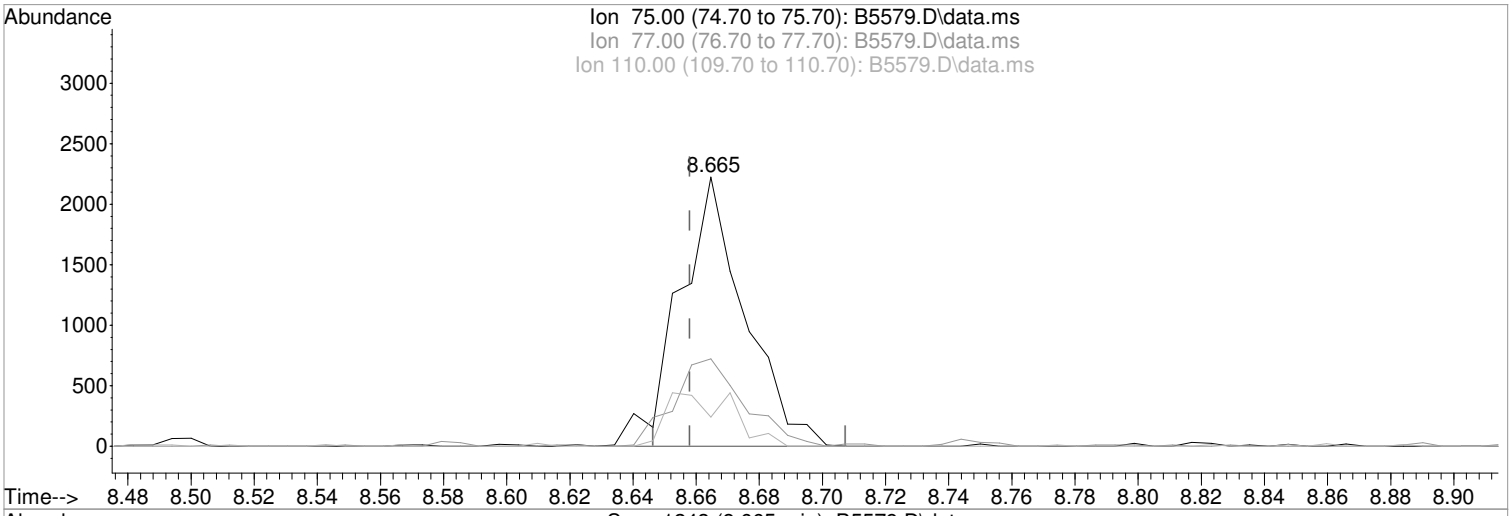
Before

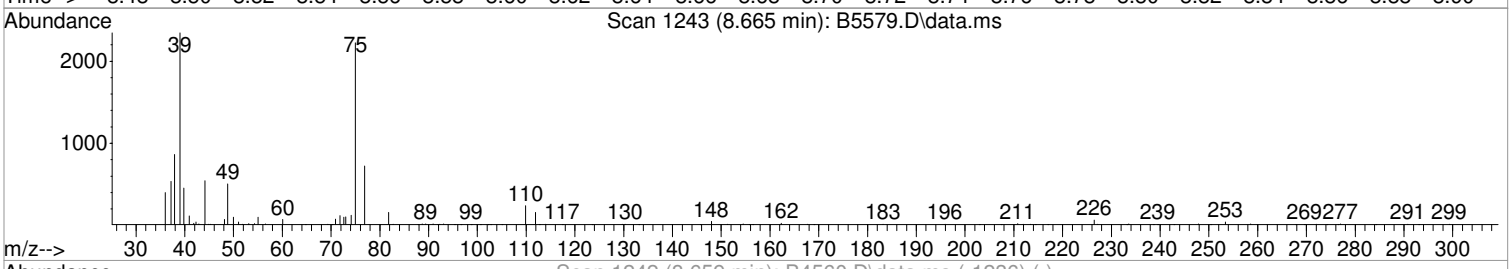
09/08/22

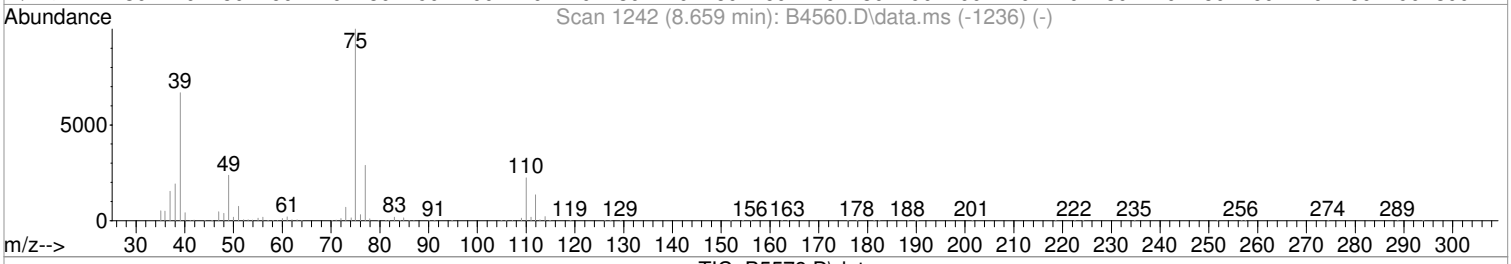
# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5579.D
Acq On : 8 Sep 2022 10:56 am
Operator : F.NAEGLER
Sample : 1 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 08 14:25:16 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration




TIC: B5579.D\data.ms

(67) trans-1,3-Dichloropropene (P)

8.665min (+0.007) 0.73 ug/L m

response 3210

| Ion | Exp% | Act% |
|---|---|---|
| 75.00 | 100 | 100 |
| 77.00 | 28.90 | 32.52 |
| 110.00 | 22.40 | 10.89 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

After

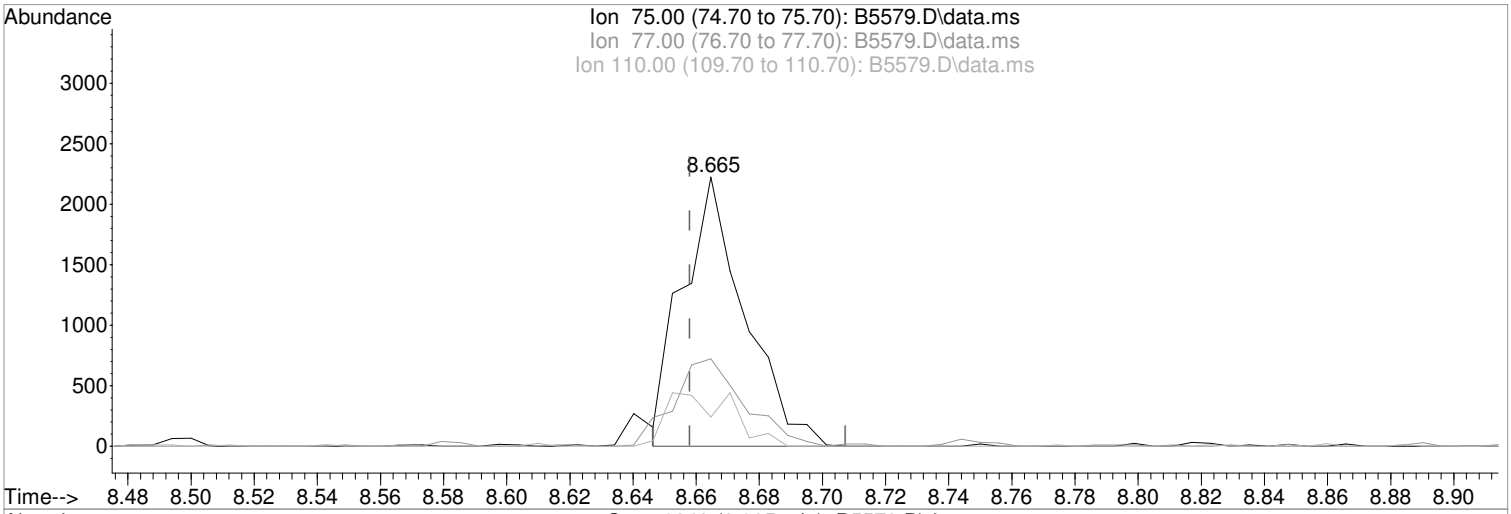
Poor integration.

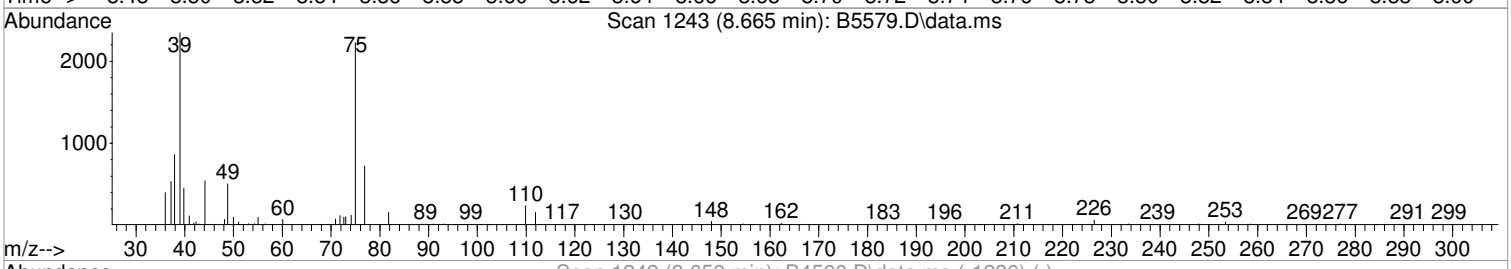
09/08/22

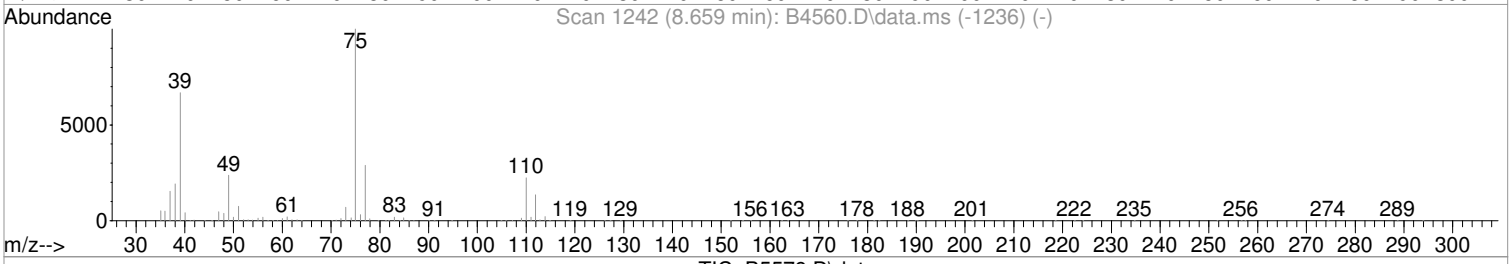
# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5579.D
Acq On : 8 Sep 2022 10:56 am
Operator : F.NAEGLER
Sample : 1 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 08 14:25:16 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration




TIC: B5579.D\data.ms

(67) trans-1,3-Dichloropropene (P)

8.665min (+0.007) 0.70 ug/L

response 3050

| Ion | Exp% | Act% |
|---|---|---|
| 75.00 | 100 | 100 |
| 77.00 | 28.90 | 32.52 |
| 110.00 | 22.40 | 10.89 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

Before

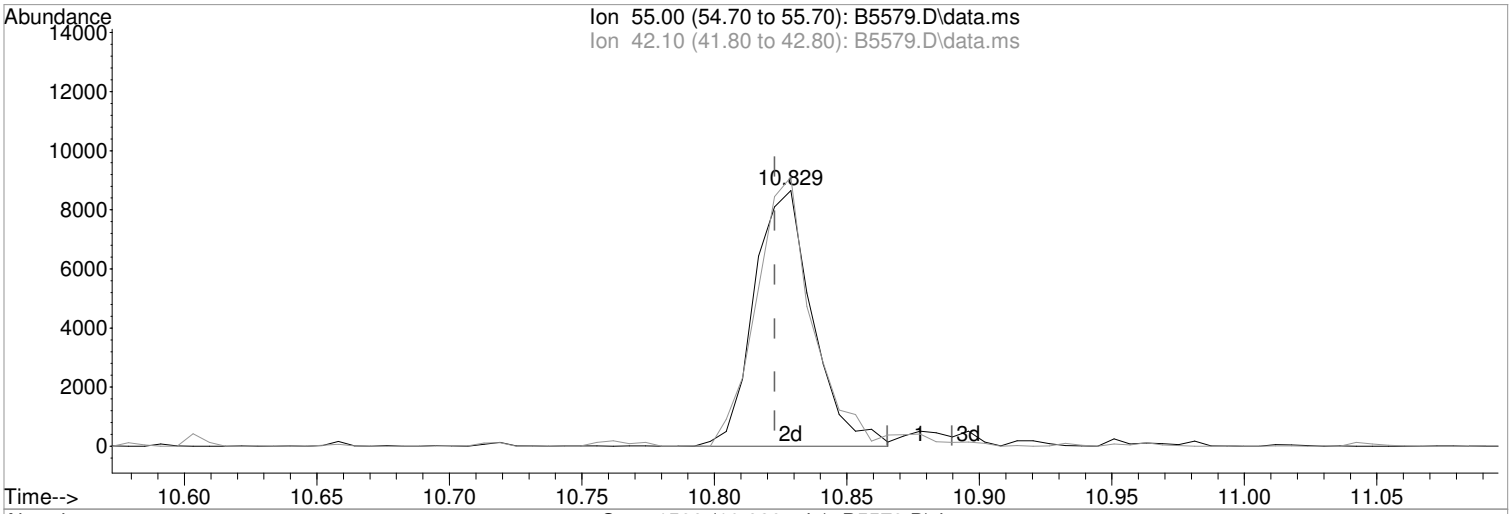
09/08/22

1st FN 09/08/22
2nd 09/12/22

# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5579.D
Acq On : 8 Sep 2022 10:56 am
Operator : F.NAEGLER
Sample : 1 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 08 14:25:16 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration




TIC: B5579.D\data.ms

(89) Cyclohexanone

10.829min (+0.006) 17.47 ug/L m

response 13309

| Ion | Exp% | Act% |
|---|---|---|
| 55.00 | 100 | 100 |
| 42.10 | 84.00 | 105.21# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

After

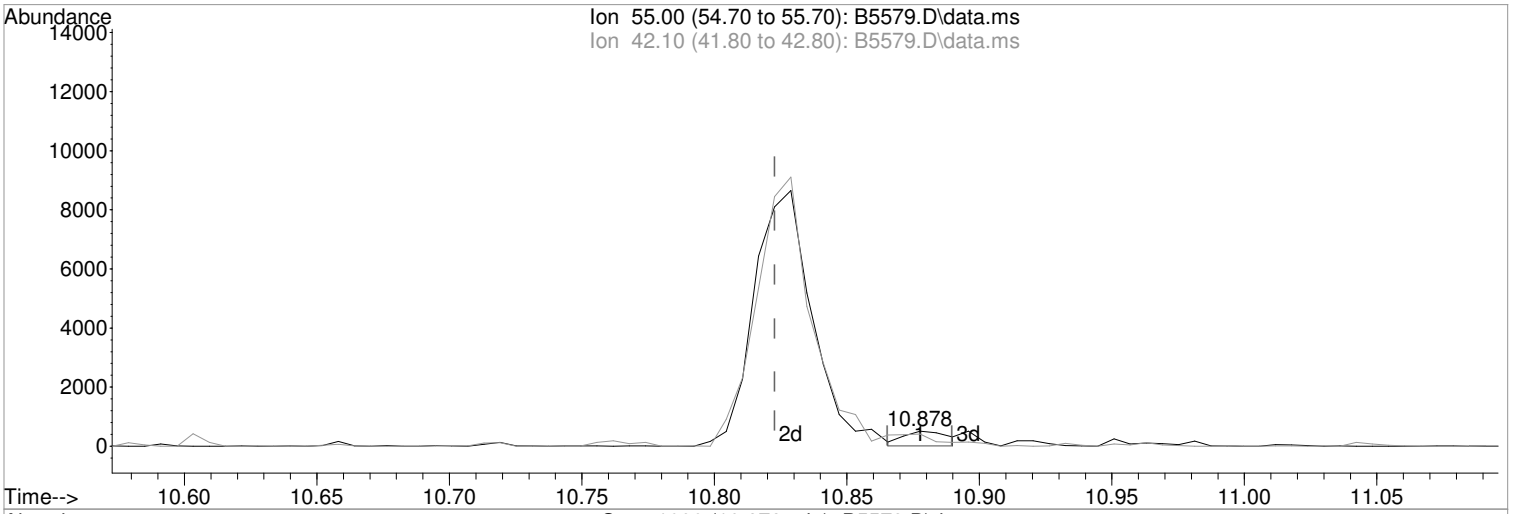
Peak not found.

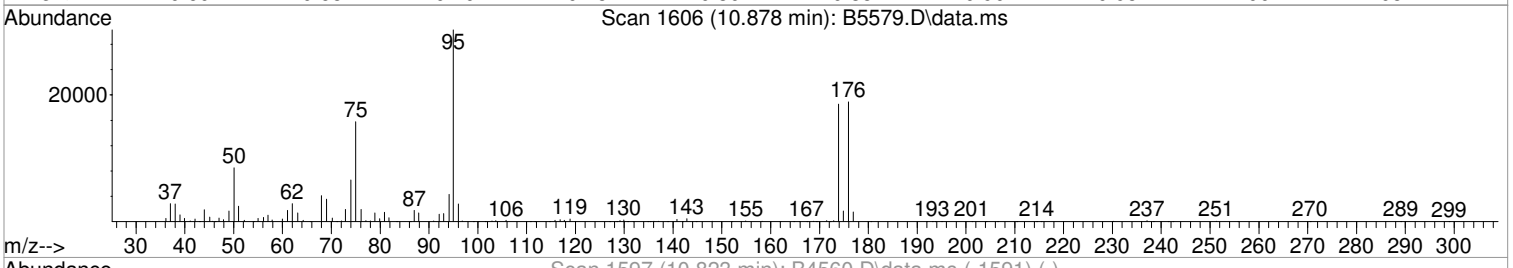
09/08/22

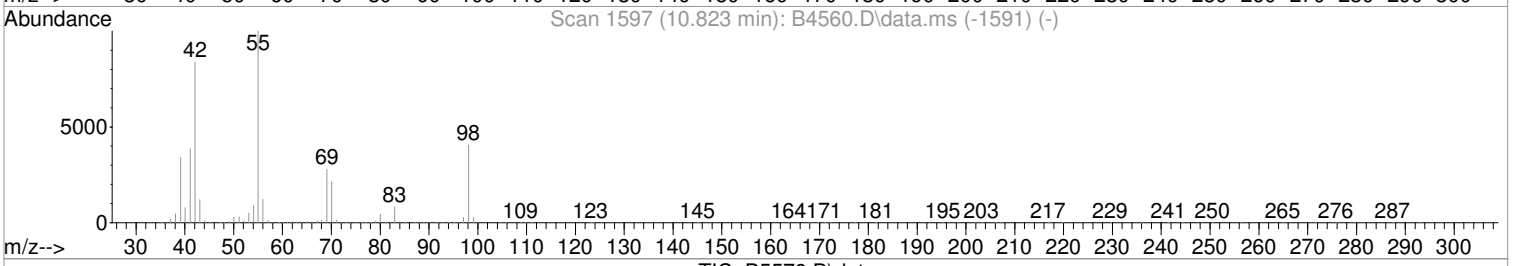
# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5579.D
Acq On : 8 Sep 2022 10:56 am
Operator : F.NAEGLER
Sample : 1 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 08 14:25:16 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration




TIC: B5579.D\data.ms

(89) Cyclohexanone

10.878min (+0.055) 0.77 ug/L

response 584

| Ion | Exp% | Act% |
|---|---|---|
| 55.00 | 100 | 100 |
| 42.10 | 84.00 | 80.51 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

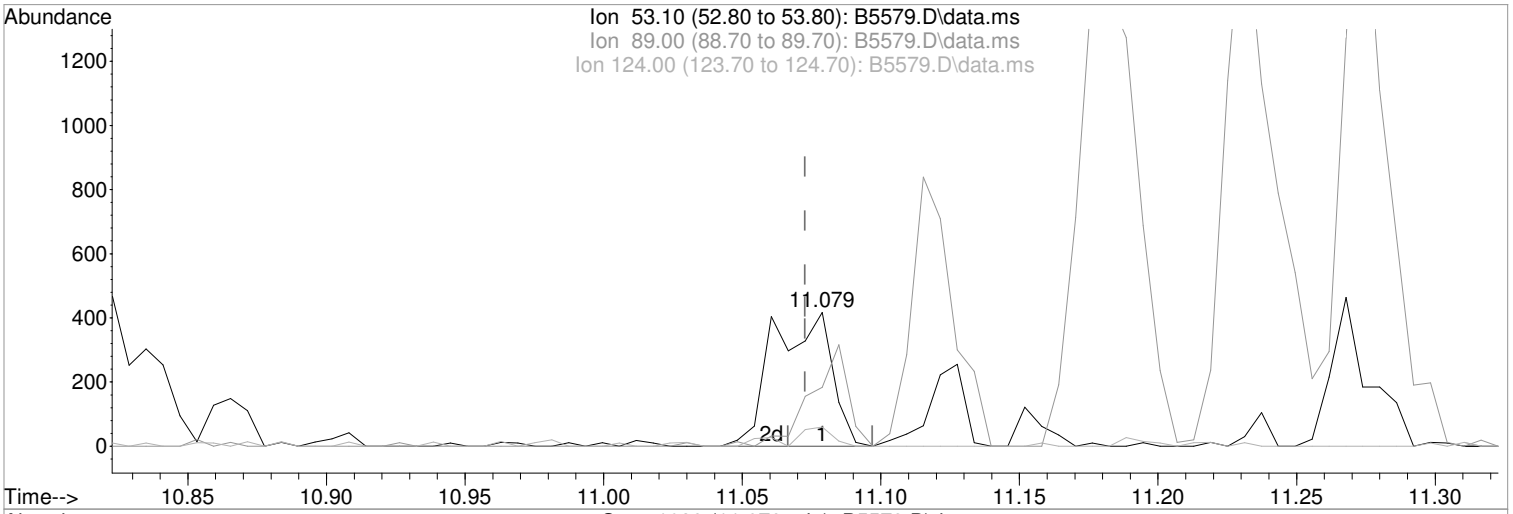
Before

09/08/22

# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5579.D
Acq On : 8 Sep 2022 10:56 am
Operator : F.NAEGLER
Sample : 1 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 08 14:25:16 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration




TIC: B5579.D\data.ms

(90) trans-1,4-Dichloro-2-Butene

11.079min (+0.006) 0.42 ug/L m

response 613

| Ion | Exp% | Act% |
|---|---|---|
| 53.10 | 100 | 100 |
| 89.00 | 45.20 | 43.88 |
| 124.00 | 14.80 | 14.39 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

After

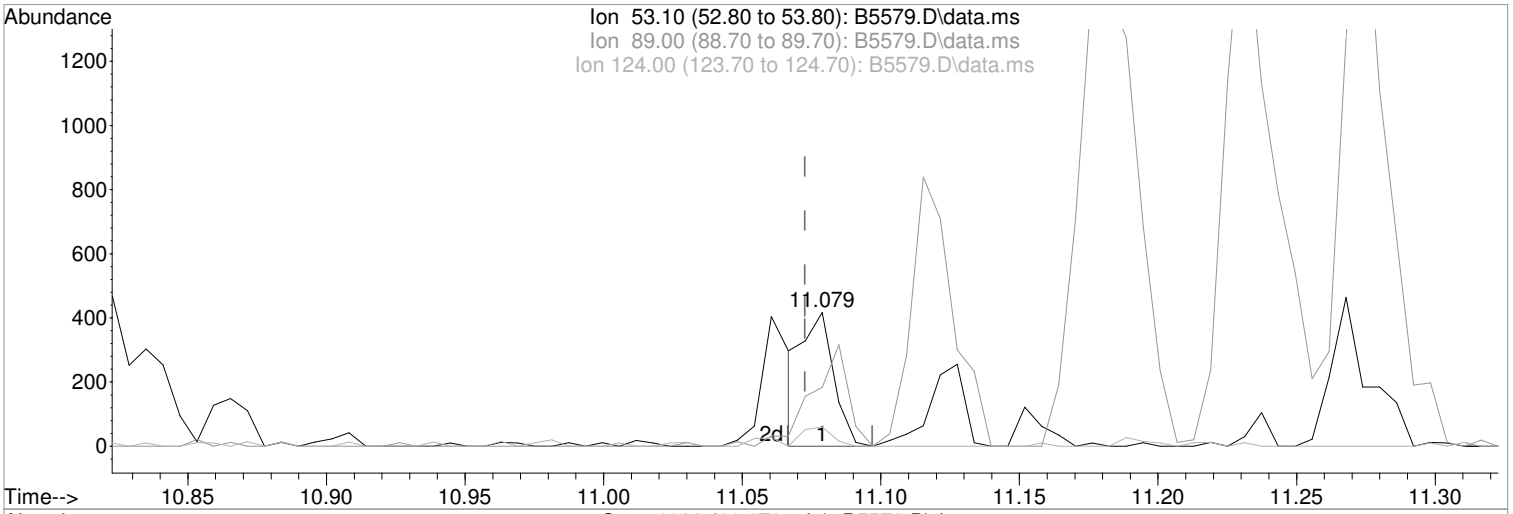
Poor integration.

09/08/22

# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5579.D
Acq On : 8 Sep 2022 10:56 am
Operator : F.NAEGLER
Sample : 1 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 08 14:25:16 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration




TIC: B5579.D\data.ms

(90) trans-1,4-Dichloro-2-Butene

11.079min (+0.006) 0.22 ug/L

response 327

| Ion | Exp% | Act% |
|---|---|---|
| 53.10 | 100 | 100 |
| 89.00 | 45.20 | 43.88 |
| 124.00 | 14.80 | 14.39 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

Before

09/08/22

# Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5579.D
Acq On : 8 Sep 2022 10:56 am
Operator : F.NAEGLER
Sample : 1 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 08 14:28:58 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Pentafluorobenzene | 5.397 | 168 | 379232 | 50.00 | ug/L | | 0.00 |
| 42) 1,4-Difluorobenzene | 6.494 | 114 | 631629 | 50.00 | ug/L | | 0.00 |
| 71) d5-Chlorobenzene | 9.811 | 117 | 553489 | 50.00 | ug/L | | 0.00 |
| 91) 1,4-Dichlorobenzene-d4 | 11.859 | 152 | 258247 | 50.00 | ug/L | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 44) surr4,Dibrflmethane | 5.251 | 113 | 49262 | 13.44 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 116 | | Recovery = 26.88%# | | | | |
| 47) surr1,1,2-dichloroetha... | 5.787 | 65 | 60075 | 12.43 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 73 - 125 | | Recovery = 24.86%# | | | | |
| 65) SURR3,Toluene-d8 | 8.317 | 98 | 175615 | 12.37 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 87 - 121 | | Recovery = 24.74%# | | | | |
| 70) SURR2,BFB | 10.884 | 95 | 60762 | 10.84 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 85 - 122 | | Recovery = 21.68%# | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Chlorodifluoromethane | 1.166 | 51 | 4014 | 0.91 | ug/L | | 63 |
| 3) Dichlorodifluoromethane | 1.148 | 85 | 3738 | 0.90 | ug/L | | 79 |
| 4) Chloromethane | 1.288 | 50 | 5006 | 1.07 | ug/L | | 66 |
| 5) Vinyl Chloride | 1.355 | 62 | 4605 | 0.96 | ug/L | | 86 |
| 6) Bromomethane | 1.587 | 94 | 4786 | 2.09 | ug/L | # | 71 |
| 7) Chloroethane | 1.666 | 64 | 3459 | 1.25 | ug/L | | 84 |
| 8) Freon 21 | 1.812 | 67 | 7600 | 1.18 | ug/L | | 78 |
| 9) Trichlorofluoromethane | 1.861 | 101 | 6482 | 1.38 | ug/L | # | 65 |
| 10) Diethyl Ether | 2.087 | 59 | 3357 | 0.99 | ug/L | | 97 |
| 11) Freon 123a | 2.099 | 67 | 5601 | 1.38 | ug/L | | 87 |
| 12) Freon 123 | 2.148 | 83 | 4461 | 1.01 | ug/L | # | 58 |
| 13) Acrolein | 2.196 | 56 | 4756 | 5.85 | ug/L | | 98 |
| 14) 1,1-Diclethene | 2.276 | 96 | 3323 | 1.16 | ug/L | # | 82 |
| 15) Freon 113 | 2.282 | 101 | 3957 | 1.34 | ug/L | # | 75 |
| 16) Acetone | 2.324 | 43 | 3850 | 1.80 | ug/L | | 89 |
| 17) 2-Propanol | 2.459 | 45 | 8022 | 19.68 | ug/L | | 93 |
| 18) Iodomethane | 2.416 | 142 | 3230 | 0.66 | ug/L | | 76 |
| 19) Carbon Disulfide | 2.483 | 76 | 10151 | 1.16 | ug/L | | 96 |
| 20) Acetonitrile | 2.599 | 41 | 5110 | 6.77 | ug/L | | 82 |
| 21) Allyl Chloride | 2.623 | 76 | 2012m | 1.18 | ug/L | | |
| 22) Methyl Acetate | 2.635 | 43 | 6526 | 1.22 | ug/L | | 93 |
| 23) Methylene Chloride | 2.733 | 84 | 4677 | 1.34 | ug/L | # | 84 |
| 24) TBA | 2.861 | 59 | 8724 | 14.98 | ug/L | | 92 |
| 25) Acrylonitrile | 2.995 | 53 | 10633 | 5.30 | ug/L | | 99 |
| 26) Methyl-t-Butyl Ether | 3.032 | 73 | 11480 | 1.08 | ug/L | | 96 |
| 27) trans-1,2-Dichloroethene | 3.032 | 96 | 4329 | 1.40 | ug/L | # | 82 |
| 28) 1,1-Diclethane | 3.531 | 63 | 6309 | 0.99 | ug/L | | 82 |
| 29) Vinyl Acetate | 3.623 | 86 | 441m | 0.90 | ug/L | | |
| 30) DIPE | 3.666 | 45 | 13386 | 0.95 | ug/L | | 92 |
| 31) 2-Chloro-1,3-Butadiene | 3.653 | 53 | 7075m | 1.23 | ug/L | | |
| 32) ETBE | 4.196 | 59 | 10012 | 0.87 | ug/L | | 95 |
| 33) 2,2-Dichloropropane | 4.361 | 77 | 2921 | 0.77 | ug/L | | 78 |
| 34) cis-1,2-Dichloroethene | 4.379 | 96 | 4662 | 1.31 | ug/L | # | 81 |
| 35) 2-Butanone | 4.434 | 43 | 4133 | 1.29 | ug/L | | 87 |
| 36) Propionitrile | 4.519 | 54 | 4295 | 5.16 | ug/L | | 86 |
| 37) Bromochloromethane | 4.769 | 130 | 3057m | 1.27 | ug/L | | |
| 38) Methacrylonitrile | 4.787 | 67 | 1963 | 0.99 | ug/L | # | 71 |
| 39) Tetrahydrofuran | 4.867 | 42 | 3088 | 1.59 | ug/L | # | 48 |
| 40) Chloroform | 4.952 | 83 | 6836 | 1.18 | ug/L | | 87 |

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5579.D
Acq On : 8 Sep 2022 10:56 am
Operator : F.NAEGLER
Sample : 1 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 08 14:28:58 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) 1,1,1-Trichloroethane | 5.257 | 97 | 4531m | 1.01 | ug/L | | |
| 43) Cyclohexane | 5.330 | 41 | 5491m | 1.13 | ug/L | | |
| 45) Carbontetrachloride | 5.537 | 117 | 3567 | 0.92 | ug/L | # | 73 |
| 46) 1,1-Dichloropropene | 5.549 | 75 | 4855 | 1.01 | ug/L | # | 76 |
| 48) Benzene | 5.872 | 78 | 14586 | 1.01 | ug/L | | 92 |
| 49) 1,2-Dichloroethane | 5.915 | 62 | 6410m | 1.08 | ug/L | | |
| 50) Iso-Butyl Alcohol | 5.885 | 43 | 4635 | 14.34 | ug/L | | 86 |
| 51) TAME | 6.110 | 73 | 9785 | 0.90 | ug/L | | 89 |
| 52) n-Heptane | 6.366 | 43 | 5268 | 0.98 | ug/L | | 89 |
| 53) 1-Butanol | 6.866 | 56 | 4234 | 25.57 | ug/L | | 87 |
| 54) Trichloroethene | 6.830 | 130 | 4220 | 1.11 | ug/L | # | 81 |
| 55) Methylcyclohexane | 7.061 | 55 | 4816m | 0.90 | ug/L | | |
| 56) 1,2-Diclpropane | 7.104 | 63 | 3853 | 0.94 | ug/L | | 86 |
| 57) Dibromomethane | 7.250 | 93 | 3495 | 1.37 | ug/L | | 83 |
| 58) 1,4-Dioxane | 7.311 | 88 | 1468 | 19.89 | ug/L | # | 41 |
| 59) Methyl Methacrylate | 7.342 | 69 | 2585 | 0.84 | ug/L | # | 85 |
| 60) Bromodichloromethane | 7.470 | 83 | 4685 | 1.05 | ug/L | | 91 |
| 61) 2-Nitropropane | 7.762 | 41 | 2631 | 2.38 | ug/L | # | 62 |
| 62) 2-Chloroethylvinyl Ether | 7.878 | 63 | 2187m | 0.86 | ug/L | | |
| 63) cis-1,3-Dichloropropene | 8.018 | 75 | 3847m | 0.76 | ug/L | | |
| 64) 4-Methyl-2-pentanone | 8.232 | 43 | 5644 | 0.88 | ug/L | | 83 |
| 66) Toluene | 8.396 | 91 | 16656 | 1.08 | ug/L | | 96 |
| 67) trans-1,3-Dichloropropene | 8.665 | 75 | 3210m | 0.73 | ug/L | | |
| 68) Ethyl Methacrylate | 8.799 | 69 | 4034 | 0.74 | ug/L | # | 79 |
| 69) 1,1,2-Trichloroethane | 8.854 | 97 | 3571 | 1.04 | ug/L | # | 69 |
| 72) Tetrachloroethene | 8.988 | 164 | 3276 | 1.15 | ug/L | # | 77 |
| 73) 2-Hexanone | 9.146 | 43 | 3494 | 0.76 | ug/L | | 89 |
| 74) 1,3-Dichloropropane | 9.024 | 76 | 6748 | 1.08 | ug/L | | 81 |
| 75) Dibromochloromethane | 9.244 | 129 | 3590 | 1.12 | ug/L | | 95 |
| 76) N-Butyl Acetate | 9.305 | 43 | 7727 | 0.85 | ug/L | | 84 |
| 77) 1,2-Dibromoethane | 9.347 | 107 | 3595 | 1.01 | ug/L | | 90 |
| 78) 3-Chlorobenzotrifluoride | 9.860 | 180 | 5247 | 0.94 | ug/L | | 99 |
| 79) Chlorobenzene | 9.835 | 112 | 9987 | 0.99 | ug/L | | 92 |
| 80) 4-Chlorobenzotrifluoride | 9.914 | 180 | 4305 | 0.87 | ug/L | | 83 |
| 81) 1,1,1,2-Tetrachloroethane | 9.927 | 131 | 3255 | 1.07 | ug/L | # | 74 |
| 82) Ethylbenzene | 9.957 | 106 | 5393 | 1.03 | ug/L | # | 77 |
| 83) (m+p)Xylene | 10.067 | 106 | 12926 | 2.06 | ug/L | # | 73 |
| 84) o-Xylene | 10.433 | 106 | 6248 | 0.99 | ug/L | # | 75 |
| 85) Styrene | 10.445 | 104 | 10317 | 0.98 | ug/L | | 84 |
| 86) Bromoform | 10.591 | 173 | 2199 | 1.07 | ug/L | | 84 |
| 87) 2-Chlorobenzotrifluoride | 10.676 | 180 | 5031 | 0.92 | ug/L | | 92 |
| 88) Isopropylbenzene | 10.762 | 105 | 15560 | 1.02 | ug/L | | 91 |
| 89) Cyclohexanone | 10.829 | 55 | 13309m | 17.47 | ug/L | | |
| 90) trans-1,4-Dichloro-2-B... | 11.079 | 53 | 613m | 0.42 | ug/L | | |
| 92) 1,1,2,2-Tetrachloroethane | 11.024 | 83 | 5773 | 1.30 | ug/L | | 80 |
| 93) Bromobenzene | 11.012 | 156 | 4490 | 1.12 | ug/L | # | 69 |
| 94) 1,2,3-Trichloropropane | 11.042 | 110 | 1810 | 1.20 | ug/L | # | 38 |
| 95) n-Propylbenzene | 11.121 | 91 | 19261 | 1.15 | ug/L | | 94 |
| 96) 2-Chlorotoluene | 11.182 | 91 | 11749 | 1.12 | ug/L | | 99 |
| 97) 3-Chlorotoluene | 11.231 | 91 | 11803 | 1.05 | ug/L | | 90 |
| 98) 4-Chlorotoluene | 11.274 | 91 | 13623 | 1.14 | ug/L | | 89 |
| 99) 1,3,5-Trimethylbenzene | 11.268 | 105 | 13808 | 1.14 | ug/L | | 86 |
| 100) tert-Butylbenzene | 11.542 | 119 | 10704 | 1.02 | ug/L | | 96 |
| 101) 1,2,4-Trimethylbenzene | 11.585 | 105 | 12792 | 1.05 | ug/L | | 95 |
| 102) 3,4-Dichlorobenzotrifl... | 11.640 | 214 | 3540 | 0.92 | ug/L | # | 40 |
| 103) sec-Butylbenzene | 11.725 | 105 | 14741 | 1.02 | ug/L | | 89 |

# Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5579.D
Acq On : 8 Sep 2022 10:56 am
Operator : F.NAEGLER
Sample : 1 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 08 14:28:58 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration

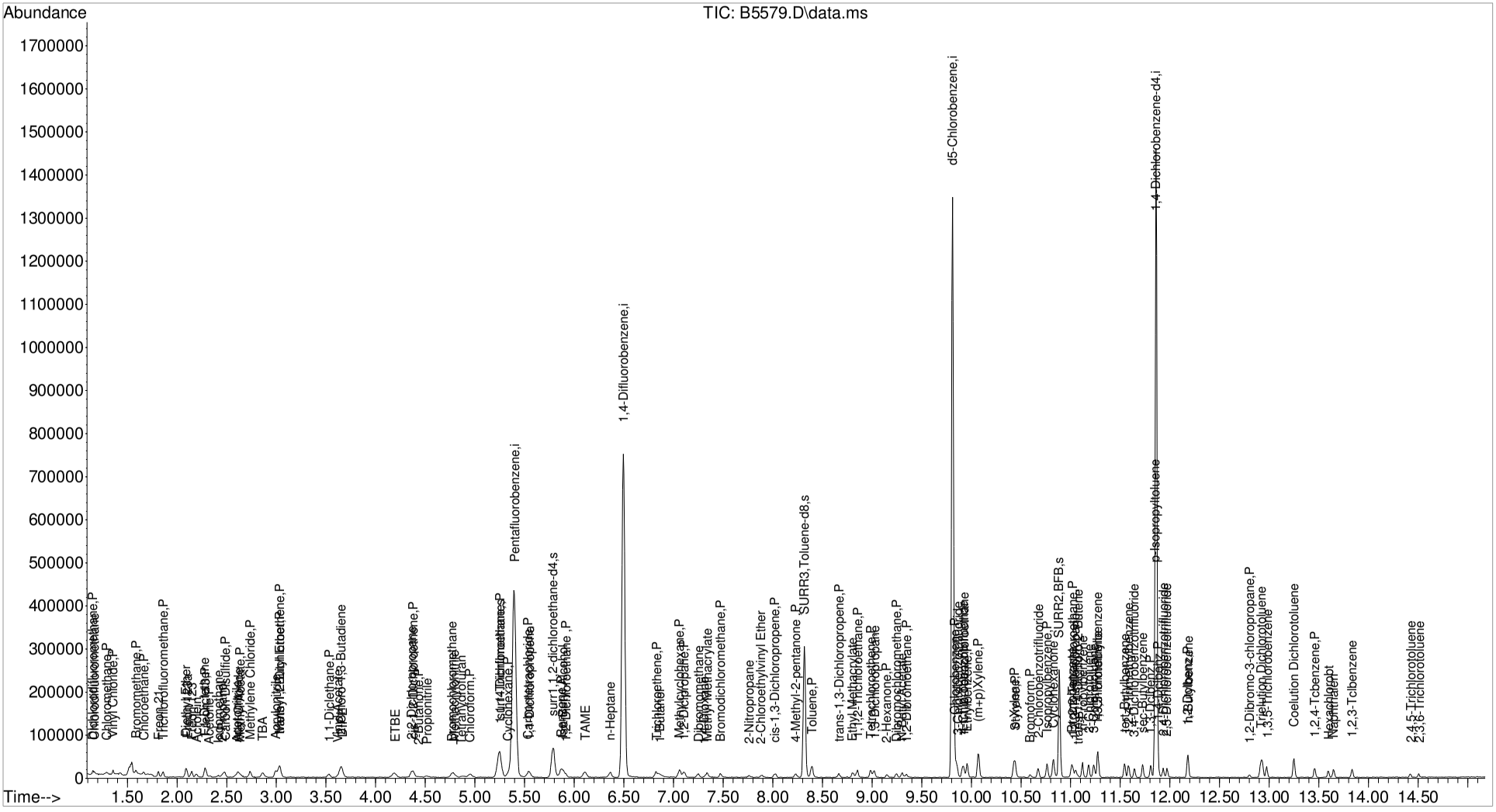
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 104) p-Isopropyltoluene | 11.847 | 119 | 12513 | 1.00 | ug/L | | 95 |
| 105) 1,3-Dclbenz | 11.804 | 146 | 7518 | 1.03 | ug/L | | 94 |
| 106) 1,4-Dclbenz | 11.884 | 146 | 8871 | 1.21 | ug/L | | 94 |
| 107) 2,4-Dichlorobenzotrifl... | 11.932 | 214 | 3225 | 0.93 | ug/L | | 89 |
| 108) 2,5-Dichlorobenzotrifl... | 11.969 | 214 | 3733 | 0.96 | ug/L | | 94 |
| 109) n-Butylbenzene | 12.182 | 91 | 10984 | 1.05 | ug/L | | 93 |
| 110) 1,2-Dclbenz | 12.176 | 146 | 7632 | 1.03 | ug/L | | 96 |
| 111) 1,2-Dibromo-3-chloropr... | 12.804 | 157 | 922 | 1.09 | ug/L | # | 69 |
| 112) Trielution Dichlorotol... | 12.920 | 125 | 18111 | 2.99 | ug/L | | 82 |
| 113) 1,3,5-Trichlorobenzene | 12.981 | 180 | 5332 | 1.00 | ug/L | # | 76 |
| 114) Coelution Dichlorotoluene | 13.249 | 125 | 13602 | 2.11 | ug/L | | 84 |
| 115) 1,2,4-Tcbenzene | 13.462 | 180 | 4784 | 0.98 | ug/L | | 93 |
| 116) Hexachlorobt | 13.597 | 225 | 2142 | 1.13 | ug/L | | 82 |
| 117) Naphthalen | 13.645 | 128 | 10972 | 0.91 | ug/L | | 95 |
| 118) 1,2,3-Tclbenzene | 13.834 | 180 | 4042 | 0.80 | ug/L | | 91 |
| 119) 2,4,5-Trichlorotoluene | 14.426 | 159 | 1728 | 0.63 | ug/L | | 80 |
| 120) 2,3,6-Trichlorotoluene | 14.511 | 159 | 1790 | 0.71 | ug/L | | 89 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5579.D
Acq On : 8 Sep 2022 10:56 am
Operator : F.NAEGLER
Sample : 1 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 08 14:28:58 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration





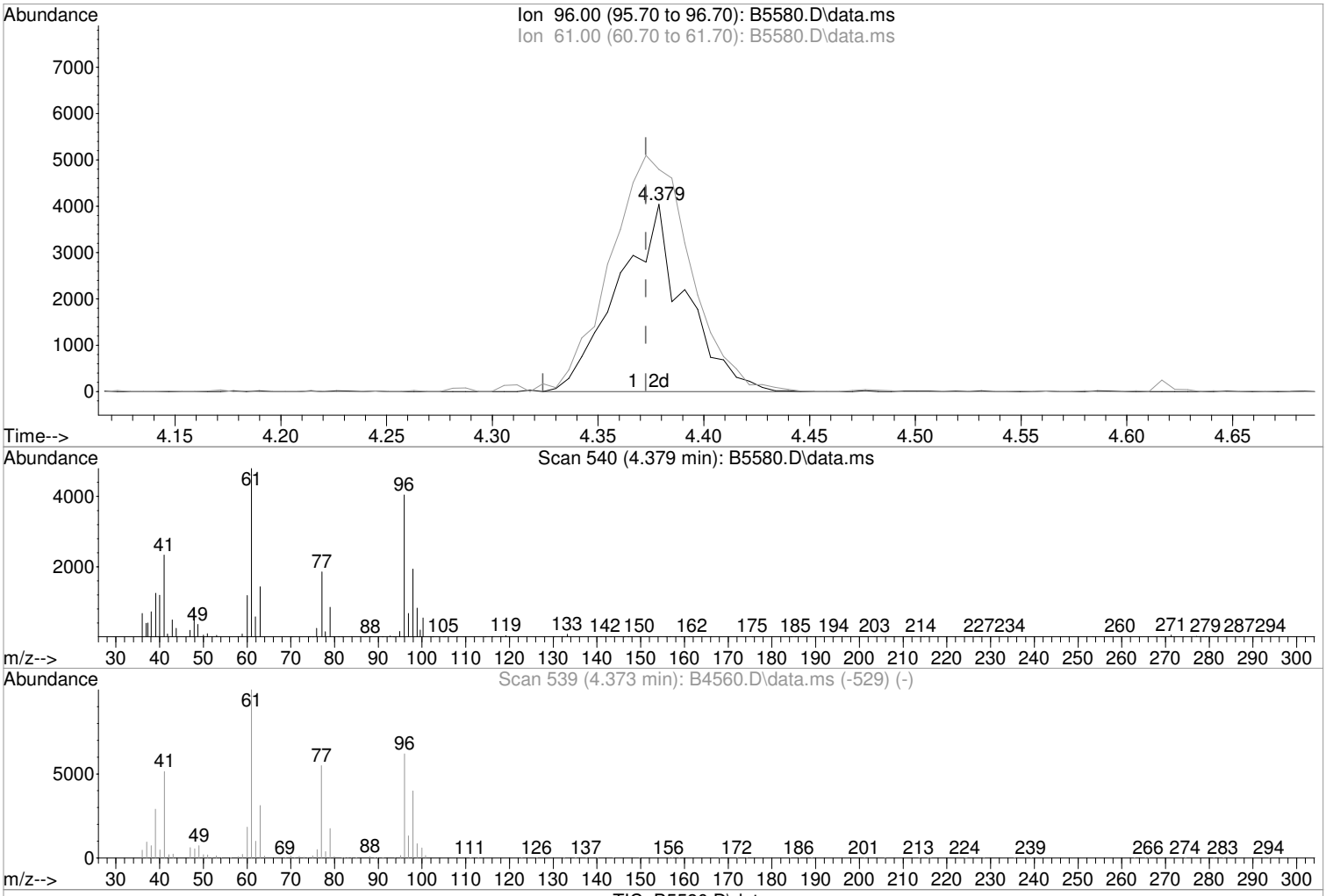

1st FJ 09/08/22
2nd 09/12/22

1st FN 09/08/22
2nd 09/12/22

# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5580.D
Acq On : 8 Sep 2022 11:18 am
Operator : F.NAEGLER
Sample : 2 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 08 14:29:21 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration




TIC: B5580.D\data.ms

(34) cis-1,2-Dichloroethene (P)

4.379min (+0.006) 2.52 ug/L m

response 8934

| Ion | Exp% | Act% |
|---|---|---|
| 96.00 | 100 | 100 |
| 61.00 | 162.10 | 118.58# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

After

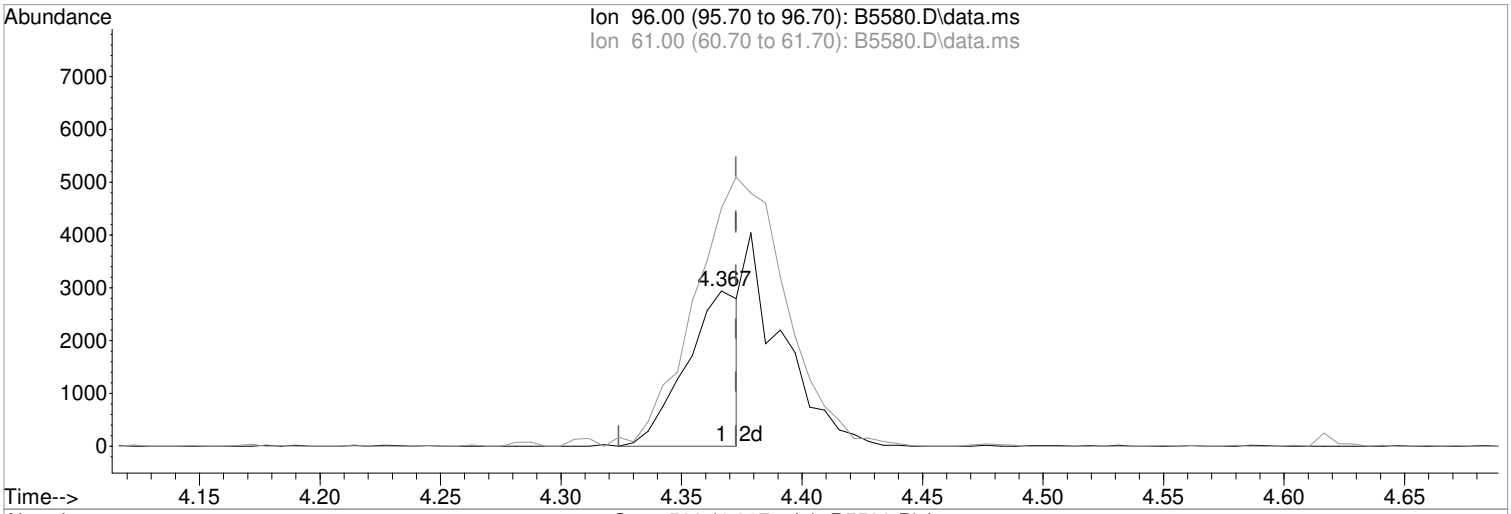
Poor integration.

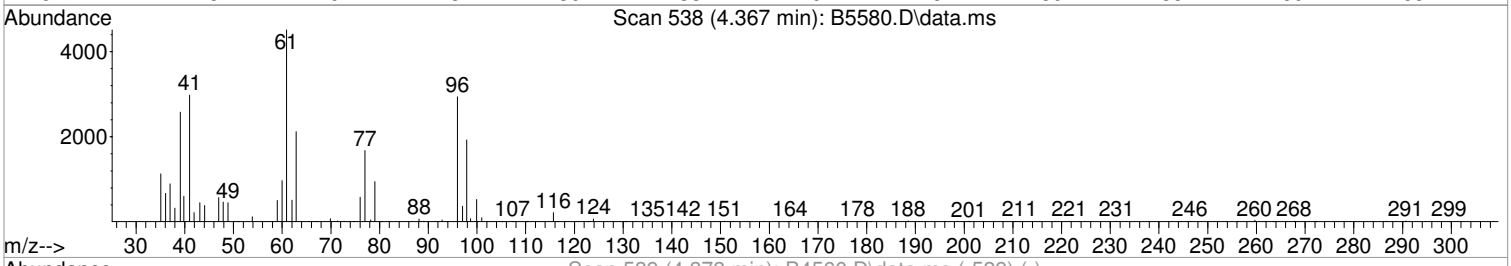
09/08/22

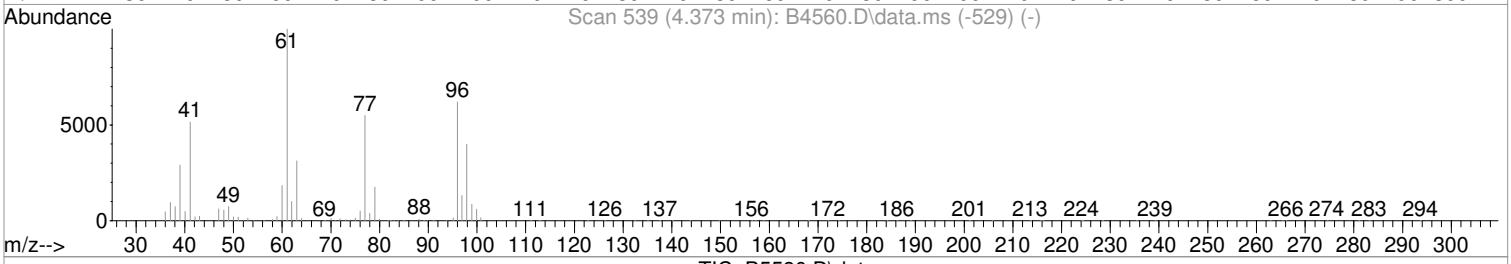
# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5580.D
Acq On : 8 Sep 2022 11:18 am
Operator : F.NAEGLER
Sample : 2 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 08 14:29:21 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration




TIC: B5580.D\data.ms

(34) cis-1,2-Dichloroethene (P)

4.367min (-0.006) 1.28 ug/L

response 4532

| Ion | Exp% | Act% |
|---|---|---|
| 96.00 | 100 | 100 |
| 61.00 | 162.10 | 153.26 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

Before

09/08/22

# Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5580.D
Acq On : 8 Sep 2022 11:18 am
Operator : F.NAEGLER
Sample : 2 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 08 14:29:53 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Pentafluorobenzene | 5.391 | 168 | 377081 | 50.00 | ug/L | | 0.00 |
| 42) 1,4-Difluorobenzene | 6.494 | 114 | 637059 | 50.00 | ug/L | | 0.00 |
| 71) d5-Chlorobenzene | 9.811 | 117 | 557515 | 50.00 | ug/L | | 0.00 |
| 91) 1,4-Dichlorobenzene-d4 | 11.859 | 152 | 263478 | 50.00 | ug/L | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 44) surr4,Dibrflmethane | 5.245 | 113 | 46895 | 12.69 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 116 | | Recovery = 25.38%# | | | | |
| 47) surr1,1,2-dichloroetha... | 5.781 | 65 | 59836 | 12.27 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 73 - 125 | | Recovery = 24.54%# | | | | |
| 65) SURR3,Toluene-d8 | 8.317 | 98 | 174889 | 12.21 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 87 - 121 | | Recovery = 24.42%# | | | | |
| 70) SURR2,BFB | 10.884 | 95 | 63335 | 11.20 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 85 - 122 | | Recovery = 22.40%# | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Chlorodifluoromethane | 1.160 | 51 | 8770 | 1.99 | ug/L | | 100 |
| 3) Dichlorodifluoromethane | 1.154 | 85 | 8202 | 1.99 | ug/L | | 92 |
| 4) Chloromethane | 1.288 | 50 | 10585 | 2.27 | ug/L | | 81 |
| 5) Vinyl Chloride | 1.355 | 62 | 10383 | 2.18 | ug/L | | 98 |
| 6) Bromomethane | 1.587 | 94 | 8636 | 3.79 | ug/L | | 96 |
| 7) Chloroethane | 1.660 | 64 | 7032 | 2.55 | ug/L | | 89 |
| 8) Freon 21 | 1.812 | 67 | 16008 | 2.49 | ug/L | | 91 |
| 9) Trichlorofluoromethane | 1.855 | 101 | 12040 | 2.58 | ug/L | | 98 |
| 10) Diethyl Ether | 2.087 | 59 | 7805 | 2.33 | ug/L | # | 77 |
| 11) Freon 123a | 2.093 | 67 | 9803 | 2.42 | ug/L | | 91 |
| 12) Freon 123 | 2.141 | 83 | 11767 | 2.68 | ug/L | | 92 |
| 13) Acrolein | 2.190 | 56 | 9866 | 12.21 | ug/L | # | 69 |
| 14) 1,1-Diclethene | 2.282 | 96 | 6920 | 2.43 | ug/L | | 99 |
| 15) Freon 113 | 2.282 | 101 | 8088 | 2.75 | ug/L | | 99 |
| 16) Acetone | 2.330 | 43 | 6476 | 3.05 | ug/L | | 87 |
| 17) 2-Propanol | 2.452 | 45 | 13949 | 34.41 | ug/L | | 89 |
| 18) Iodomethane | 2.416 | 142 | 6820 | 1.40 | ug/L | | 90 |
| 19) Carbon Disulfide | 2.477 | 76 | 19165 | 2.20 | ug/L | | 95 |
| 20) Acetonitrile | 2.586 | 41 | 9485 | 12.64 | ug/L | | 99 |
| 21) Allyl Chloride | 2.617 | 76 | 4011 | 2.37 | ug/L | # | 81 |
| 22) Methyl Acetate | 2.647 | 43 | 11209 | 2.10 | ug/L | | 94 |
| 23) Methylene Chloride | 2.739 | 84 | 9060 | 2.62 | ug/L | # | 73 |
| 24) TBA | 2.855 | 59 | 19449 | 33.59 | ug/L | # | 58 |
| 25) Acrylonitrile | 2.989 | 53 | 21596 | 10.83 | ug/L | | 99 |
| 26) Methyl-t-Butyl Ether | 3.032 | 73 | 22496 | 2.12 | ug/L | | 98 |
| 27) trans-1,2-Dichloroethene | 3.025 | 96 | 8272 | 2.69 | ug/L | # | 68 |
| 28) 1,1-Diclethane | 3.525 | 63 | 14797 | 2.34 | ug/L | | 87 |
| 29) Vinyl Acetate | 3.623 | 86 | 958 | 1.97 | ug/L | | 97 |
| 30) DIPE | 3.653 | 45 | 29797 | 2.13 | ug/L | | 85 |
| 31) 2-Chloro-1,3-Butadiene | 3.647 | 53 | 12743 | 2.23 | ug/L | | 90 |
| 32) ETBE | 4.196 | 59 | 20421 | 1.78 | ug/L | | 86 |
| 33) 2,2-Dichloropropane | 4.373 | 77 | 6375 | 1.68 | ug/L | | 88 |
| 34) cis-1,2-Dichloroethene | 4.379 | 96 | 8934m | 2.52 | ug/L | | |
| 35) 2-Butanone | 4.434 | 43 | 6717 | 2.12 | ug/L | | 73 |
| 36) Propionitrile | 4.507 | 54 | 8713 | 10.53 | ug/L | | 81 |
| 37) Bromochloromethane | 4.769 | 130 | 5432 | 2.28 | ug/L | # | 68 |
| 38) Methacrylonitrile | 4.787 | 67 | 5123 | 2.61 | ug/L | # | 75 |
| 39) Tetrahydrofuran | 4.885 | 42 | 4978 | 2.59 | ug/L | | 81 |
| 40) Chloroform | 4.952 | 83 | 14959 | 2.59 | ug/L | | 85 |

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5580.D
Acq On : 8 Sep 2022 11:18 am
Operator : F.NAEGLER
Sample : 2 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 08 14:29:53 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) 1,1,1-Trichloroethane | 5.251 | 97 | 11492 | 2.58 | ug/L | # | 76 |
| 43) Cyclohexane | 5.342 | 41 | 10467 | 2.14 | ug/L | | 86 |
| 45) Carbontetrachloride | 5.537 | 117 | 8132 | 2.08 | ug/L | # | 77 |
| 46) 1,1-Dichloropropene | 5.549 | 75 | 10706 | 2.22 | ug/L | | 80 |
| 48) Benzene | 5.872 | 78 | 32739 | 2.25 | ug/L | | 97 |
| 49) 1,2-Dichloroethane | 5.909 | 62 | 12317 | 2.07 | ug/L | | 94 |
| 50) Iso-Butyl Alcohol | 5.897 | 43 | 9781 | 29.99 | ug/L | | 98 |
| 51) TAME | 6.104 | 73 | 16533 | 1.50 | ug/L | | 98 |
| 52) n-Heptane | 6.366 | 43 | 11612 | 2.14 | ug/L | | 88 |
| 53) 1-Butanol | 6.854 | 56 | 11158 | 66.80 | ug/L | | 91 |
| 54) Trichloroethene | 6.823 | 130 | 8317 | 2.17 | ug/L | | 87 |
| 55) Methylcyclohexane | 7.061 | 55 | 10242 | 1.90 | ug/L | | 93 |
| 56) 1,2-Diclpropane | 7.110 | 63 | 8695 | 2.10 | ug/L | | 96 |
| 57) Dibromomethane | 7.244 | 93 | 6367 | 2.48 | ug/L | # | 59 |
| 58) 1,4-Dioxane | 7.317 | 88 | 3183 | 42.75 | ug/L | | 91 |
| 59) Methyl Methacrylate | 7.342 | 69 | 5604 | 1.81 | ug/L | | 92 |
| 60) Bromodichloromethane | 7.476 | 83 | 10794 | 2.39 | ug/L | | 89 |
| 61) 2-Nitropropane | 7.756 | 41 | 4235 | 3.80 | ug/L | # | 77 |
| 62) 2-Chloroethylvinyl Ether | 7.884 | 63 | 4881 | 1.91 | ug/L | | 84 |
| 63) cis-1,3-Dichloropropene | 8.024 | 75 | 8653 | 1.69 | ug/L | | 80 |
| 64) 4-Methyl-2-pentanone | 8.232 | 43 | 12913 | 1.99 | ug/L | | 98 |
| 66) Toluene | 8.390 | 91 | 34008 | 2.20 | ug/L | | 90 |
| 67) trans-1,3-Dichloropropene | 8.658 | 75 | 6436 | 1.45 | ug/L | | 92 |
| 68) Ethyl Methacrylate | 8.805 | 69 | 8136 | 1.48 | ug/L | | 87 |
| 69) 1,1,2-Trichloroethane | 8.854 | 97 | 7656 | 2.20 | ug/L | # | 87 |
| 72) Tetrachloroethene | 8.988 | 164 | 5292 | 1.84 | ug/L | # | 86 |
| 73) 2-Hexanone | 9.152 | 43 | 8883 | 1.92 | ug/L | | 81 |
| 74) 1,3-Dichloropropane | 9.018 | 76 | 13746 | 2.19 | ug/L | | 93 |
| 75) Dibromochloromethane | 9.250 | 129 | 6978 | 2.16 | ug/L | | 93 |
| 76) N-Butyl Acetate | 9.299 | 43 | 15765 | 1.72 | ug/L | | 94 |
| 77) 1,2-Dibromoethane | 9.341 | 107 | 6867 | 1.91 | ug/L | # | 75 |
| 78) 3-Chlorobenzotrifluoride | 9.853 | 180 | 10149 | 1.80 | ug/L | | 89 |
| 79) Chlorobenzene | 9.835 | 112 | 20506 | 2.02 | ug/L | | 96 |
| 80) 4-Chlorobenzotrifluoride | 9.908 | 180 | 8899 | 1.79 | ug/L | | 91 |
| 81) 1,1,1,2-Tetrachloroethane | 9.920 | 131 | 6753 | 2.21 | ug/L | | 91 |
| 82) Ethylbenzene | 9.963 | 106 | 11521 | 2.19 | ug/L | # | 50 |
| 83) (m+p)Xylene | 10.073 | 106 | 27762 | 4.38 | ug/L | | 96 |
| 84) o-Xylene | 10.426 | 106 | 13442 | 2.12 | ug/L | # | 85 |
| 85) Styrene | 10.439 | 104 | 21269 | 2.00 | ug/L | | 93 |
| 86) Bromoform | 10.591 | 173 | 3119 | 1.51 | ug/L | | 93 |
| 87) 2-Chlorobenzotrifluoride | 10.676 | 180 | 10565 | 1.91 | ug/L | | 97 |
| 88) Isopropylbenzene | 10.762 | 105 | 31040 | 2.02 | ug/L | | 100 |
| 89) Cyclohexanone | 10.823 | 55 | 28285 | 36.86 | ug/L | | 91 |
| 90) trans-1,4-Dichloro-2-B... | 11.073 | 53 | 2109 | 1.43 | ug/L | # | 73 |
| 92) 1,1,2,2-Tetrachloroethane | 11.018 | 83 | 11004 | 2.43 | ug/L | | 96 |
| 93) Bromobenzene | 11.012 | 156 | 9129 | 2.24 | ug/L | # | 84 |
| 94) 1,2,3-Trichloropropane | 11.048 | 110 | 3166 | 2.06 | ug/L | | 97 |
| 95) n-Propylbenzene | 11.115 | 91 | 37816 | 2.22 | ug/L | | 99 |
| 96) 2-Chlorotoluene | 11.182 | 91 | 24953 | 2.34 | ug/L | | 96 |
| 97) 3-Chlorotoluene | 11.237 | 91 | 24541 | 2.15 | ug/L | | 89 |
| 98) 4-Chlorotoluene | 11.274 | 91 | 27735 | 2.28 | ug/L | | 98 |
| 99) 1,3,5-Trimethylbenzene | 11.274 | 105 | 28538 | 2.30 | ug/L | | 98 |
| 100) tert-Butylbenzene | 11.542 | 119 | 24167 | 2.26 | ug/L | | 90 |
| 101) 1,2,4-Trimethylbenzene | 11.585 | 105 | 25738 | 2.08 | ug/L | | 91 |
| 102) 3,4-Dichlorobenzotrifl... | 11.640 | 214 | 8413 | 2.15 | ug/L | | 90 |
| 103) sec-Butylbenzene | 11.725 | 105 | 33817 | 2.30 | ug/L | | 97 |

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5580.D
Acq On : 8 Sep 2022 11:18 am
Operator : F.NAEGLER
Sample : 2 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 08 14:29:53 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration

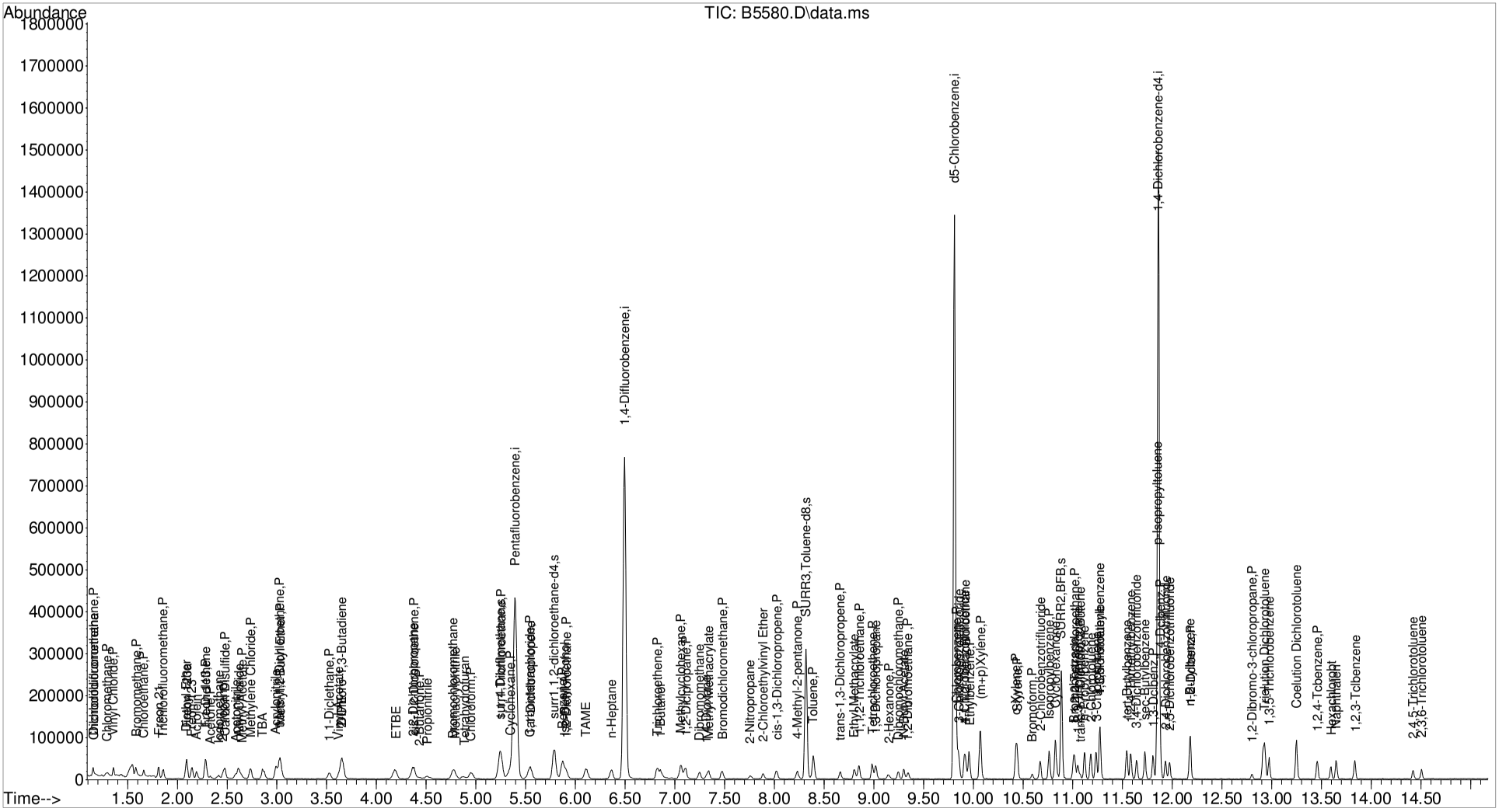
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 104) p-Isopropyltoluene | 11.847 | 119 | 27967 | 2.20 | ug/L | | 97 |
| 105) 1,3-Dclbenz | 11.810 | 146 | 15156 | 2.04 | ug/L | | 92 |
| 106) 1,4-Dclbenz | 11.877 | 146 | 16483 | 2.20 | ug/L | | 95 |
| 107) 2,4-Dichlorobenzotrifl... | 11.932 | 214 | 6349 | 1.79 | ug/L | | 97 |
| 108) 2,5-Dichlorobenzotrifl... | 11.975 | 214 | 7400 | 1.86 | ug/L | | 96 |
| 109) n-Butylbenzene | 12.176 | 91 | 22783 | 2.13 | ug/L | | 96 |
| 110) 1,2-Dclbenz | 12.182 | 146 | 16620 | 2.20 | ug/L | | 89 |
| 111) 1,2-Dibromo-3-chloropr... | 12.804 | 157 | 1669 | 1.93 | ug/L | | 89 |
| 112) Trielution Dichlorotol... | 12.926 | 125 | 38129 | 6.16 | ug/L | | 97 |
| 113) 1,3,5-Trichlorobenzene | 12.975 | 180 | 10111 | 1.87 | ug/L | | 95 |
| 114) Coelution Dichlorotoluene | 13.249 | 125 | 26703 | 4.06 | ug/L | | 93 |
| 115) 1,2,4-Tcbenzene | 13.462 | 180 | 10299 | 2.07 | ug/L | # | 82 |
| 116) Hexachlorobt | 13.597 | 225 | 3987 | 2.06 | ug/L | # | 77 |
| 117) Naphthalen | 13.645 | 128 | 25776 | 2.10 | ug/L | | 97 |
| 118) 1,2,3-Tclbenzene | 13.840 | 180 | 8866 | 1.73 | ug/L | | 92 |
| 119) 2,4,5-Trichlorotoluene | 14.420 | 159 | 4027 | 1.44 | ug/L | | 93 |
| 120) 2,3,6-Trichlorotoluene | 14.505 | 159 | 3800 | 1.48 | ug/L | | 87 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5580.D
Acq On : 8 Sep 2022 11:18 am
Operator : F.NAEGLER
Sample : 2 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 08 14:29:53 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration





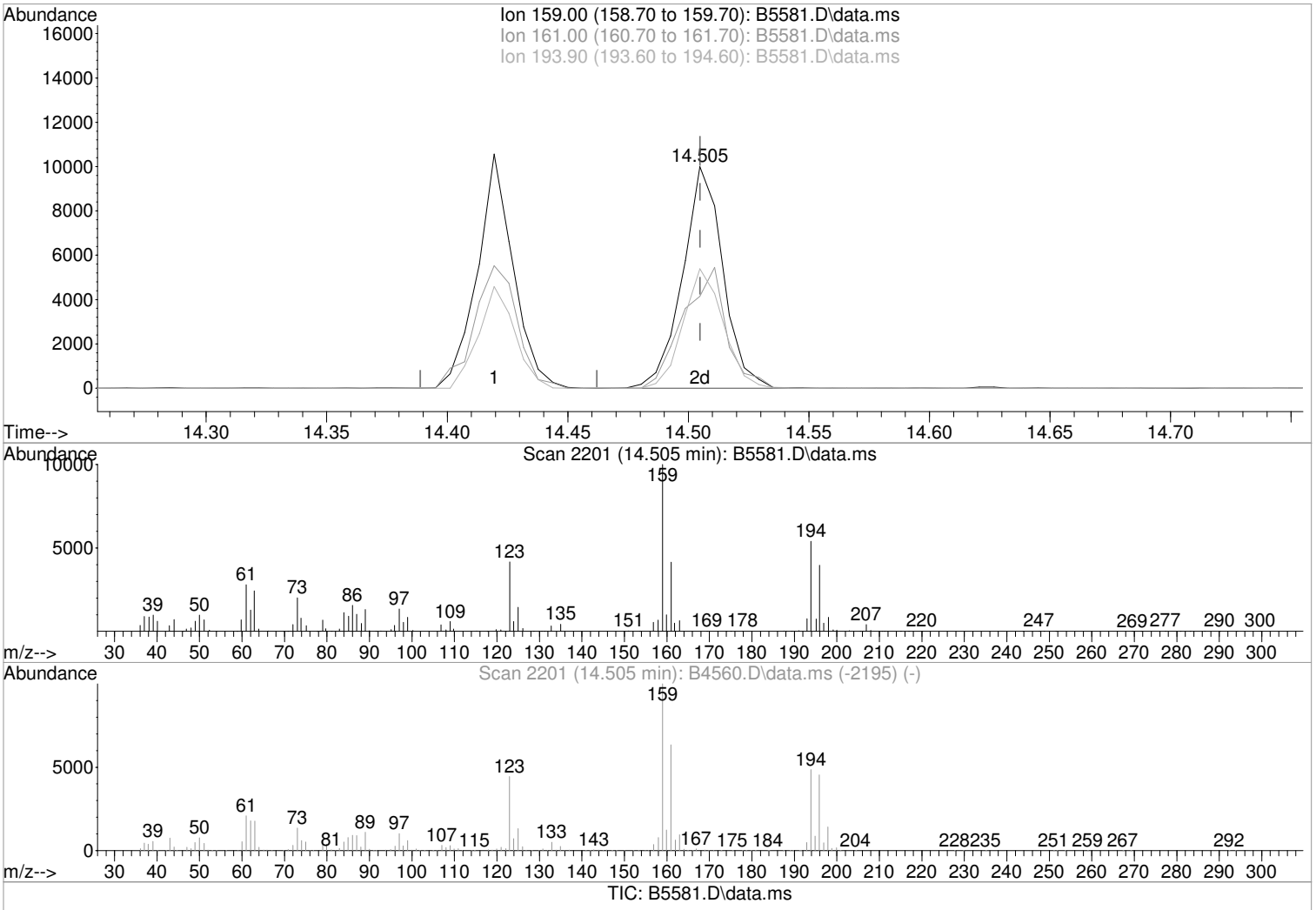


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1st FJ 09/08/22
2nd 09/12/22

# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5581.D
Acq On : 8 Sep 2022 11:40 am
Operator : F.NAEGLER
Sample : 5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 08 14:30:33 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration




TIC: B5581.D\data.ms

(120) 2,3,6-Trichlorotoluene

14.505min (-0.000) 4.42 ug/L m

response 11658

| Ion | Exp% | Act% |
|---|---|---|
| 159.00 | 100 | 100 |
| 161.00 | 63.40 | 41.41# |
| 193.90 | 48.70 | 53.90 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

After

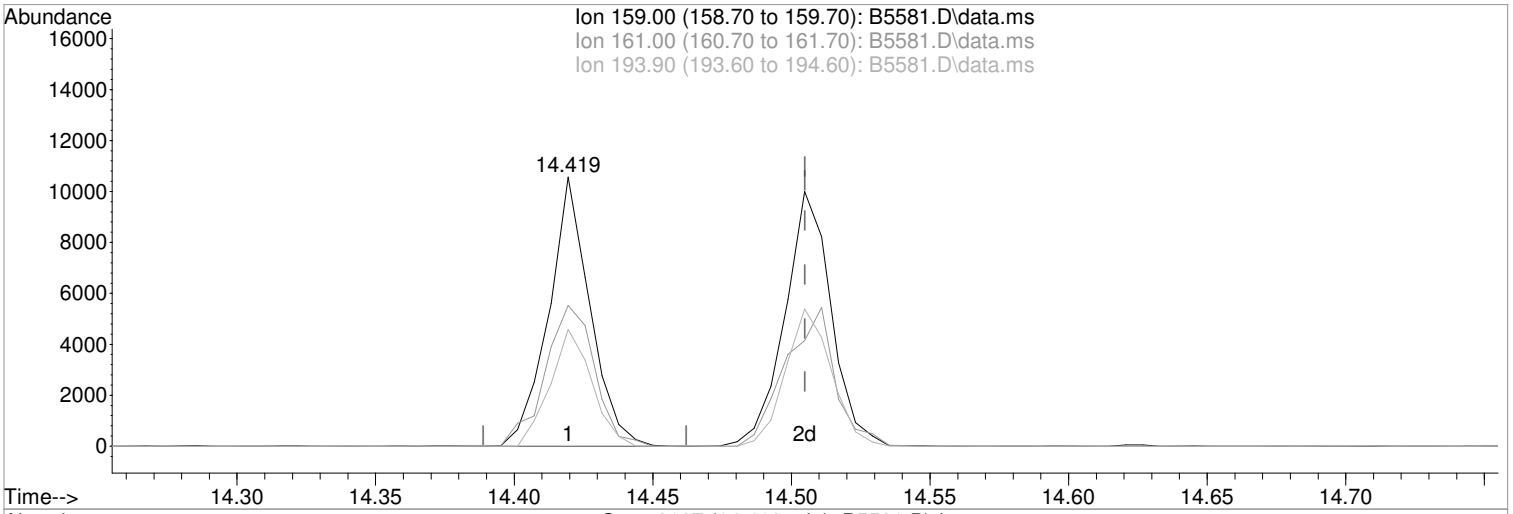
Wrong peak selected.

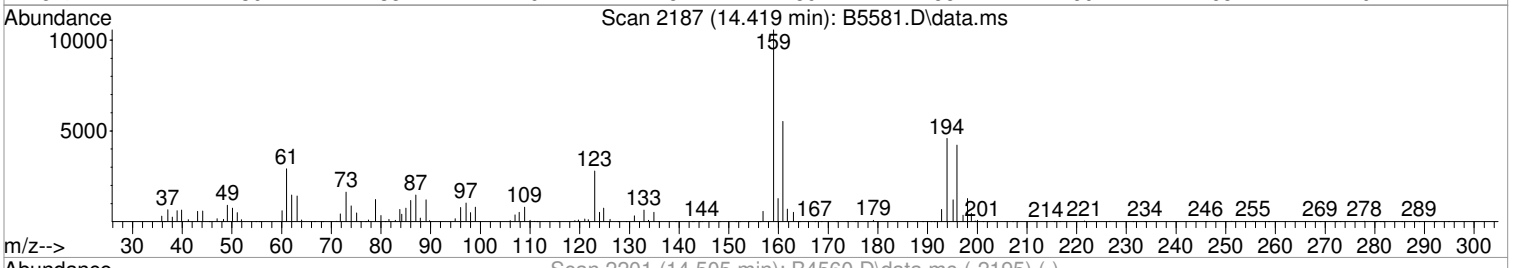
09/08/22

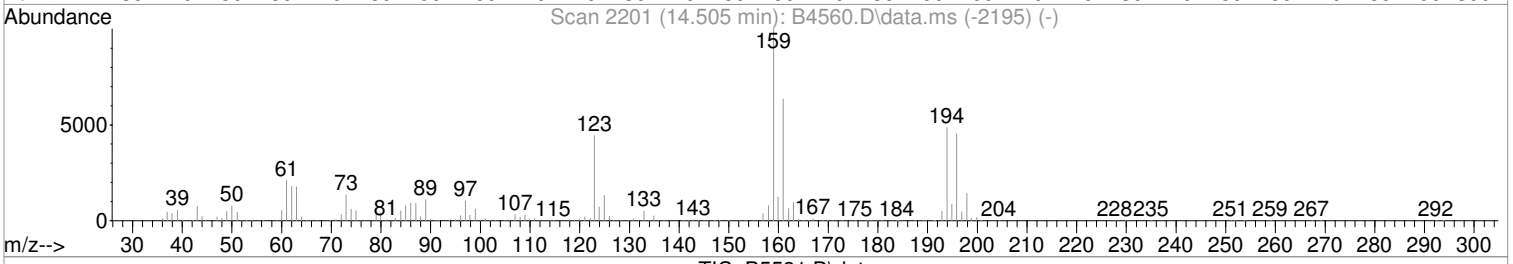
# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5581.D
Acq On : 8 Sep 2022 11:40 am
Operator : F.NAEGLER
Sample : 5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 08 14:30:33 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration




TIC: B5581.D\data.ms

(120) 2,3,6-Trichlorotoluene

14.419min (-0.085) 4.15 ug/L

response 10941

| Ion | Exp% | Act% |
|---|---|---|
| 159.00 | 100 | 100 |
| 161.00 | 63.40 | 52.37 |
| 193.90 | 48.70 | 43.45 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

Before

09/08/22

# Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5581.D
Acq On : 8 Sep 2022 11:40 am
Operator : F.NAEGLER
Sample : 5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 08 14:31:29 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Pentafluorobenzene | 5.397 | 168 | 368760 | 50.00 | ug/L | | 0.00 |
| 42) 1,4-Difluorobenzene | 6.494 | 114 | 621572 | 50.00 | ug/L | | 0.00 |
| 71) d5-Chlorobenzene | 9.811 | 117 | 550828 | 50.00 | ug/L | | 0.00 |
| 91) 1,4-Dichlorobenzene-d4 | 11.859 | 152 | 270084 | 50.00 | ug/L | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 44) surr4,Dibrflmethane | 5.238 | 113 | 44845 | 12.43 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 116 | | Recovery = 24.86%# | | | | |
| 47) surr1,1,2-dichloroetha... | 5.793 | 65 | 58719 | 12.35 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 73 - 125 | | Recovery = 24.70%# | | | | |
| 65) SURR3,Toluene-d8 | 8.317 | 98 | 175527 | 12.56 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 87 - 121 | | Recovery = 25.12%# | | | | |
| 70) SURR2,BFB | 10.884 | 95 | 63523 | 11.51 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 85 - 122 | | Recovery = 23.02%# | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Chlorodifluoromethane | 1.166 | 51 | 21252 | 4.94 | ug/L | | 92 |
| 3) Dichlorodifluoromethane | 1.154 | 85 | 21773 | 5.40 | ug/L | | 96 |
| 4) Chloromethane | 1.288 | 50 | 25609 | 5.61 | ug/L | | 100 |
| 5) Vinyl Chloride | 1.355 | 62 | 23340 | 5.01 | ug/L | | 97 |
| 6) Bromomethane | 1.580 | 94 | 18615 | 8.35 | ug/L | | 94 |
| 7) Chloroethane | 1.660 | 64 | 15930 | 5.91 | ug/L | | 97 |
| 8) Freon 21 | 1.812 | 67 | 40436 | 6.44 | ug/L | | 95 |
| 9) Trichlorofluoromethane | 1.861 | 101 | 32083 | 7.02 | ug/L | | 97 |
| 10) Diethyl Ether | 2.086 | 59 | 17519 | 5.34 | ug/L | | 89 |
| 11) Freon 123a | 2.093 | 67 | 23851 | 6.02 | ug/L | | 99 |
| 12) Freon 123 | 2.141 | 83 | 25579 | 5.97 | ug/L | | 88 |
| 13) Acrolein | 2.190 | 56 | 24081 | 30.48 | ug/L | | 94 |
| 14) 1,1-Diclethene | 2.282 | 96 | 17792 | 6.38 | ug/L | # | 87 |
| 15) Freon 113 | 2.288 | 101 | 18000 | 6.25 | ug/L | | 96 |
| 16) Acetone | 2.330 | 43 | 12693 | 6.10 | ug/L | | 92 |
| 17) 2-Propanol | 2.458 | 45 | 35468 | 89.46 | ug/L | | 98 |
| 18) Iodomethane | 2.422 | 142 | 19089 | 4.01 | ug/L | | 78 |
| 19) Carbon Disulfide | 2.477 | 76 | 45298 | 5.32 | ug/L | | 99 |
| 20) Acetonitrile | 2.586 | 41 | 20736 | 28.26 | ug/L | | 91 |
| 21) Allyl Chloride | 2.623 | 76 | 8190 | 4.94 | ug/L | # | 67 |
| 22) Methyl Acetate | 2.641 | 43 | 24854 | 4.76 | ug/L | | 94 |
| 23) Methylene Chloride | 2.733 | 84 | 21091 | 6.23 | ug/L | | 98 |
| 24) TBA | 2.855 | 59 | 42796 | 75.58 | ug/L | | 75 |
| 25) Acrylonitrile | 2.989 | 53 | 55244 | 28.32 | ug/L | | 96 |
| 26) Methyl-t-Butyl Ether | 3.038 | 73 | 54963 | 5.30 | ug/L | | 98 |
| 27) trans-1,2-Dichloroethene | 3.031 | 96 | 18219 | 6.05 | ug/L | | 92 |
| 28) 1,1-Diclethane | 3.531 | 63 | 33911 | 5.49 | ug/L | | 95 |
| 29) Vinyl Acetate | 3.629 | 86 | 3293 | 6.91 | ug/L | # | 66 |
| 30) DIPE | 3.659 | 45 | 74621 | 5.46 | ug/L | | 92 |
| 31) 2-Chloro-1,3-Butadiene | 3.647 | 53 | 31630 | 5.65 | ug/L | | 85 |
| 32) ETBE | 4.190 | 59 | 50386 | 4.48 | ug/L | | 93 |
| 33) 2,2-Dichloropropane | 4.354 | 77 | 16437 | 4.43 | ug/L | | 86 |
| 34) cis-1,2-Dichloroethene | 4.373 | 96 | 20241 | 5.85 | ug/L | | 87 |
| 35) 2-Butanone | 4.428 | 43 | 21889 | 7.05 | ug/L | | 93 |
| 36) Propionitrile | 4.501 | 54 | 21531 | 26.60 | ug/L | | 93 |
| 37) Bromochloromethane | 4.775 | 130 | 13219 | 5.67 | ug/L | # | 72 |
| 38) Methacrylonitrile | 4.769 | 67 | 10312 | 5.37 | ug/L | # | 69 |
| 39) Tetrahydrofuran | 4.866 | 42 | 11587 | 6.15 | ug/L | | 91 |
| 40) Chloroform | 4.952 | 83 | 34658 | 6.13 | ug/L | | 94 |

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5581.D
Acq On : 8 Sep 2022 11:40 am
Operator : F.NAEGLER
Sample : 5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 08 14:31:29 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) 1,1,1-Trichloroethane | 5.257 | 97 | 24647 | 5.65 | ug/L | | 87 |
| 43) Cyclohexane | 5.342 | 41 | 23493 | 4.93 | ug/L | | 96 |
| 45) Carbontetrachloride | 5.537 | 117 | 19553 | 5.13 | ug/L | | 89 |
| 46) 1,1-Dichloropropene | 5.549 | 75 | 24780 | 5.26 | ug/L | | 85 |
| 48) Benzene | 5.866 | 78 | 74509 | 5.24 | ug/L | | 99 |
| 49) 1,2-Dichloroethane | 5.909 | 62 | 31142 | 5.35 | ug/L | | 94 |
| 50) Iso-Butyl Alcohol | 5.878 | 43 | 23237 | 73.03 | ug/L | | 97 |
| 51) TAME | 6.104 | 73 | 41405 | 3.86 | ug/L | | 93 |
| 52) n-Heptane | 6.360 | 43 | 26866 | 5.08 | ug/L | | 95 |
| 53) 1-Butanol | 6.848 | 56 | 27762 | 170.34 | ug/L | | 89 |
| 54) Trichloroethene | 6.823 | 130 | 19086 | 5.11 | ug/L | | 87 |
| 55) Methylcyclohexane | 7.061 | 55 | 25627 | 4.87 | ug/L | | 94 |
| 56) 1,2-Diclpropane | 7.110 | 63 | 19969 | 4.94 | ug/L | | 74 |
| 57) Dibromomethane | 7.244 | 93 | 12627 | 5.05 | ug/L | | 89 |
| 58) 1,4-Dioxane | 7.311 | 88 | 8706 | 119.84 | ug/L | | 81 |
| 59) Methyl Methacrylate | 7.335 | 69 | 14292 | 4.72 | ug/L | | 95 |
| 60) Bromodichloromethane | 7.476 | 83 | 25024 | 5.68 | ug/L | | 99 |
| 61) 2-Nitropropane | 7.762 | 41 | 9684 | 8.90 | ug/L | | 98 |
| 62) 2-Chloroethylvinyl Ether | 7.884 | 63 | 11685 | 4.68 | ug/L | | 99 |
| 63) cis-1,3-Dichloropropene | 8.024 | 75 | 21857 | 4.37 | ug/L | | 95 |
| 64) 4-Methyl-2-pentanone | 8.232 | 43 | 27377 | 4.32 | ug/L | | 88 |
| 66) Toluene | 8.390 | 91 | 85150 | 5.63 | ug/L | | 87 |
| 67) trans-1,3-Dichloropropene | 8.658 | 75 | 15452 | 3.58 | ug/L | | 91 |
| 68) Ethyl Methacrylate | 8.805 | 69 | 23389 | 4.36 | ug/L | | 89 |
| 69) 1,1,2-Trichloroethane | 8.847 | 97 | 19161 | 5.65 | ug/L | | 95 |
| 72) Tetrachloroethene | 8.981 | 164 | 14418 | 5.08 | ug/L | # | 81 |
| 73) 2-Hexanone | 9.146 | 43 | 21060 | 4.60 | ug/L | | 91 |
| 74) 1,3-Dichloropropane | 9.018 | 76 | 32771 | 5.29 | ug/L | | 92 |
| 75) Dibromochloromethane | 9.244 | 129 | 16458 | 5.16 | ug/L | | 97 |
| 76) N-Butyl Acetate | 9.299 | 43 | 38182 | 4.22 | ug/L | | 98 |
| 77) 1,2-Dibromoethane | 9.341 | 107 | 17331 | 4.88 | ug/L | | 90 |
| 78) 3-Chlorobenzotrifluoride | 9.853 | 180 | 24448 | 4.39 | ug/L | | 98 |
| 79) Chlorobenzene | 9.835 | 112 | 52418 | 5.22 | ug/L | | 96 |
| 80) 4-Chlorobenzotrifluoride | 9.914 | 180 | 22050 | 4.49 | ug/L | | 80 |
| 81) 1,1,1,2-Tetrachloroethane | 9.926 | 131 | 13368 | 4.42 | ug/L | | 87 |
| 82) Ethylbenzene | 9.957 | 106 | 26442 | 5.09 | ug/L | # | 84 |
| 83) (m+p)Xylene | 10.073 | 106 | 68300 | 10.92 | ug/L | | 89 |
| 84) o-Xylene | 10.426 | 106 | 33849 | 5.40 | ug/L | | 97 |
| 85) Styrene | 10.439 | 104 | 57239 | 5.45 | ug/L | | 95 |
| 86) Bromoform | 10.591 | 173 | 9012 | 4.40 | ug/L | | 89 |
| 87) 2-Chlorobenzotrifluoride | 10.670 | 180 | 23578 | 4.32 | ug/L | # | 74 |
| 88) Isopropylbenzene | 10.762 | 105 | 81930 | 5.40 | ug/L | | 95 |
| 89) Cyclohexanone | 10.823 | 55 | 68610 | 90.49 | ug/L | | 94 |
| 90) trans-1,4-Dichloro-2-B... | 11.073 | 53 | 5235 | 3.59 | ug/L | | 81 |
| 92) 1,1,2,2-Tetrachloroethane | 11.018 | 83 | 27675 | 5.96 | ug/L | | 94 |
| 93) Bromobenzene | 11.012 | 156 | 22245 | 5.33 | ug/L | # | 81 |
| 94) 1,2,3-Trichloropropane | 11.054 | 110 | 8122 | 5.16 | ug/L | # | 84 |
| 95) n-Propylbenzene | 11.115 | 91 | 102762 | 5.88 | ug/L | | 97 |
| 96) 2-Chlorotoluene | 11.182 | 91 | 61111 | 5.59 | ug/L | | 92 |
| 97) 3-Chlorotoluene | 11.231 | 91 | 63767 | 5.45 | ug/L | | 98 |
| 98) 4-Chlorotoluene | 11.274 | 91 | 68974 | 5.54 | ug/L | | 99 |
| 99) 1,3,5-Trimethylbenzene | 11.268 | 105 | 71440 | 5.62 | ug/L | | 97 |
| 100) tert-Butylbenzene | 11.542 | 119 | 60280 | 5.51 | ug/L | | 95 |
| 101) 1,2,4-Trimethylbenzene | 11.579 | 105 | 70027 | 5.52 | ug/L | | 95 |
| 102) 3,4-Dichlorobenzotrifl... | 11.646 | 214 | 17930 | 4.48 | ug/L | | 98 |
| 103) sec-Butylbenzene | 11.725 | 105 | 86609 | 5.74 | ug/L | | 96 |

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5581.D
Acq On : 8 Sep 2022 11:40 am
Operator : F.NAEGLER
Sample : 5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 08 14:31:29 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration

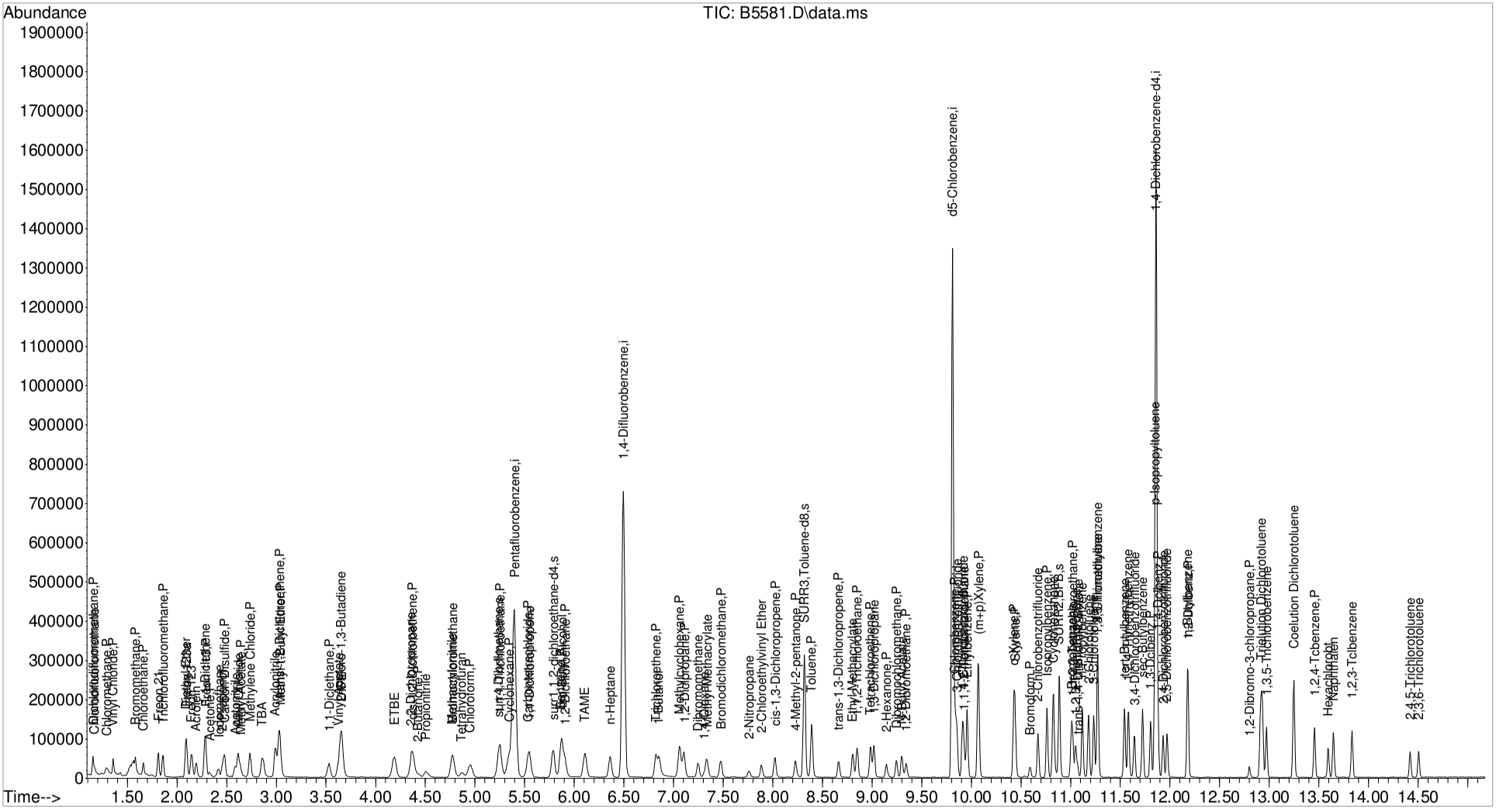
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 104) p-Isopropyltoluene | 11.847 | 119 | 69592 | 5.34 | ug/L | | 96 |
| 105) 1,3-Dclbenz | 11.804 | 146 | 40345 | 5.29 | ug/L | | 97 |
| 106) 1,4-Dclbenz | 11.877 | 146 | 42026 | 5.47 | ug/L | | 96 |
| 107) 2,4-Dichlorobenzotrifl... | 11.932 | 214 | 16264 | 4.47 | ug/L | | 96 |
| 108) 2,5-Dichlorobenzotrifl... | 11.969 | 214 | 19194 | 4.70 | ug/L | | 87 |
| 109) n-Butylbenzene | 12.176 | 91 | 61544 | 5.60 | ug/L | | 98 |
| 110) 1,2-Dclbenz | 12.182 | 146 | 40923 | 5.28 | ug/L | | 95 |
| 111) 1,2-Dibromo-3-chloropr... | 12.804 | 157 | 3975 | 4.49 | ug/L | # | 76 |
| 112) Trielution Dichlorotol... | 12.920 | 125 | 100997 | 15.92 | ug/L | | 91 |
| 113) 1,3,5-Trichlorobenzene | 12.975 | 180 | 26326 | 4.74 | ug/L | | 93 |
| 114) Coelution Dichlorotoluene | 13.249 | 125 | 70859 | 10.52 | ug/L | | 95 |
| 115) 1,2,4-Tcbenzene | 13.456 | 180 | 24520 | 4.81 | ug/L | | 94 |
| 116) Hexachlorobt | 13.590 | 225 | 9067 | 4.57 | ug/L | | 96 |
| 117) Naphthalen | 13.645 | 128 | 66907 | 5.31 | ug/L | | 96 |
| 118) 1,2,3-Tclbenzene | 13.834 | 180 | 24061 | 4.57 | ug/L | | 95 |
| 119) 2,4,5-Trichlorotoluene | 14.419 | 159 | 10941 | 3.82 | ug/L | | 93 |
| 120) 2,3,6-Trichlorotoluene | 14.505 | 159 | 11658m | 4.42 | ug/L | | |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5581.D
Acq On : 8 Sep 2022 11:40 am
Operator : F.NAEGLER
Sample : 5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 08 14:31:29 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration





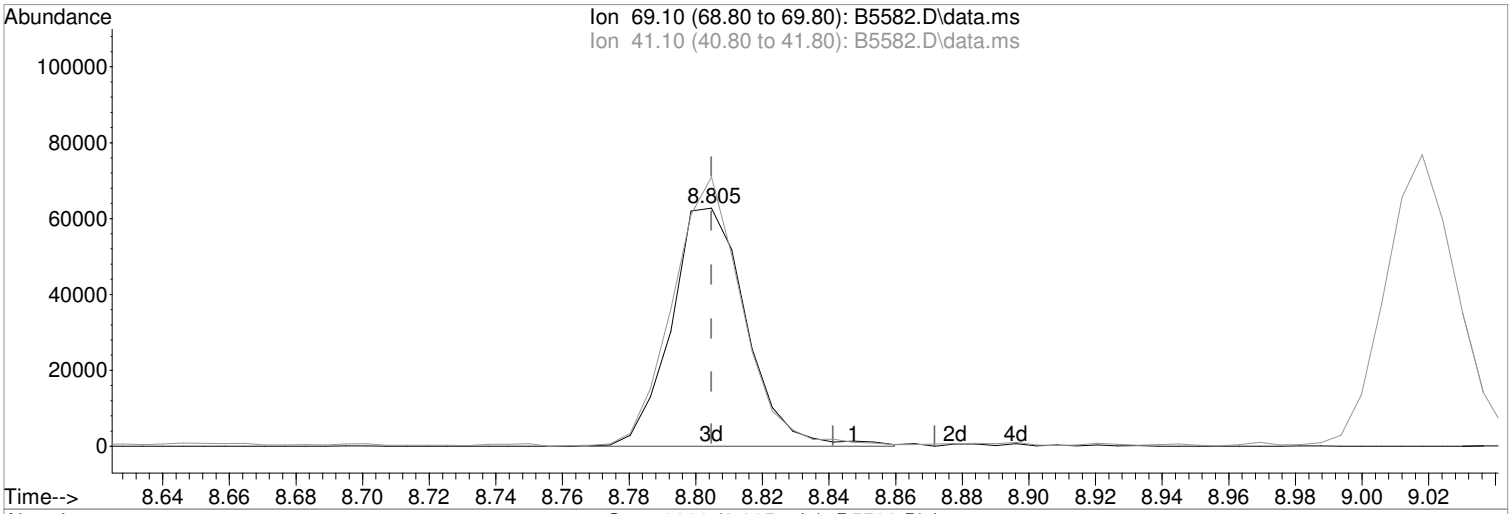

1st FN 09/08/22
2nd 09/12/22

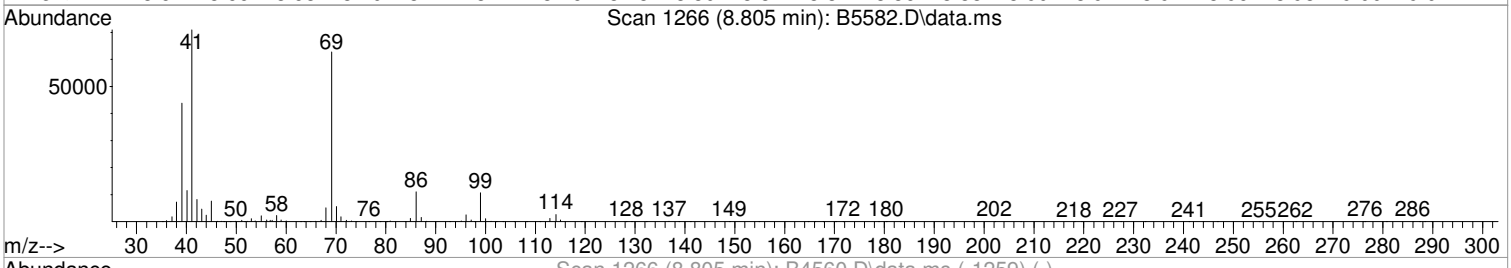
1st FN 09/08/22
2nd 09/12/22

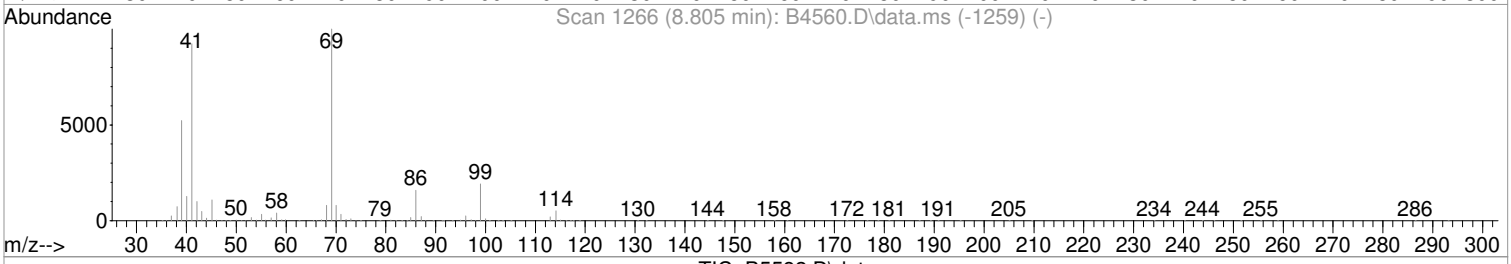
# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5582.D
Acq On : 8 Sep 2022 12:02 pm
Operator : F.NAEGLER
Sample : 20 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 08 14:31:40 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration




TIC: B5582.D\data.ms

(68) Ethyl Methacrylate

8.805min (-0.000) 17.05 ug/L m

response 98413

| Ion | Exp% | Act% |
|---|---|---|
| 69.10 | 100 | 100 |
| 41.10 | 92.50 | 113.02# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

After

Peak not found.

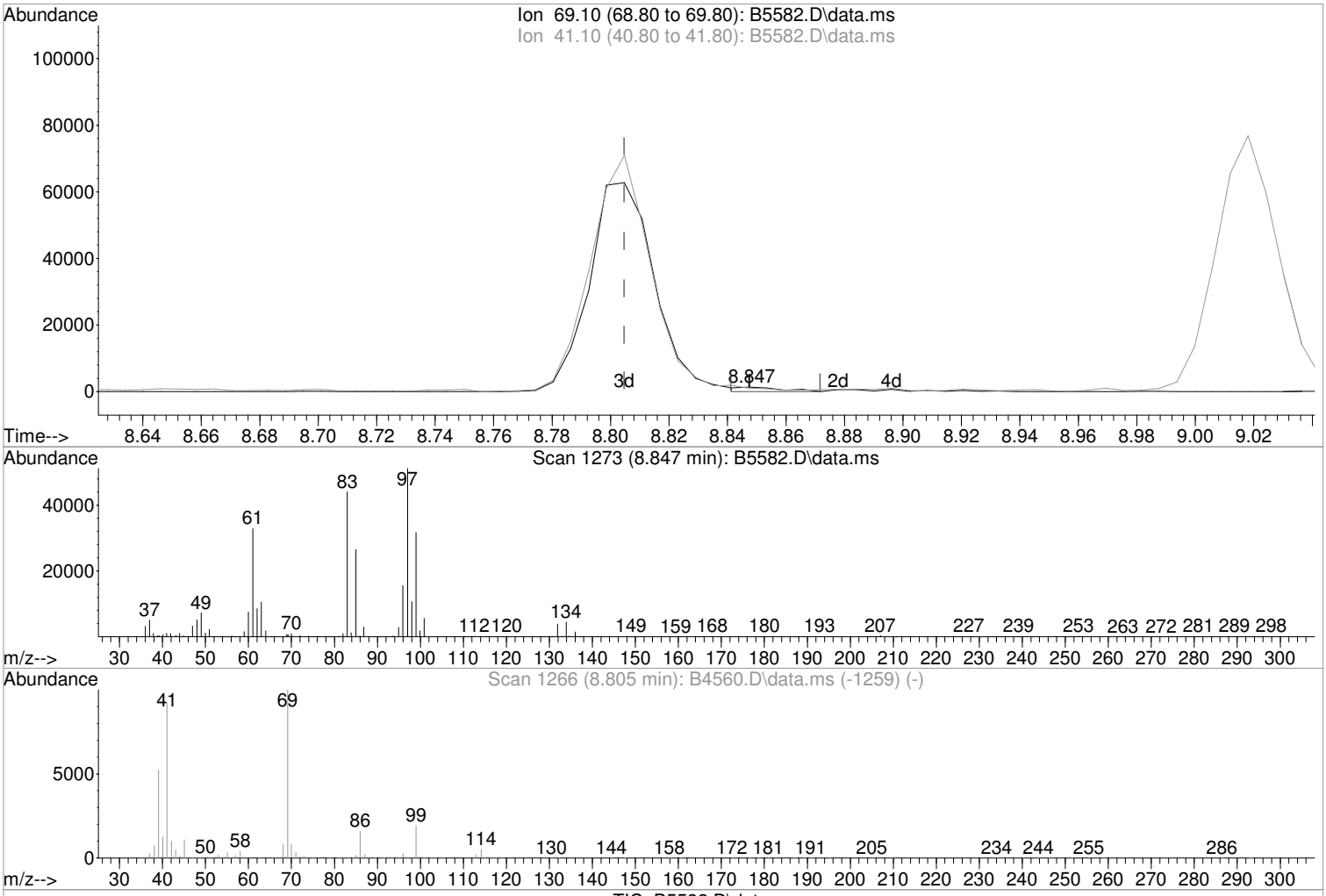
09/08/22

1st FN 09/08/22
2nd 09/12/22

# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5582.D
Acq On : 8 Sep 2022 12:02 pm
Operator : F.NAEGLER
Sample : 20 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 08 14:31:40 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration




TIC: B5582.D\data.ms

(68) Ethyl Methacrylate

8.847min (+0.043) 0.23 ug/L

response 1300

| Ion | Exp% | Act% |
|---|---|---|
| 69.10 | 100 | 100 |
| 41.10 | 92.50 | 76.35 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

Before

09/08/22

# Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5582.D
Acq On : 8 Sep 2022 12:02 pm
Operator : F.NAEGLER
Sample : 20 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 08 14:32:25 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Pentafluorobenzene | 5.397 | 168 | 393693 | 50.00 | ug/L | | 0.00 |
| 42) 1,4-Difluorobenzene | 6.494 | 114 | 668211 | 50.00 | ug/L | | 0.00 |
| 71) d5-Chlorobenzene | 9.811 | 117 | 600173 | 50.00 | ug/L | | 0.00 |
| 91) 1,4-Dichlorobenzene-d4 | 11.859 | 152 | 292788 | 50.00 | ug/L | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 44) surr4,Dibrflmethane | 5.244 | 113 | 82264 | 21.22 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 116 | | Recovery = 42.44%# | | | | |
| 47) surr1,1,2-dichloroetha... | 5.787 | 65 | 105276 | 20.59 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 73 - 125 | | Recovery = 41.18%# | | | | |
| 65) SURR3,Toluene-d8 | 8.317 | 98 | 316095 | 21.05 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 87 - 121 | | Recovery = 42.10%# | | | | |
| 70) SURR2,BFB | 10.884 | 95 | 114053 | 19.23 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 85 - 122 | | Recovery = 38.46%# | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Chlorodifluoromethane | 1.166 | 51 | 90112 | 19.62 | ug/L | | 99 |
| 3) Dichlorodifluoromethane | 1.154 | 85 | 98718 | 22.93 | ug/L | | 98 |
| 4) Chloromethane | 1.288 | 50 | 95686 | 19.63 | ug/L | | 100 |
| 5) Vinyl Chloride | 1.355 | 62 | 96571 | 19.40 | ug/L | | 93 |
| 6) Bromomethane | 1.587 | 94 | 61884 | 25.99 | ug/L | | 99 |
| 7) Chloroethane | 1.660 | 64 | 58023 | 20.16 | ug/L | | 96 |
| 8) Freon 21 | 1.812 | 67 | 151043 | 22.54 | ug/L | | 98 |
| 9) Trichlorofluoromethane | 1.861 | 101 | 123209 | 25.24 | ug/L | | 95 |
| 10) Diethyl Ether | 2.087 | 59 | 75690 | 21.61 | ug/L | | 89 |
| 11) Freon 123a | 2.093 | 67 | 90595 | 21.44 | ug/L | | 96 |
| 12) Freon 123 | 2.147 | 83 | 103943 | 22.72 | ug/L | | 98 |
| 13) Acrolein | 2.190 | 56 | 101600 | 120.46 | ug/L | | 84 |
| 14) 1,1-Diclethene | 2.282 | 96 | 64344 | 21.62 | ug/L | | 96 |
| 15) Freon 113 | 2.282 | 101 | 67032 | 21.81 | ug/L | | 96 |
| 16) Acetone | 2.324 | 43 | 45701 | 20.58 | ug/L | | 90 |
| 17) 2-Propanol | 2.458 | 45 | 144826 | 342.17 | ug/L | | 91 |
| 18) Iodomethane | 2.416 | 142 | 100147 | 19.71 | ug/L | | 94 |
| 19) Carbon Disulfide | 2.477 | 76 | 190704 | 20.99 | ug/L | | 100 |
| 20) Acetonitrile | 2.580 | 41 | 92294 | 117.82 | ug/L | | 94 |
| 21) Allyl Chloride | 2.611 | 76 | 34245 | 19.34 | ug/L | | 95 |
| 22) Methyl Acetate | 2.635 | 43 | 105410 | 18.92 | ug/L | | 98 |
| 23) Methylene Chloride | 2.733 | 84 | 83173 | 23.01 | ug/L | | 90 |
| 24) TBA | 2.861 | 59 | 189570 | 313.57 | ug/L | | 78 |
| 25) Acrylonitrile | 2.989 | 53 | 226132 | 108.57 | ug/L | | 95 |
| 26) Methyl-t-Butyl Ether | 3.031 | 73 | 231097 | 20.88 | ug/L | | 98 |
| 27) trans-1,2-Dichloroethene | 3.025 | 96 | 73335 | 22.81 | ug/L | | 98 |
| 28) 1,1-Diclethane | 3.531 | 63 | 139855 | 21.19 | ug/L | | 93 |
| 29) Vinyl Acetate | 3.623 | 86 | 13366 | 26.27 | ug/L | # | 74 |
| 30) DIPE | 3.653 | 45 | 305116 | 20.89 | ug/L | | 88 |
| 31) 2-Chloro-1,3-Butadiene | 3.647 | 53 | 131709 | 22.06 | ug/L | | 97 |
| 32) ETBE | 4.184 | 59 | 206734 | 17.22 | ug/L | | 95 |
| 33) 2,2-Dichloropropane | 4.367 | 77 | 67393 | 17.01 | ug/L | | 97 |
| 34) cis-1,2-Dichloroethene | 4.367 | 96 | 83201 | 22.52 | ug/L | # | 84 |
| 35) 2-Butanone | 4.415 | 43 | 74799 | 22.57 | ug/L | | 94 |
| 36) Propionitrile | 4.507 | 54 | 91599 | 106.01 | ug/L | | 91 |
| 37) Bromochloromethane | 4.775 | 130 | 55729 | 22.39 | ug/L | # | 82 |
| 38) Methacrylonitrile | 4.769 | 67 | 43284 | 21.13 | ug/L | # | 83 |
| 39) Tetrahydrofuran | 4.873 | 42 | 48115 | 23.93 | ug/L | | 99 |
| 40) Chloroform | 4.946 | 83 | 141856 | 23.50 | ug/L | | 96 |

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5582.D
Acq On : 8 Sep 2022 12:02 pm
Operator : F.NAEGLER
Sample : 20 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 08 14:32:25 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 41) 1,1,1-Trichloroethane | 5.251 | 97 | 105110 | 22.58 ug/L | 93 |
| 43) Cyclohexane | 5.342 | 41 | 99398 | 19.39 ug/L | 98 |
| 45) Carbontetrachloride | 5.531 | 117 | 78015 | 19.05 ug/L | 98 |
| 46) 1,1-Dichloropropene | 5.543 | 75 | 95854 | 18.92 ug/L | 97 |
| 48) Benzene | 5.866 | 78 | 303979 | 19.90 ug/L | 98 |
| 49) 1,2-Dichloroethane | 5.903 | 62 | 126107 | 20.16 ug/L | 97 |
| 50) Iso-Butyl Alcohol | 5.878 | 43 | 112967 | 330.27 ug/L | 99 |
| 51) TAME | 6.104 | 73 | 182099 | 15.79 ug/L | 94 |
| 52) n-Heptane | 6.360 | 43 | 100897 | 17.73 ug/L | 95 |
| 53) 1-Butanol | 6.848 | 56 | 132303 | 755.12 ug/L | 99 |
| 54) Trichloroethene | 6.823 | 130 | 80338 | 20.02 ug/L | 98 |
| 55) Methylcyclohexane | 7.061 | 55 | 98793 | 17.47 ug/L | 97 |
| 56) 1,2-Diclpropane | 7.104 | 63 | 82521 | 18.99 ug/L | 93 |
| 57) Dibromomethane | 7.244 | 93 | 58555 | 21.77 ug/L | 88 |
| 58) 1,4-Dioxane | 7.305 | 88 | 31227 | 399.84 ug/L # | 76 |
| 59) Methyl Methacrylate | 7.335 | 69 | 62063 | 19.07 ug/L | 96 |
| 60) Bromodichloromethane | 7.470 | 83 | 105897 | 22.38 ug/L | 98 |
| 61) 2-Nitropropane | 7.756 | 41 | 47787 | 40.87 ug/L | 90 |
| 62) 2-Chloroethylvinyl Ether | 7.884 | 63 | 49830 | 18.56 ug/L | 99 |
| 63) cis-1,3-Dichloropropene | 8.018 | 75 | 100990 | 18.78 ug/L | 99 |
| 64) 4-Methyl-2-pentanone | 8.226 | 43 | 130777 | 19.19 ug/L | 96 |
| 66) Toluene | 8.390 | 91 | 333400 | 20.52 ug/L | 96 |
| 67) trans-1,3-Dichloropropene | 8.658 | 75 | 77092 | 16.61 ug/L | 94 |
| 68) Ethyl Methacrylate | 8.805 | 69 | 98413m | 17.05 ug/L | |
| 69) 1,1,2-Trichloroethane | 8.847 | 97 | 76140 | 20.87 ug/L | 100 |
| 72) Tetrachloroethene | 8.988 | 164 | 53393 | 17.26 ug/L | 94 |
| 73) 2-Hexanone | 9.140 | 43 | 97286 | 19.51 ug/L | 90 |
| 74) 1,3-Dichloropropane | 9.018 | 76 | 131692 | 19.53 ug/L | 94 |
| 75) Dibromochloromethane | 9.244 | 129 | 75840 | 21.83 ug/L | 99 |
| 76) N-Butyl Acetate | 9.299 | 43 | 174560 | 17.72 ug/L | 95 |
| 77) 1,2-Dibromoethane | 9.341 | 107 | 77828 | 20.10 ug/L | 97 |
| 78) 3-Chlorobenzotrifluoride | 9.853 | 180 | 99547 | 16.42 ug/L | 97 |
| 79) Chlorobenzene | 9.835 | 112 | 216002 | 19.74 ug/L | 99 |
| 80) 4-Chlorobenzotrifluoride | 9.908 | 180 | 85551 | 15.99 ug/L | 92 |
| 81) 1,1,1,2-Tetrachloroethane | 9.920 | 131 | 66994 | 20.34 ug/L | 93 |
| 82) Ethylbenzene | 9.957 | 106 | 107119 | 18.91 ug/L | 92 |
| 83) (m+p)Xylene | 10.073 | 106 | 278403 | 40.84 ug/L # | 88 |
| 84) o-Xylene | 10.426 | 106 | 137025 | 20.06 ug/L | 97 |
| 85) Styrene | 10.439 | 104 | 230845 | 20.15 ug/L | 97 |
| 86) Bromoform | 10.591 | 173 | 42235 | 18.94 ug/L | 97 |
| 87) 2-Chlorobenzotrifluoride | 10.670 | 180 | 99675 | 16.76 ug/L | 99 |
| 88) Isopropylbenzene | 10.762 | 105 | 326133 | 19.73 ug/L | 98 |
| 89) Cyclohexanone | 10.823 | 55 | 253670 | 307.06 ug/L | 89 |
| 90) trans-1,4-Dichloro-2-B... | 11.066 | 53 | 19894 | 12.52 ug/L | 77 |
| 92) 1,1,2,2-Tetrachloroethane | 11.018 | 83 | 113518 | 22.55 ug/L | 95 |
| 93) Bromobenzene | 11.012 | 156 | 87736 | 19.38 ug/L | 92 |
| 94) 1,2,3-Trichloropropane | 11.048 | 110 | 35934 | 21.05 ug/L | 99 |
| 95) n-Propylbenzene | 11.115 | 91 | 405500 | 21.40 ug/L | 98 |
| 96) 2-Chlorotoluene | 11.182 | 91 | 248726 | 20.99 ug/L | 98 |
| 97) 3-Chlorotoluene | 11.231 | 91 | 261135 | 20.57 ug/L | 98 |
| 98) 4-Chlorotoluene | 11.274 | 91 | 287469 | 21.28 ug/L | 96 |
| 99) 1,3,5-Trimethylbenzene | 11.274 | 105 | 301819 | 21.89 ug/L | 99 |
| 100) tert-Butylbenzene | 11.542 | 119 | 242933 | 20.47 ug/L | 98 |
| 101) 1,2,4-Trimethylbenzene | 11.585 | 105 | 293040 | 21.32 ug/L | 97 |
| 102) 3,4-Dichlorobenzotrifl... | 11.646 | 214 | 73272 | 16.87 ug/L | 97 |
| 103) sec-Butylbenzene | 11.725 | 105 | 341816 | 20.91 ug/L | 97 |

# Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5582.D
Acq On : 8 Sep 2022 12:02 pm
Operator : F.NAEGLER
Sample : 20 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 08 14:32:25 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration

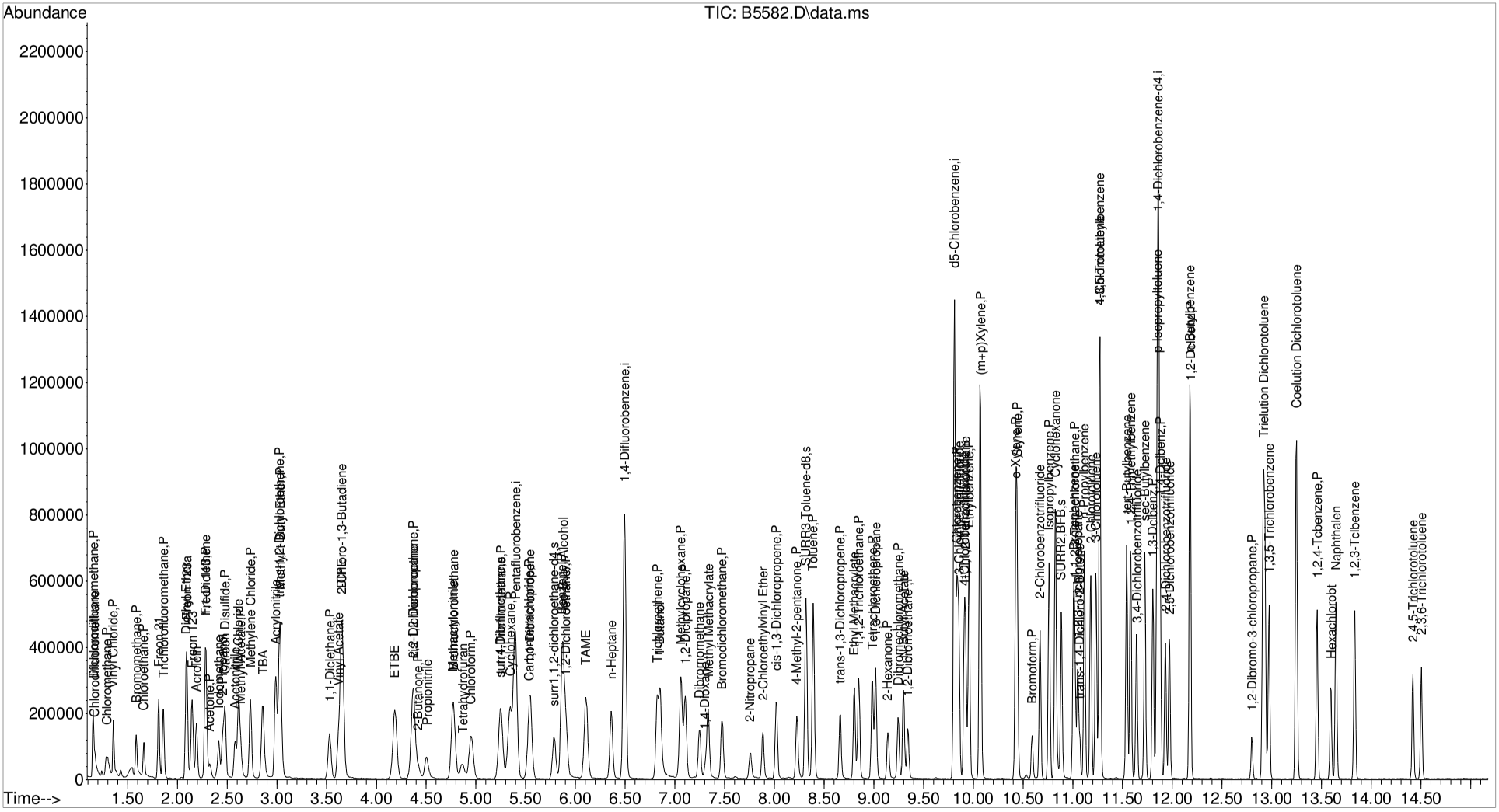
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 104) p-Isopropyltoluene | 11.847 | 119 | 287670 | 20.36 | ug/L | 98 |
| 105) 1,3-Dclbenz | 11.804 | 146 | 168764 | 20.41 | ug/L | 97 |
| 106) 1,4-Dclbenz | 11.877 | 146 | 170215 | 20.43 | ug/L | 98 |
| 107) 2,4-Dichlorobenzotrifl... | 11.932 | 214 | 66220 | 16.78 | ug/L | 94 |
| 108) 2,5-Dichlorobenzotrifl... | 11.975 | 214 | 77175 | 17.45 | ug/L | 98 |
| 109) n-Butylbenzene | 12.176 | 91 | 252092 | 21.17 | ug/L | 95 |
| 110) 1,2-Dclbenz | 12.182 | 146 | 170017 | 20.24 | ug/L | 97 |
| 111) 1,2-Dibromo-3-chloropr... | 12.804 | 157 | 19824 | 20.67 | ug/L | 92 |
| 112) Trielution Dichlorotol... | 12.920 | 125 | 425679 | 61.88 | ug/L | 96 |
| 113) 1,3,5-Trichlorobenzene | 12.975 | 180 | 110360 | 18.34 | ug/L | 97 |
| 114) Coelution Dichlorotoluene | 13.249 | 125 | 304129 | 41.65 | ug/L | 98 |
| 115) 1,2,4-Tcbenzene | 13.456 | 180 | 109458 | 19.79 | ug/L | 93 |
| 116) Hexachlorobt | 13.596 | 225 | 34437 | 16.01 | ug/L | 95 |
| 117) Naphthalen | 13.645 | 128 | 308393 | 22.59 | ug/L | 99 |
| 118) 1,2,3-Tclbenzene | 13.834 | 180 | 106108 | 18.59 | ug/L | 98 |
| 119) 2,4,5-Trichlorotoluene | 14.419 | 159 | 58397 | 18.80 | ug/L | 95 |
| 120) 2,3,6-Trichlorotoluene | 14.505 | 159 | 57759 | 20.21 | ug/L | 99 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5582.D
Acq On : 8 Sep 2022 12:02 pm
Operator : F.NAEGLER
Sample : 20 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 08 14:32:25 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration








1st FJ 09/08/22
2nd 09/12/22

# Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5583.D
Acq On : 8 Sep 2022 12:24 pm
Operator : F.NAEGLER
Sample : 50 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 08 14:32:53 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Pentafluorobenzene | 5.397 | 168 | 414382 | 50.00 | ug/L | | 0.00 |
| 42) 1,4-Difluorobenzene | 6.494 | 114 | 689481 | 50.00 | ug/L | | 0.00 |
| 71) d5-Chlorobenzene | 9.811 | 117 | 634052 | 50.00 | ug/L | | 0.00 |
| 91) 1,4-Dichlorobenzene-d4 | 11.859 | 152 | 329257 | 50.00 | ug/L | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 44) surr4,Dibrflmethane | 5.251 | 113 | 219343 | 54.83 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 116 | | Recovery = 109.66% | | | | |
| 47) surr1,1,2-dichloroetha... | 5.787 | 65 | 288365 | 54.65 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 73 - 125 | | Recovery = 109.30% | | | | |
| 65) SURR3,Toluene-d8 | 8.317 | 98 | 829432 | 53.52 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 87 - 121 | | Recovery = 107.04% | | | | |
| 70) SURR2,BFB | 10.884 | 95 | 321335 | 52.50 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 85 - 122 | | Recovery = 105.00% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Chlorodifluoromethane | 1.166 | 51 | 244780 | 50.63 | ug/L | | 97 |
| 3) Dichlorodifluoromethane | 1.148 | 85 | 262864 | 58.02 | ug/L | | 99 |
| 4) Chloromethane | 1.288 | 50 | 251681 | 49.06 | ug/L | | 98 |
| 5) Vinyl Chloride | 1.355 | 62 | 258124 | 49.27 | ug/L | | 99 |
| 6) Bromomethane | 1.581 | 94 | 159621 | 63.68 | ug/L | | 95 |
| 7) Chloroethane | 1.660 | 64 | 155333 | 51.28 | ug/L | | 98 |
| 8) Freon 21 | 1.812 | 67 | 394762 | 55.97 | ug/L | | 97 |
| 9) Trichlorofluoromethane | 1.855 | 101 | 312436 | 60.81 | ug/L | | 98 |
| 10) Diethyl Ether | 2.087 | 59 | 198172 | 53.75 | ug/L | | 97 |
| 11) Freon 123a | 2.093 | 67 | 236001 | 53.05 | ug/L | | 97 |
| 12) Freon 123 | 2.148 | 83 | 262405 | 54.48 | ug/L | | 97 |
| 13) Acrolein | 2.190 | 56 | 279151 | 314.45 | ug/L | | 97 |
| 14) 1,1-Diclethene | 2.282 | 96 | 168653 | 53.84 | ug/L | | 93 |
| 15) Freon 113 | 2.288 | 101 | 175148 | 54.14 | ug/L | | 97 |
| 16) Acetone | 2.324 | 43 | 122298 | 52.33 | ug/L | | 98 |
| 17) 2-Propanol | 2.459 | 45 | 443265 | 994.99 | ug/L | | 91 |
| 18) Iodomethane | 2.416 | 142 | 289646 | 54.15 | ug/L | | 88 |
| 19) Carbon Disulfide | 2.477 | 76 | 541110 | 56.60 | ug/L | | 100 |
| 20) Acetonitrile | 2.580 | 41 | 259605 | 314.86 | ug/L | | 96 |
| 21) Allyl Chloride | 2.617 | 76 | 90127 | 48.36 | ug/L | # | 89 |
| 22) Methyl Acetate | 2.635 | 43 | 292421 | 49.86 | ug/L | | 94 |
| 23) Methylene Chloride | 2.733 | 84 | 214459 | 56.36 | ug/L | | 95 |
| 24) TBA | 2.861 | 59 | 581189 | 913.35 | ug/L | | 81 |
| 25) Acrylonitrile | 2.989 | 53 | 625261 | 285.21 | ug/L | | 97 |
| 26) Methyl-t-Butyl Ether | 3.032 | 73 | 628006 | 53.90 | ug/L | | 97 |
| 27) trans-1,2-Dichloroethene | 3.026 | 96 | 189037 | 55.86 | ug/L | | 96 |
| 28) 1,1-Diclethane | 3.525 | 63 | 369075 | 53.13 | ug/L | | 98 |
| 29) Vinyl Acetate | 3.617 | 86 | 41605 | 77.69 | ug/L | # | 85 |
| 30) DIPE | 3.653 | 45 | 861537 | 56.05 | ug/L | | 96 |
| 31) 2-Chloro-1,3-Butadiene | 3.653 | 53 | 367654 | 58.49 | ug/L | | 93 |
| 32) ETBE | 4.184 | 59 | 583490 | 46.18 | ug/L | | 96 |
| 33) 2,2-Dichloropropane | 4.361 | 77 | 193253 | 46.35 | ug/L | | 97 |
| 34) cis-1,2-Dichloroethene | 4.373 | 96 | 224967 | 57.86 | ug/L | | 87 |
| 35) 2-Butanone | 4.416 | 43 | 206302 | 59.15 | ug/L | | 94 |
| 36) Propionitrile | 4.501 | 54 | 250165 | 275.06 | ug/L | | 99 |
| 37) Bromochloromethane | 4.769 | 130 | 151640 | 57.88 | ug/L | # | 88 |
| 38) Methacrylonitrile | 4.763 | 67 | 113262 | 52.52 | ug/L | | 96 |
| 39) Tetrahydrofuran | 4.854 | 42 | 121295 | 57.32 | ug/L | | 96 |
| 40) Chloroform | 4.952 | 83 | 375650 | 59.12 | ug/L | | 98 |

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5583.D
Acq On : 8 Sep 2022 12:24 pm
Operator : F.NAEGLER
Sample : 50 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 08 14:32:53 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 41) 1,1,1-Trichloroethane | 5.251 | 97 | 271411 | 55.38 | ug/L | 98 |
| 43) Cyclohexane | 5.336 | 41 | 261898 | 49.52 | ug/L | 98 |
| 45) Carbontetrachloride | 5.537 | 117 | 220473 | 52.17 | ug/L | 99 |
| 46) 1,1-Dichloropropene | 5.549 | 75 | 255548 | 48.89 | ug/L | 96 |
| 48) Benzene | 5.866 | 78 | 778498 | 49.40 | ug/L | 98 |
| 49) 1,2-Dichloroethane | 5.909 | 62 | 338644 | 52.46 | ug/L | 99 |
| 50) Iso-Butyl Alcohol | 5.885 | 43 | 334815 | 948.68 | ug/L | 89 |
| 51) TAME | 6.104 | 73 | 537052 | 45.12 | ug/L | 97 |
| 52) n-Heptane | 6.360 | 43 | 258806 | 44.08 | ug/L | 97 |
| 53) 1-Butanol | 6.854 | 56 | 443562 | 2453.53 | ug/L | 98 |
| 54) Trichloroethene | 6.817 | 130 | 206197 | 49.79 | ug/L | 97 |
| 55) Methylcyclohexane | 7.061 | 55 | 255366 | 43.77 | ug/L | 95 |
| 56) 1,2-Diclpropane | 7.104 | 63 | 222172 | 49.54 | ug/L | 99 |
| 57) Dibromomethane | 7.244 | 93 | 149195 | 53.77 | ug/L | 89 |
| 58) 1,4-Dioxane | 7.305 | 88 | 85581 | 1062.00 | ug/L | 91 |
| 59) Methyl Methacrylate | 7.336 | 69 | 176310 | 52.51 | ug/L | 92 |
| 60) Bromodichloromethane | 7.476 | 83 | 274481 | 56.21 | ug/L | 96 |
| 61) 2-Nitropropane | 7.756 | 41 | 144285 | 119.60 | ug/L | 95 |
| 62) 2-Chloroethylvinyl Ether | 7.884 | 63 | 151727 | 54.78 | ug/L | 99 |
| 63) cis-1,3-Dichloropropene | 8.018 | 75 | 290558 | 52.36 | ug/L | 96 |
| 64) 4-Methyl-2-pentanone | 8.226 | 43 | 383026 | 54.46 | ug/L | 96 |
| 66) Toluene | 8.390 | 91 | 880136 | 52.51 | ug/L | 96 |
| 67) trans-1,3-Dichloropropene | 8.659 | 75 | 242790 | 50.69 | ug/L | 96 |
| 68) Ethyl Methacrylate | 8.805 | 69 | 305206 | 51.26 | ug/L | 88 |
| 69) 1,1,2-Trichloroethane | 8.848 | 97 | 208502 | 55.40 | ug/L | 97 |
| 72) Tetrachloroethene | 8.982 | 164 | 143308 | 43.85 | ug/L | 93 |
| 73) 2-Hexanone | 9.140 | 43 | 270356 | 51.31 | ug/L | 93 |
| 74) 1,3-Dichloropropane | 9.018 | 76 | 357384 | 50.16 | ug/L | 94 |
| 75) Dibromochloromethane | 9.244 | 129 | 221858 | 60.44 | ug/L | 95 |
| 76) N-Butyl Acetate | 9.299 | 43 | 550262 | 52.89 | ug/L | 95 |
| 77) 1,2-Dibromoethane | 9.341 | 107 | 217443 | 53.16 | ug/L | 95 |
| 78) 3-Chlorobenzotrifluoride | 9.853 | 180 | 292823 | 45.73 | ug/L | 97 |
| 79) Chlorobenzene | 9.835 | 112 | 581944 | 50.35 | ug/L | 98 |
| 80) 4-Chlorobenzotrifluoride | 9.908 | 180 | 264695 | 46.84 | ug/L | 95 |
| 81) 1,1,1,2-Tetrachloroethane | 9.927 | 131 | 187288 | 53.83 | ug/L | 97 |
| 82) Ethylbenzene | 9.957 | 106 | 297299 | 49.68 | ug/L | 96 |
| 83) (m+p)Xylene | 10.067 | 106 | 724840 | 100.64 | ug/L | 99 |
| 84) o-Xylene | 10.427 | 106 | 368303 | 51.04 | ug/L | 98 |
| 85) Styrene | 10.439 | 104 | 646358 | 53.42 | ug/L | 98 |
| 86) Bromoform | 10.591 | 173 | 134449 | 57.07 | ug/L | 95 |
| 87) 2-Chlorobenzotrifluoride | 10.670 | 180 | 307706 | 48.98 | ug/L | 99 |
| 88) Isopropylbenzene | 10.762 | 105 | 873711 | 50.03 | ug/L | 98 |
| 89) Cyclohexanone | 10.823 | 55 | 697980 | 799.75 | ug/L | 90 |
| 90) trans-1,4-Dichloro-2-B... | 11.073 | 53 | 58970 | 35.12 | ug/L | 93 |
| 92) 1,1,2,2-Tetrachloroethane | 11.024 | 83 | 317776 | 56.14 | ug/L | 98 |
| 93) Bromobenzene | 11.006 | 156 | 253117 | 49.72 | ug/L | 97 |
| 94) 1,2,3-Trichloropropane | 11.048 | 110 | 102170 | 53.23 | ug/L | 91 |
| 95) n-Propylbenzene | 11.115 | 91 | 1085827 | 50.95 | ug/L | 99 |
| 96) 2-Chlorotoluene | 11.182 | 91 | 673288 | 50.53 | ug/L | 94 |
| 97) 3-Chlorotoluene | 11.231 | 91 | 794412 | 55.66 | ug/L | 98 |
| 98) 4-Chlorotoluene | 11.274 | 91 | 772842 | 50.88 | ug/L | 97 |
| 99) 1,3,5-Trimethylbenzene | 11.274 | 105 | 806057 | 51.98 | ug/L | 99 |
| 100) tert-Butylbenzene | 11.542 | 119 | 659136 | 49.39 | ug/L | 100 |
| 101) 1,2,4-Trimethylbenzene | 11.579 | 105 | 802979 | 51.94 | ug/L | 98 |
| 102) 3,4-Dichlorobenzotrifl... | 11.640 | 214 | 228903 | 46.87 | ug/L | 98 |
| 103) sec-Butylbenzene | 11.725 | 105 | 935404 | 50.87 | ug/L | 99 |

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5583.D
Acq On : 8 Sep 2022 12:24 pm
Operator : F.NAEGLER
Sample : 50 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 08 14:32:53 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration

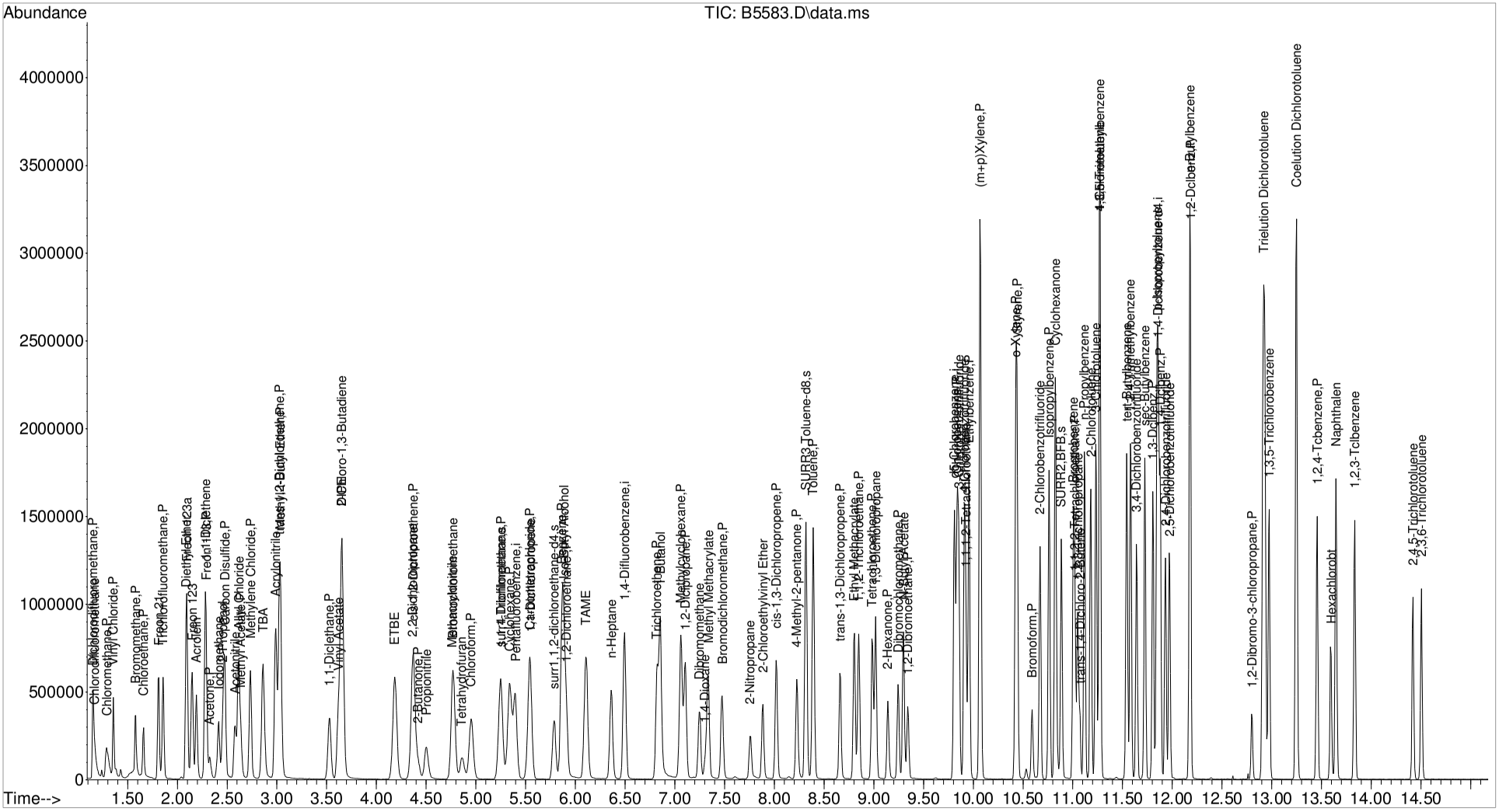
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 104) p-Isopropyltoluene | 11.847 | 119 | 815932 | 51.34 | ug/L | 98 |
| 105) 1,3-Dclbenz | 11.804 | 146 | 468146 | 50.34 | ug/L | 98 |
| 106) 1,4-Dclbenz | 11.877 | 146 | 474781 | 50.66 | ug/L | 98 |
| 107) 2,4-Dichlorobenzotrifl... | 11.932 | 214 | 206386 | 46.50 | ug/L | 96 |
| 108) 2,5-Dichlorobenzotrifl... | 11.975 | 214 | 229984 | 46.23 | ug/L | 95 |
| 109) n-Butylbenzene | 12.176 | 91 | 710826 | 53.08 | ug/L | 98 |
| 110) 1,2-Dclbenz | 12.182 | 146 | 480679 | 50.89 | ug/L | 99 |
| 111) 1,2-Dibromo-3-chloropr... | 12.804 | 157 | 61639 | 57.14 | ug/L | 85 |
| 112) Trielution Dichlorotol... | 12.920 | 125 | 1313139 | 169.76 | ug/L | 96 |
| 113) 1,3,5-Trichlorobenzene | 12.975 | 180 | 336245 | 49.68 | ug/L | 99 |
| 114) Coelution Dichlorotoluene | 13.249 | 125 | 968848 | 117.99 | ug/L | 97 |
| 115) 1,2,4-Tcbenzene | 13.456 | 180 | 309911 | 49.84 | ug/L | 96 |
| 116) Hexachlorobt | 13.597 | 225 | 95102 | 39.31 | ug/L | 96 |
| 117) Naphthalen | 13.645 | 128 | 963018 | 62.74 | ug/L | 99 |
| 118) 1,2,3-Tclbenzene | 13.834 | 180 | 308073 | 47.99 | ug/L | 97 |
| 119) 2,4,5-Trichlorotoluene | 14.420 | 159 | 192705 | 55.18 | ug/L | 99 |
| 120) 2,3,6-Trichlorotoluene | 14.505 | 159 | 181262 | 56.40 | ug/L | 95 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5583.D
Acq On : 8 Sep 2022 12:24 pm
Operator : F.NAEGLER
Sample : 50 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 08 14:32:53 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration






1st FJ 09/08/22
2nd 09/12/22

# Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5584.D
Acq On : 8 Sep 2022 12:46 pm
Operator : F.NAEGLER
Sample : 100 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 08 14:34:06 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Pentafluorobenzene | 5.397 | 168 | 439179 | 50.00 | ug/L | | 0.00 |
| 42) 1,4-Difluorobenzene | 6.494 | 114 | 727127 | 50.00 | ug/L | | 0.00 |
| 71) d5-Chlorobenzene | 9.811 | 117 | 689225 | 50.00 | ug/L | | 0.00 |
| 91) 1,4-Dichlorobenzene-d4 | 11.859 | 152 | 360954 | 50.00 | ug/L | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 44) surr4,Dibrflmethane | 5.245 | 113 | 465225 | 110.27 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 116 | | Recovery = 220.54%# | | | | |
| 47) surr1,1,2-dichloroetha... | 5.787 | 65 | 580971 | 104.41 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 73 - 125 | | Recovery = 208.82%# | | | | |
| 65) SURR3,Toluene-d8 | 8.317 | 98 | 1760817 | 107.74 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 87 - 121 | | Recovery = 215.48%# | | | | |
| 70) SURR2,BFB | 10.884 | 95 | 675599 | 104.66 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 85 - 122 | | Recovery = 209.32%# | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Chlorodifluoromethane | 1.166 | 51 | 475281 | 92.75 | ug/L | | 99 |
| 3) Dichlorodifluoromethane | 1.148 | 85 | 562911 | 117.23 | ug/L | | 98 |
| 4) Chloromethane | 1.288 | 50 | 559698 | 102.94 | ug/L | | 99 |
| 5) Vinyl Chloride | 1.355 | 62 | 552104 | 99.44 | ug/L | | 99 |
| 6) Bromomethane | 1.575 | 94 | 260088 | 97.91 | ug/L | | 98 |
| 7) Chloroethane | 1.654 | 64 | 341578 | 106.41 | ug/L | | 99 |
| 8) Freon 21 | 1.806 | 67 | 848437 | 113.50 | ug/L | | 93 |
| 9) Trichlorofluoromethane | 1.855 | 101 | 705132 | 129.50 | ug/L | | 99 |
| 10) Diethyl Ether | 2.093 | 59 | 416225 | 106.52 | ug/L | | 91 |
| 11) Freon 123a | 2.093 | 67 | 511142 | 108.41 | ug/L | | 98 |
| 12) Freon 123 | 2.148 | 83 | 580405 | 113.71 | ug/L | | 98 |
| 13) Acrolein | 2.190 | 56 | 564185 | 599.65 | ug/L | | 98 |
| 14) 1,1-Diclethene | 2.282 | 96 | 380992 | 114.75 | ug/L | # | 87 |
| 15) Freon 113 | 2.288 | 101 | 404298 | 117.92 | ug/L | | 93 |
| 16) Acetone | 2.325 | 43 | 244859 | 98.86 | ug/L | | 95 |
| 17) 2-Propanol | 2.465 | 45 | 1012416 | 2144.24 | ug/L | | 98 |
| 18) Iodomethane | 2.416 | 142 | 621409 | 109.62 | ug/L | | 94 |
| 19) Carbon Disulfide | 2.471 | 76 | 1061028 | 104.71 | ug/L | | 99 |
| 20) Acetonitrile | 2.581 | 41 | 527903 | 604.10 | ug/L | | 96 |
| 21) Allyl Chloride | 2.617 | 76 | 208500 | 105.56 | ug/L | # | 91 |
| 22) Methyl Acetate | 2.635 | 43 | 616679 | 99.21 | ug/L | | 96 |
| 23) Methylene Chloride | 2.733 | 84 | 457986 | 113.57 | ug/L | | 96 |
| 24) TBA | 2.867 | 59 | 1313382 | 1947.47 | ug/L | | 84 |
| 25) Acrylonitrile | 2.989 | 53 | 1254752 | 540.04 | ug/L | | 98 |
| 26) Methyl-t-Butyl Ether | 3.032 | 73 | 1408944 | 114.09 | ug/L | | 99 |
| 27) trans-1,2-Dichloroethene | 3.026 | 96 | 424748 | 118.43 | ug/L | | 96 |
| 28) 1,1-Diclethane | 3.525 | 63 | 816460 | 110.90 | ug/L | | 98 |
| 29) Vinyl Acetate | 3.617 | 86 | 98342 | 173.27 | ug/L | # | 60 |
| 30) DIPE | 3.654 | 45 | 1794150 | 110.14 | ug/L | | 96 |
| 31) 2-Chloro-1,3-Butadiene | 3.647 | 53 | 739621 | 111.03 | ug/L | | 99 |
| 32) ETBE | 4.184 | 59 | 1269950 | 94.84 | ug/L | | 95 |
| 33) 2,2-Dichloropropane | 4.367 | 77 | 464358 | 105.09 | ug/L | | 97 |
| 34) cis-1,2-Dichloroethene | 4.373 | 96 | 486510 | 118.05 | ug/L | | 89 |
| 35) 2-Butanone | 4.416 | 43 | 421121 | 113.93 | ug/L | | 95 |
| 36) Propionitrile | 4.507 | 54 | 513044 | 532.25 | ug/L | | 93 |
| 37) Bromochloromethane | 4.769 | 130 | 326185 | 117.47 | ug/L | | 89 |
| 38) Methacrylonitrile | 4.775 | 67 | 243725 | 106.64 | ug/L | | 91 |
| 39) Tetrahydrofuran | 4.861 | 42 | 254791 | 113.60 | ug/L | | 96 |
| 40) Chloroform | 4.958 | 83 | 817324 | 121.36 | ug/L | | 97 |

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5584.D
Acq On : 8 Sep 2022 12:46 pm
Operator : F.NAEGLER
Sample : 100 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 08 14:34:06 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 41) 1,1,1-Trichloroethane | 5.251 | 97 | 639099 | 123.05 | ug/L | 99 |
| 43) Cyclohexane | 5.336 | 41 | 581456 | 104.26 | ug/L | 96 |
| 45) Carbontetrachloride | 5.537 | 117 | 531602 | 119.28 | ug/L | 98 |
| 46) 1,1-Dichloropropene | 5.549 | 75 | 574279 | 104.18 | ug/L | 94 |
| 48) Benzene | 5.867 | 78 | 1717815 | 103.36 | ug/L | 99 |
| 49) 1,2-Dichloroethane | 5.909 | 62 | 734516 | 107.89 | ug/L | 98 |
| 50) Iso-Butyl Alcohol | 5.885 | 43 | 748448 | 2010.88 | ug/L | 99 |
| 51) TAME | 6.104 | 73 | 1141006 | 90.91 | ug/L | 96 |
| 52) n-Heptane | 6.360 | 43 | 633005 | 102.23 | ug/L | 98 |
| 53) 1-Butanol | 6.854 | 56 | 1001023 | 5250.41 | ug/L | 95 |
| 54) Trichloroethene | 6.824 | 130 | 455754 | 104.36 | ug/L | 97 |
| 55) Methylcyclohexane | 7.061 | 55 | 569899 | 92.63 | ug/L | 91 |
| 56) 1,2-Diclpropane | 7.104 | 63 | 475817 | 100.61 | ug/L | 100 |
| 57) Dibromomethane | 7.244 | 93 | 322657 | 110.27 | ug/L | 87 |
| 58) 1,4-Dioxane | 7.311 | 88 | 188136 | 2213.75 | ug/L | 88 |
| 59) Methyl Methacrylate | 7.336 | 69 | 380937 | 107.58 | ug/L | 98 |
| 60) Bromodichloromethane | 7.476 | 83 | 620730 | 120.54 | ug/L | 95 |
| 61) 2-Nitropropane | 7.756 | 41 | 331789 | 260.78 | ug/L | 99 |
| 62) 2-Chloroethylvinyl Ether | 7.884 | 63 | 320786 | 109.81 | ug/L | 96 |
| 63) cis-1,3-Dichloropropene | 8.019 | 75 | 664998 | 113.64 | ug/L | 98 |
| 64) 4-Methyl-2-pentanone | 8.226 | 43 | 805602 | 108.61 | ug/L | 96 |
| 66) Toluene | 8.390 | 91 | 1931401 | 109.26 | ug/L | 99 |
| 67) trans-1,3-Dichloropropene | 8.659 | 75 | 571259 | 113.10 | ug/L | 96 |
| 68) Ethyl Methacrylate | 8.805 | 69 | 678302 | 108.01 | ug/L | 89 |
| 69) 1,1,2-Trichloroethane | 8.848 | 97 | 456820 | 115.09 | ug/L | 97 |
| 72) Tetrachloroethene | 8.988 | 164 | 327040 | 92.06 | ug/L | 96 |
| 73) 2-Hexanone | 9.140 | 43 | 589183 | 102.87 | ug/L | 93 |
| 74) 1,3-Dichloropropane | 9.018 | 76 | 753792 | 97.33 | ug/L | 90 |
| 75) Dibromochloromethane | 9.244 | 129 | 499148 | 125.09 | ug/L | 97 |
| 76) N-Butyl Acetate | 9.299 | 43 | 1233517 | 109.07 | ug/L | 97 |
| 77) 1,2-Dibromoethane | 9.341 | 107 | 492597 | 110.79 | ug/L | 93 |
| 78) 3-Chlorobenzotrifluoride | 9.854 | 180 | 605108 | 86.94 | ug/L | 97 |
| 79) Chlorobenzene | 9.835 | 112 | 1291642 | 102.81 | ug/L | 99 |
| 80) 4-Chlorobenzotrifluoride | 9.908 | 180 | 548043 | 89.21 | ug/L | 95 |
| 81) 1,1,1,2-Tetrachloroethane | 9.927 | 131 | 445218 | 117.71 | ug/L | 96 |
| 82) Ethylbenzene | 9.957 | 106 | 680686 | 104.64 | ug/L | 99 |
| 83) (m+p)Xylene | 10.073 | 106 | 1650267 | 210.80 | ug/L | 92 |
| 84) o-Xylene | 10.427 | 106 | 837761 | 106.81 | ug/L | 99 |
| 85) Styrene | 10.439 | 104 | 1438943 | 109.40 | ug/L | 99 |
| 86) Bromoform | 10.591 | 173 | 304684 | 118.98 | ug/L | 98 |
| 87) 2-Chlorobenzotrifluoride | 10.670 | 180 | 630385 | 92.31 | ug/L | 98 |
| 88) Isopropylbenzene | 10.762 | 105 | 2004643 | 105.59 | ug/L | 99 |
| 89) Cyclohexanone | 10.829 | 55 | 1594322 | 1680.55 | ug/L | 91 |
| 90) trans-1,4-Dichloro-2-B... | 11.073 | 53 | 131578 | 72.10 | ug/L | 96 |
| 92) 1,1,2,2-Tetrachloroethane | 11.024 | 83 | 669888 | 107.95 | ug/L | 96 |
| 93) Bromobenzene | 11.006 | 156 | 568745 | 101.92 | ug/L | 95 |
| 94) 1,2,3-Trichloropropane | 11.048 | 110 | 211354 | 100.44 | ug/L | 94 |
| 95) n-Propylbenzene | 11.115 | 91 | 2460155 | 105.30 | ug/L | 98 |
| 96) 2-Chlorotoluene | 11.183 | 91 | 1513184 | 103.58 | ug/L | 96 |
| 97) 3-Chlorotoluene | 11.237 | 91 | 1570292 | 100.36 | ug/L | 97 |
| 98) 4-Chlorotoluene | 11.274 | 91 | 1726053 | 103.66 | ug/L | 96 |
| 99) 1,3,5-Trimethylbenzene | 11.268 | 105 | 1854978 | 109.11 | ug/L | 99 |
| 100) tert-Butylbenzene | 11.542 | 119 | 1535750 | 104.98 | ug/L | 99 |
| 101) 1,2,4-Trimethylbenzene | 11.579 | 105 | 1827319 | 107.81 | ug/L | 97 |
| 102) 3,4-Dichlorobenzotrifl... | 11.646 | 214 | 468839 | 87.58 | ug/L | 100 |
| 103) sec-Butylbenzene | 11.725 | 105 | 2204107 | 109.34 | ug/L | 99 |

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5584.D
Acq On : 8 Sep 2022 12:46 pm
Operator : F.NAEGLER
Sample : 100 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 08 14:34:06 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration

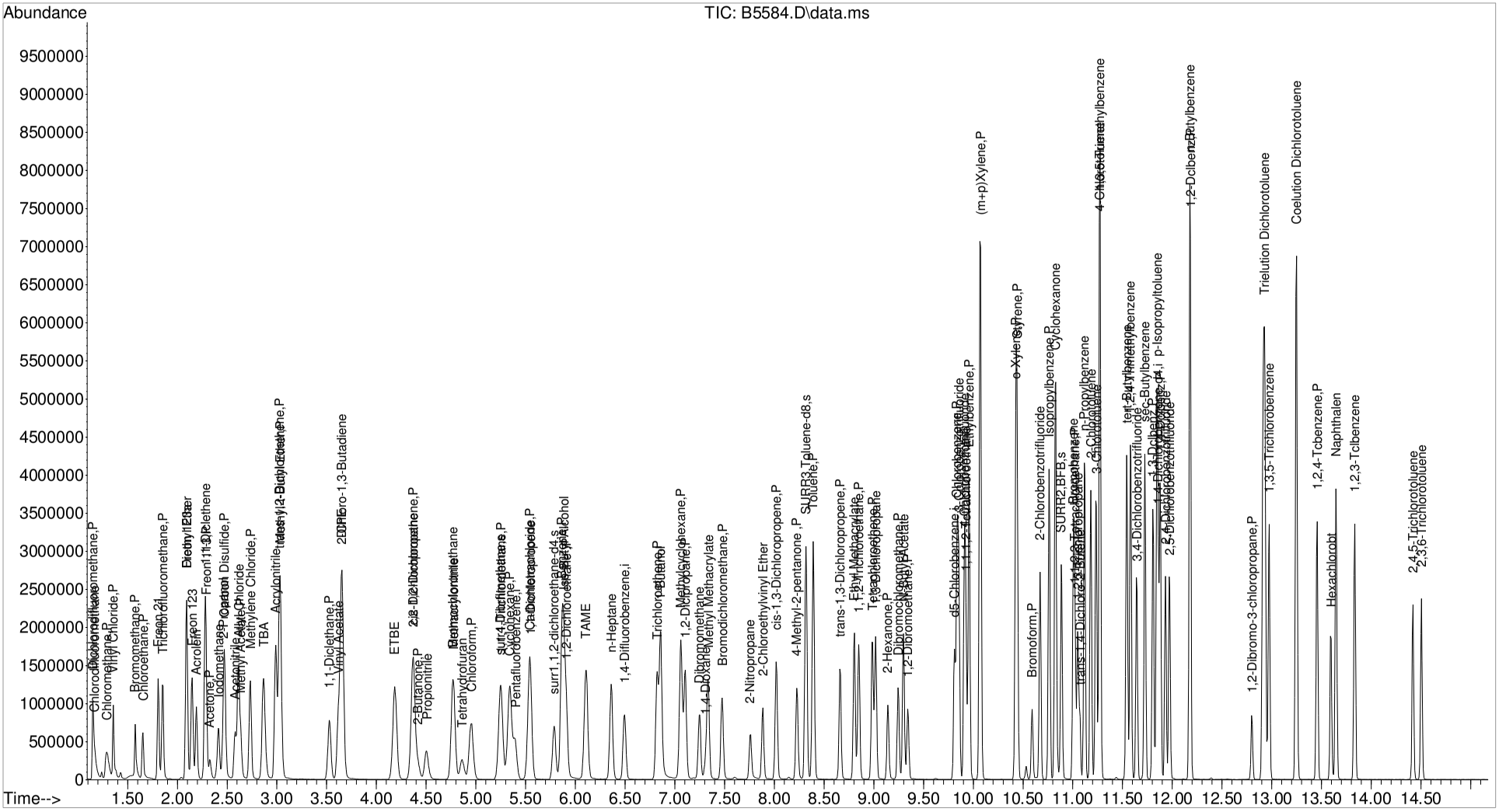
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 104) p-Isopropyltoluene | 11.847 | 119 | 1907694 | 109.50 | ug/L | 97 |
| 105) 1,3-Dclbenz | 11.804 | 146 | 1047313 | 102.72 | ug/L | 98 |
| 106) 1,4-Dclbenz | 11.878 | 146 | 1072921 | 104.44 | ug/L | 99 |
| 107) 2,4-Dichlorobenzotrifl... | 11.932 | 214 | 427551 | 87.87 | ug/L | 95 |
| 108) 2,5-Dichlorobenzotrifl... | 11.975 | 214 | 484857 | 88.91 | ug/L | 97 |
| 109) n-Butylbenzene | 12.176 | 91 | 1735069 | 118.19 | ug/L | 99 |
| 110) 1,2-Dclbenz | 12.182 | 146 | 1077666 | 104.08 | ug/L | 99 |
| 111) 1,2-Dibromo-3-chloropr... | 12.804 | 157 | 142627 | 120.60 | ug/L | 91 |
| 112) Trielution Dichlorotol... | 12.926 | 125 | 2800976 | 330.30 | ug/L | 97 |
| 113) 1,3,5-Trichlorobenzene | 12.975 | 180 | 729677 | 98.34 | ug/L | 96 |
| 114) Coelution Dichlorotoluene | 13.249 | 125 | 2073740 | 230.37 | ug/L | 98 |
| 115) 1,2,4-Tcbenzene | 13.456 | 180 | 737021 | 108.12 | ug/L | 98 |
| 116) Hexachlorobt | 13.597 | 225 | 246166 | 92.81 | ug/L | 95 |
| 117) Naphthalen | 13.645 | 128 | 2180696 | 129.60 | ug/L | 99 |
| 118) 1,2,3-Tclbenzene | 13.834 | 180 | 714764 | 101.57 | ug/L | 95 |
| 119) 2,4,5-Trichlorotoluene | 14.420 | 159 | 429739 | 112.24 | ug/L | 99 |
| 120) 2,3,6-Trichlorotoluene | 14.505 | 159 | 395715 | 112.32 | ug/L | 98 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5584.D
Acq On : 8 Sep 2022 12:46 pm
Operator : F.NAEGLER
Sample : 100 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 08 14:34:06 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration





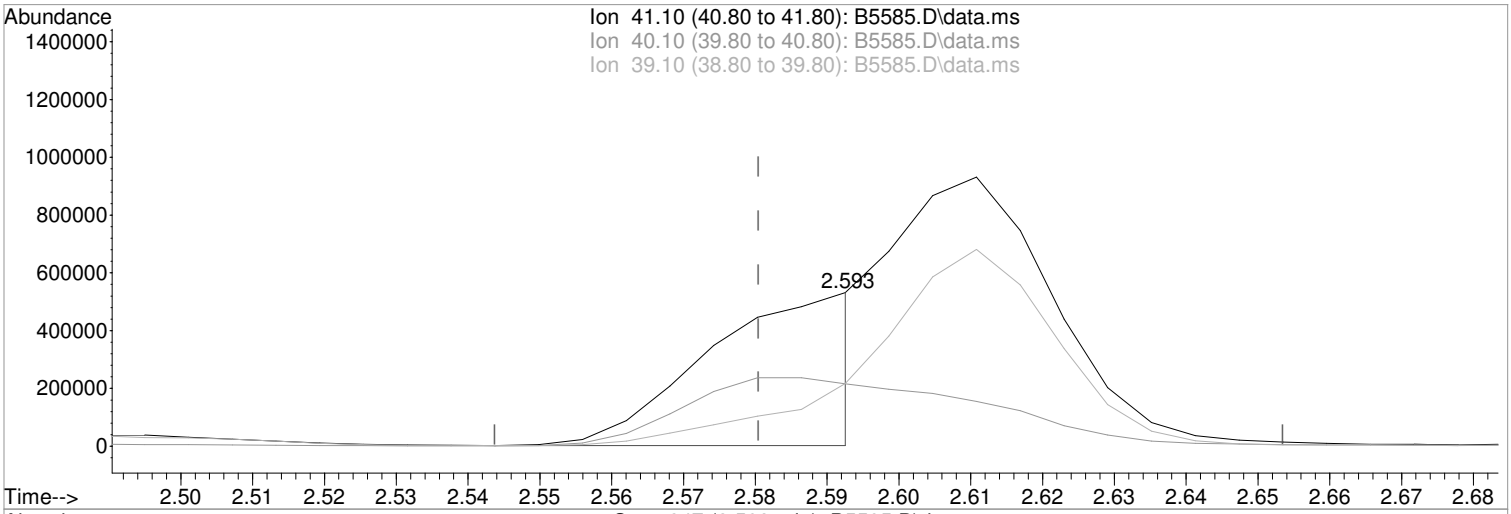

1st FJ 09/08/22
2nd 09/12/22

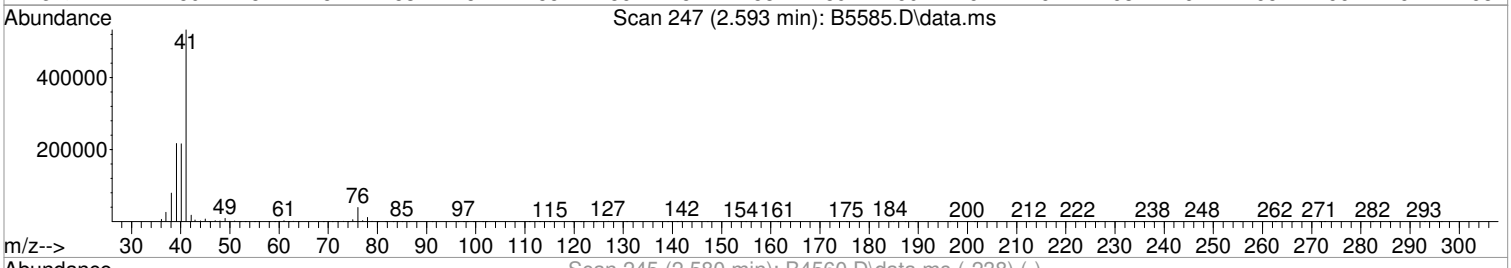
1st FN 09/08/22
2nd 09/12/22

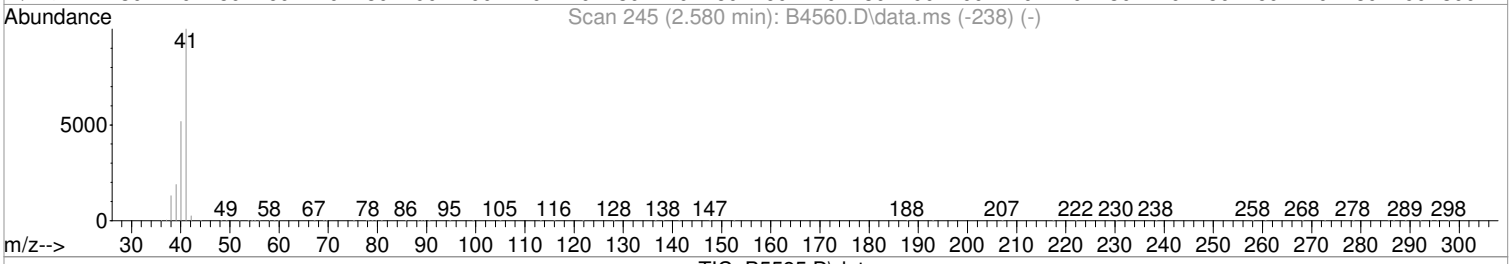
# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5585.D
Acq On : 8 Sep 2022 1:08 pm
Operator : F.NAEGLER
Sample : 150 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 08 14:34:58 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration




TIC: B5585.D\data.ms

(20) Acetonitrile

2.593min (+0.012) 824.47 ug/L m

response 774334

| Ion | Exp% | Act% |
|---|---|---|
| 41.10 | 100 | 100 |
| 40.10 | 52.20 | 40.61 |
| 39.10 | 19.40 | 40.79# |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

After

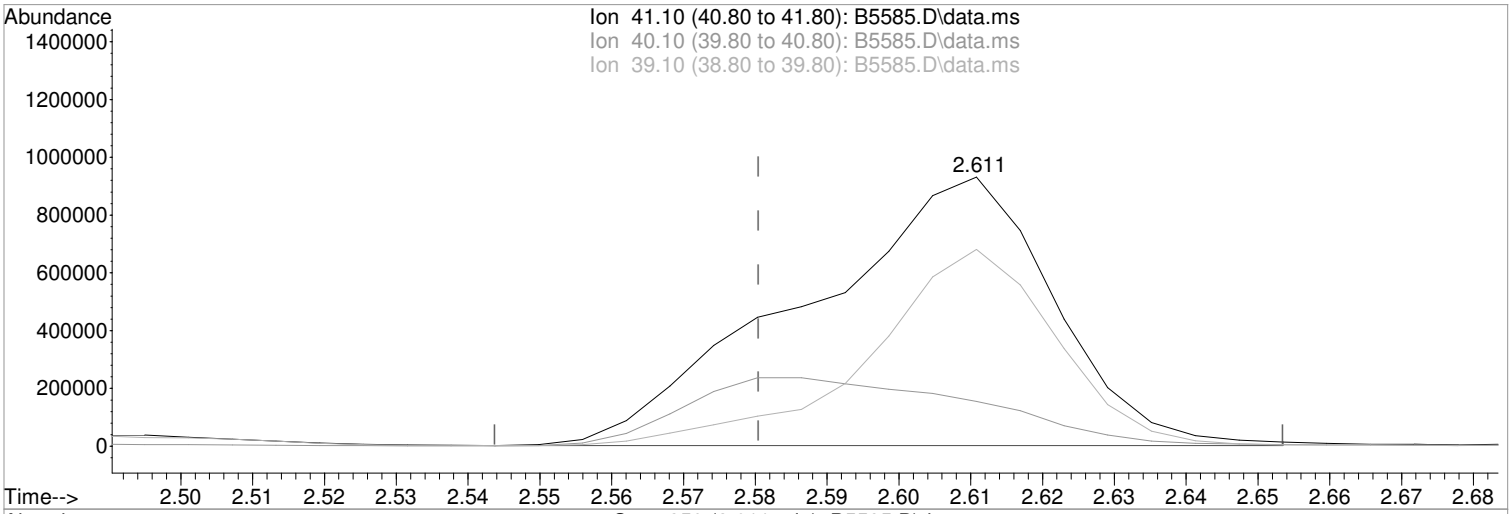
Poor integration.

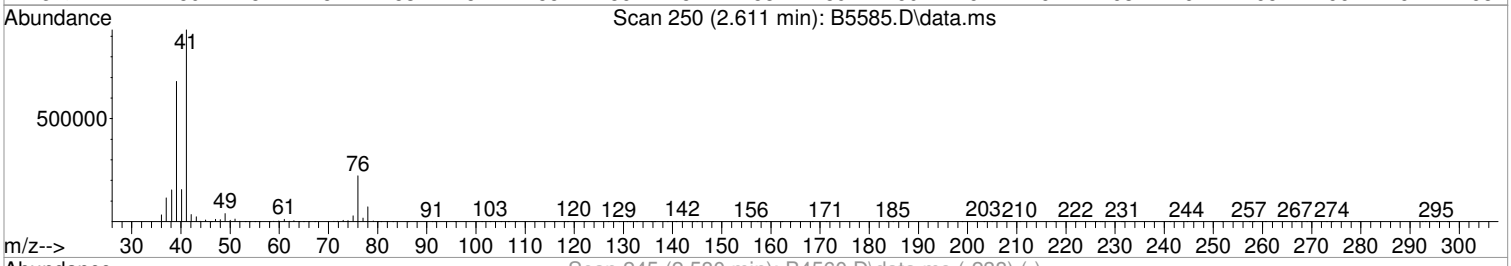
09/08/22

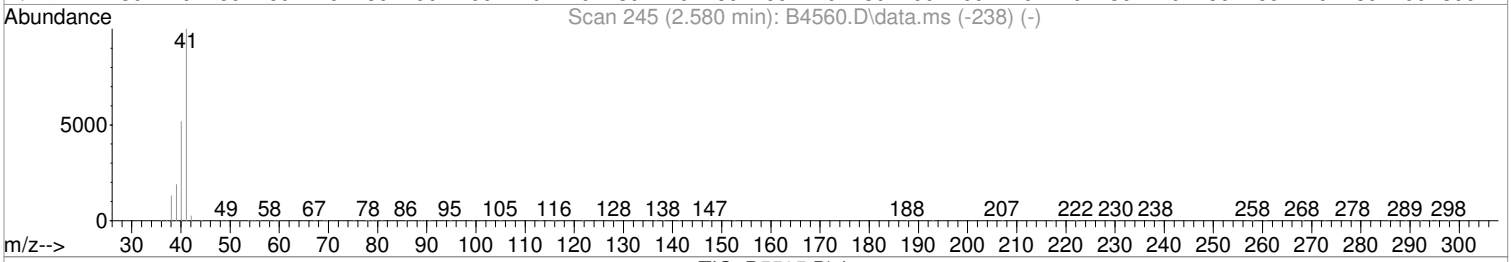
# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5585.D
Acq On : 8 Sep 2022 1:08 pm
Operator : F.NAEGLER
Sample : 150 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 08 14:34:58 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration




TIC: B5585.D\data.ms

(20) Acetonitrile

2.611min (+0.030) 2379.12 ug/L

response 2234450

| Ion | Exp% | Act% |
|---|---|---|
| 41.10 | 100 | 100 |
| 40.10 | 52.20 | 16.69# |
| 39.10 | 19.40 | 73.11# |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

Before

09/08/22

# Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5585.D
Acq On : 8 Sep 2022 1:08 pm
Operator : F.NAEGLER
Sample : 150 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 08 14:35:17 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Pentafluorobenzene | 5.391 | 168 | 472014 | 50.00 | ug/L | | 0.00 |
| 42) 1,4-Difluorobenzene | 6.494 | 114 | 792320 | 50.00 | ug/L | | 0.00 |
| 71) d5-Chlorobenzene | 9.811 | 117 | 727711 | 50.00 | ug/L | | 0.00 |
| 91) 1,4-Dichlorobenzene-d4 | 11.859 | 152 | 382044 | 50.00 | ug/L | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 44) surr4,Dibrflmethane | 5.244 | 113 | 925908 | 201.40 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 116 | | Recovery = 402.80%# | | | | |
| 47) surr1,1,2-dichloroetha... | 5.787 | 65 | 1168779 | 192.77 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 73 - 125 | | Recovery = 385.54%# | | | | |
| 65) SURR3,Toluene-d8 | 8.317 | 98 | 3432932 | 192.78 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 87 - 121 | | Recovery = 385.56%# | | | | |
| 70) SURR2,BFB | 10.884 | 95 | 1350810 | 192.04 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 85 - 122 | | Recovery = 384.08%# | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Chlorodifluoromethane | 1.160 | 51 | 786934 | 142.88 | ug/L | | 100 |
| 3) Dichlorodifluoromethane | 1.148 | 85 | 906848 | 175.71 | ug/L | | 99 |
| 4) Chloromethane | 1.288 | 50 | 890453 | 152.38 | ug/L | | 99 |
| 5) Vinyl Chloride | 1.355 | 62 | 867963 | 145.45 | ug/L | | 95 |
| 6) Bromomethane | 1.574 | 94 | 379737 | 133.00 | ug/L | | 99 |
| 7) Chloroethane | 1.641 | 64 | 558237 | 161.80 | ug/L | | 99 |
| 8) Freon 21 | 1.800 | 67 | 1319121 | 164.19 | ug/L | | 96 |
| 9) Trichlorofluoromethane | 1.843 | 101 | 1134322 | 193.83 | ug/L | | 97 |
| 10) Diethyl Ether | 2.093 | 59 | 657289 | 156.50 | ug/L | | 94 |
| 11) Freon 123a | 2.093 | 67 | 809074 | 159.67 | ug/L | | 95 |
| 12) Freon 123 | 2.147 | 83 | 916838 | 167.12 | ug/L | | 99 |
| 13) Acrolein | 2.190 | 56 | 915569 | 905.43 | ug/L | | 96 |
| 14) 1,1-Diclethene | 2.276 | 96 | 632831 | 177.35 | ug/L | | 91 |
| 15) Freon 113 | 2.282 | 101 | 661324 | 179.47 | ug/L | | 98 |
| 16) Acetone | 2.330 | 43 | 407074 | 152.93 | ug/L | | 97 |
| 17) 2-Propanol | 2.471 | 45 | 1691066 | 3332.43 | ug/L | | 99 |
| 18) Iodomethane | 2.410 | 142 | 1032632 | 169.48 | ug/L | | 92 |
| 19) Carbon Disulfide | 2.471 | 76 | 1823834 | 167.47 | ug/L | | 99 |
| 20) Acetonitrile | 2.593 | 41 | 774334m | 824.47 | ug/L | | |
| 21) Allyl Chloride | 2.611 | 76 | 344182 | 162.13 | ug/L | # | 84 |
| 22) Methyl Acetate | 2.635 | 43 | 969926 | 145.18 | ug/L | | 96 |
| 23) Methylene Chloride | 2.733 | 84 | 721707 | 166.52 | ug/L | | 95 |
| 24) TBA | 2.873 | 59 | 2197937 | 3032.37 | ug/L | | 88 |
| 25) Acrylonitrile | 2.989 | 53 | 1973407 | 790.26 | ug/L | | 100 |
| 26) Methyl-t-Butyl Ether | 3.038 | 73 | 2250838 | 169.58 | ug/L | | 98 |
| 27) trans-1,2-Dichloroethene | 3.025 | 96 | 695951 | 180.55 | ug/L | | 91 |
| 28) 1,1-Diclethane | 3.525 | 63 | 1307094 | 165.19 | ug/L | | 99 |
| 29) Vinyl Acetate | 3.623 | 86 | 161950 | 265.49 | ug/L | # | 68 |
| 30) DIPE | 3.653 | 45 | 2833944 | 161.87 | ug/L | | 93 |
| 31) 2-Chloro-1,3-Butadiene | 3.647 | 53 | 1252975 | 175.01 | ug/L | | 99 |
| 32) ETBE | 4.184 | 59 | 2081509 | 144.63 | ug/L | | 95 |
| 33) 2,2-Dichloropropane | 4.367 | 77 | 822006 | 173.09 | ug/L | | 95 |
| 34) cis-1,2-Dichloroethene | 4.373 | 96 | 779785 | 176.05 | ug/L | | 90 |
| 35) 2-Butanone | 4.421 | 43 | 657811 | 165.58 | ug/L | | 98 |
| 36) Propionitrile | 4.507 | 54 | 826408 | 797.70 | ug/L | | 95 |
| 37) Bromochloromethane | 4.769 | 130 | 525788 | 176.17 | ug/L | # | 88 |
| 38) Methacrylonitrile | 4.775 | 67 | 387604 | 157.79 | ug/L | # | 85 |
| 39) Tetrahydrofuran | 4.860 | 42 | 406880 | 168.79 | ug/L | | 93 |
| 40) Chloroform | 4.952 | 83 | 1286183 | 177.70 | ug/L | | 99 |

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5585.D
Acq On : 8 Sep 2022 1:08 pm
Operator : F.NAEGLER
Sample : 150 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 08 14:35:17 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | | Dev(Min) |
|---|---|---|---|---|---|---|
| 41) 1,1,1-Trichloroethane | 5.257 | 97 | 1063810 | 190.57 ug/L | | 96 |
| 43) Cyclohexane | 5.342 | 41 | 914471 | 150.48 ug/L | | 95 |
| 45) Carbontetrachloride | 5.537 | 117 | 873911 | 179.95 ug/L | | 97 |
| 46) 1,1-Dichloropropene | 5.549 | 75 | 923769 | 153.79 ug/L | | 96 |
| 48) Benzene | 5.866 | 78 | 2688787 | 148.47 ug/L | | 100 |
| 49) 1,2-Dichloroethane | 5.909 | 62 | 1124054 | 151.53 ug/L | | 98 |
| 50) Iso-Butyl Alcohol | 5.891 | 43 | 1257624 | 3100.88 ug/L | | 99 |
| 51) TAME | 6.110 | 73 | 1877733 | 137.29 ug/L | | 98 |
| 52) n-Heptane | 6.360 | 43 | 1078891 | 159.90 ug/L | | 98 |
| 53) 1-Butanol | 6.866 | 56 | 1686889 | 8119.79 ug/L | | 96 |
| 54) Trichloroethene | 6.823 | 130 | 741992 | 155.92 ug/L | | 98 |
| 55) Methylcyclohexane | 7.061 | 55 | 912171 | 136.06 ug/L | | 90 |
| 56) 1,2-Diclpropane | 7.104 | 63 | 750680 | 145.67 ug/L | | 100 |
| 57) Dibromomethane | 7.250 | 93 | 505960 | 158.68 ug/L | | 95 |
| 58) 1,4-Dioxane | 7.311 | 88 | 288123 | 3111.32 ug/L | | 90 |
| 59) Methyl Methacrylate | 7.335 | 69 | 607662 | 157.49 ug/L | | 91 |
| 60) Bromodichloromethane | 7.476 | 83 | 975690 | 173.89 ug/L | | 96 |
| 61) 2-Nitropropane | 7.762 | 41 | 534229 | 385.34 ug/L | | 98 |
| 62) 2-Chloroethylvinyl Ether | 7.884 | 63 | 529909 | 166.48 ug/L | | 98 |
| 63) cis-1,3-Dichloropropene | 8.018 | 75 | 1085635 | 170.26 ug/L | | 98 |
| 64) 4-Methyl-2-pentanone | 8.226 | 43 | 1289381 | 159.53 ug/L | | 95 |
| 66) Toluene | 8.390 | 91 | 3004633 | 155.98 ug/L | | 99 |
| 67) trans-1,3-Dichloropropene | 8.658 | 75 | 965807 | 175.48 ug/L | | 95 |
| 68) Ethyl Methacrylate | 8.805 | 69 | 1107337 | 161.83 ug/L | | 94 |
| 69) 1,1,2-Trichloroethane | 8.847 | 97 | 702144 | 162.34 ug/L | | 98 |
| 72) Tetrachloroethene | 8.988 | 164 | 539848 | 143.93 ug/L | | 95 |
| 73) 2-Hexanone | 9.140 | 43 | 950197 | 157.12 ug/L | | 92 |
| 74) 1,3-Dichloropropane | 9.018 | 76 | 1173653 | 143.53 ug/L | | 93 |
| 75) Dibromochloromethane | 9.244 | 129 | 802449 | 190.47 ug/L | | 99 |
| 76) N-Butyl Acetate | 9.299 | 43 | 1967639 | 164.78 ug/L | | 95 |
| 77) 1,2-Dibromoethane | 9.341 | 107 | 760407 | 161.97 ug/L | | 97 |
| 78) 3-Chlorobenzotrifluoride | 9.859 | 180 | 1037293 | 141.15 ug/L | | 97 |
| 79) Chlorobenzene | 9.835 | 112 | 2024715 | 152.64 ug/L | | 99 |
| 80) 4-Chlorobenzotrifluoride | 9.914 | 180 | 928722 | 143.19 ug/L | | 98 |
| 81) 1,1,1,2-Tetrachloroethane | 9.926 | 131 | 719717 | 180.22 ug/L | | 97 |
| 82) Ethylbenzene | 9.957 | 106 | 1083484 | 157.76 ug/L | # | 91 |
| 83) (m+p)Xylene | 10.073 | 106 | 2635355 | 318.82 ug/L | # | 87 |
| 84) o-Xylene | 10.426 | 106 | 1315340 | 158.82 ug/L | | 95 |
| 85) Styrene | 10.439 | 104 | 2253783 | 162.29 ug/L | | 99 |
| 86) Bromoform | 10.591 | 173 | 485107 | 179.41 ug/L | | 95 |
| 87) 2-Chlorobenzotrifluoride | 10.670 | 180 | 1028053 | 142.59 ug/L | | 94 |
| 88) Isopropylbenzene | 10.762 | 105 | 3184891 | 158.89 ug/L | | 98 |
| 89) Cyclohexanone | 10.829 | 55 | 2834989 | 2830.27 ug/L | | 89 |
| 90) trans-1,4-Dichloro-2-B... | 11.073 | 53 | 218806 | 113.55 ug/L | | 91 |
| 92) 1,1,2,2-Tetrachloroethane | 11.024 | 83 | 1033816 | 157.39 ug/L | | 96 |
| 93) Bromobenzene | 11.012 | 156 | 892679 | 151.13 ug/L | | 88 |
| 94) 1,2,3-Trichloropropane | 11.048 | 110 | 336065 | 150.89 ug/L | # | 90 |
| 95) n-Propylbenzene | 11.121 | 91 | 3859692 | 156.08 ug/L | | 96 |
| 96) 2-Chlorotoluene | 11.182 | 91 | 2341169 | 151.41 ug/L | | 94 |
| 97) 3-Chlorotoluene | 11.237 | 91 | 2474499 | 149.41 ug/L | | 96 |
| 98) 4-Chlorotoluene | 11.274 | 91 | 2737818 | 155.35 ug/L | | 95 |
| 99) 1,3,5-Trimethylbenzene | 11.274 | 105 | 2921743 | 162.37 ug/L | | 96 |
| 100) tert-Butylbenzene | 11.542 | 119 | 2425159 | 156.62 ug/L | | 99 |
| 101) 1,2,4-Trimethylbenzene | 11.585 | 105 | 2871606 | 160.08 ug/L | | 95 |
| 102) 3,4-Dichlorobenzotrifl... | 11.646 | 214 | 784062 | 138.37 ug/L | | 98 |
| 103) sec-Butylbenzene | 11.725 | 105 | 3458462 | 162.10 ug/L | | 97 |

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5585.D
Acq On : 8 Sep 2022 1:08 pm
Operator : F.NAEGLER
Sample : 150 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 08 14:35:17 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration

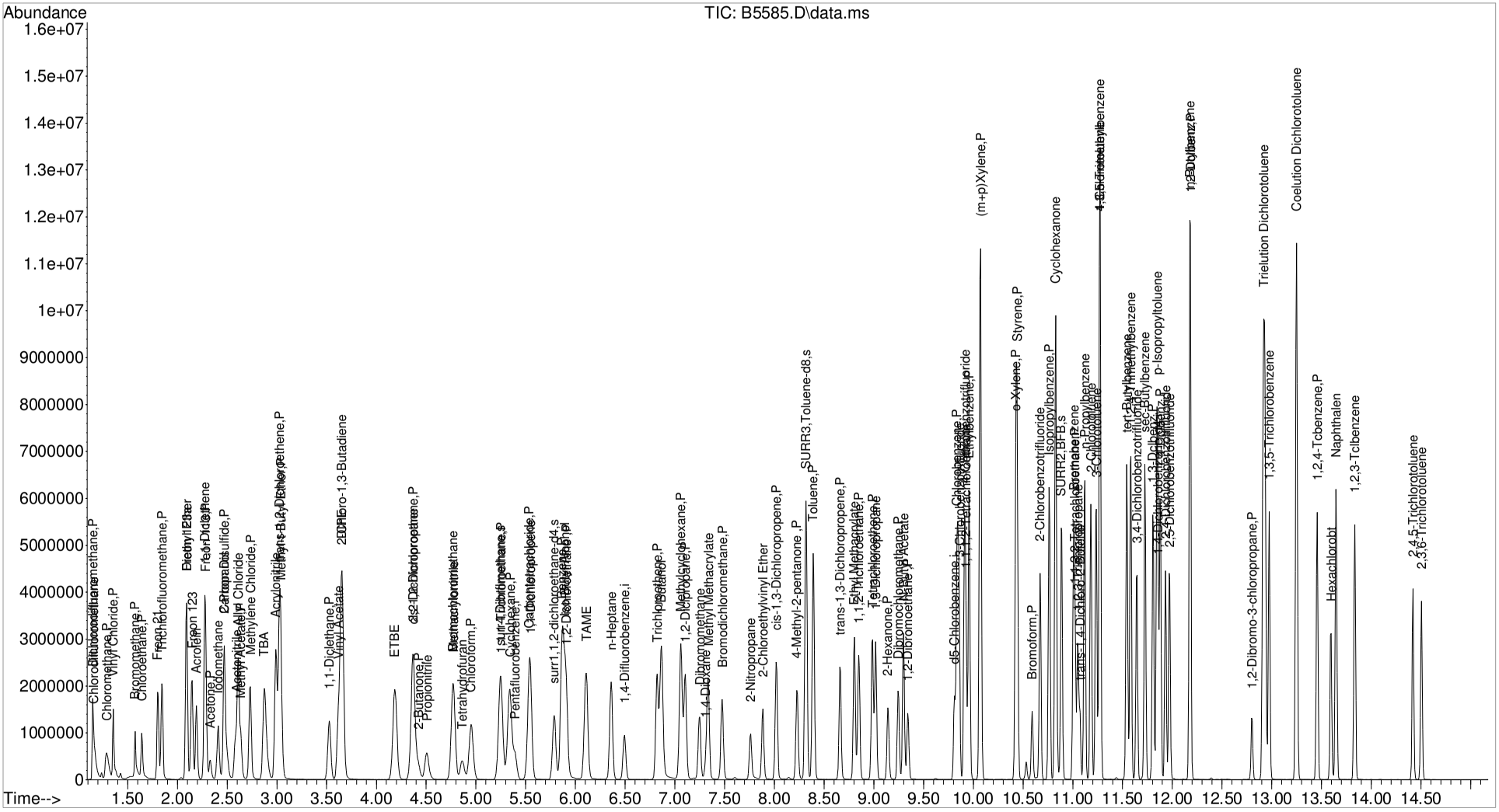
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 104) p-Isopropyltoluene | 11.847 | 119 | 3053098 | 165.57 | ug/L | 97 |
| 105) 1,3-Dclbenz | 11.804 | 146 | 1693904 | 156.97 | ug/L | 99 |
| 106) 1,4-Dclbenz | 11.877 | 146 | 1711147 | 157.37 | ug/L | 99 |
| 107) 2,4-Dichlorobenzotrifl... | 11.932 | 214 | 731320 | 142.00 | ug/L | 98 |
| 108) 2,5-Dichlorobenzotrifl... | 11.975 | 214 | 830171 | 143.82 | ug/L | 97 |
| 109) n-Butylbenzene | 12.176 | 91 | 2739744 | 176.32 | ug/L | 99 |
| 110) 1,2-Dclbenz | 12.182 | 146 | 1696651 | 154.82 | ug/L | 99 |
| 111) 1,2-Dibromo-3-chloropr... | 12.804 | 157 | 236370 | 188.83 | ug/L | 92 |
| 112) Trielution Dichlorotol... | 12.920 | 125 | 4610000 | 513.61 | ug/L | 99 |
| 113) 1,3,5-Trichlorobenzene | 12.975 | 180 | 1207489 | 153.75 | ug/L | 98 |
| 114) Coelution Dichlorotoluene | 13.249 | 125 | 3377309 | 354.47 | ug/L | 97 |
| 115) 1,2,4-Tcbenzene | 13.456 | 180 | 1209605 | 167.64 | ug/L | 98 |
| 116) Hexachlorobt | 13.596 | 225 | 414189 | 147.54 | ug/L | 96 |
| 117) Naphthalen | 13.645 | 128 | 3502187 | 196.64 | ug/L | 99 |
| 118) 1,2,3-Tclbenzene | 13.834 | 180 | 1149335 | 154.31 | ug/L | 98 |
| 119) 2,4,5-Trichlorotoluene | 14.419 | 159 | 731273 | 180.46 | ug/L | 96 |
| 120) 2,3,6-Trichlorotoluene | 14.505 | 159 | 658087 | 176.47 | ug/L | 98 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5585.D
Acq On : 8 Sep 2022 1:08 pm
Operator : F.NAEGLER
Sample : 150 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 08 14:35:17 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration






1st FNJ 09/08/22
2nd 09/12/22

# Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5586.D
Acq On : 8 Sep 2022 1:29 pm
Operator : F.NAEGLER
Sample : 200 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 08 14:36:08 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Pentafluorobenzene | 5.397 | 168 | 483933 | 50.00 | ug/L | | 0.00 |
| 42) 1,4-Difluorobenzene | 6.494 | 114 | 793689 | 50.00 | ug/L | | 0.00 |
| 71) d5-Chlorobenzene | 9.811 | 117 | 746685 | 50.00 | ug/L | | 0.00 |
| 91) 1,4-Dichlorobenzene-d4 | 11.859 | 152 | 404850 | 50.00 | ug/L | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 44) surr4,Dibrflmethane | 5.245 | 113 | 257742 | 55.97 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 116 | | Recovery = 111.94% | | | | |
| 47) surr1,1,2-dichloroetha... | 5.781 | 65 | 318589 | 52.46 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 73 - 125 | | Recovery = 104.92% | | | | |
| 65) SURR3,Toluene-d8 | 8.317 | 98 | 979951 | 54.93 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 87 - 121 | | Recovery = 109.86% | | | | |
| 70) SURR2,BFB | 10.884 | 95 | 381782 | 54.18 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 85 - 122 | | Recovery = 108.36% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Chlorodifluoromethane | 1.160 | 51 | 1053450 | 186.57 | ug/L | | 97 |
| 3) Dichlorodifluoromethane | 1.148 | 85 | 1239845 | 234.32 | ug/L | | 99 |
| 4) Chloromethane | 1.288 | 50 | 1239180 | 206.84 | ug/L | | 97 |
| 5) Vinyl Chloride | 1.355 | 62 | 1182849 | 193.34 | ug/L | | 97 |
| 6) Bromomethane | 1.575 | 94 | 515518 | 176.12 | ug/L | | 94 |
| 7) Chloroethane | 1.648 | 64 | 720783 | 203.77 | ug/L | | 98 |
| 8) Freon 21 | 1.806 | 67 | 1785937 | 216.82 | ug/L | | 94 |
| 9) Trichlorofluoromethane | 1.849 | 101 | 1529788 | 254.97 | ug/L | | 98 |
| 10) Diethyl Ether | 2.093 | 59 | 899584 | 208.92 | ug/L | | 93 |
| 11) Freon 123a | 2.093 | 67 | 1060045 | 204.04 | ug/L | | 92 |
| 12) Freon 123 | 2.148 | 83 | 1239412 | 220.36 | ug/L | | 98 |
| 13) Acrolein | 2.190 | 56 | 1211530 | 1168.60 | ug/L | | 95 |
| 14) 1,1-Diclethene | 2.282 | 96 | 846456 | 231.37 | ug/L | # | 88 |
| 15) Freon 113 | 2.282 | 101 | 895095 | 236.93 | ug/L | | 97 |
| 16) Acetone | 2.324 | 43 | 537327 | 196.89 | ug/L | | 98 |
| 17) 2-Propanol | 2.465 | 45 | 2429335 | 4669.37 | ug/L | | 100 |
| 18) Iodomethane | 2.410 | 142 | 1459934 | 233.71 | ug/L | | 91 |
| 19) Carbon Disulfide | 2.471 | 76 | 2452249 | 219.63 | ug/L | | 100 |
| 20) Acetonitrile | 2.580 | 41 | 1160561 | 1205.26 | ug/L | | 98 |
| 21) Allyl Chloride | 2.611 | 76 | 477397 | 219.34 | ug/L | | 95 |
| 22) Methyl Acetate | 2.635 | 43 | 1326967 | 193.73 | ug/L | | 96 |
| 23) Methylene Chloride | 2.733 | 84 | 976699 | 219.81 | ug/L | | 94 |
| 24) TBA | 2.867 | 59 | 3115031 | 4191.78 | ug/L | | 89 |
| 25) Acrylonitrile | 2.989 | 53 | 2607384 | 1018.42 | ug/L | | 99 |
| 26) Methyl-t-Butyl Ether | 3.038 | 73 | 3083990 | 226.63 | ug/L | | 99 |
| 27) trans-1,2-Dichloroethene | 3.025 | 96 | 930283 | 235.39 | ug/L | | 94 |
| 28) 1,1-Diclethane | 3.525 | 63 | 1748730 | 215.56 | ug/L | | 99 |
| 29) Vinyl Acetate | 3.617 | 86 | 222041 | 355.03 | ug/L | # | 67 |
| 30) DIPE | 3.653 | 45 | 3777568 | 210.45 | ug/L | | 94 |
| 31) 2-Chloro-1,3-Butadiene | 3.653 | 53 | 1672230 | 227.81 | ug/L | | 93 |
| 32) ETBE | 4.184 | 59 | 2855146 | 193.49 | ug/L | | 93 |
| 33) 2,2-Dichloropropane | 4.367 | 77 | 1161901 | 238.64 | ug/L | | 97 |
| 34) cis-1,2-Dichloroethene | 4.373 | 96 | 1081097 | 238.07 | ug/L | | 87 |
| 35) 2-Butanone | 4.415 | 43 | 884018 | 217.04 | ug/L | | 98 |
| 36) Propionitrile | 4.507 | 54 | 1104303 | 1039.69 | ug/L | | 97 |
| 37) Bromochloromethane | 4.769 | 130 | 705370 | 230.53 | ug/L | # | 86 |
| 38) Methacrylonitrile | 4.781 | 67 | 519168 | 206.14 | ug/L | | 98 |
| 39) Tetrahydrofuran | 4.867 | 42 | 541836 | 219.24 | ug/L | | 97 |
| 40) Chloroform | 4.952 | 83 | 1728874 | 232.98 | ug/L | | 98 |

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5586.D
Acq On : 8 Sep 2022 1:29 pm
Operator : F.NAEGLER
Sample : 200 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 08 14:36:08 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | | Dev(Min) |
|---|---|---|---|---|---|---|
| 41) 1,1,1-Trichloroethane | 5.257 | 97 | 1461295 | 255.33 ug/L | | 98 |
| 43) Cyclohexane | 5.342 | 41 | 1214316 | 199.48 ug/L | | 100 |
| 45) Carbontetrachloride | 5.537 | 117 | 1234501 | 253.76 ug/L | | 99 |
| 46) 1,1-Dichloropropene | 5.549 | 75 | 1262161 | 209.76 ug/L | | 93 |
| 48) Benzene | 5.866 | 78 | 3616233 | 199.33 ug/L | | 99 |
| 49) 1,2-Dichloroethane | 5.909 | 62 | 1517174 | 204.17 ug/L | | 96 |
| 50) Iso-Butyl Alcohol | 5.891 | 43 | 1745547 | 4296.51 ug/L | | 97 |
| 51) TAME | 6.110 | 73 | 2588987 | 188.97 ug/L | | 98 |
| 52) n-Heptane | 6.360 | 43 | 1395245 | 206.43 ug/L | | 98 |
| 53) 1-Butanol | 6.866 | 56 | 2336883 | 11229.12 ug/L | | 99 |
| 54) Trichloroethene | 6.824 | 130 | 1016908 | 213.33 ug/L | | 97 |
| 55) Methylcyclohexane | 7.061 | 55 | 1207632 | 179.82 ug/L | | 93 |
| 56) 1,2-Diclpropane | 7.104 | 63 | 1009887 | 195.63 ug/L | | 100 |
| 57) Dibromomethane | 7.250 | 93 | 693001 | 216.97 ug/L | | 96 |
| 58) 1,4-Dioxane | 7.311 | 88 | 400116 | 4313.24 ug/L | | 91 |
| 59) Methyl Methacrylate | 7.336 | 69 | 824741 | 213.38 ug/L | | 90 |
| 60) Bromodichloromethane | 7.476 | 83 | 1331440 | 236.88 ug/L | | 95 |
| 61) 2-Nitropropane | 7.762 | 41 | 775932 | 558.72 ug/L | | 99 |
| 62) 2-Chloroethylvinyl Ether | 7.884 | 63 | 705299 | 221.19 ug/L | | 100 |
| 63) cis-1,3-Dichloropropene | 8.018 | 75 | 1503103 | 235.32 ug/L | | 99 |
| 64) 4-Methyl-2-pentanone | 8.226 | 43 | 1753482 | 216.57 ug/L | | 95 |
| 66) Toluene | 8.390 | 91 | 4038047 | 209.27 ug/L | | 98 |
| 67) trans-1,3-Dichloropropene | 8.659 | 75 | 1337166 | 242.54 ug/L | | 95 |
| 68) Ethyl Methacrylate | 8.805 | 69 | 1525161 | 222.50 ug/L | | 95 |
| 69) 1,1,2-Trichloroethane | 8.848 | 97 | 946367 | 218.43 ug/L | | 98 |
| 72) Tetrachloroethene | 8.988 | 164 | 757088 | 196.72 ug/L | | 95 |
| 73) 2-Hexanone | 9.140 | 43 | 1311154 | 211.30 ug/L | | 94 |
| 74) 1,3-Dichloropropane | 9.018 | 76 | 1600197 | 190.72 ug/L | | 92 |
| 75) Dibromochloromethane | 9.244 | 129 | 1132050 | 261.88 ug/L | | 96 |
| 76) N-Butyl Acetate | 9.299 | 43 | 2709322 | 221.13 ug/L | | 96 |
| 77) 1,2-Dibromoethane | 9.341 | 107 | 1043986 | 216.73 ug/L | | 98 |
| 78) 3-Chlorobenzotrifluoride | 9.860 | 180 | 1395758 | 185.10 ug/L | | 98 |
| 79) Chlorobenzene | 9.835 | 112 | 2788931 | 204.91 ug/L | | 98 |
| 80) 4-Chlorobenzotrifluoride | 9.914 | 180 | 1254646 | 188.52 ug/L | | 97 |
| 81) 1,1,1,2-Tetrachloroethane | 9.927 | 131 | 1003774 | 244.96 ug/L | | 98 |
| 82) Ethylbenzene | 9.957 | 106 | 1485794 | 210.84 ug/L | # | 86 |
| 83) (m+p)Xylene | 10.073 | 106 | 3669267 | 432.62 ug/L | # | 81 |
| 84) o-Xylene | 10.426 | 106 | 1826029 | 214.89 ug/L | | 93 |
| 85) Styrene | 10.445 | 104 | 3133081 | 219.87 ug/L | | 96 |
| 86) Bromoform | 10.591 | 173 | 692815 | 249.72 ug/L | | 98 |
| 87) 2-Chlorobenzotrifluoride | 10.670 | 180 | 1420731 | 192.04 ug/L | | 97 |
| 88) Isopropylbenzene | 10.762 | 105 | 4331398 | 210.59 ug/L | | 97 |
| 89) Cyclohexanone | 10.829 | 55 | 3852070 | 3747.94 ug/L | | 90 |
| 90) trans-1,4-Dichloro-2-B... | 11.073 | 53 | 318311 | 160.99 ug/L | | 86 |
| 92) 1,1,2,2-Tetrachloroethane | 11.024 | 83 | 1447742 | 208.00 ug/L | | 98 |
| 93) Bromobenzene | 11.012 | 156 | 1246440 | 199.14 ug/L | # | 86 |
| 94) 1,2,3-Trichloropropane | 11.048 | 110 | 456130 | 193.26 ug/L | # | 90 |
| 95) n-Propylbenzene | 11.121 | 91 | 5169401 | 197.26 ug/L | | 94 |
| 96) 2-Chlorotoluene | 11.182 | 91 | 3239782 | 197.73 ug/L | | 95 |
| 97) 3-Chlorotoluene | 11.237 | 91 | 3383088 | 192.77 ug/L | | 95 |
| 98) 4-Chlorotoluene | 11.274 | 91 | 3792517 | 203.07 ug/L | | 94 |
| 99) 1,3,5-Trimethylbenzene | 11.274 | 105 | 4018774 | 210.76 ug/L | | 95 |
| 100) tert-Butylbenzene | 11.542 | 119 | 3353212 | 204.36 ug/L | | 98 |
| 101) 1,2,4-Trimethylbenzene | 11.585 | 105 | 3980301 | 209.38 ug/L | | 92 |
| 102) 3,4-Dichlorobenzotrifl... | 11.646 | 214 | 1105587 | 184.12 ug/L | | 98 |
| 103) sec-Butylbenzene | 11.725 | 105 | 4707162 | 208.20 ug/L | | 96 |

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5586.D
Acq On : 8 Sep 2022 1:29 pm
Operator : F.NAEGLER
Sample : 200 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 08 14:36:08 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration

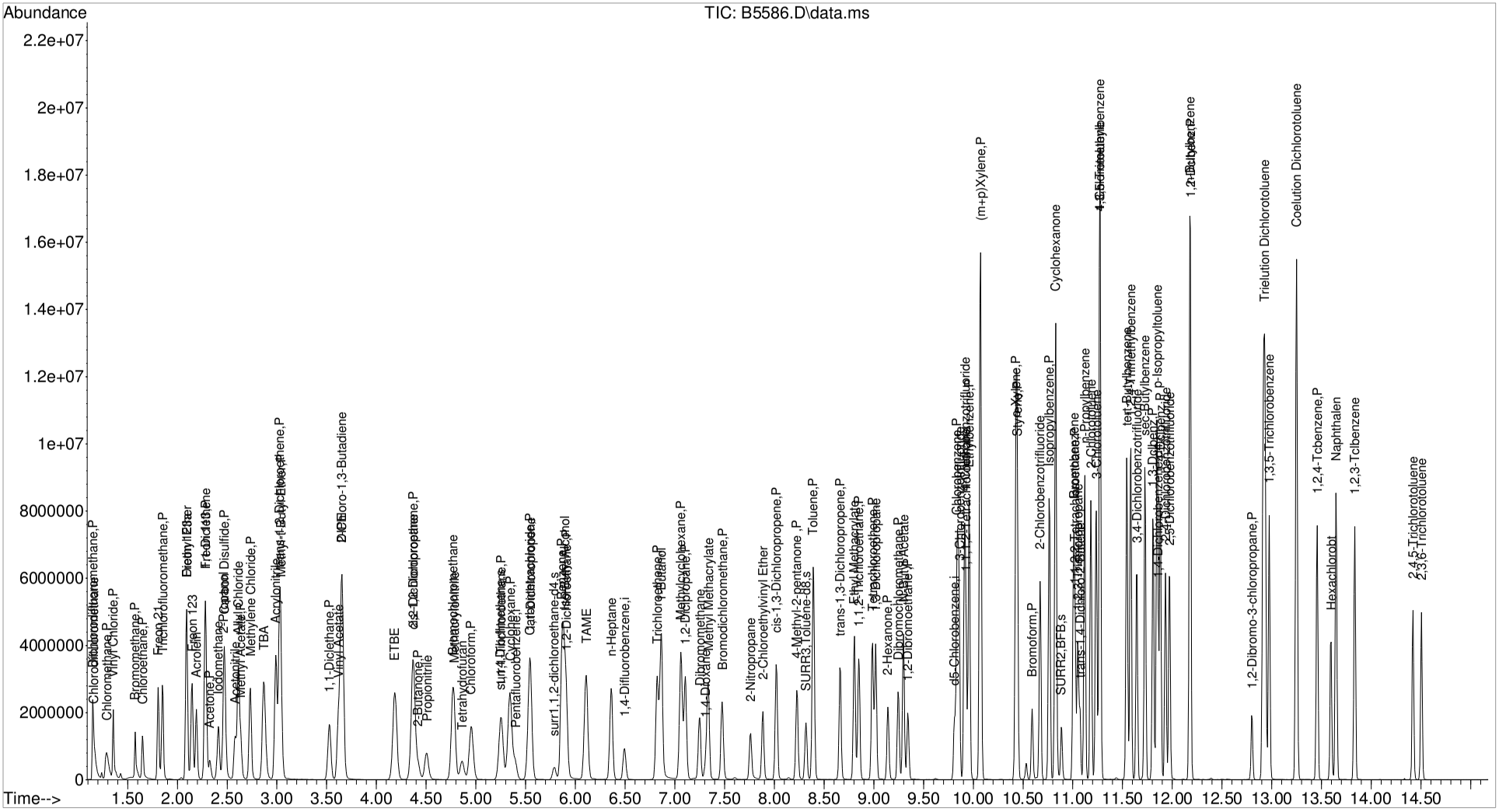
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 104) p-Isopropyltoluene | 11.847 | 119 | 4208170 | 215.35 | ug/L | 95 |
| 105) 1,3-Dclbenz | 11.804 | 146 | 2329499 | 203.71 | ug/L | 99 |
| 106) 1,4-Dclbenz | 11.877 | 146 | 2383412 | 206.85 | ug/L | 100 |
| 107) 2,4-Dichlorobenzotrifl... | 11.932 | 214 | 1016120 | 186.19 | ug/L | 98 |
| 108) 2,5-Dichlorobenzotrifl... | 11.975 | 214 | 1146649 | 187.46 | ug/L | 97 |
| 109) n-Butylbenzene | 12.176 | 91 | 3761614 | 228.45 | ug/L | 96 |
| 110) 1,2-Dclbenz | 12.182 | 146 | 2395318 | 206.25 | ug/L | 99 |
| 111) 1,2-Dibromo-3-chloropr... | 12.804 | 157 | 334809 | 252.41 | ug/L | 95 |
| 112) Trielution Dichlorotol... | 12.926 | 125 | 6228748 | 654.87 | ug/L | 97 |
| 113) 1,3,5-Trichlorobenzene | 12.975 | 180 | 1646912 | 197.89 | ug/L | 99 |
| 114) Coelution Dichlorotoluene | 13.249 | 125 | 4545818 | 450.24 | ug/L | 97 |
| 115) 1,2,4-Tcbenzene | 13.456 | 180 | 1635151 | 213.86 | ug/L | 99 |
| 116) Hexachlorobt | 13.597 | 225 | 551004 | 185.22 | ug/L | 97 |
| 117) Naphthalen | 13.645 | 128 | 4736659 | 250.98 | ug/L | 97 |
| 118) 1,2,3-Tclbenzene | 13.834 | 180 | 1592014 | 201.71 | ug/L | 97 |
| 119) 2,4,5-Trichlorotoluene | 14.420 | 159 | 937863 | 218.40 | ug/L | 98 |
| 120) 2,3,6-Trichlorotoluene | 14.505 | 159 | 842070 | 213.09 | ug/L | 98 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5586.D
Acq On : 8 Sep 2022 1:29 pm
Operator : F.NAEGLER
Sample : 200 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 08 14:36:08 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Jul 21 10:00:08 2022
Response via : Initial Calibration






1st FJ 09/08/22
2nd 09/12/22

# Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5590.D
Acq On : 8 Sep 2022 2:57 pm
Operator : F.NAEGLER
Sample : 50 PPB ICV Inst : MSVOA10
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 08 16:10:10 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Sep 08 14:38:30 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | i | Pentafluorobenzene | 50.000 | 50.000 | 0.0 | 105 | 0.00 |
| 2 | | Chlorodifluoromethane | 50.000 | 61.920 | -23.8# | 126 | 0.00 |
| 3 | P | Dichlorodifluoromethane | 50.000 | 44.742 | 10.5 | 91 | 0.00 |
| 4 | P | Chloromethane | 50.000 | 48.224 | 3.6 | 112 | 0.00 |
| 5 | P | Vinyl Chloride | 50.000 | 45.921 | 8.2 | 98 | 0.00 |
| 6 | P | Bromomethane | 50.000 | 55.960 | -11.9 | 106 | 0.00 |
| 7 | P | Chloroethane | 50.000 | 44.430 | 11.1 | 105 | 0.00 |
| 8 | | Freon 21 | 50.000 | 43.846 | 12.3 | 96 | 0.00 |
| 9 | P | Trichlorofluoromethane | 50.000 | 50.541 | -1.1 | 114 | 0.00 |
| 10 | | Diethyl Ether | 50.000 | 51.476 | -3.0 | 110 | 0.00 |
| 11 | | Freon 123a | 50.000 | 49.450 | 1.1 | 112 | 0.00 |
| 12 | | Freon 123 | 50.000 | 50.405 | -0.8 | 112 | 0.00 |
| 13 | | Acrolein | 250.000 | 50.372 | 79.9# | 20 | 0.00 |
| 14 | | 1,1-Diclethene | 50.000 | 54.018 | -8.0 | 124 | 0.00 |
| 15 | P | Freon 113 | 50.000 | 50.168 | -0.3 | 120 | 0.00 |
| 16 | P | Acetone | 50.000 | 50.633 | -1.3 | 107 | 0.00 |
| 17 | | 2-Propanol | 1000.000 | 966.501 | 3.3 | 101 | 0.00 |
| 18 | | Iodomethane | 50.000 | 48.745 | 2.5 | 99 | 0.00 |
| 19 | P | Carbon Disulfide | 50.000 | 47.211 | 5.6 | 99 | 0.00 |
| 20 | | Acetonitrile | 250.000 | 262.002 | -4.8 | 104 | 0.00 |
| 21 | | Allyl Chloride | 50.000 | 54.750 | -9.5 | 125 | 0.00 |
| 22 | P | Methyl Acetate | 50.000 | 46.372 | 7.3 | 99 | 0.00 |
| 23 | P | Methylene Chloride | 50.000 | 48.333 | 3.3 | 109 | 0.00 |
| 24 | | TBA | 1000.000 | 1051.507 | -5.2 | 109 | 0.00 |
| 25 | | Acrylonitrile | 250.000 | 260.645 | -4.3 | 104 | 0.00 |
| 26 | P | Methyl-t-Butyl Ether | 50.000 | 53.440 | -6.9 | 113 | 0.00 |
| 27 | P | trans-1,2-Dichloroethene | 50.000 | 50.806 | -1.6 | 114 | 0.00 |
| 28 | P | 1,1-Diclethane | 50.000 | 54.389 | -8.8 | 117 | 0.00 |
| 29 | | Vinyl Acetate | 50.000 | 44.729 | 10.5 | 90 | 0.00 |
| 30 | | DIPE | 50.000 | 52.767 | -5.5 | 106 | 0.00 |
| 31 | | 2-Chloro-1,3-Butadiene | 50.000 | 50.932 | -1.9 | 104 | 0.00 |
| 32 | | ETBE | 50.000 | 50.029 | -0.1 | 104 | 0.00 |
| 33 | | 2,2-Dichloropropane | 50.000 | 56.553 | -13.1 | 122 | 0.00 |
| 34 | P | cis-1,2-Dichloroethene | 50.000 | 50.503 | -1.0 | 111 | 0.00 |
| 35 | P | 2-Butanone | 50.000 | 46.862 | 6.3 | 98 | 0.00 |
| 36 | | Propionitrile | 250.000 | 271.525 | -8.6 | 105 | 0.00 |
| 37 | | Bromochloromethane | 50.000 | 51.308 | -2.6 | 111 | 0.00 |
| 38 | | Methacrylonitrile | 50.000 | 53.022 | -6.0 | 111 | 0.00 |
| 39 | | Tetrahydrofuran | 50.000 | 49.491 | 1.0 | 107 | 0.00 |
| 40 | P | Chloroform | 50.000 | 50.390 | -0.8 | 110 | 0.00 |
| 41 | P | 1,1,1-Trichloroethane | 50.000 | 53.586 | -7.2 | 118 | 0.00 |
| 42 | i | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 103 | 0.00 |
| 43 | P | Cyclohexane | 50.000 | 52.716 | -5.4 | 112 | 0.00 |
| 44 | s | surr4,Dibrflmethane | 50.000 | 50.174 | -0.3 | 104 | 0.00 |
| 45 | P | Carbontetrachloride | 50.000 | 54.087 | -8.2 | 116 | 0.00 |
| 46 | | 1,1-Dichloropropene | 50.000 | 51.920 | -3.8 | 112 | 0.00 |
| 47 | s | surr1,1,2-dichloroethane-d4 | 50.000 | 49.553 | 0.9 | 100 | 0.00 |
| 48 | P | Benzene | 50.000 | 53.095 | -6.2 | 114 | 0.00 |
| 49 | P | 1,2-Dichloroethane | 50.000 | 54.596 | -9.2 | 110 | 0.00 |
| 50 | | Iso-Butyl Alcohol | 1000.000 | 1113.876 | -11.4 | 110 | 0.00 |
| 51 | | TAME | 50.000 | 55.826 | -11.7 | 109 | 0.00 |

# Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5590.D
Acq On : 8 Sep 2022 2:57 pm
Operator : F.NAEGLER
Sample : 50 PPB ICV Inst : MSVOA10
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 08 16:10:10 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Sep 08 14:38:30 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 52 | | n-Heptane | 50.000 | 55.519 | -11.0 | 129 | 0.00 |
| 53 | | 1-Butanol | 2500.000 | 2579.162 | -3.2 | 96 | 0.00 |
| 54 | P | Trichloroethene | 50.000 | 52.892 | -5.8 | 114 | 0.00 |
| 55 | P | Methylcyclohexane | 50.000 | 53.038 | -6.1 | 114 | 0.00 |
| 56 | P | 1,2-Diclpropane | 50.000 | 53.906 | -7.8 | 108 | 0.00 |
| 57 | | Dibromomethane | 50.000 | 52.198 | -4.4 | 114 | 0.00 |
| 58 | | 1,4-Dioxane | 1000.000 | 984.024 | 1.6 | 103 | 0.00 |
| 59 | | Methyl Methacrylate | 50.000 | 57.190 | -14.4 | 111 | 0.00 |
| 60 | P | Bromodichloromethane | 50.000 | 53.083 | -6.2 | 110 | 0.00 |
| 61 | | 2-Nitropropane | 100.000 | 92.055 | 7.9 | 92 | 0.00 |
| 62 | | 2-Chloroethylvinyl Ether | 50.000 | 30.981 | 38.0# | 59 | 0.00 |
| 63 | P | cis-1,3-Dichloropropene | 50.000 | 58.622 | -17.2 | 114 | 0.00 |
| 64 | P | 4-Methyl-2-pentanone | 50.000 | 53.092 | -6.2 | 103 | 0.00 |
| 65 | s | SURR3,Toluene-d8 | 50.000 | 49.986 | 0.0 | 104 | 0.00 |
| 66 | P | Toluene | 50.000 | 51.957 | -3.9 | 110 | 0.00 |
| 67 | P | trans-1,3-Dichloropropene | 50.000 | 62.175 | -24.3# | 119 | 0.00 |
| 68 | | Ethyl Methacrylate | 50.000 | 59.440 | -18.9 | 112 | 0.00 |
| 69 | P | 1,1,2-Trichloroethane | 50.000 | 53.101 | -6.2 | 109 | 0.00 |
| 70 | s | SURR2,BFB | 50.000 | 50.189 | -0.4 | 102 | 0.00 |
| 71 | i | d5-Chlorobenzene | 50.000 | 50.000 | 0.0 | 103 | 0.00 |
| 72 | P | Tetrachloroethene | 50.000 | 51.255 | -2.5 | 118 | 0.00 |
| 73 | P | 2-Hexanone | 50.000 | 51.682 | -3.4 | 104 | 0.00 |
| 74 | | 1,3-Dichloropropane | 50.000 | 52.537 | -5.1 | 110 | 0.00 |
| 75 | P | Dibromochloromethane | 50.000 | 51.422 | -2.8 | 104 | 0.00 |
| 76 | | N-Butyl Acetate | 50.000 | 53.381 | -6.8 | 102 | 0.00 |
| 77 | P | 1,2-Dibromoethane | 50.000 | 54.747 | -9.5 | 109 | 0.00 |
| 78 | | 3-Chlorobenzotrifluoride | 50.000 | 48.054 | 3.9 | 99 | 0.00 |
| 79 | P | Chlorobenzene | 50.000 | 52.875 | -5.8 | 110 | 0.00 |
| 80 | | 4-Chlorobenzotrifluoride | 50.000 | 49.195 | 1.6 | 100 | 0.00 |
| 81 | | 1,1,1,2-Tetrachloroethane | 50.000 | 52.501 | -5.0 | 111 | 0.00 |
| 82 | P | Ethylbenzene | 50.000 | 53.100 | -6.2 | 114 | 0.00 |
| 83 | P | (m+p)Xylene | 100.000 | 105.858 | -5.9 | 116 | 0.00 |
| 84 | P | o-Xylene | 50.000 | 54.140 | -8.3 | 115 | 0.00 |
| 85 | P | Styrene | 50.000 | 56.902 | -13.8 | 113 | 0.00 |
| 86 | P | Bromoform | 50.000 | 58.182 | -16.4 | 108 | 0.00 |
| 87 | | 2-Chlorobenzotrifluoride | 50.000 | 49.175 | 1.7 | 97 | 0.00 |
| 88 | P | Isopropylbenzene | 50.000 | 57.277 | -14.6 | 122 | 0.00 |
| 89 | | Cyclohexanone | 1000.000 | 1518.832 | -51.9# | 172 | 0.00 |
| 90 | | trans-1,4-Dichloro-2-Butene | 50.000 | 64.164 | -28.3# | 134 | 0.00 |
| 91 | i | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 103 | 0.00 |
| 92 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 51.757 | -3.5 | 106 | 0.00 |
| 93 | | Bromobenzene | 50.000 | 49.432 | 1.1 | 109 | 0.00 |
| 94 | | 1,2,3-Trichloropropane | 50.000 | 51.366 | -2.7 | 106 | 0.00 |
| 95 | | n-Propylbenzene | 50.000 | 53.381 | -6.8 | 118 | 0.00 |
| 96 | | 2-Chlorotoluene | 50.000 | 52.263 | -4.5 | 115 | 0.00 |
| 97 | | 3-Chlorotoluene | 50.000 | 49.555 | 0.9 | 95 | 0.00 |
| 98 | | 4-Chlorotoluene | 50.000 | 51.642 | -3.3 | 113 | 0.00 |
| 99 | | 1,3,5-Trimethylbenzene | 50.000 | 52.559 | -5.1 | 115 | 0.00 |
| 100 | | tert-Butylbenzene | 50.000 | 54.222 | -8.4 | 118 | 0.00 |
| 101 | | 1,2,4-Trimethylbenzene | 50.000 | 54.277 | -8.6 | 116 | 0.00 |

# Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\msvoa10\data\090822\
Data File : B5590.D
Acq On : 8 Sep 2022 2:57 pm
Operator : F.NAEGLER
Sample : 50 PPB ICV Inst : MSVOA10
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 08 16:10:10 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Sep 08 14:38:30 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 102 | | 3,4-Dichlorobenzotrifluorid | 50.000 | 46.978 | 6.0 | 98 | 0.00 |
| 103 | | sec-Butylbenzene | 50.000 | 55.029 | -10.1 | 121 | 0.00 |
| 104 | | p-Isopropyltoluene | 50.000 | 55.392 | -10.8 | 118 | 0.00 |
| 105 | P | 1,3-Dclbenz | 50.000 | 54.315 | -8.6 | 114 | 0.00 |
| 106 | P | 1,4-Dclbenz | 50.000 | 50.069 | -0.1 | 113 | 0.00 |
| 107 | | 2,4-Dichlorobenzotrifluorid | 50.000 | 47.869 | 4.3 | 99 | 0.00 |
| 108 | | 2,5-Dichlorobenzotrifluorid | 50.000 | 47.532 | 4.9 | 98 | 0.00 |
| 109 | | n-Butylbenzene | 50.000 | 55.647 | -11.3 | 119 | 0.00 |
| 110 | P | 1,2-Dclbenz | 50.000 | 51.378 | -2.8 | 109 | 0.00 |
| 111 | P | 1,2-Dibromo-3-chloropropane | 50.000 | 52.821 | -5.6 | 103 | 0.00 |
| 112 | | Trielution Dichlorotoluene | 150.000 | 149.673 | 0.2 | 97 | 0.00 |
| 113 | | 1,3,5-Trichlorobenzene | 50.000 | 48.085 | 3.8 | 100 | 0.00 |
| 114 | | Coelution Dichlorotoluene | 100.000 | 99.414 | 0.6 | 95 | 0.00 |
| 115 | P | 1,2,4-Tcbenzene | 50.000 | 50.883 | -1.8 | 106 | 0.00 |
| 116 | | Hexachlorobt | 50.000 | 53.052 | -6.1 | 122 | 0.00 |
| 117 | | Naphthalen | 50.000 | 56.325 | -12.7 | 104 | 0.00 |
| 118 | | 1,2,3-Tclbenzene | 50.000 | 50.602 | -1.2 | 102 | 0.00 |
| 119 | | 2,4,5-Trichlorotoluene | 50.000 | 46.694 | 6.6 | 96 | 0.00 |
| 120 | | 2,3,6-Trichlorotoluene | 50.000 | 47.598 | 4.8 | 85 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

**ALS Group USA, Corp.**

**DBA ALS Environmetal**

QC/QC Report

Date Analyzed: 9/8/22 9:39

## ICAL Tune Summary

## Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\msvoa10\data\090822\B5576.D Analytical Method: 8260C/624.1

Instrument ID: R-MS-10

| Target Mass | Relative to Mass | Lower Limit % | Upper Limit % | Relative Abundance % | Raw Abundance | Results Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 25.1 | 45848 | PASS |
| 75 | 95 | 30 | 60 | 53.3 | 97312 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 182720 | PASS |
| 96 | 95 | 5 | 9 | 7.1 | 12980 | PASS |
| 173 | 174 | 0 | 2 | 1.2 | 1559 | PASS |
| 174 | 95 | 50 | 120 | 73.4 | 134051 | PASS |
| 175 | 174 | 5 | 9 | 8.9 | 11896 | PASS |
| 176 | 174 | 95 | 101 | 96.5 | 129317 | PASS |
| 177 | 176 | 5 | 9 | 6.5 | 8447 | PASS |

| Sample Name | Lab Code | File ID: | Date Analyzes: | Q |
|---|---|---|---|---|
| ICALBLK | ICALBLK | I:\ACQUDATA\msvoa10\data\090822\B5577.D | 9/8/22 10:13 | |
| 0.5 PPB STD | 0.5 PPB STD | I:\ACQUDATA\MSVOA10\DATA\090822\B5578.D | 9/8/22 10:35 | |
| 1 PPB STD | 1 PPB STD | I:\ACQUDATA\msvoa10\data\090822\B5579.D | 9/8/22 10:56 | |
| 2 PPB STD | 2 PPB STD | I:\ACQUDATA\msvoa10\data\090822\B5580.D | 9/8/22 11:18 | |
| 5 PPB STD | 5 PPB STD | I:\ACQUDATA\MSVOA10\DATA\090822\B5581.D | 9/8/22 11:40 | |
| 20 PPB STD | 20 PPB STD | I:\ACQUDATA\MSVOA10\DATA\090822\B5582.D | 9/8/22 12:02 | |
| 50 PPB STD | 50 PPB STD | I:\ACQUDATA\msvoa10\data\090822\B5583.D | 9/8/22 12:24 | |
| 100 PPB STD | 100 PPB STD | I:\ACQUDATA\MSVOA10\DATA\090822\B5584.D | 9/8/22 12:46 | |
| 150 PPB STD | 150 PPB STD | I:\ACQUDATA\MSVOA10\DATA\090822\B5585.D | 9/8/22 13:08 | |
| 200 PPB STD | 200 PPB STD | I:\ACQUDATA\msvoa10\data\090822\B5586.D | 9/8/22 13:29 | |
| 50 PPB ICV | 50 PPB ICV | I:\ACQUDATA\msvoa10\data\090822\B5590.D | 9/8/22 14:57 | |

Analysis: 8260/624 | Analyst: F.Nagel | pH strips: — | Tune Method: W090822.M

Date: 9/8/22 | Balance ID: — | ResCl strips: — | Run Method: ↓

Instr. MS10 | 50 mL Class A used for dilution FV | Syringes: 177417 / 218709 | LIMS Run#: —

Data Path: j:\acqudata\msvoa(InstID)\(Date)

| Pos. | Sample | Diln. | Diln. Prep./ | RL | Vial | HS | Cl | pH | File# | OK? | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | TUNE | | | | | | | | B5526 | Y | |
| 9/8 FV 14 | ICAL BLK | | | | | | | | 77 | Y | |
| 2 | 0.5 ppb std | | | | | | | | 78 | Y | |
| 3 | 1 | | | | | | | | 79 | Y | |
| 4 | 2 | | | | | | | | 80 | Y | |
| 5 | 5 | | | | | | | | 81 | Y | |
| 6 | 20 | | | | | | | | 82 | Y | |
| 7 | 50 | | | | | | | | 83 | Y | |
| 8 | 100 | | | | | | | | 84 | Y | |
| 9 | 150 | | | | | | | | 85 | Y | |
| 10 | 200 | | | | | | | | 86 | Y | |
| 11 | BLK | | | | | | | | 87 | Y | |
| 12 | ↓ | | | | | | | | 88 | Y | |
| 13 | ↓ | | | | | | | | 89 | Y | |
| 14 | 50 ppb ICV | | | | | | | | 90 | Y | |
| 15 | BLK | | | | | | | | 91 | Y | |
| 16 | ↓ | | | | | | | | 92 | Y | |

## WATER ICAL TABLE

| CONC (PPB) | 0.5 | 1.0 | 2.0 | 5.0 | 20 | 50 | 100 | 150 | 200 |
|---|---|---|---|---|---|---|---|---|---|
| 1° T/G = 224705 | 10mL/1mL MeOH 5mL/5mL DI | 10mL/5mL DI | 20mL/5mL DI | 50mL/5mL DI | 2mL/5mL DI | 5mL/5mL DI | 10mL/5mL DI | 15mL/5mL DI | 20mL/5mL DI |
| 1° HSL = 224773 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| 1° Fr = 224484 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| 1° OCC = 223946 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| 1° 236-TCT = 224088 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| 1° Fr22 = 224681 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |

All samples = 5 mL + 5 uL combined IS/ 5 mL purged

Primary SEE TABLE ABOVE

Primary :

Primary :

Primary :

Primary :

Fr Secondary 200 : 224780 - 12.5uL

T/G Secondary 500 : 224589 - 5uL

HSL Secondary : 224576 -

OCC Secondary : 223947 -

236-TCT Secondary : 224089 -

Fr22 ↓ 200 : 224682 - 12.5uL

5mL (ICV)

Combined IS/Surr : —

Surrogate 50 : 224703

Internal Std 50 : 224704

Reagents: MeOH : 223545

**Client:** Verina Consulting Group, LLC **Service Request:** R2208794
**Project:** Dover - Kirkwood **Calibration Date:** 9/8/2022

# Initial Calibration Summary
# Volatile Organic Compounds by GC/MS, Unpreserved

**Calibration ID:** RC2200096 **Signal ID:** 1
**Instrument ID:** R-MS-10

| # | Lab Code | Sample Name | File Location | Acquisition Date |
|---|---|---|---|---|
| 01 | RC2200096-01 | 0.5 PPB STD | I:\ACQUDATA\msvoa10\data\090822\B5578.D | 09/08/2022 10:35 |
| 02 | RC2200096-02 | 1 PPB STD | I:\ACQUDATA\msvoa10\data\090822\B5579.D | 09/08/2022 10:56 |
| 03 | RC2200096-03 | 2 PPB STD | I:\ACQUDATA\msvoa10\data\090822\B5580.D | 09/08/2022 11:18 |
| 04 | RC2200096-04 | 5 PPB STD | I:\ACQUDATA\msvoa10\data\090822\B5581.D | 09/08/2022 11:40 |
| 05 | RC2200096-05 | 20 PPB STD | I:\ACQUDATA\msvoa10\data\090822\B5582.D | 09/08/2022 12:02 |
| 06 | RC2200096-06 | 50 PPB STD | I:\ACQUDATA\msvoa10\data\090822\B5583.D | 09/08/2022 12:24 |
| 07 | RC2200096-07 | 100 PPB STD | I:\ACQUDATA\msvoa10\data\090822\B5584.D | 09/08/2022 12:46 |
| 08 | RC2200096-08 | 150 PPB STD | I:\ACQUDATA\msvoa10\data\090822\B5585.D | 09/08/2022 13:08 |
| 09 | RC2200096-09 | 200 PPB STD | I:\ACQUDATA\msvoa10\data\090822\B5586.D | 09/08/2022 13:29 |

## Analyte

**1,1,1-Trichloroethane (TCA)**

| # | Amount | RF | # | Amount | RF | # | Amount | RF | # | Amount | RF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 | 0.500 | 0.5885 | 02 | 1.000 | 0.5974 | 03 | 2.000 | 0.7619 | 04 | 5.000 | 0.6684 |
| 05 | 20.000 | 0.6675 | 06 | 50.000 | 0.655 | 07 | 100.000 | 0.7276 | 08 | 150.000 | 0.7513 |
| 09 | 200.000 | 0.7549 | | | | | | | | | |

**1,1-Dichloroethane (1,1-DCA)**

| # | Amount | RF | # | Amount | RF | # | Amount | RF | # | Amount | RF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 | 0.500 | 0.9224 | 02 | 1.000 | 0.8318 | 03 | 2.000 | 0.981 | 04 | 5.000 | 0.9196 |
| 05 | 20.000 | 0.8881 | 06 | 50.000 | 0.8907 | 07 | 100.000 | 0.9295 | 08 | 150.000 | 0.9231 |
| 09 | 200.000 | 0.9034 | | | | | | | | | |

**1,1-Dichloroethene (1,1-DCE)**

| # | Amount | RF | # | Amount | RF | # | Amount | RF | # | Amount | RF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 | 0.500 | 0.4807 | 02 | 1.000 | 0.4381 | 03 | 2.000 | 0.4588 | 04 | 5.000 | 0.4825 |
| 05 | 20.000 | 0.4086 | 06 | 50.000 | 0.407 | 07 | 100.000 | 0.4338 | 08 | 150.000 | 0.4469 |
| 09 | 200.000 | 0.4373 | | | | | | | | | |

**4-Bromofluorobenzene**

| # | Amount | RF | # | Amount | RF | # | Amount | RF | # | Amount | RF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 04 | 10.000 | 0.511 | 05 | 20.000 | 0.4267 | 06 | 50.000 | 0.4661 | 07 | 100.000 | 0.4646 |
| 08 | 200.000 | 0.4262 | | | | | | | | | |

**Dibromofluoromethane**

| # | Amount | RF | # | Amount | RF | # | Amount | RF | # | Amount | RF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 04 | 10.000 | 0.3607 | 05 | 20.000 | 0.3078 | 06 | 50.000 | 0.3181 | 07 | 100.000 | 0.3199 |
| 08 | 200.000 | 0.2922 | | | | | | | | | |

**Tetrachloroethene (PCE)**

| # | Amount | RF | # | Amount | RF | # | Amount | RF | # | Amount | RF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 | 0.500 | 0.2818 | 02 | 1.000 | 0.2959 | 03 | 2.000 | 0.2373 | 04 | 5.000 | 0.2618 |
| 05 | 20.000 | 0.2224 | 06 | 50.000 | 0.226 | 07 | 100.000 | 0.2373 | 08 | 150.000 | 0.2473 |
| 09 | 200.000 | 0.2535 | | | | | | | | | |

**Client:** Verina Consulting Group, LLC **Service Request:** R2208794
**Project:** Dover - Kirkwood **Calibration Date:** 9/8/2022

# Initial Calibration Summary
# Volatile Organic Compounds by GC/MS, Unpreserved

**Calibration ID:** RC2200096 **Signal ID:** 1
**Instrument ID:** R-MS-10

## Analyte

**Toluene-d8**

| # | Amount | RF | # | Amount | RF | # | Amount | RF | # | Amount | RF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 04 | 10.000 | 1.412 | 05 | 20.000 | 1.183 | 06 | 50.000 | 1.203 | 07 | 100.000 | 1.211 |
| 08 | 200.000 | 1.083 | | | | | | | | | |

**Trichloroethene (TCE)**

| # | Amount | RF | # | Amount | RF | # | Amount | RF | # | Amount | RF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 | 0.500 | 0.3014 | 02 | 1.000 | 0.3341 | 03 | 2.000 | 0.3264 | 04 | 5.000 | 0.3071 |
| 05 | 20.000 | 0.3006 | 06 | 50.000 | 0.2991 | 07 | 100.000 | 0.3134 | 08 | 150.000 | 0.3122 |
| 09 | 200.000 | 0.3203 | | | | | | | | | |

**Vinyl Chloride**

| # | Amount | RF | # | Amount | RF | # | Amount | RF | # | Amount | RF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 | 0.500 | 0.6676 | 02 | 1.000 | 0.6071 | 03 | 2.000 | 0.6884 | 04 | 5.000 | 0.6329 |
| 05 | 20.000 | 0.6132 | 06 | 50.000 | 0.6229 | 07 | 100.000 | 0.6286 | 08 | 150.000 | 0.613 |
| 09 | 200.000 | 0.6111 | | | | | | | | | |

**cis-1,2-Dichloroethene**

| # | Amount | RF | # | Amount | RF | # | Amount | RF | # | Amount | RF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 | 0.500 | 0.6387 | 02 | 1.000 | 0.6147 | 03 | 2.000 | 0.5923 | 04 | 5.000 | 0.5489 |
| 05 | 20.000 | 0.5283 | 06 | 50.000 | 0.5429 | 07 | 100.000 | 0.5539 | 08 | 150.000 | 0.5507 |
| 09 | 200.000 | 0.5585 | | | | | | | | | |

**trans-1,2-Dichloroethene**

| # | Amount | RF | # | Amount | RF | # | Amount | RF | # | Amount | RF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 | 0.500 | 0.4053 | 02 | 1.000 | 0.5708 | 03 | 2.000 | 0.5484 | 04 | 5.000 | 0.4941 |
| 05 | 20.000 | 0.4657 | 06 | 50.000 | 0.4562 | 07 | 100.000 | 0.4836 | 08 | 150.000 | 0.4915 |
| 09 | 200.000 | 0.4806 | | | | | | | | | |

**Client:** Verina Consulting Group, LLC **Service Request:** R2208794
**Project:** Dover - Kirkwood **Calibration Date:** 9/8/2022

# Initial Calibration Summary
# Volatile Organic Compounds by GC/MS, Unpreserved

**Calibration ID:** RC2200096 **Signal ID:** 1
**Instrument ID:** R-MS-10

| | | Calibration Evaluation | | | | Calibration Evaluation | |
|---|---|---|---|---|---|---|---|
| Analyte Name | Compound Type | Fit Type | Eval | Eval Result | Control Criteria | Average RRF | Minimum RRF |
| 1,1,1-Trichloroethane (TCA) | TRG | Average RF | % RSD | 9.7 | ≤20 | 0.6858 | 0.100 |
| 1,1-Dichloroethane (1,1-DCA) | TRG | Average RF | % RSD | 4.4 | ≤20 | 0.91 | 0.200 |
| 1,1-Dichloroethene (1,1-DCE) | TRG | Average RF | % RSD | 6.1 | ≤20 | 0.4437 | 0.100 |
| 4-Bromofluorobenzene | SURR | Average RF | % RSD | 7.6 | ≤20 | 0.4589 | |
| Dibromofluoromethane | SURR | Average RF | % RSD | 8.0 | ≤20 | 0.3197 | |
| Tetrachloroethene (PCE) | TRG | Average RF | % RSD | 9.9 | ≤20 | 0.2515 | 0.200 |
| Toluene-d8 | SURR | Average RF | % RSD | 9.8 | ≤20 | 1.218 | |
| Trichloroethene (TCE) | TRG | Average RF | % RSD | 3.9 | ≤20 | 0.3127 | 0.200 |
| Vinyl Chloride | TRG | Average RF | % RSD | 4.4 | ≤20 | 0.6316 | 0.100 |
| cis-1,2-Dichloroethene | TRG | Average RF | % RSD | 6.5 | ≤20 | 0.5699 | 0.100 |
| trans-1,2-Dichloroethene | TRG | Average RF | % RSD | 10.0 | ≤20 | 0.4884 | 0.100 |

**Client:** Verina Consulting Group, LLC **Service Request:** R2208794
**Project:** Dover - Kirkwood **Calibration Date:** 9/8/2022

# Initial Calibration Verification Summary
# Volatile Organic Compounds by GC/MS, Unpreserved

**Calibration ID:** RC2200096 **Signal ID:** 1
**Instrument ID:** R-MS-10

| # | Lab Code | Sample Name | File Location | Acquisition Date |
|---|---|---|---|---|
| 10 | RC2200096-10 | 50 PPB ICV | I:\ACQUDATA\msvoa10\data\090822\B5590.D | 09/08/2022 14:57 |

| Analyte Name | Expected | Result | Average RF | SSV RF | % D | Criteria | Curve Fit |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane (TCA) | 50.0 | 53.6 | 6.858E-1 | 7.35E-1 | 7.17 | ±30 | Average RF |
| 1,1-Dichloroethane (1,1-DCA) | 50.0 | 54.4 | 9.1E-1 | 9.898E-1 | 8.78 | ±30 | Average RF |
| 1,1-Dichloroethene (1,1-DCE) | 50.0 | 54.0 | 4.437E-1 | 4.794E-1 | 8.04 | ±30 | Average RF |
| Tetrachloroethene (PCE) | 50.0 | 51.3 | 2.515E-1 | 2.578E-1 | 2.51 | ±30 | Average RF |
| Trichloroethene (TCE) | 50.0 | 52.9 | 3.127E-1 | 3.308E-1 | 5.78 | ±30 | Average RF |
| Vinyl Chloride | 50.0 | 45.9 | 6.316E-1 | 5.801E-1 | -8.158 | ±30 | Average RF |
| cis-1,2-Dichloroethene | 50.0 | 50.5 | 5.699E-1 | 5.756E-1 | 1.01 | ±30 | Average RF |
| trans-1,2-Dichloroethene | 50.0 | 50.8 | 4.884E-1 | 4.963E-1 | 1.61 | ±30 | Average RF |

| Analyte Name | Expected | Result | Average RF | SSV RF | % D | Criteria | Curve Fit |
|---|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 50.0 | 50.2 | 4.589E-1 | 4.606E-1 | 0.378 | ±30 | Average RF |
| Dibromofluoromethane | 50.0 | 50.2 | 3.197E-1 | 3.209E-1 | 0.349 | ±30 | Average RF |
| Toluene-d8 | 50.0 | 50.0 | 1.218E0 | 1.218E0 | -0.028 | ±30 | Average RF |

| | | | |
|---|---|---|---|
| **Client:** | Verina Consulting Group, LLC | **Service Request:** | R2208794 |
| **Project:** | Dover - Kirkwood/5101.0002 | **Date Analyzed:** | 09/17/22 11:03 |

# Continuing Calibration Verification (CCV) Summary
# Volatile Organic Compounds by GC/MS, Unpreserved

| | | | |
|---|---|---|---|
| **Analysis Method:** | 8260C | **Calibration Date:** | 9/8/2022 |
| **File ID:** | I:\ACQUDATA\msvoa10\data\091722\B5829.D\ | **Calibration ID:** | RC2200096 |
| **Signal ID:** | 1 | **Analysis Lot:** | 777855 |
| | | **Units:** | ug/L |

| Analyte Name | Expected | Result | Average RF | CCV RF | % D | % Drift | Criteria | Curve Fit |
|---|---|---|---|---|---|---|---|---|
| **1,1,1-Trichloroethane (TCA)** | 50.0 | 51.6 | 0.6858 | 0.7074 | 3.1 | NA | ±20 | Average RF |
| **1,1-Dichloroethane (1,1-DCA)** | 50.0 | 53.0 | 0.91 | 0.9644 | 6.0 | NA | ±20 | Average RF |
| **1,1-Dichloroethene (1,1-DCE)** | 50.0 | 51.7 | 0.4437 | 0.4589 | 3.4 | NA | ±20 | Average RF |
| **Tetrachloroethene (PCE)** | 50.0 | 49.7 | 0.2515 | 0.2499 | -0.6 | NA | ±20 | Average RF |
| **Trichloroethene (TCE)** | 50.0 | 51.7 | 0.3127 | 0.3235 | 3.4 | NA | ±20 | Average RF |
| **Vinyl Chloride** | 50.0 | 51.5 | 0.6316 | 0.6501 | 2.9 | NA | ±20 | Average RF |
| **cis-1,2-Dichloroethene** | 50.0 | 49.8 | 0.5699 | 0.5675 | -0.4 | NA | ±20 | Average RF |
| **trans-1,2-Dichloroethene** | 50.0 | 51.7 | 0.4884 | 0.5053 | 3.4 | NA | ±20 | Average RF |

| Analyte Name | Expected | Result | Average RF | CCV RF | % D | % Drift | Criteria | Curve Fit |
|---|---|---|---|---|---|---|---|---|
| **4-Bromofluorobenzene** | 50.0 | 51.9 | 0.4589 | 0.4768 | 3.9 | NA | ±20 | Average RF |
| **Dibromofluoromethane** | 50.0 | 51.1 | 0.3197 | 0.327 | 2.3 | NA | ±20 | Average RF |
| **Toluene-d8** | 50.0 | 51.2 | 1.2183 | 1.2466 | 2.3 | NA | ±20 | Average RF |

**Client:** Verina Consulting Group, LLC **Service Request:**R2208794
**Project:** Dover - Kirkwood/5101.0002

## Analysis Run Log
## Volatile Organic Compounds by GC/MS, Unpreserved

**Analysis Method:** **Analysis Lot:**777855
**Instrument ID:**R-MS-10

| Raw Data File | Sample Name | Lab Code | Date Analyzed | Time Analyzed | Q |
|---|---|---|---|---|---|
| I:\ACQUDATA\msvoa10\data\091722\B5828.D\ | ZZZZZZZ | ZZZZZZZ | 9/17/2022 | 10:30:00 | |
| I:\ACQUDATA\msvoa10\data\091722\B5829.D\ | Continuing Calibration Verification | RQ2211218-02 | 9/17/2022 | 11:03:00 | |
| I:\ACQUDATA\msvoa10\data\091722\B5830.D\ | Lab Control Sample | RQ2211218-03 | 9/17/2022 | 11:38:00 | |
| I:\ACQUDATA\msvoa10\data\091722\B5832.D\ | Method Blank | RQ2211218-04 | 9/17/2022 | 12:33:00 | |
| I:\ACQUDATA\msvoa10\data\091722\B5833.D\ | MW7A-091322 | R2208794-002 | 9/17/2022 | 13:06:00 | |
| I:\ACQUDATA\msvoa10\data\091722\B5834.D\ | MP-12-091322 | R2208794-003 | 9/17/2022 | 13:27:00 | |
| I:\ACQUDATA\msvoa10\data\091722\B5835.D\ | MP-11-091322 | R2208794-004 | 9/17/2022 | 13:49:00 | |
| I:\ACQUDATA\msvoa10\data\091722\B5836.D\ | MP5R-091422 | R2208794-010 | 9/17/2022 | 14:11:00 | |
| I:\ACQUDATA\msvoa10\data\091722\B5837.D\ | ZZZZZZZ | ZZZZZZZ | 9/17/2022 | 14:33:00 | |
| I:\ACQUDATA\msvoa10\data\091722\B5840.D\ | ZZZZZZZ | ZZZZZZZ | 9/17/2022 | 15:39:00 | |
| I:\ACQUDATA\msvoa10\data\091722\B5841.D\ | ZZZZZZZ | ZZZZZZZ | 9/17/2022 | 16:01:00 | |
| I:\ACQUDATA\msvoa10\data\091722\B5842.D\ | ZZZZZZZ | ZZZZZZZ | 9/17/2022 | 16:22:00 | |
| I:\ACQUDATA\msvoa10\data\091722\B5843.D\ | ZZZZZZZ | ZZZZZZZ | 9/17/2022 | 16:44:00 | |
| I:\ACQUDATA\msvoa10\data\091722\B5844.D\ | ZZZZZZZ | ZZZZZZZ | 9/17/2022 | 17:06:00 | |
| I:\ACQUDATA\msvoa10\data\091722\B5845.D\ | ZZZZZZZ | ZZZZZZZ | 9/17/2022 | 17:28:00 | |
| I:\ACQUDATA\msvoa10\data\091722\B5846.D\ | ZZZZZZZ | ZZZZZZZ | 9/17/2022 | 17:50:00 | |
| I:\ACQUDATA\msvoa10\data\091722\B5847.D\ | ZZZZZZZ | ZZZZZZZ | 9/17/2022 | 18:11:00 | |
| I:\ACQUDATA\msvoa10\data\091722\B5848.D\ | ZZZZZZZ | ZZZZZZZ | 9/17/2022 | 18:33:00 | |
| I:\ACQUDATA\msvoa10\data\091722\B5849.D\ | ZZZZZZZ | ZZZZZZZ | 9/17/2022 | 18:55:00 | |
| I:\ACQUDATA\msvoa10\data\091722\B5850.D\ | ZZZZZZZ | ZZZZZZZ | 9/17/2022 | 19:17:00 | |
| I:\ACQUDATA\msvoa10\data\091722\B5851.D\ | ZZZZZZZ | ZZZZZZZ | 9/17/2022 | 19:39:00 | |
| I:\ACQUDATA\msvoa10\data\091722\B5852.D\ | ZZZZZZZ | ZZZZZZZ | 9/17/2022 | 20:01:00 | |
| I:\ACQUDATA\msvoa10\data\091722\B5853.D\ | ZZZZZZZ | ZZZZZZZ | 9/17/2022 | 20:22:00 | |

**Client:** Verina Consulting Group, LLC **Service Request:**R2208794
**Project:** Dover - Kirkwood/5101.0002

## Analysis Run Log
## Volatile Organic Compounds by GC/MS, Unpreserved

**Analysis Method:** **Analysis Lot:**777855
**Instrument ID:**R-MS-10

| Raw Data File | Sample Name | Lab Code | Date Analyzed | Time Analyzed | Q |
|---|---|---|---|---|---|
| I:\ACQUDATA\msvoa10\data\091722 \B5854.D\ | ZZZZZZZ | ZZZZZZZ | 9/17/2022 | 20:44:00 | |
| I:\ACQUDATA\msvoa10\data\091722 \B5855.D\ | ZZZZZZZ | ZZZZZZZ | 9/17/2022 | 21:06:00 | |

| | | | | | |
|---|---|---|---|---|---|
| Analysis: 8260/624 | Analyst: F.Naglic | pH strips: 229921 | | Tune Method: W090822-M | |
| Date: 9/17/22 | Balance ID: — | ResCl strips: 123020E | | Run Method: ↓ | |
| Instr. MS10 | 50 mL Class A used for dilution FV | Syringes: 177417 / 218709 | | LIMS Run#: 777855 | |

Data Path: j:\acqudata\msvoa(InstID)\(Date)

| Pos. | Sample | Diln. | Diln. Prep./ | RL | Vial | HS | Cl | pH | File# | OK? | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | TUNE | | | | | | | | B5828 | Y | |
| 1 | CCV | | | | | | | | 29 | Y | |
| 2 | LCS-WP | | | | | | | | 30 | Y | |
| 3 | MBLK-WP | | | | | | | | 31 | (N) | |
| 4 | MBLK-WP | | | | | | | | 32 | Y | |
| 5 | R2208794-002 | 1.0 | | 7979 | 1 | N | — | (7) | 33 | Y | |
| 6 | -003 | 10.0 | 5/50mL | | 1 | N | — | (7) | 34 | Y | Darkmatrix |
| 7 | -004 | 10.0 | | | 1 | N | — | (7) | 35 | Y | ↓ |
| 8 | ↓ -010 | 10.0 | ↓ | | 1 | N | — | (7) | 36 | Y | |
| 9 | R2208645-011 | 1.0 | | ↓ | 2 | N | — | (7) | 37 | Y | |
| 10 | BLK | | | | | | | | 38 | Y | |
| 11 | ↓ | | | | | | | | 39 | Y | |
| 12 | R2208791-003 | 1.0 | | 15551 | 1 | N | Neg | (6) | 40 | Y | |
| 13 | ↓ -002 | 1.0 | | ↓ | 1 | N | Neg | (7) | 41 | Y | |
| 14 | R2208764-011 | 1.0 | | 20291 | 1 | N | Neg | (5) | 42 | Y | |
| 15 | -003 | 1.0 | | | 1 | N | Neg | (5) | 43 | Y | |
| 16 | -004 | 1.0 | | | 1 | N | Neg | (5) | 44 | Y | |
| 17 | -005 | 1.0 | | | 1 | N | Neg | (5) | 45 | Y | |
| 18 | -006 | 1.0 | | | 1 | N | Neg | (5) | 46 | Y | |
| 19 | -007 | 1.0 | | | 1 | N | Neg | (5) | 47 | Y | |
| 20 | -008 | 1.0 | | | 1 | N | Neg | (5) | 48 | Y | |
| 21 | -009 | 1.0 | | | 1 | N | Neg | (5) | 49 | Y | |
| 22 | -010 | 1.0 | | | 1 | N | Neg | (5) | 50 | Y | |
| 23 | -001 | 1.0 | | | 1 | N | Neg | (5) | 51 | Y | |
| 24 | ↓ -002 | 5.0 | 10/50mL | ↓ | 1 | N | Neg | (5) | 52 | Y | |
| 25 | R2208791-001 | 2.5 | 20/50mL | 15551 | 1 | N | Neg | (7) | 53 | Y | |
| 26 | R2208764-001MS | 1.0 | | 20291 | 2 | N | Neg | (5) | 54 | Y | |
| 27 | ↓ -001MSD | 1.0 | | ↓ | 3 | N | Neg | (5) | 55 | Y | |
| 28 | BLK | | | | | | | | 56 | Y | |
| 29 | ↓ | | | | | | | | ↓ 57 | Y | |
| | | | | | | | | | | | FJ 9/20/22 |

All samples = 5 mL + 5 uL combined IS/ 5 mL purged

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| T/G | Primary 500 | 224705 - 5uL/50mL | Fr | Secondary 200 | 224780 - 5uL | -12.5uL | Combined IS/Surr: — |
| HSL | Primary ↓ | 224773 - ↓ | T/G | Secondary 500 | 224589 - 2uL | -5uL | Surrogate 50: 224703 |
| Fr | Primary | 224906 - ↓ (CCV) | HSL | Secondary ↓ | 224868 - ↓ | (LCS) ↓ | Internal Std 50: 224704 |
| DCL | Primary ↓ | 223946 - | DCL | Secondary ↓ | 223947 - ↓ | (Spike) | Reagents: — |
| | Primary | | | Secondary | | | |

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Verina Consulting Group, LLC | **Service Request:** | R2208794 |
| **Project:** | Dover - Kirkwood/5101.0002 | **Date Collected:** | 09/14/22 11:10 |
| **Sample Matrix:** | Water | **Date Received:** | 09/15/22 09:37 |
| **Sample Name:** | MW-35-091422 | **Units:** | ug/L |
| **Lab Code:** | R2208794-005 | **Basis:** | NA |

## Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C
**Prep Method:** EPA 5030C

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Q |
|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane (TCA) | 1.0 U | 1.0 | 0.20 | 1 | 09/25/22 22:40 | |
| 1,1-Dichloroethane (1,1-DCA) | 1.0 U | 1.0 | 0.20 | 1 | 09/25/22 22:40 | |
| 1,1-Dichloroethene (1,1-DCE) | 1.0 U | 1.0 | 0.20 | 1 | 09/25/22 22:40 | |
| Tetrachloroethene (PCE) | 1.0 U | 1.0 | 0.21 | 1 | 09/25/22 22:40 | |
| Trichloroethene (TCE) | 1.0 U | 1.0 | 0.20 | 1 | 09/25/22 22:40 | |
| Vinyl Chloride | 1.0 U | 1.0 | 0.20 | 1 | 09/25/22 22:40 | |
| cis-1,2-Dichloroethene | 1.0 U | 1.0 | 0.23 | 1 | 09/25/22 22:40 | |
| trans-1,2-Dichloroethene | 1.0 U | 1.0 | 0.20 | 1 | 09/25/22 22:40 | |

| Surrogate Name | % Rec | Control Limits | Date Analyzed | Q |
|---|---|---|---|---|
| 4-Bromofluorobenzene | 90 | 85 - 122 | 09/25/22 22:40 | |
| Dibromofluoromethane | 97 | 80 - 116 | 09/25/22 22:40 | |
| Toluene-d8 | 99 | 87 - 121 | 09/25/22 22:40 | |

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Verina Consulting Group, LLC | **Service Request:** | R2208794 |
| **Project:** | Dover - Kirkwood/5101.0002 | **Date Collected:** | 09/14/22 11:20 |
| **Sample Matrix:** | Water | **Date Received:** | 09/15/22 09:37 |
| **Sample Name:** | MW-32-091422 | **Units:** | ug/L |
| **Lab Code:** | R2208794-006 | **Basis:** | NA |

## Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C
**Prep Method:** EPA 5030C

| Analyte Name | Result | | MRL | MDL | Dil. | Date Analyzed | Q |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane (TCA) | 1.0 | U | 1.0 | 0.20 | 1 | 09/25/22 23:02 | |
| 1,1-Dichloroethane (1,1-DCA) | 1.0 | U | 1.0 | 0.20 | 1 | 09/25/22 23:02 | |
| 1,1-Dichloroethene (1,1-DCE) | 1.0 | U | 1.0 | 0.20 | 1 | 09/25/22 23:02 | |
| Tetrachloroethene (PCE) | 1.0 | U | 1.0 | 0.21 | 1 | 09/25/22 23:02 | |
| Trichloroethene (TCE) | **0.27** | **J** | 1.0 | 0.20 | 1 | 09/25/22 23:02 | |
| Vinyl Chloride | 1.0 | U | 1.0 | 0.20 | 1 | 09/25/22 23:02 | |
| cis-1,2-Dichloroethene | **0.41** | **J** | 1.0 | 0.23 | 1 | 09/25/22 23:02 | |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.20 | 1 | 09/25/22 23:02 | |

| Surrogate Name | % Rec | Control Limits | Date Analyzed | Q |
|---|---|---|---|---|
| 4-Bromofluorobenzene | 93 | 85 - 122 | 09/25/22 23:02 | |
| Dibromofluoromethane | 101 | 80 - 116 | 09/25/22 23:02 | |
| Toluene-d8 | 100 | 87 - 121 | 09/25/22 23:02 | |

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Verina Consulting Group, LLC | **Service Request:** | R2208794 |
| **Project:** | Dover - Kirkwood/5101.0002 | **Date Collected:** | 09/14/22 12:00 |
| **Sample Matrix:** | Water | **Date Received:** | 09/15/22 09:37 |
| **Sample Name:** | MP-6D-091422 | **Units:** | ug/L |
| **Lab Code:** | R2208794-007 | **Basis:** | NA |

## Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C
**Prep Method:** EPA 5030C

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Q |
|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane (TCA) | 1.0 U | 1.0 | 0.20 | 1 | 09/25/22 23:24 | |
| 1,1-Dichloroethane (1,1-DCA) | 1.0 U | 1.0 | 0.20 | 1 | 09/25/22 23:24 | |
| 1,1-Dichloroethene (1,1-DCE) | 1.0 U | 1.0 | 0.20 | 1 | 09/25/22 23:24 | |
| Tetrachloroethene (PCE) | 1.0 U | 1.0 | 0.21 | 1 | 09/25/22 23:24 | |
| Trichloroethene (TCE) | 1.0 U | 1.0 | 0.20 | 1 | 09/25/22 23:24 | |
| Vinyl Chloride | 1.0 U | 1.0 | 0.20 | 1 | 09/25/22 23:24 | |
| cis-1,2-Dichloroethene | 1.0 U | 1.0 | 0.23 | 1 | 09/25/22 23:24 | |
| trans-1,2-Dichloroethene | 1.0 U | 1.0 | 0.20 | 1 | 09/25/22 23:24 | |

| Surrogate Name | % Rec | Control Limits | Date Analyzed | Q |
|---|---|---|---|---|
| 4-Bromofluorobenzene | 93 | 85 - 122 | 09/25/22 23:24 | |
| Dibromofluoromethane | 97 | 80 - 116 | 09/25/22 23:24 | |
| Toluene-d8 | 98 | 87 - 121 | 09/25/22 23:24 | |

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Verina Consulting Group, LLC | **Service Request:** | R2208794 |
| **Project:** | Dover - Kirkwood/5101.0002 | **Date Collected:** | 09/14/22 13:00 |
| **Sample Matrix:** | Water | **Date Received:** | 09/15/22 09:37 |
| **Sample Name:** | MW39-091422 | **Units:** | ug/L |
| **Lab Code:** | R2208794-008 | **Basis:** | NA |

## Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C
**Prep Method:** EPA 5030C

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Q |
|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane (TCA) | 1.0 U | 1.0 | 0.20 | 1 | 09/25/22 23:46 | |
| 1,1-Dichloroethane (1,1-DCA) | 1.0 U | 1.0 | 0.20 | 1 | 09/25/22 23:46 | |
| 1,1-Dichloroethene (1,1-DCE) | 1.0 U | 1.0 | 0.20 | 1 | 09/25/22 23:46 | |
| Tetrachloroethene (PCE) | 1.0 U | 1.0 | 0.21 | 1 | 09/25/22 23:46 | |
| Trichloroethene (TCE) | **1.8** | 1.0 | 0.20 | 1 | 09/25/22 23:46 | |
| Vinyl Chloride | 1.0 U | 1.0 | 0.20 | 1 | 09/25/22 23:46 | |
| cis-1,2-Dichloroethene | 1.0 U | 1.0 | 0.23 | 1 | 09/25/22 23:46 | |
| trans-1,2-Dichloroethene | 1.0 U | 1.0 | 0.20 | 1 | 09/25/22 23:46 | |

| Surrogate Name | % Rec | Control Limits | Date Analyzed | Q |
|---|---|---|---|---|
| 4-Bromofluorobenzene | 92 | 85 - 122 | 09/25/22 23:46 | |
| Dibromofluoromethane | 97 | 80 - 116 | 09/25/22 23:46 | |
| Toluene-d8 | 97 | 87 - 121 | 09/25/22 23:46 | |

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Verina Consulting Group, LLC | **Service Request:** | R2208794 |
| **Project:** | Dover - Kirkwood/5101.0002 | **Date Collected:** | 09/14/22 13:30 |
| **Sample Matrix:** | Water | **Date Received:** | 09/15/22 09:37 |
| **Sample Name:** | MW31-091422 | **Units:** | ug/L |
| **Lab Code:** | R2208794-009 | **Basis:** | NA |

## Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C
**Prep Method:** EPA 5030C

| Analyte Name | Result | | MRL | MDL | Dil. | Date Analyzed | Q |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane (TCA) | 1.0 | U | 1.0 | 0.20 | 1 | 09/26/22 00:07 | |
| 1,1-Dichloroethane (1,1-DCA) | 1.0 | U | 1.0 | 0.20 | 1 | 09/26/22 00:07 | |
| 1,1-Dichloroethene (1,1-DCE) | 1.0 | U | 1.0 | 0.20 | 1 | 09/26/22 00:07 | |
| Tetrachloroethene (PCE) | 1.0 | U | 1.0 | 0.21 | 1 | 09/26/22 00:07 | |
| Trichloroethene (TCE) | 1.0 | U | 1.0 | 0.20 | 1 | 09/26/22 00:07 | |
| Vinyl Chloride | 1.0 | U | 1.0 | 0.20 | 1 | 09/26/22 00:07 | |
| cis-1,2-Dichloroethene | **0.28** | **J** | 1.0 | 0.23 | 1 | 09/26/22 00:07 | |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.20 | 1 | 09/26/22 00:07 | |

| Surrogate Name | % Rec | Control Limits | Date Analyzed | Q |
|---|---|---|---|---|
| 4-Bromofluorobenzene | 93 | 85 - 122 | 09/26/22 00:07 | |
| Dibromofluoromethane | 99 | 80 - 116 | 09/26/22 00:07 | |
| Toluene-d8 | 100 | 87 - 121 | 09/26/22 00:07 | |

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Verina Consulting Group, LLC | **Service Request:** | R2208794 |
| **Project:** | Dover - Kirkwood/5101.0002 | **Date Collected:** | 09/14/22 15:40 |
| **Sample Matrix:** | Water | **Date Received:** | 09/15/22 09:37 |
| **Sample Name:** | MW28-091422 | **Units:** | ug/L |
| **Lab Code:** | R2208794-011 | **Basis:** | NA |

## Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C
**Prep Method:** EPA 5030C

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Q |
|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane (TCA) | 5.0 U | 5.0 | 1.0 | 5 | 09/26/22 01:56 | |
| 1,1-Dichloroethane (1,1-DCA) | 5.0 U | 5.0 | 1.0 | 5 | 09/26/22 01:56 | |
| 1,1-Dichloroethene (1,1-DCE) | 5.0 U | 5.0 | 1.0 | 5 | 09/26/22 01:56 | |
| Tetrachloroethene (PCE) | 5.0 U | 5.0 | 1.1 | 5 | 09/26/22 01:56 | |
| Trichloroethene (TCE) | 5.0 U | 5.0 | 1.0 | 5 | 09/26/22 01:56 | |
| Vinyl Chloride | 5.0 U | 5.0 | 1.0 | 5 | 09/26/22 01:56 | |
| cis-1,2-Dichloroethene | 5.0 U | 5.0 | 1.2 | 5 | 09/26/22 01:56 | |
| trans-1,2-Dichloroethene | 5.0 U | 5.0 | 1.0 | 5 | 09/26/22 01:56 | |

| Surrogate Name | % Rec | Control Limits | Date Analyzed | Q |
|---|---|---|---|---|
| 4-Bromofluorobenzene | 94 | 85 - 122 | 09/26/22 01:56 | |
| Dibromofluoromethane | 98 | 80 - 116 | 09/26/22 01:56 | |
| Toluene-d8 | 99 | 87 - 121 | 09/26/22 01:56 | |

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Verina Consulting Group, LLC | **Service Request:** | R2208794 |
| **Project:** | Dover - Kirkwood/5101.0002 | **Date Collected:** | 09/14/22 15:45 |
| **Sample Matrix:** | Water | **Date Received:** | 09/15/22 09:37 |
| **Sample Name:** | MW19-091422 | **Units:** | ug/L |
| **Lab Code:** | R2208794-012 | **Basis:** | NA |

## Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C
**Prep Method:** EPA 5030C

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Q |
|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane (TCA) | 1.0 U | 1.0 | 0.20 | 1 | 09/26/22 00:29 | |
| 1,1-Dichloroethane (1,1-DCA) | 1.0 U | 1.0 | 0.20 | 1 | 09/26/22 00:29 | |
| 1,1-Dichloroethene (1,1-DCE) | 1.0 U | 1.0 | 0.20 | 1 | 09/26/22 00:29 | |
| Tetrachloroethene (PCE) | **11** | 1.0 | 0.21 | 1 | 09/26/22 00:29 | |
| Trichloroethene (TCE) | **3.5** | 1.0 | 0.20 | 1 | 09/26/22 00:29 | |
| Vinyl Chloride | 1.0 U | 1.0 | 0.20 | 1 | 09/26/22 00:29 | |
| cis-1,2-Dichloroethene | **2.5** | 1.0 | 0.23 | 1 | 09/26/22 00:29 | |
| trans-1,2-Dichloroethene | 1.0 U | 1.0 | 0.20 | 1 | 09/26/22 00:29 | |

| Surrogate Name | % Rec | Control Limits | Date Analyzed | Q |
|---|---|---|---|---|
| 4-Bromofluorobenzene | 94 | 85 - 122 | 09/26/22 00:29 | |
| Dibromofluoromethane | 101 | 80 - 116 | 09/26/22 00:29 | |
| Toluene-d8 | 100 | 87 - 121 | 09/26/22 00:29 | |

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Verina Consulting Group, LLC | **Service Request:** | R2208794 |
| **Project:** | Dover - Kirkwood/5101.0002 | **Date Collected:** | 09/14/22 17:25 |
| **Sample Matrix:** | Water | **Date Received:** | 09/15/22 09:37 |
| **Sample Name:** | MW27-091422 | **Units:** | ug/L |
| **Lab Code:** | R2208794-013 | **Basis:** | NA |

## Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C
**Prep Method:** EPA 5030C

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Q |
|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane (TCA) | 1.0 U | 1.0 | 0.20 | 1 | 09/26/22 00:51 | |
| 1,1-Dichloroethane (1,1-DCA) | 1.0 U | 1.0 | 0.20 | 1 | 09/26/22 00:51 | |
| 1,1-Dichloroethene (1,1-DCE) | 1.0 U | 1.0 | 0.20 | 1 | 09/26/22 00:51 | |
| Tetrachloroethene (PCE) | **0.65 J** | 1.0 | 0.21 | 1 | 09/26/22 00:51 | |
| Trichloroethene (TCE) | **0.59 J** | 1.0 | 0.20 | 1 | 09/26/22 00:51 | |
| Vinyl Chloride | 1.0 U | 1.0 | 0.20 | 1 | 09/26/22 00:51 | |
| cis-1,2-Dichloroethene | **12** | 1.0 | 0.23 | 1 | 09/26/22 00:51 | |
| trans-1,2-Dichloroethene | 1.0 U | 1.0 | 0.20 | 1 | 09/26/22 00:51 | |

| Surrogate Name | % Rec | Control Limits | Date Analyzed | Q |
|---|---|---|---|---|
| 4-Bromofluorobenzene | 93 | 85 - 122 | 09/26/22 00:51 | |
| Dibromofluoromethane | 96 | 80 - 116 | 09/26/22 00:51 | |
| Toluene-d8 | 99 | 87 - 121 | 09/26/22 00:51 | |

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Verina Consulting Group, LLC | **Service Request:** | R2208794 |
| **Project:** | Dover - Kirkwood/5101.0002 | **Date Collected:** | 09/14/22 17:45 |
| **Sample Matrix:** | Water | **Date Received:** | 09/15/22 09:37 |
| **Sample Name:** | MW26-091422 | **Units:** | ug/L |
| **Lab Code:** | R2208794-014 | **Basis:** | NA |

## Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C
**Prep Method:** EPA 5030C

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Q |
|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane (TCA) | 1.0 U | 1.0 | 0.20 | 1 | 09/26/22 01:13 | |
| 1,1-Dichloroethane (1,1-DCA) | 1.0 U | 1.0 | 0.20 | 1 | 09/26/22 01:13 | |
| 1,1-Dichloroethene (1,1-DCE) | 1.0 U | 1.0 | 0.20 | 1 | 09/26/22 01:13 | |
| Tetrachloroethene (PCE) | **4.8** | 1.0 | 0.21 | 1 | 09/26/22 01:13 | |
| Trichloroethene (TCE) | **1.5** | 1.0 | 0.20 | 1 | 09/26/22 01:13 | |
| Vinyl Chloride | 1.0 U | 1.0 | 0.20 | 1 | 09/26/22 01:13 | |
| cis-1,2-Dichloroethene | **2.0** | 1.0 | 0.23 | 1 | 09/26/22 01:13 | |
| trans-1,2-Dichloroethene | 1.0 U | 1.0 | 0.20 | 1 | 09/26/22 01:13 | |

| Surrogate Name | % Rec | Control Limits | Date Analyzed | Q |
|---|---|---|---|---|
| 4-Bromofluorobenzene | 93 | 85 - 122 | 09/26/22 01:13 | |
| Dibromofluoromethane | 98 | 80 - 116 | 09/26/22 01:13 | |
| Toluene-d8 | 99 | 87 - 121 | 09/26/22 01:13 | |

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Verina Consulting Group, LLC | **Service Request:** | R2208794 |
| **Project:** | Dover - Kirkwood/5101.0002 | **Date Collected:** | 09/14/22 17:50 |
| **Sample Matrix:** | Water | **Date Received:** | 09/15/22 09:37 |
| **Sample Name:** | MP3D-091422 | **Units:** | ug/L |
| **Lab Code:** | R2208794-015 | **Basis:** | NA |

## Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C
**Prep Method:** EPA 5030C

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Q |
|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane (TCA) | 1.0 U | 1.0 | 0.20 | 1 | 09/26/22 01:35 | |
| 1,1-Dichloroethane (1,1-DCA) | 1.0 U | 1.0 | 0.20 | 1 | 09/26/22 01:35 | |
| 1,1-Dichloroethene (1,1-DCE) | 1.0 U | 1.0 | 0.20 | 1 | 09/26/22 01:35 | |
| Tetrachloroethene (PCE) | 1.0 U | 1.0 | 0.21 | 1 | 09/26/22 01:35 | |
| Trichloroethene (TCE) | 1.0 U | 1.0 | 0.20 | 1 | 09/26/22 01:35 | |
| Vinyl Chloride | 1.0 U | 1.0 | 0.20 | 1 | 09/26/22 01:35 | |
| cis-1,2-Dichloroethene | **0.55 J** | 1.0 | 0.23 | 1 | 09/26/22 01:35 | |
| trans-1,2-Dichloroethene | 1.0 U | 1.0 | 0.20 | 1 | 09/26/22 01:35 | |

| Surrogate Name | % Rec | Control Limits | Date Analyzed | Q |
|---|---|---|---|---|
| 4-Bromofluorobenzene | 89 | 85 - 122 | 09/26/22 01:35 | |
| Dibromofluoromethane | 97 | 80 - 116 | 09/26/22 01:35 | |
| Toluene-d8 | 98 | 87 - 121 | 09/26/22 01:35 | |

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Verina Consulting Group, LLC | **Service Request:** | R2208794 |
| **Project:** | Dover - Kirkwood/5101.0002 | **Date Collected:** | 09/14/22 17:50 |
| **Sample Matrix:** | Water | **Date Received:** | 09/15/22 09:37 |
| **Sample Name:** | FB-091422 | **Units:** | ug/L |
| **Lab Code:** | R2208794-016 | **Basis:** | NA |

## Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C
**Prep Method:** EPA 5030C

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Q |
|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane (TCA) | 1.0 U | 1.0 | 0.20 | 1 | 09/25/22 21:57 | |
| 1,1-Dichloroethane (1,1-DCA) | 1.0 U | 1.0 | 0.20 | 1 | 09/25/22 21:57 | |
| 1,1-Dichloroethene (1,1-DCE) | 1.0 U | 1.0 | 0.20 | 1 | 09/25/22 21:57 | |
| Tetrachloroethene (PCE) | 1.0 U | 1.0 | 0.21 | 1 | 09/25/22 21:57 | |
| Trichloroethene (TCE) | 1.0 U | 1.0 | 0.20 | 1 | 09/25/22 21:57 | |
| Vinyl Chloride | 1.0 U | 1.0 | 0.20 | 1 | 09/25/22 21:57 | |
| cis-1,2-Dichloroethene | 1.0 U | 1.0 | 0.23 | 1 | 09/25/22 21:57 | |
| trans-1,2-Dichloroethene | 1.0 U | 1.0 | 0.20 | 1 | 09/25/22 21:57 | |

| Surrogate Name | % Rec | Control Limits | Date Analyzed | Q |
|---|---|---|---|---|
| 4-Bromofluorobenzene | 89 | 85 - 122 | 09/25/22 21:57 | |
| Dibromofluoromethane | 97 | 80 - 116 | 09/25/22 21:57 | |
| Toluene-d8 | 98 | 87 - 121 | 09/25/22 21:57 | |

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Verina Consulting Group, LLC | **Service Request:** | R2208794 |
| **Project:** | Dover - Kirkwood/5101.0002 | **Date Collected:** | 09/13/22 10:45 |
| **Sample Matrix:** | Water | **Date Received:** | 09/15/22 09:37 |
| **Sample Name:** | TB-091422 | **Units:** | ug/L |
| **Lab Code:** | R2208794-017 | **Basis:** | NA |

## Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C
**Prep Method:** EPA 5030C

| Analyte Name | Result | MRL | MDL | Dil. | Date Analyzed | Q |
|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane (TCA) | 1.0 U | 1.0 | 0.20 | 1 | 09/25/22 22:18 | |
| 1,1-Dichloroethane (1,1-DCA) | 1.0 U | 1.0 | 0.20 | 1 | 09/25/22 22:18 | |
| 1,1-Dichloroethene (1,1-DCE) | 1.0 U | 1.0 | 0.20 | 1 | 09/25/22 22:18 | |
| Tetrachloroethene (PCE) | 1.0 U | 1.0 | 0.21 | 1 | 09/25/22 22:18 | |
| Trichloroethene (TCE) | 1.0 U | 1.0 | 0.20 | 1 | 09/25/22 22:18 | |
| Vinyl Chloride | 1.0 U | 1.0 | 0.20 | 1 | 09/25/22 22:18 | |
| cis-1,2-Dichloroethene | 1.0 U | 1.0 | 0.23 | 1 | 09/25/22 22:18 | |
| trans-1,2-Dichloroethene | 1.0 U | 1.0 | 0.20 | 1 | 09/25/22 22:18 | |

| Surrogate Name | % Rec | Control Limits | Date Analyzed | Q |
|---|---|---|---|---|
| 4-Bromofluorobenzene | 94 | 85 - 122 | 09/25/22 22:18 | |
| Dibromofluoromethane | 98 | 80 - 116 | 09/25/22 22:18 | |
| Toluene-d8 | 99 | 87 - 121 | 09/25/22 22:18 | |

# Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\092522\
Data File : B6291.D
Acq On : 25 Sep 2022 10:40 pm
Operator : K.Ruest
Sample : R2208794-005|1.0 Inst : MSVOA10
Misc : VERINA 8260 4
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Sep 27 18:05:58 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Sep 08 14:38:30 2022
Response via : Initial Calibration

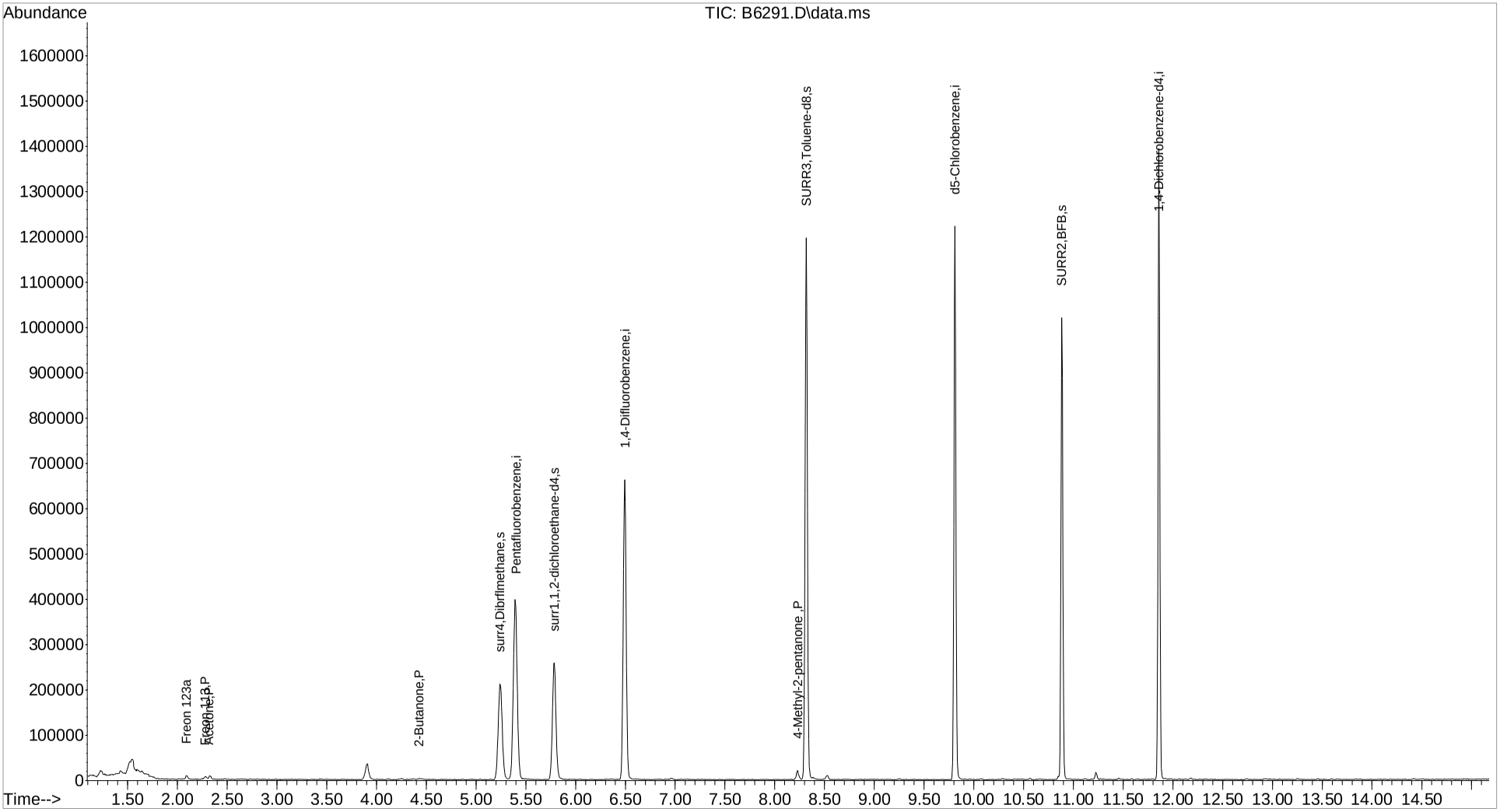
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.397 | 168 | 365970 | 50.00 | ug/L | 0.00 |
| 42) 1,4-Difluorobenzene | 6.494 | 114 | 567936 | 50.00 | ug/L | 0.00 |
| 71) d5-Chlorobenzene | 9.811 | 117 | 513569 | 50.00 | ug/L | 0.00 |
| 91) 1,4-Dichlorobenzene-d4 | 11.859 | 152 | 253727 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 44) surr4,Dibrflmethane | 5.239 | 113 | 176091 | 48.49 | ug/L | -0.01 |
| Spiked Amount 50.000 | Range 80 - 116 | | Recovery = 96.98% | | | |
| 47) surr1,1,2-dichloroetha... | 5.781 | 65 | 219851 | 47.15 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 73 - 125 | | Recovery = 94.30% | | | |
| 65) SURR3,Toluene-d8 | 8.317 | 98 | 682039 | 49.29 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 87 - 121 | | Recovery = 98.58% | | | |
| 70) SURR2,BFB | 10.884 | 95 | 235391 | 45.16 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 85 - 122 | | Recovery = 90.32% | | | |
| Target Compounds | | | | | | Qvalue |
| 11) Freon 123a | 2.087 | 67 | 3349 | 0.75 | ug/L | 89 |
| 15) Freon 113 | 2.276 | 101 | 2080 | 0.59 | ug/L | 86 |
| 16) Acetone | 2.318 | 43 | 8594 | 3.97 | ug/L | 84 |
| 35) 2-Butanone | 4.428 | 43 | 4697 | 1.30 | ug/L | 70 |
| 64) 4-Methyl-2-pentanone | 8.232 | 43 | 13246 | 2.24 | ug/L | 77 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\092522\
Data File : B6291.D
Acq On : 25 Sep 2022 10:40 pm
Operator : K.Ruest
Sample : R2208794-005|1.0 Inst : MSVOA10
Misc : VERINA 8260 4
ALS Vial : 37 Sample Multiplier: 1

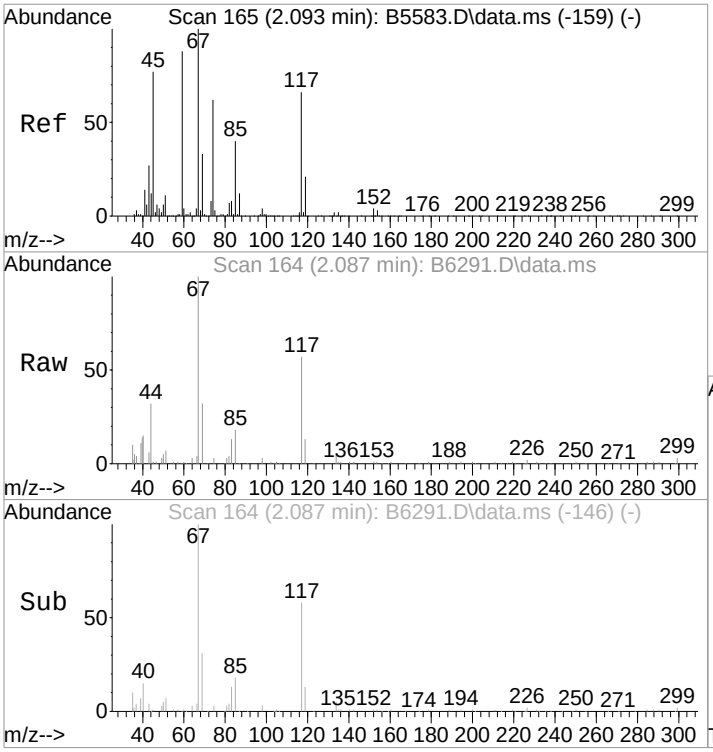
Quant Time: Sep 27 18:05:58 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Sep 08 14:38:30 2022
Response via : Initial Calibration







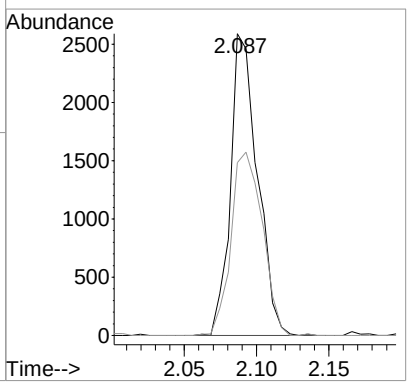

1st 09/27/22
2nd 09/28/22

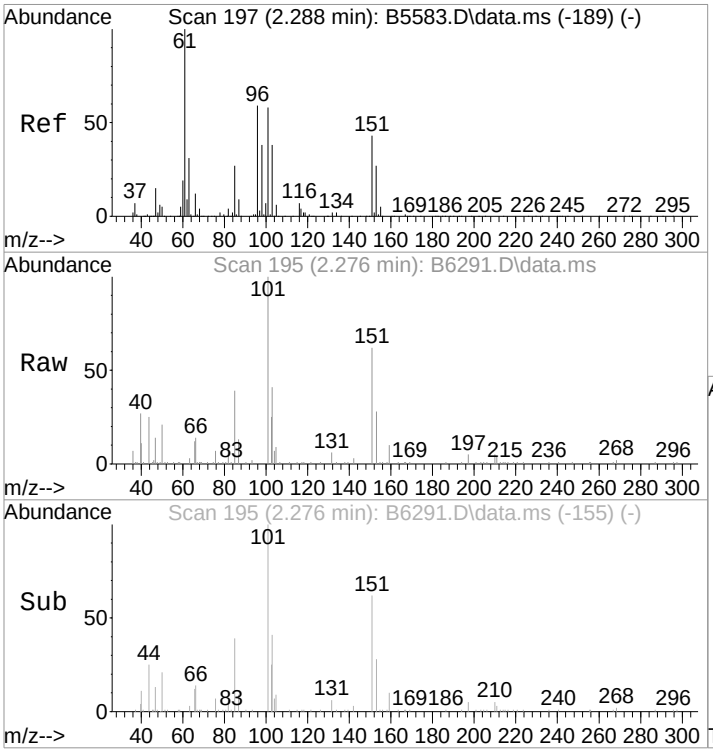



#11
Freon 123a
Concen: 0.75 ug/L
RT: 2.087 min Scan# 164
Delta R.T. -0.006 min
Lab File: B6291.D
Acq: 25 Sep 2022 10:40 pm

Tgt Ion: 67 Resp: 3349

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 67 | 100 | | |
| 117 | 57.2 | 46.2 | 86.2 |

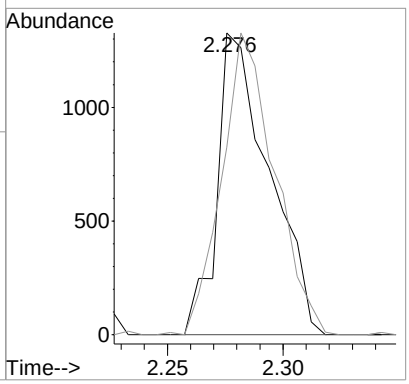


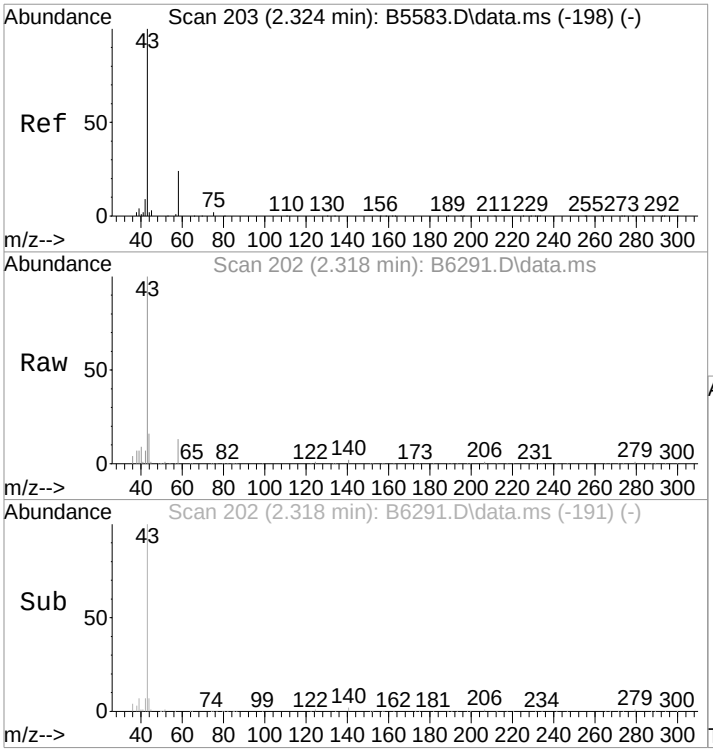




#15
Freon 113
Concen: 0.59 ug/L
RT: 2.276 min Scan# 195
Delta R.T. -0.012 min
Lab File: B6291.D
Acq: 25 Sep 2022 10:40 pm

Tgt Ion:101 Resp: 2080

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 151 | 62.1 | 54.0 | 94.0 |

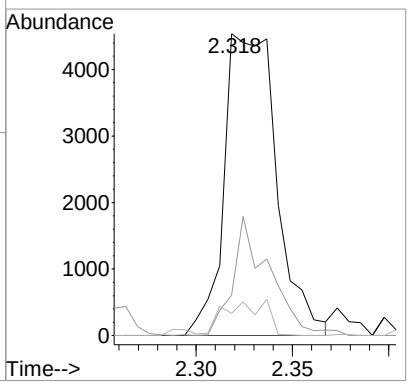


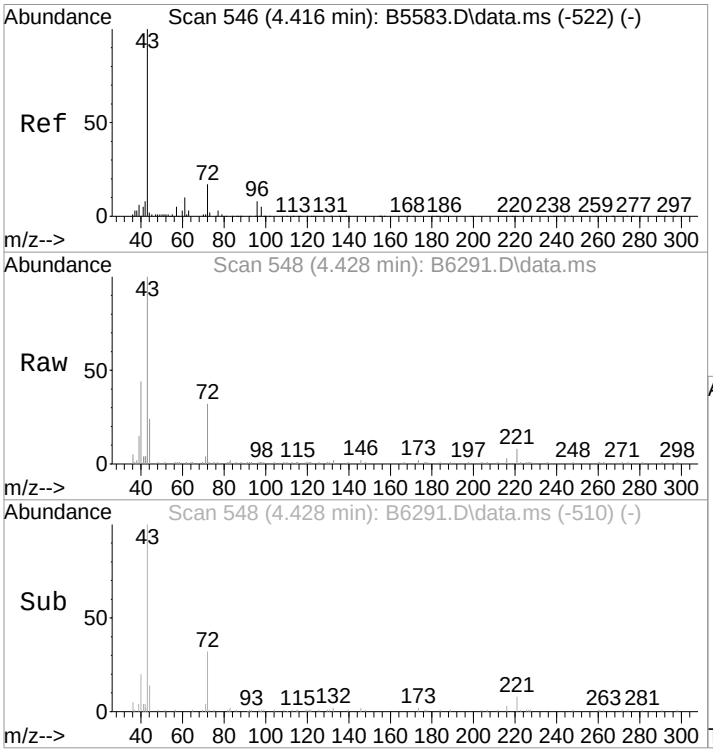



#16
Acetone
Concen: 3.97 ug/L
RT: 2.318 min Scan# 202
Delta R.T. -0.006 min
Lab File: B6291.D
Acq: 25 Sep 2022 10:40 pm

Tgt Ion: 43 Resp: 8594

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 13.4 | 3.7 | 43.7 |
| 42 | 7.3 | 0.0 | 28.6 |

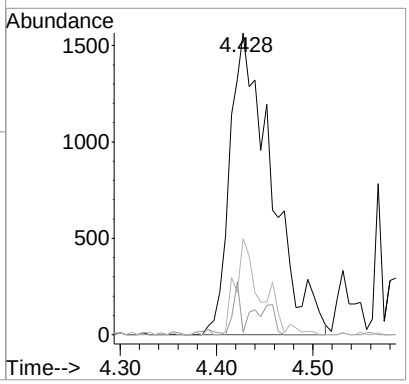


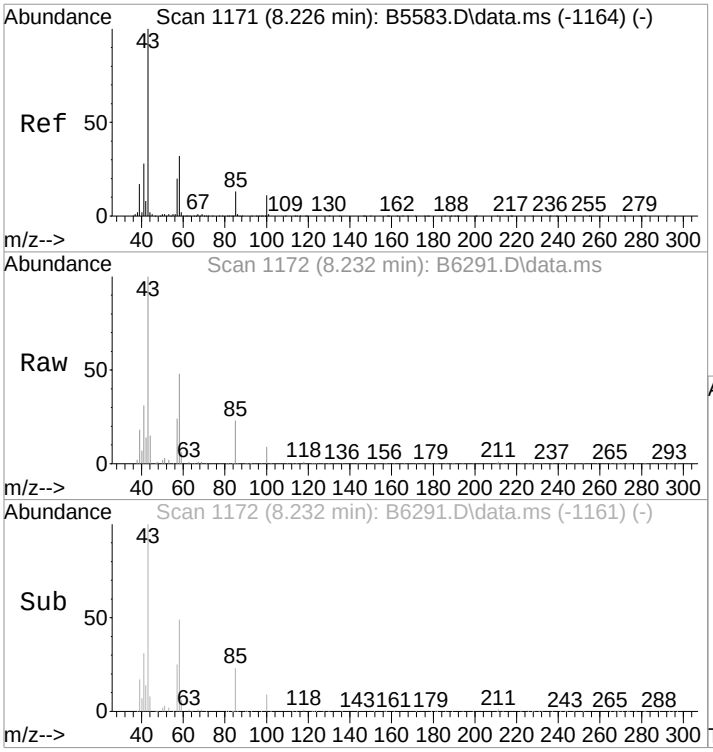




#35
2-Butanone
Concen: 1.30 ug/L
RT: 4.428 min Scan# 548
Delta R.T. 0.012 min
Lab File: B6291.D
Acq: 25 Sep 2022 10:40 pm

Tgt Ion: 43 Resp: 4697

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 0.8 | 0.0 | 25.3 |
| 72 | 31.8 | 0.0 | 36.8 |

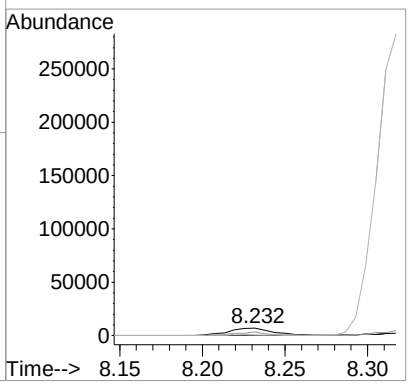





#64
4-Methyl-2-pentanone
Concen: 2.24 ug/L
RT: 8.232 min Scan# 1172
Delta R.T. 0.006 min
Lab File: B6291.D
Acq: 25 Sep 2022 10:40 pm

Tgt Ion: 43 Resp: 13246

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 48.0 | 12.0 | 52.0 |
| 100 | 8.9 | 0.0 | 31.3 |



# Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\092522\
Data File : B6292.D
Acq On : 25 Sep 2022 11:02 pm
Operator : K.Ruest
Sample : R2208794-006|1.0 Inst : MSVOA10
Misc : VERINA 8260 4
ALS Vial : 38 Sample Multiplier: 1

Quant Time: Sep 27 18:07:30 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Sep 08 14:38:30 2022
Response via : Initial Calibration

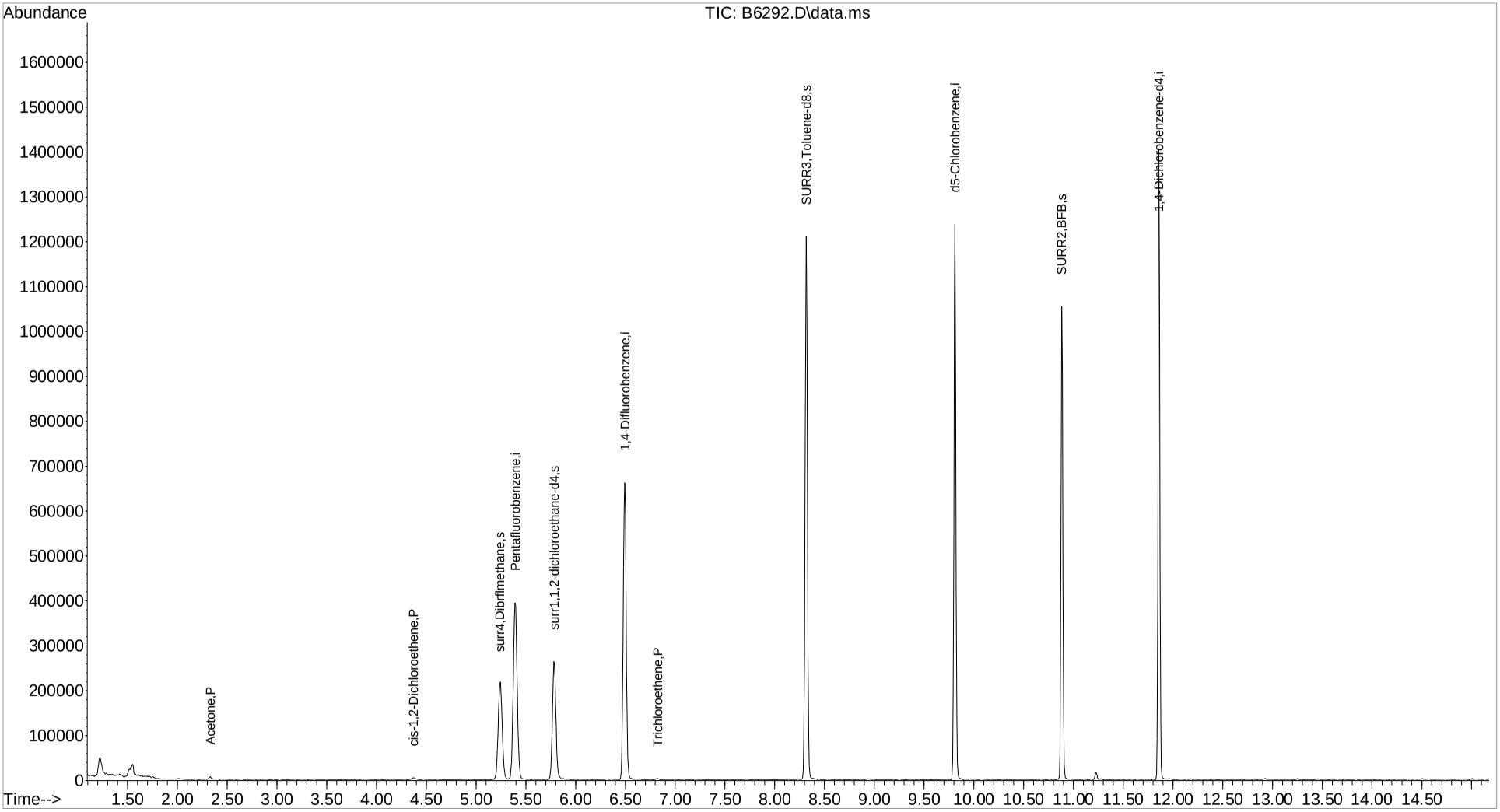
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.391 | 168 | 361426 | 50.00 | ug/L | 0.00 |
| 42) 1,4-Difluorobenzene | 6.494 | 114 | 571010 | 50.00 | ug/L | 0.00 |
| 71) d5-Chlorobenzene | 9.811 | 117 | 510843 | 50.00 | ug/L | 0.00 |
| 91) 1,4-Dichlorobenzene-d4 | 11.859 | 152 | 260766 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 44) surr4,Dibrflmethane | 5.238 | 113 | 183663 | 50.30 | ug/L | -0.01 |
| Spiked Amount 50.000 | Range 80 - 116 | | Recovery = 100.60% | | | |
| 47) surr1,1,2-dichloroetha... | 5.781 | 65 | 224996 | 47.99 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 73 - 125 | | Recovery = 95.98% | | | |
| 65) SURR3,Toluene-d8 | 8.317 | 98 | 694443 | 49.91 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 87 - 121 | | Recovery = 99.82% | | | |
| 70) SURR2,BFB | 10.884 | 95 | 243191 | 46.40 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 85 - 122 | | Recovery = 92.80% | | | |
| Target Compounds | | | | | | Qvalue |
| 16) Acetone | 2.330 | 43 | 5890 | 2.76 | ug/L | 92 |
| 34) cis-1,2-Dichloroethene | 4.373 | 96 | 1669 | 0.41 | ug/L | 91 |
| 54) Trichloroethene | 6.824 | 130 | 969 | 0.27 | ug/L # | 65 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\092522\
Data File : B6292.D
Acq On : 25 Sep 2022 11:02 pm
Operator : K.Ruest
Sample : R2208794-006|1.0 Inst : MSVOA10
Misc : VERINA 8260 4
ALS Vial : 38 Sample Multiplier: 1

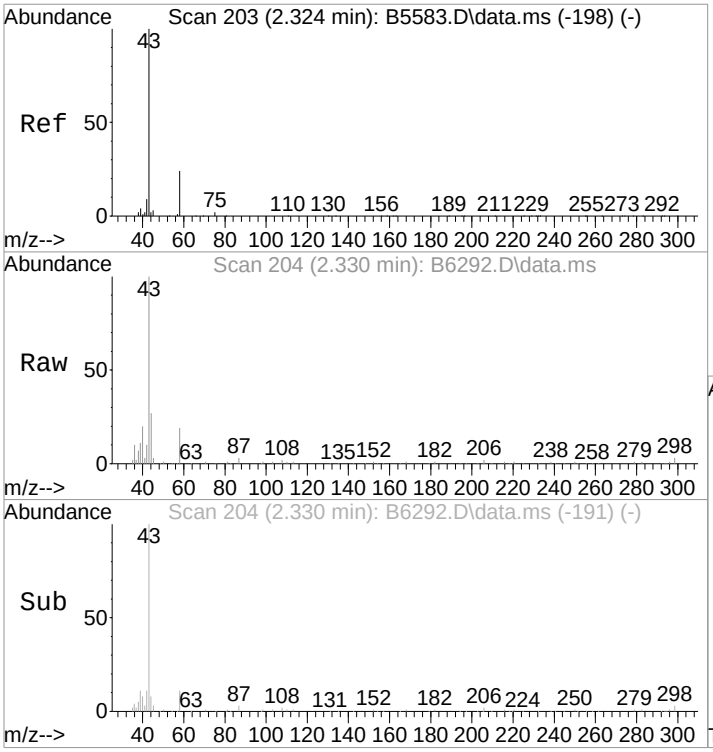
Quant Time: Sep 27 18:07:30 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Sep 08 14:38:30 2022
Response via : Initial Calibration






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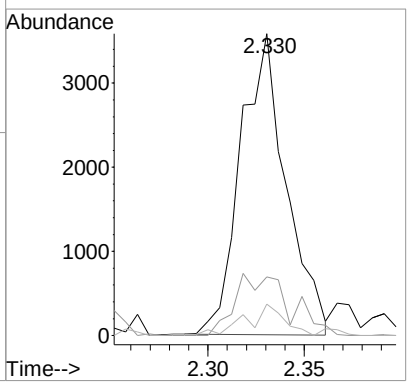
1st 09/27/22
2nd 09/28/22

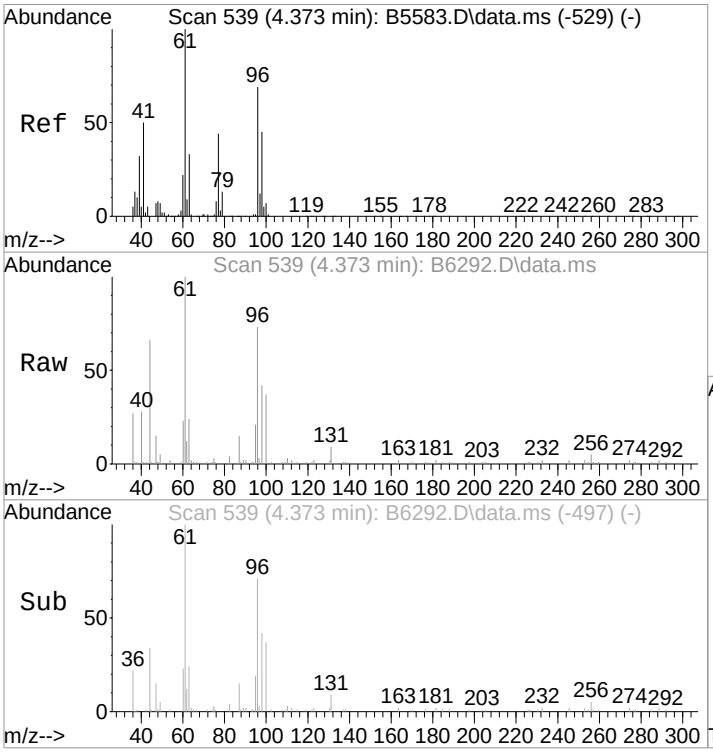



#16
Acetone
Concen: 2.76 ug/L
RT: 2.330 min Scan# 204
Delta R.T. 0.006 min
Lab File: B6292.D
Acq: 25 Sep 2022 11:02 pm

Tgt Ion: 43 Resp: 5890

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 19.4 | 3.7 | 43.7 |
| 42 | 10.4 | 0.0 | 28.6 |

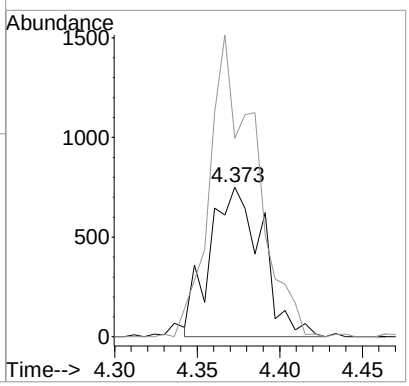


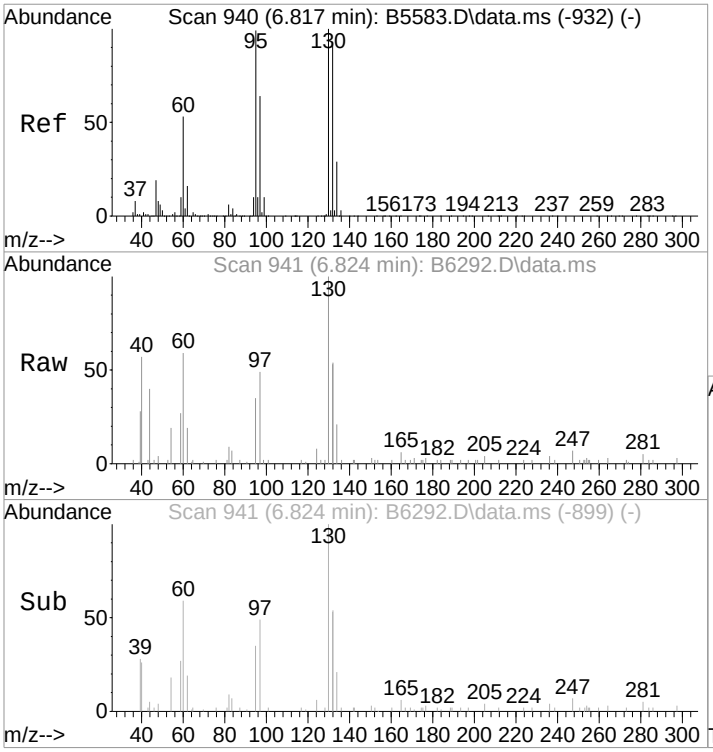




#34
cis-1,2-Dichloroethene
Concen: 0.41 ug/L
RT: 4.373 min Scan# 539
Delta R.T. -0.000 min
Lab File: B6292.D
Acq: 25 Sep 2022 11:02 pm

Tgt Ion: 96 Resp: 1669

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 132.6 | 124.4 | 164.4 |

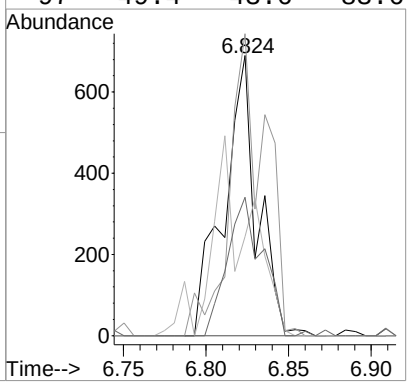





#54
Trichloroethene
Concen: 0.27 ug/L
RT: 6.824 min Scan# 941
Delta R.T. 0.006 min
Lab File: B6292.D
Acq: 25 Sep 2022 11:02 pm

Tgt Ion:130 Resp: 969

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 132 | 107.8 | 73.4 | 113.4 |
| 95 | 35.4 | 78.6 | 118.6# |
| 97 | 49.4 | 43.6 | 83.6 |



# Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\092522\
Data File : B6293.D
Acq On : 25 Sep 2022 11:24 pm
Operator : K.Ruest
Sample : R2208794-007|1.0 Inst : MSVOA10
Misc : VERINA 8260 4
ALS Vial : 39 Sample Multiplier: 1

Quant Time: Sep 27 18:08:47 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Sep 08 14:38:30 2022
Response via : Initial Calibration

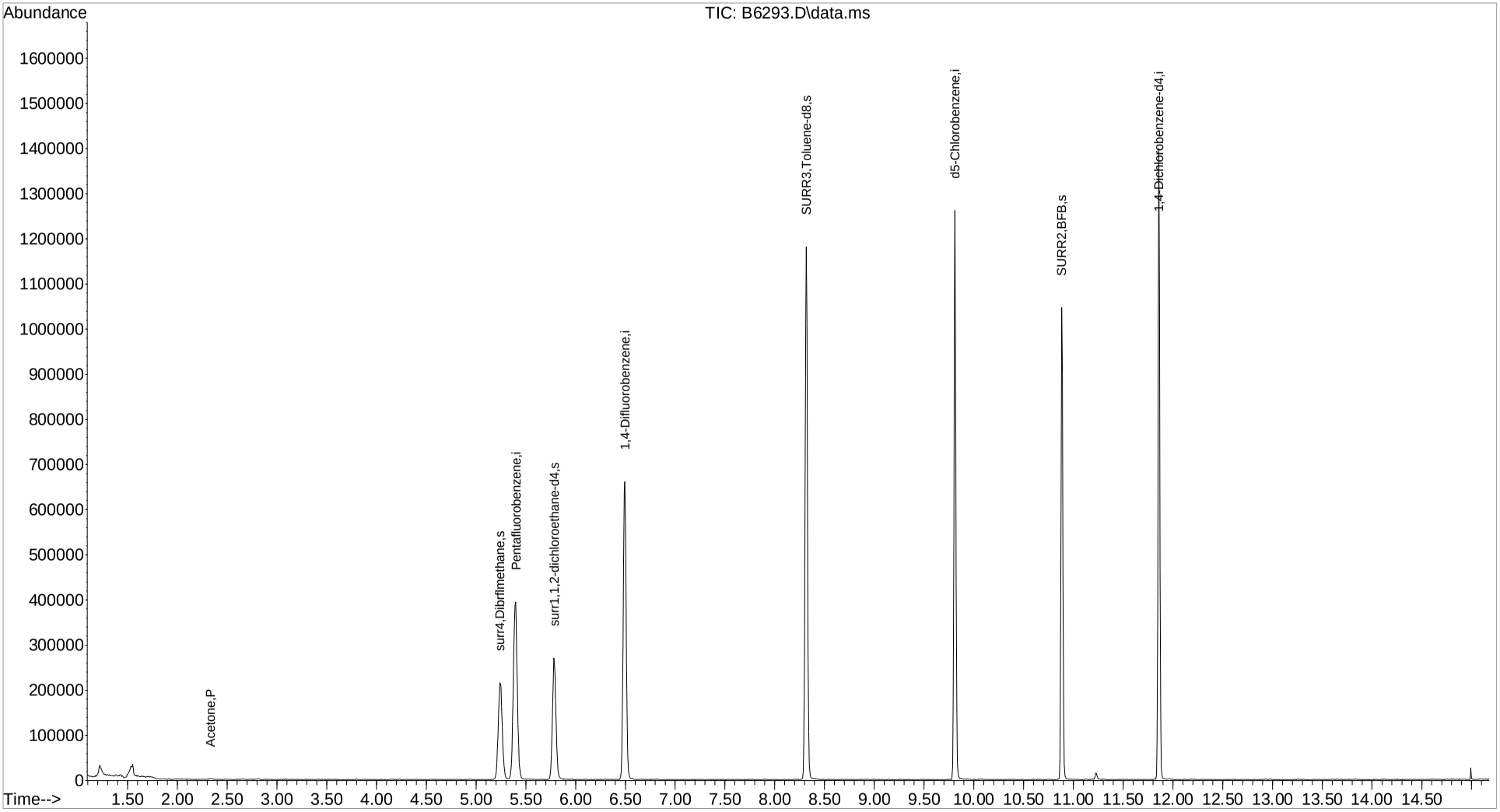
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.397 | 168 | 369928 | 50.00 | ug/L | 0.00 |
| 42) 1,4-Difluorobenzene | 6.494 | 114 | 574375 | 50.00 | ug/L | 0.00 |
| 71) d5-Chlorobenzene | 9.811 | 117 | 515930 | 50.00 | ug/L | 0.00 |
| 91) 1,4-Dichlorobenzene-d4 | 11.859 | 152 | 256241 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 44) surr4,Dibrflmethane | 5.238 | 113 | 178392 | 48.57 | ug/L | -0.01 |
| Spiked Amount 50.000 | Range 80 - 116 | | Recovery = 97.14% | | | |
| 47) surr1,1,2-dichloroetha... | 5.781 | 65 | 227032 | 48.14 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 73 - 125 | | Recovery = 96.28% | | | |
| 65) SURR3,Toluene-d8 | 8.317 | 98 | 687091 | 49.09 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 87 - 121 | | Recovery = 98.18% | | | |
| 70) SURR2,BFB | 10.884 | 95 | 244107 | 46.31 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 85 - 122 | | Recovery = 92.62% | | | |
| Target Compounds | | | | | | Qvalue |
| 16) Acetone | 2.330 | 43 | 1822 | 0.83 | ug/L | 88 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

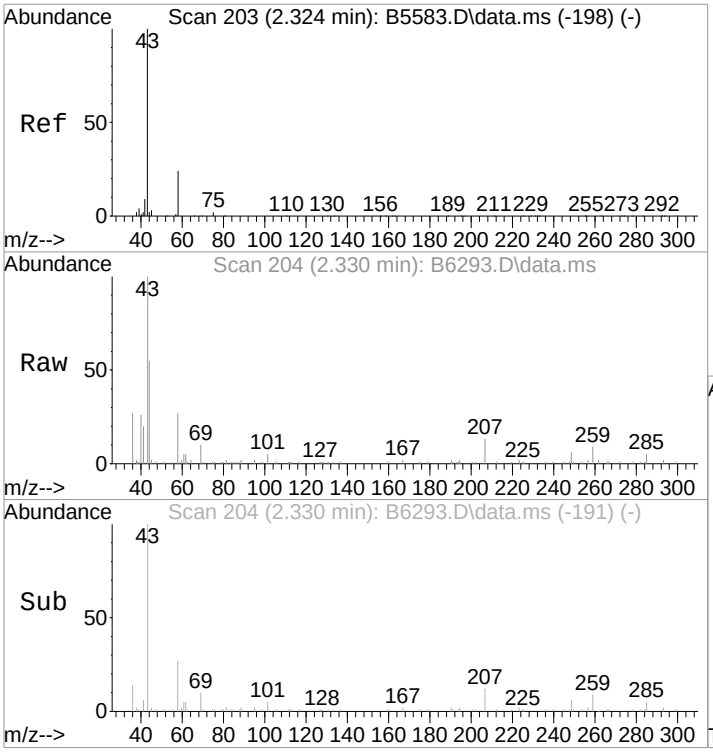
Data Path : I:\ACQUDATA\msvoa10\data\092522\
Data File : B6293.D
Acq On : 25 Sep 2022 11:24 pm
Operator : K.Ruest
Sample : R2208794-007|1.0 Inst : MSVOA10
Misc : VERINA 8260 4
ALS Vial : 39 Sample Multiplier: 1

Quant Time: Sep 27 18:08:47 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Sep 08 14:38:30 2022
Response via : Initial Calibration





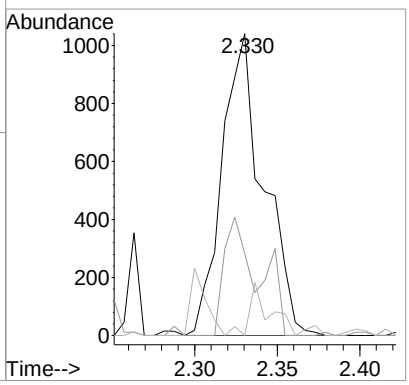

1st 09/27/22
2nd 09/28/22




#16
Acetone
Concen: 0.83 ug/L
RT: 2.330 min Scan# 204
Delta R.T. 0.006 min
Lab File: B6293.D
Acq: 25 Sep 2022 11:24 pm

Tgt Ion: 43 Resp: 1822

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 27.2 | 3.7 | 43.7 |
| 42 | 0.0 | 0.0 | 28.6 |



# Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\092522\
Data File : B6294.D
Acq On : 25 Sep 2022 11:46 pm
Operator : K.Ruest
Sample : R2208794-008|1.0 Inst : MSVOA10
Misc : VERINA 8260 4
ALS Vial : 40 Sample Multiplier: 1

Quant Time: Sep 27 18:10:06 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Sep 08 14:38:30 2022
Response via : Initial Calibration

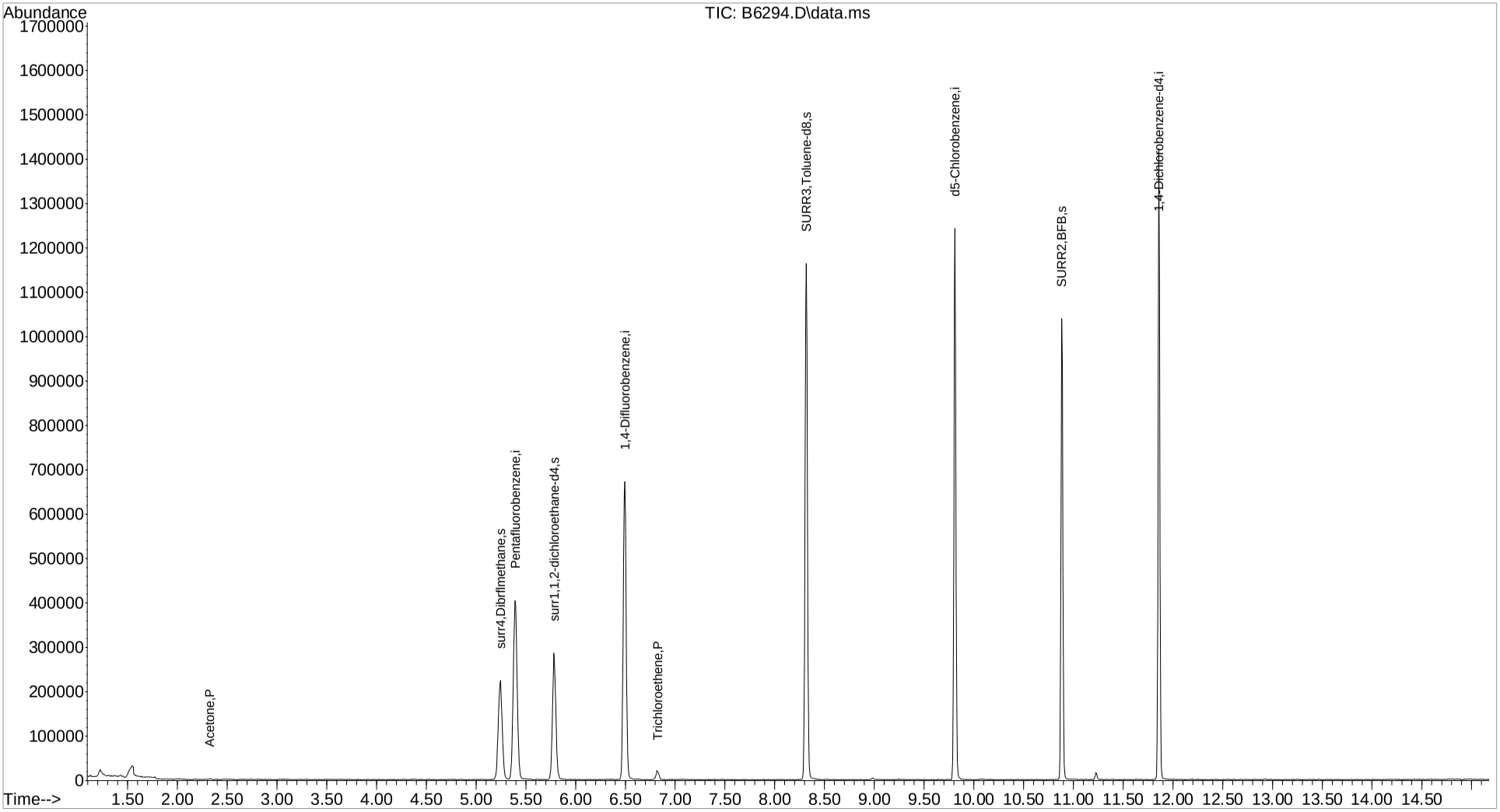
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.391 | 168 | 370960 | 50.00 | ug/L | 0.00 |
| 42) 1,4-Difluorobenzene | 6.494 | 114 | 584543 | 50.00 | ug/L | 0.00 |
| 71) d5-Chlorobenzene | 9.811 | 117 | 529147 | 50.00 | ug/L | 0.00 |
| 91) 1,4-Dichlorobenzene-d4 | 11.859 | 152 | 256992 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 44) surr4,Dibrflmethane | 5.245 | 113 | 181181 | 48.47 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 116 | | Recovery = 96.94% | | | |
| 47) surr1,1,2-dichloroetha... | 5.781 | 65 | 227361 | 47.37 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 73 - 125 | | Recovery = 94.74% | | | |
| 65) SURR3,Toluene-d8 | 8.317 | 98 | 693160 | 48.67 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 87 - 121 | | Recovery = 97.34% | | | |
| 70) SURR2,BFB | 10.884 | 95 | 245986 | 45.85 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 85 - 122 | | Recovery = 91.70% | | | |
| Target Compounds | | | | | | Qvalue |
| 16) Acetone | 2.324 | 43 | 1343 | 0.61 | ug/L | 80 |
| 54) Trichloroethene | 6.824 | 130 | 6608 | 1.81 | ug/L # | 87 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\092522\
Data File : B6294.D
Acq On : 25 Sep 2022 11:46 pm
Operator : K.Ruest
Sample : R2208794-008|1.0 Inst : MSVOA10
Misc : VERINA 8260 4
ALS Vial : 40 Sample Multiplier: 1

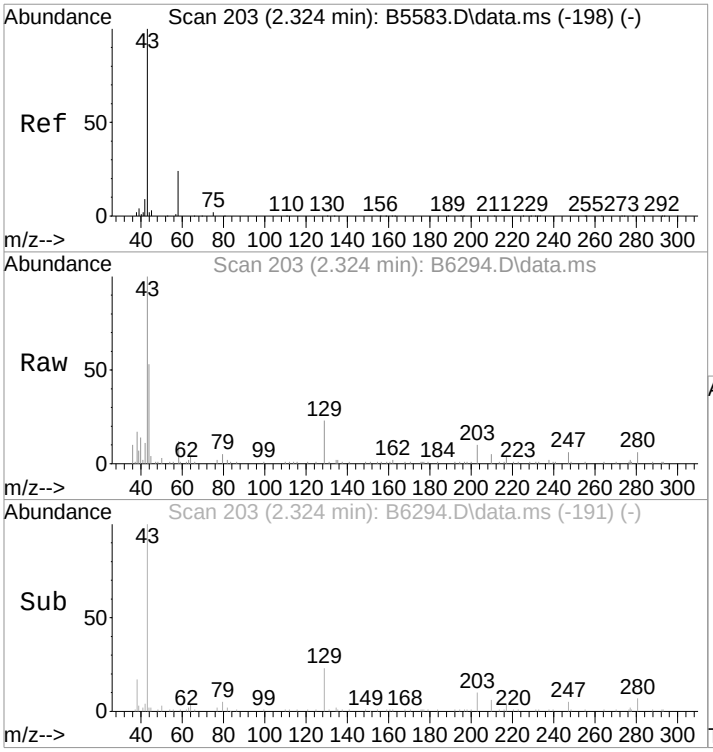
Quant Time: Sep 27 18:10:06 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Sep 08 14:38:30 2022
Response via : Initial Calibration







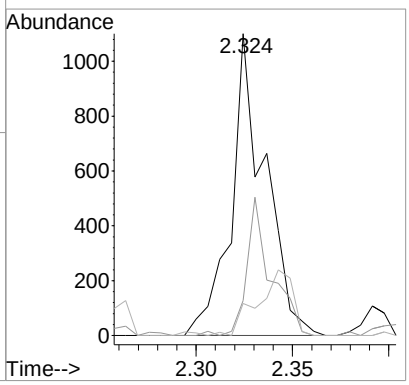

1st 09/27/22
2nd 09/28/22

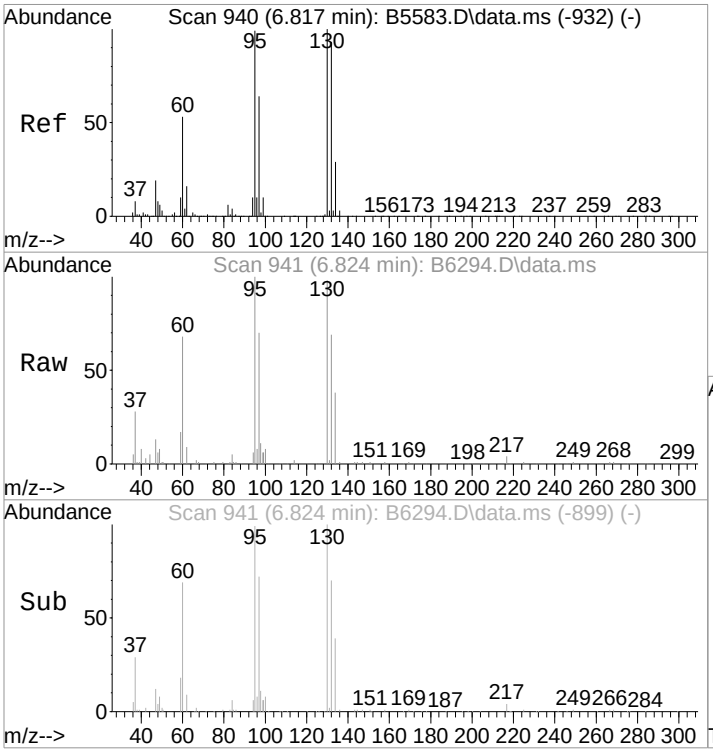



#16
Acetone
Concen: 0.61 ug/L
RT: 2.324 min Scan# 203
Delta R.T. -0.000 min
Lab File: B6294.D
Acq: 25 Sep 2022 11:46 pm

Tgt Ion: 43 Resp: 1343

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 11.6 | 3.7 | 43.7 |
| 42 | 10.6 | 0.0 | 28.6 |

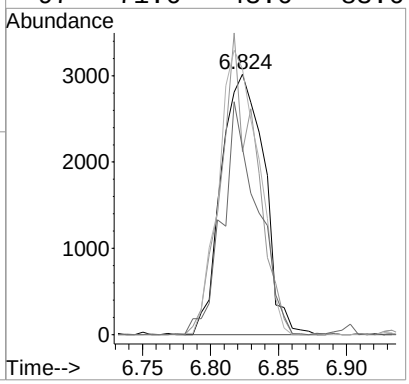



#54
Trichloroethene
Concen: 1.81 ug/L
RT: 6.824 min Scan# 941
Delta R.T. 0.006 min
Lab File: B6294.D
Acq: 25 Sep 2022 11:46 pm

Tgt Ion:130 Resp: 6608

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 132 | 70.3 | 73.4 | 113.4# |
| 95 | 101.9 | 78.6 | 118.6 |
| 97 | 71.6 | 43.6 | 83.6 |

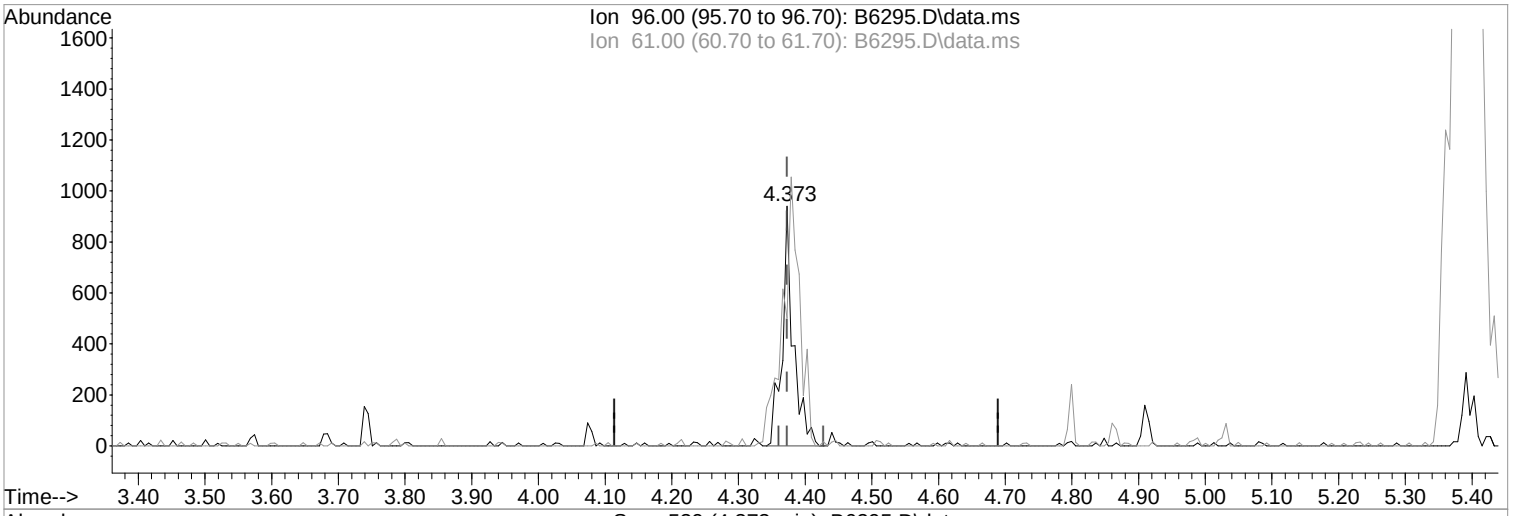


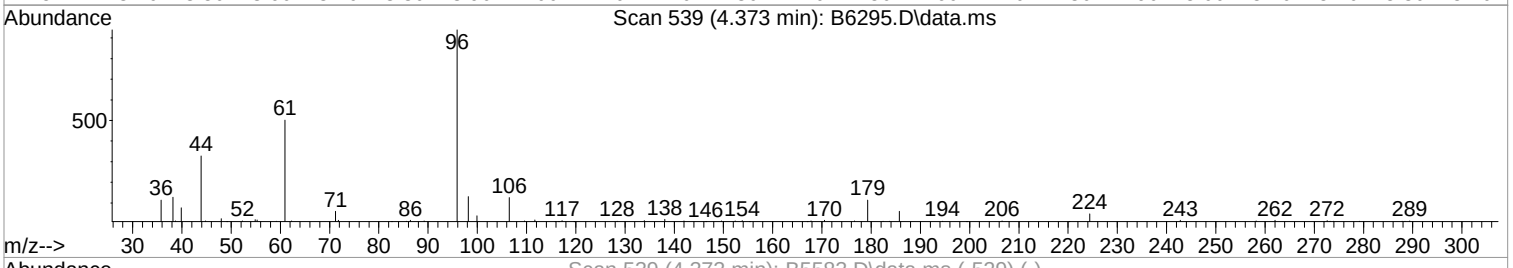
1st 09/27/22
2nd 09/28/22

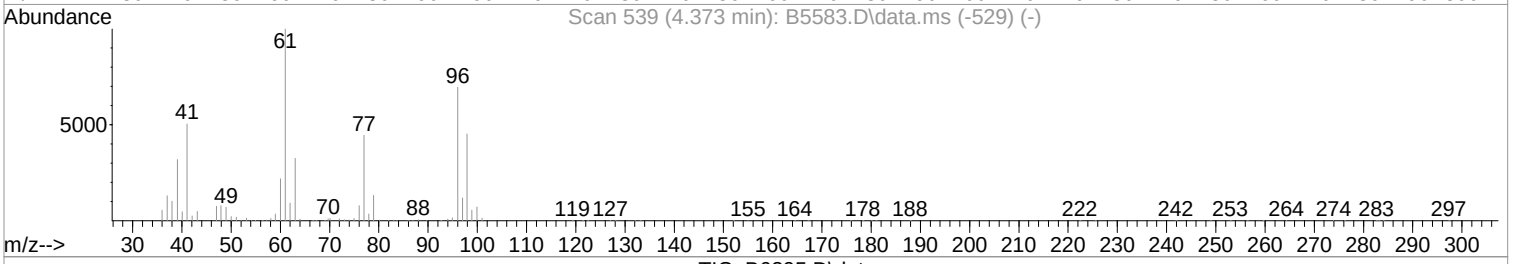
# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\092522\
Data File : B6295.D
Acq On : 26 Sep 2022 12:07 am
Operator : K.Ruest
Sample : R2208794-009|1.0 Inst : MSVOA10
Misc : VERINA 8260 4
ALS Vial : 41 Sample Multiplier: 1

Quant Time: Sep 26 09:09:37 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Sep 08 14:38:30 2022
Response via : Initial Calibration




TIC: B6295.D\data.ms

(34) cis-1,2-Dichloroethene (P)

4.373min (-0.000) 0.27 ug/L m

response 1092

| Ion | Exp% | Act% |
|---|---|---|
| 96.00 | 100 | 100 |
| 61.00 | 144.40 | 53.40# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

After

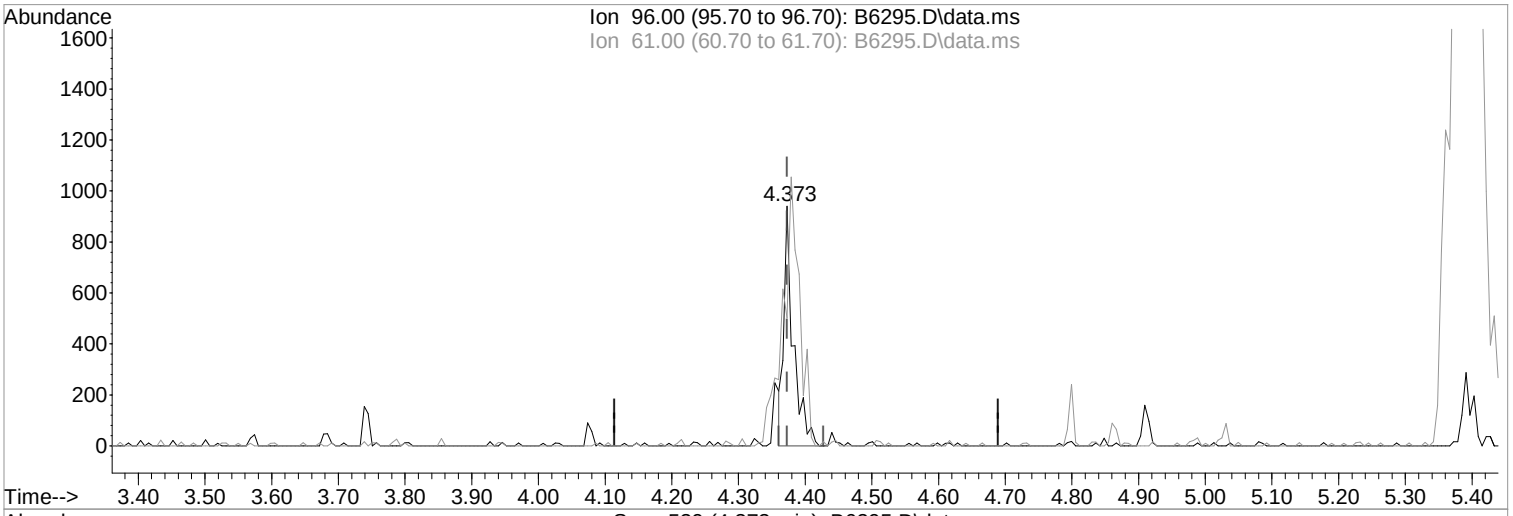
Poor integration.

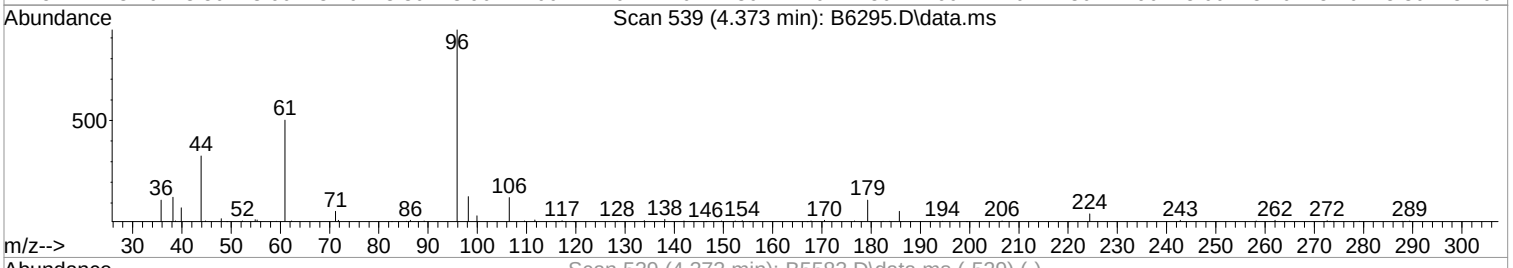
09/27/22

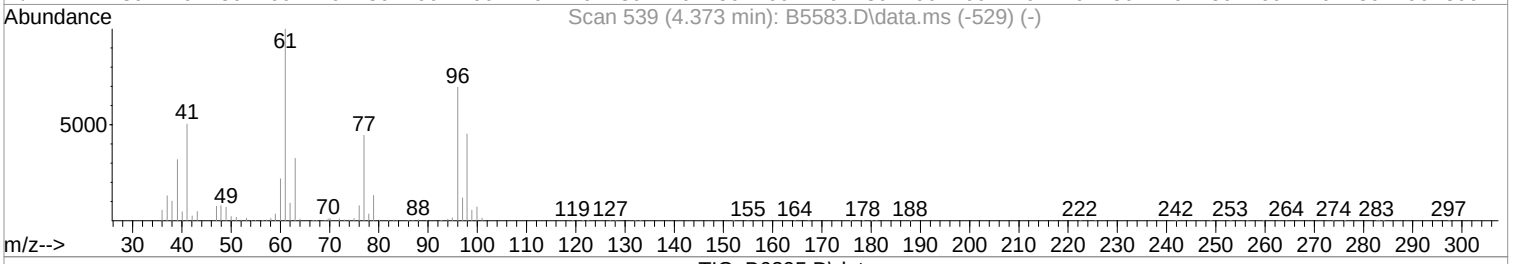
# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\092522\
Data File : B6295.D
Acq On : 26 Sep 2022 12:07 am
Operator : K.Ruest
Sample : R2208794-009|1.0 Inst : MSVOA10
Misc : VERINA 8260 4
ALS Vial : 41 Sample Multiplier: 1

Quant Time: Sep 26 09:09:37 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Sep 08 14:38:30 2022
Response via : Initial Calibration




TIC: B6295.D\data.ms

(34) cis-1,2-Dichloroethene (P)

4.373min (-0.000) 0.23 ug/L

response 919

| Ion | Exp% | Act% |
|---|---|---|
| 96.00 | 100 | 100 |
| 61.00 | 144.40 | 53.40# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

Before

09/27/22

# Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\092522\
Data File : B6295.D
Acq On : 26 Sep 2022 12:07 am
Operator : K.Ruest
Sample : R2208794-009|1.0 Inst : MSVOA10
Misc : VERINA 8260 4
ALS Vial : 41 Sample Multiplier: 1

Quant Time: Sep 27 18:11:44 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Sep 08 14:38:30 2022
Response via : Initial Calibration

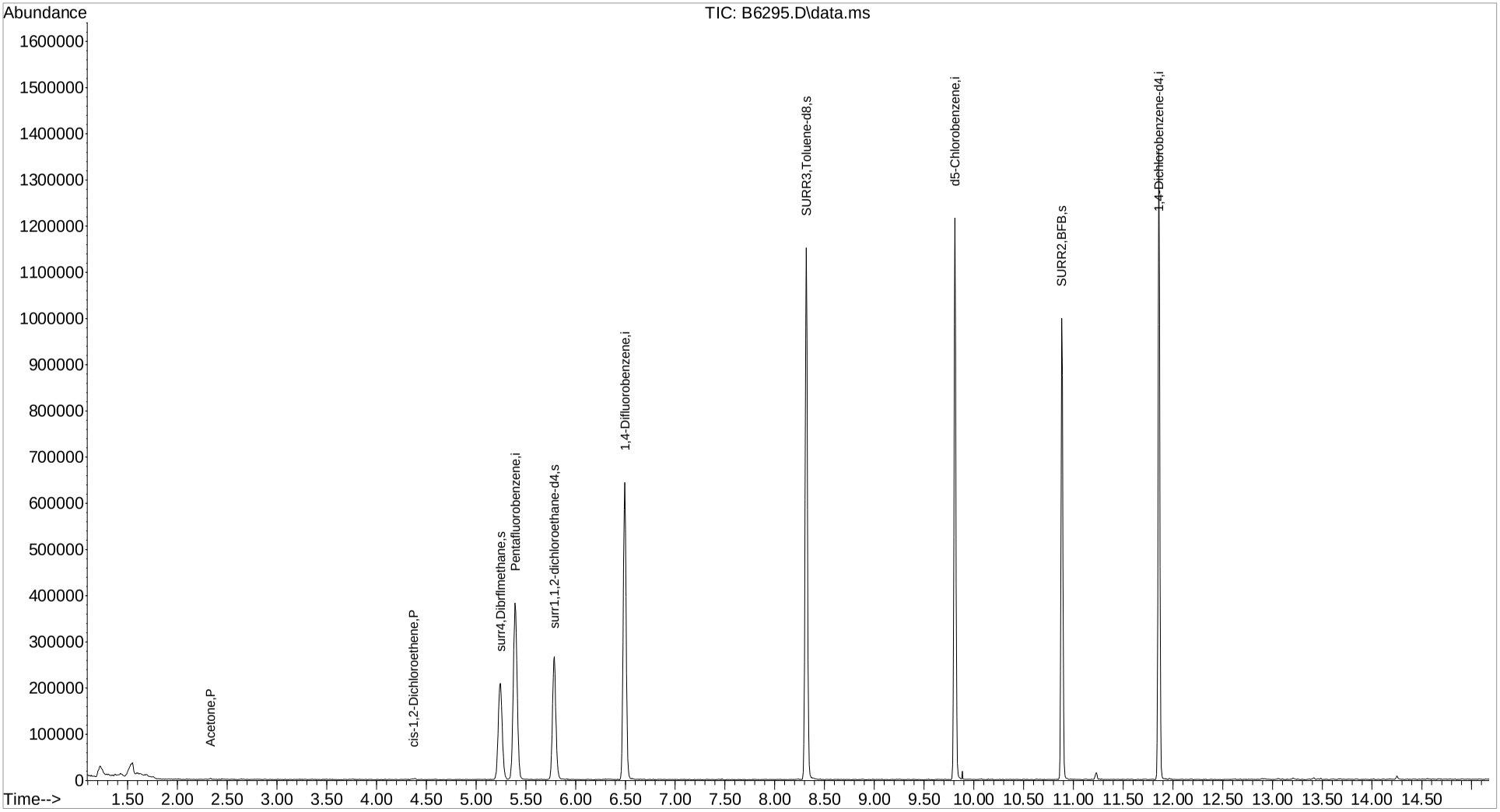
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.391 | 168 | 348412 | 50.00 | ug/L | 0.00 |
| 42) 1,4-Difluorobenzene | 6.494 | 114 | 542131 | 50.00 | ug/L | 0.00 |
| 71) d5-Chlorobenzene | 9.811 | 117 | 500871 | 50.00 | ug/L | 0.00 |
| 91) 1,4-Dichlorobenzene-d4 | 11.859 | 152 | 252342 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 44) surr4,Dibrflmethane | 5.244 | 113 | 171340 | 49.42 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 116 | | Recovery = 98.84% | | | |
| 47) surr1,1,2-dichloroetha... | 5.781 | 65 | 217423 | 48.84 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 73 - 125 | | Recovery = 97.68% | | | |
| 65) SURR3,Toluene-d8 | 8.317 | 98 | 662796 | 50.18 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 87 - 121 | | Recovery = 100.36% | | | |
| 70) SURR2,BFB | 10.884 | 95 | 231889 | 46.60 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 85 - 122 | | Recovery = 93.20% | | | |
| Target Compounds | | | | | | Qvalue |
| 6) Bromomethane | 1.587 | 94 | 318 | Below Cal | # | 14 |
| 16) Acetone | 2.330 | 43 | 2736 | 1.33 | ug/L | 77 |
| 34) cis-1,2-Dichloroethene | 4.373 | 96 | 1092m | 0.27 | ug/L | |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\092522\
Data File : B6295.D
Acq On : 26 Sep 2022 12:07 am
Operator : K.Ruest
Sample : R2208794-009|1.0 Inst : MSVOA10
Misc : VERINA 8260 4
ALS Vial : 41 Sample Multiplier: 1

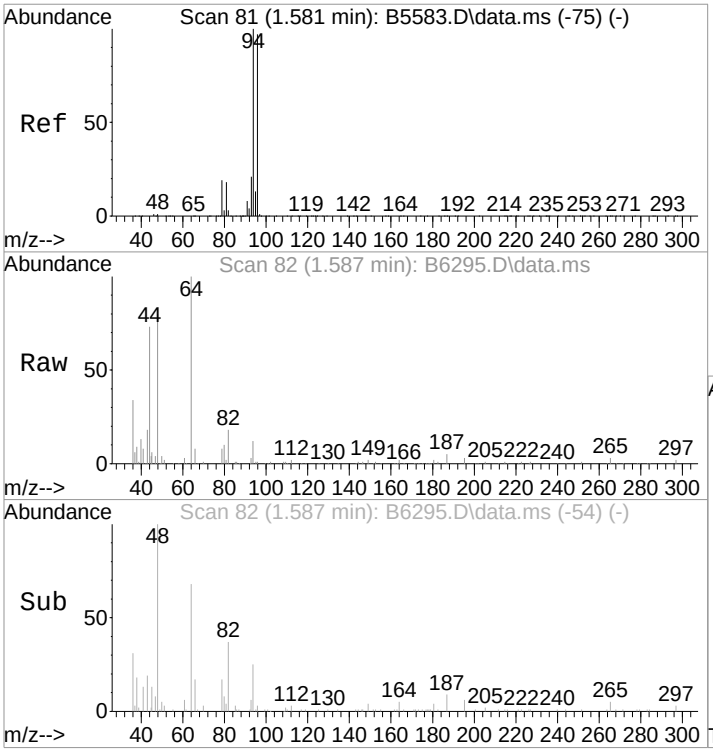
Quant Time: Sep 27 18:11:44 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Sep 08 14:38:30 2022
Response via : Initial Calibration







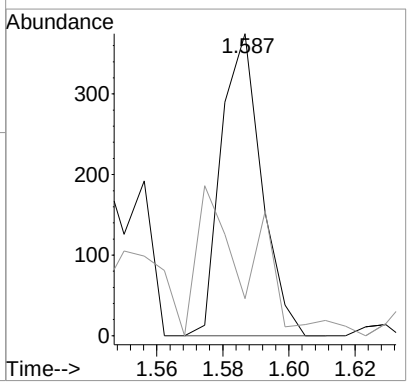

1st 09/27/22
2nd 09/28/22

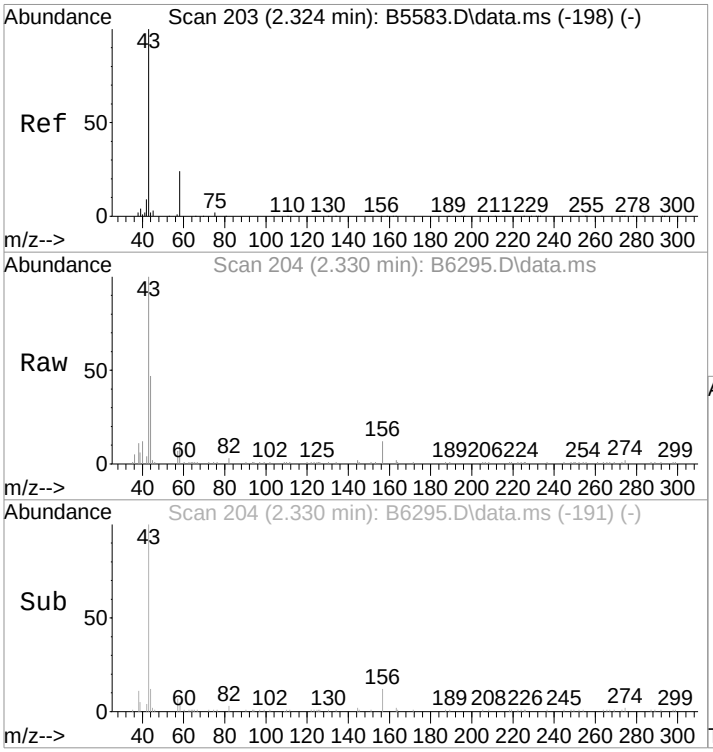



#6
Bromomethane
Concen: Below Cal
RT: 1.587 min Scan# 82
Delta R.T. 0.007 min
Lab File: B6295.D
Acq: 26 Sep 2022 12:07 am

Tgt Ion: 94 Resp: 318

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 12.3 | 77.0 | 117.0# |

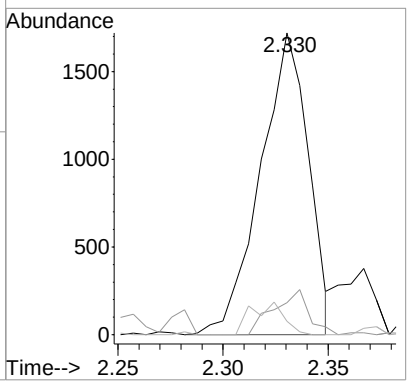


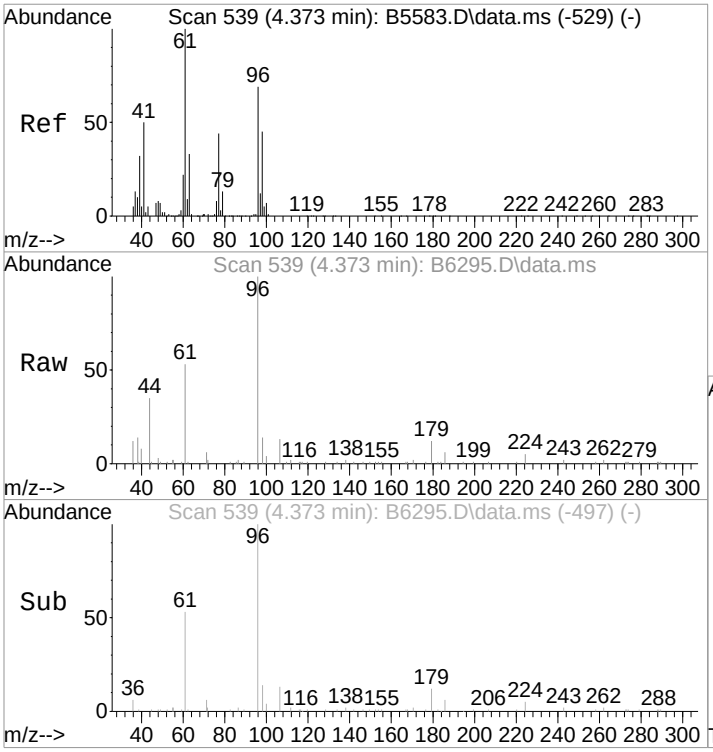




#16
Acetone
Concen: 1.33 ug/L
RT: 2.330 min Scan# 204
Delta R.T. 0.006 min
Lab File: B6295.D
Acq: 26 Sep 2022 12:07 am

Tgt Ion: 43 Resp: 2736

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 10.6 | 3.7 | 43.7 |
| 42 | 4.5 | 0.0 | 28.6 |

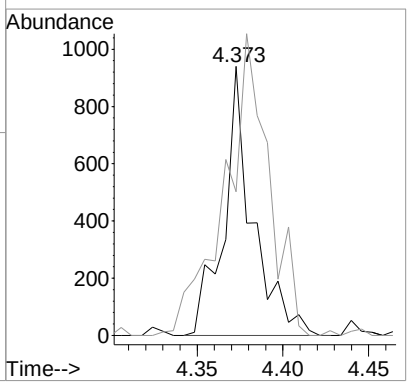





#34
cis-1,2-Dichloroethene
Concen: 0.27 ug/L m
RT: 4.373 min Scan# 539
Delta R.T. -0.000 min
Lab File: B6295.D
Acq: 26 Sep 2022 12:07 am

Tgt Ion: 96 Resp: 1092

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 53.4 | 124.4 | 164.4# |

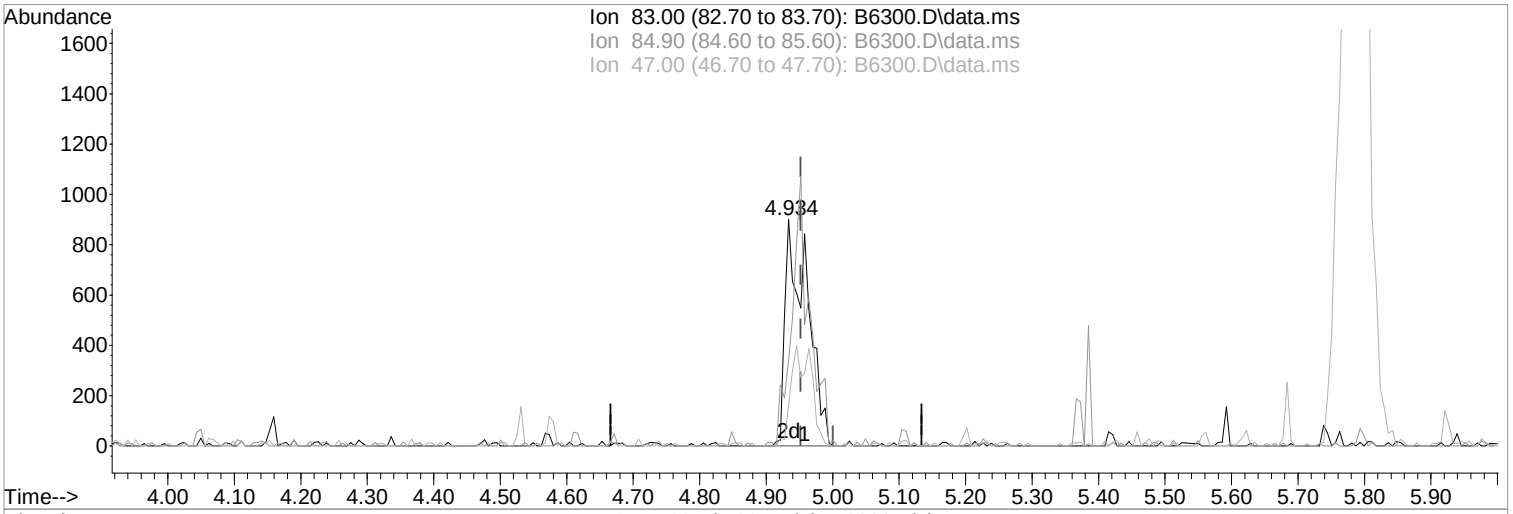


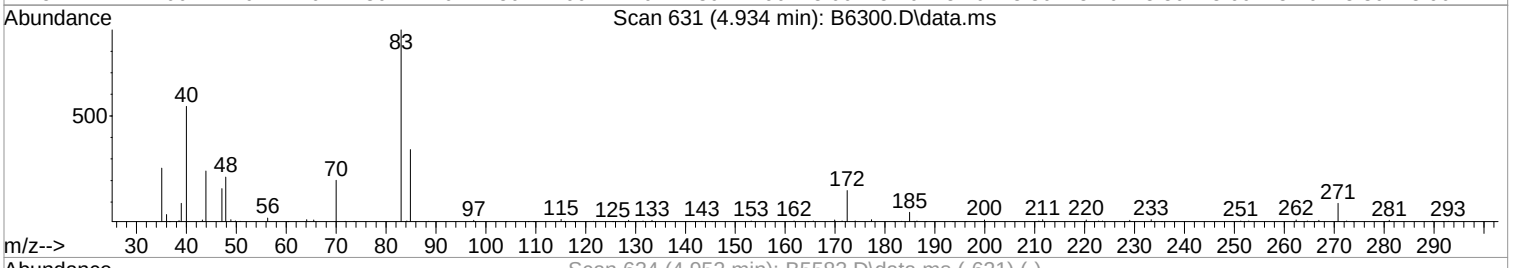
1st 09/28/22
2nd 09/28/22

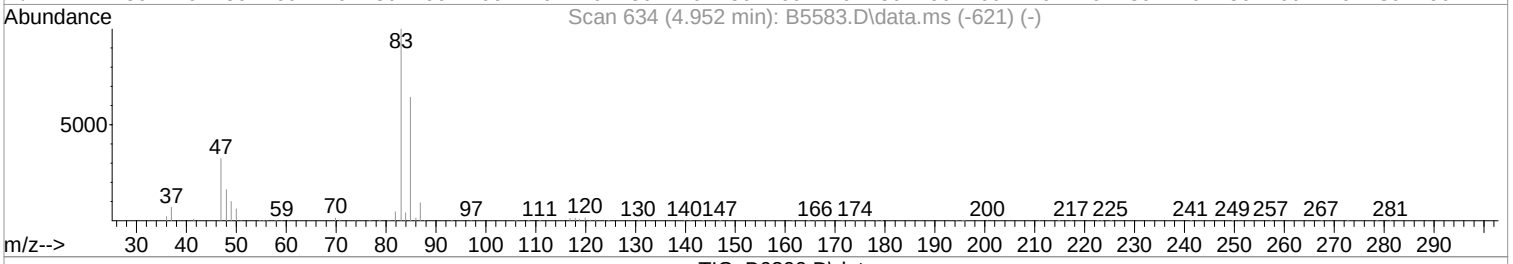
# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\092522\
Data File : B6300.D
Acq On : 26 Sep 2022 1:56 am
Operator : K.Ruest
Sample : R2208794-011|5.0 Inst : MSVOA10
Misc : VERINA 8260 4
ALS Vial : 46 Sample Multiplier: 1

Quant Time: Sep 26 09:10:31 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Sep 08 14:38:30 2022
Response via : Initial Calibration




TIC: B6300.D\data.ms

(40) Chloroform (P)

4.934min (-0.018) 0.33 ug/L m

response 2093

| Ion | Exp% | Act% |
|---|---|---|
| 83.00 | 100 | 100 |
| 84.90 | 64.40 | 38.11# |
| 47.00 | 32.20 | 18.11 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

After

Split Peak

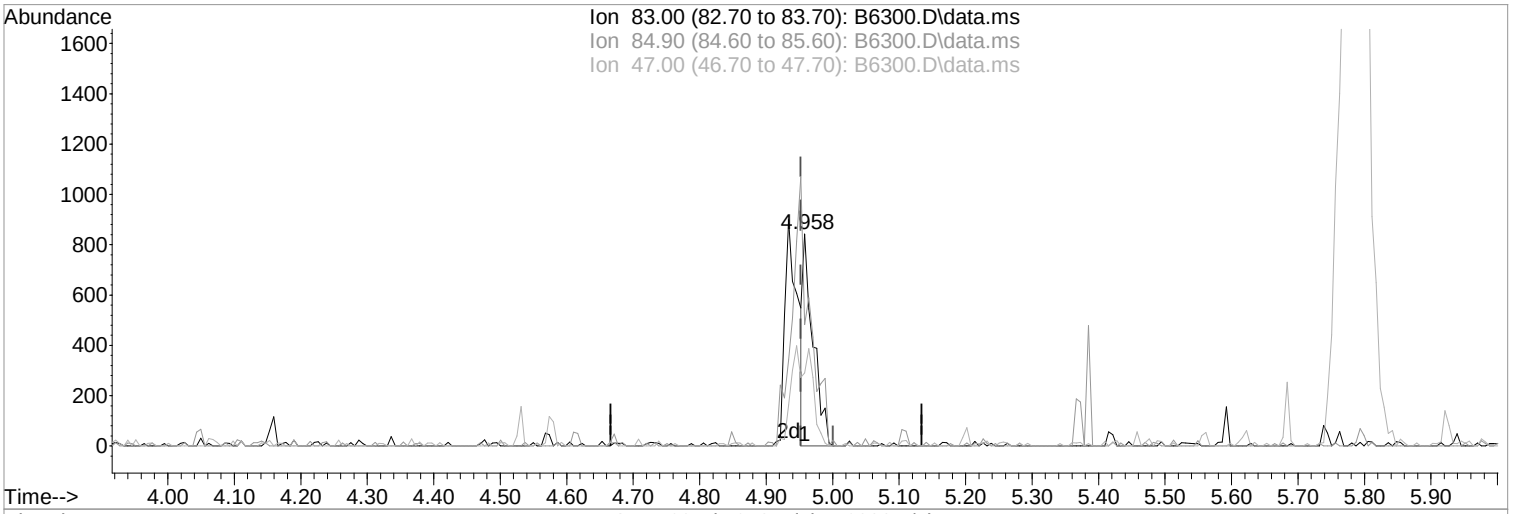
09/28/22

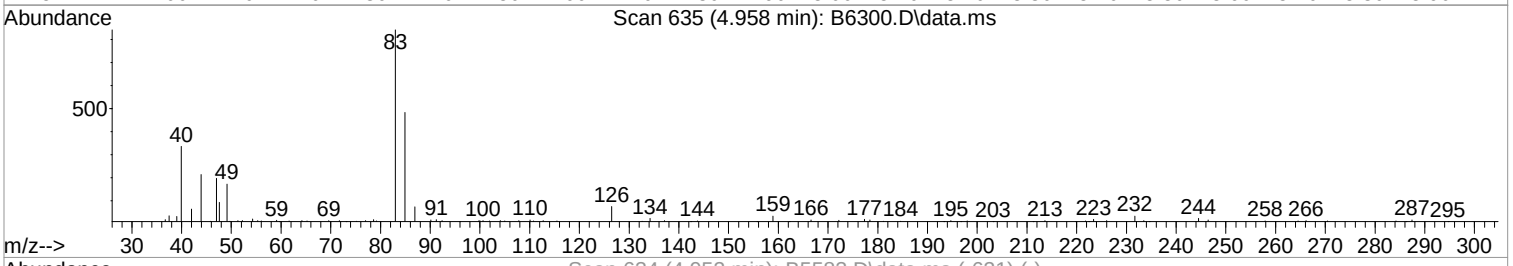
1st 09/28/22
2nd 09/28/22

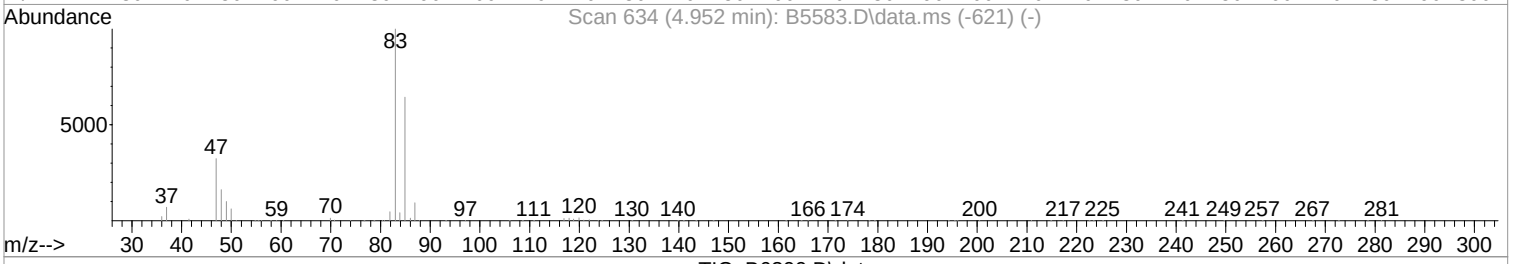
# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\092522\
Data File : B6300.D
Acq On : 26 Sep 2022 1:56 am
Operator : K.Ruest
Sample : R2208794-011|5.0 Inst : MSVOA10
Misc : VERINA 8260 4
ALS Vial : 46 Sample Multiplier: 1

Quant Time: Sep 26 09:10:31 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Sep 08 14:38:30 2022
Response via : Initial Calibration




TIC: B6300.D\data.ms

(40) Chloroform (P)

4.958min (+0.006) 0.14 ug/L

response 898

| Ion | Exp% | Act% |
|---|---|---|
| 83.00 | 100 | 100 |
| 84.90 | 64.40 | 57.30 |
| 47.00 | 32.20 | 34.40 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

Before

09/28/22

# Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\092522\
Data File : B6300.D
Acq On : 26 Sep 2022 1:56 am
Operator : K.Ruest
Sample : R2208794-011|5.0 Inst : MSVOA10
Misc : VERINA 8260 4
ALS Vial : 46 Sample Multiplier: 1

Quant Time: Sep 28 11:35:03 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Sep 08 14:38:30 2022
Response via : Initial Calibration

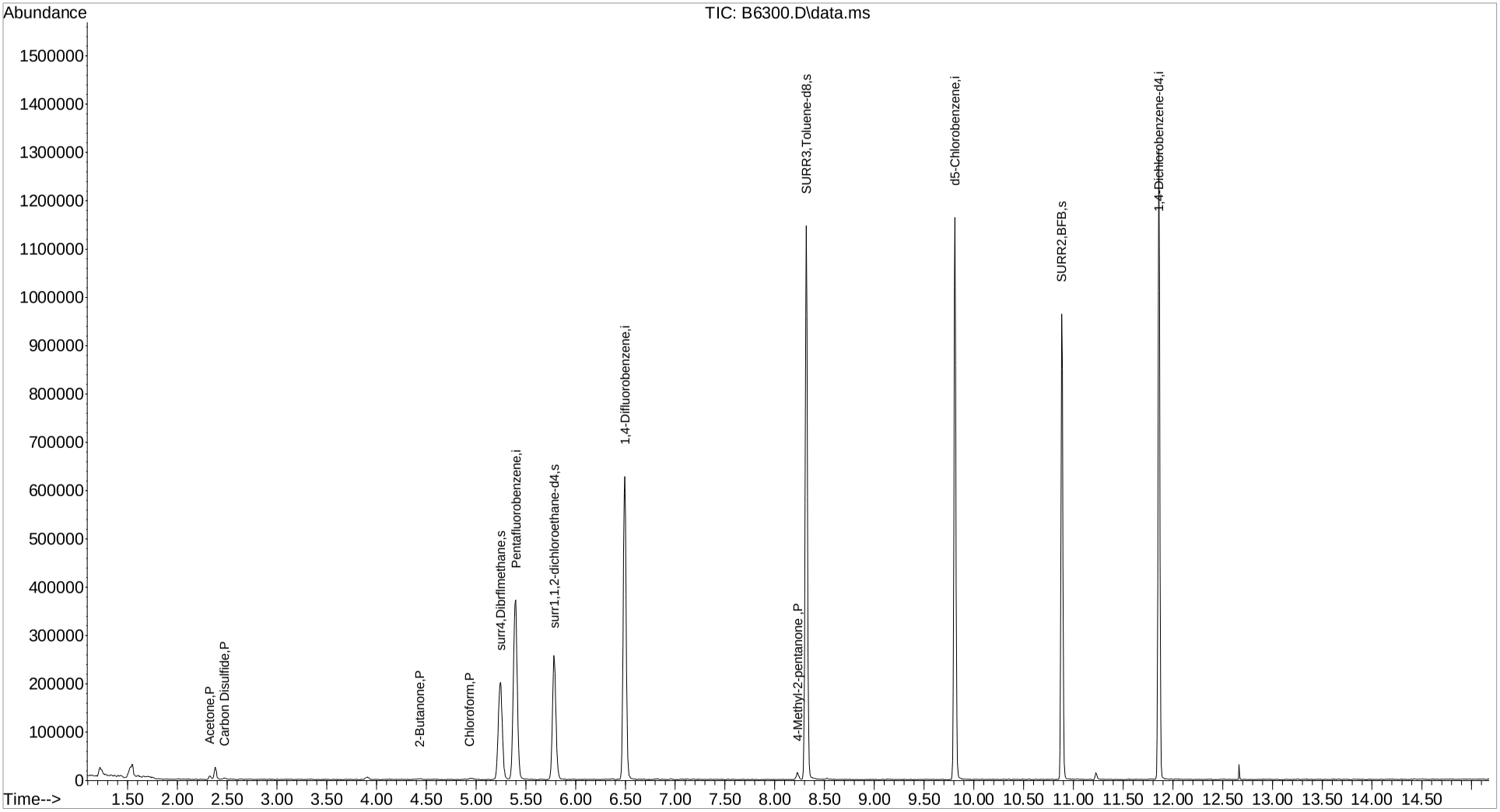
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.397 | 168 | 340808 | 50.00 | ug/L | 0.00 |
| 42) 1,4-Difluorobenzene | 6.494 | 114 | 536752 | 50.00 | ug/L | 0.00 |
| 71) d5-Chlorobenzene | 9.811 | 117 | 498155 | 50.00 | ug/L | 0.00 |
| 91) 1,4-Dichlorobenzene-d4 | 11.859 | 152 | 246022 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 44) surr4,Dibrflmethane | 5.245 | 113 | 168294 | 49.03 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 116 | | Recovery = 98.06% | | | |
| 47) surr1,1,2-dichloroetha... | 5.787 | 65 | 220391 | 50.01 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 73 - 125 | | Recovery = 100.02% | | | |
| 65) SURR3,Toluene-d8 | 8.317 | 98 | 649252 | 49.64 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 87 - 121 | | Recovery = 99.28% | | | |
| 70) SURR2,BFB | 10.884 | 95 | 231316 | 46.95 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 85 - 122 | | Recovery = 93.90% | | | |
| Target Compounds | | | | | | Qvalue |
| 16) Acetone | 2.324 | 43 | 9151 | 4.54 | ug/L | 85 |
| 19) Carbon Disulfide | 2.471 | 76 | 2263 | 0.26 | ug/L | 89 |
| 35) 2-Butanone | 4.434 | 43 | 3265 | 0.97 | ug/L | 68 |
| 40) Chloroform | 4.934 | 83 | 2093m | 0.33 | ug/L | |
| 64) 4-Methyl-2-pentanone | 8.232 | 43 | 10318 | 1.85 | ug/L | 81 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\092522\
Data File : B6300.D
Acq On : 26 Sep 2022 1:56 am
Operator : K.Ruest
Sample : R2208794-011|5.0 Inst : MSVOA10
Misc : VERINA 8260 4
ALS Vial : 46 Sample Multiplier: 1

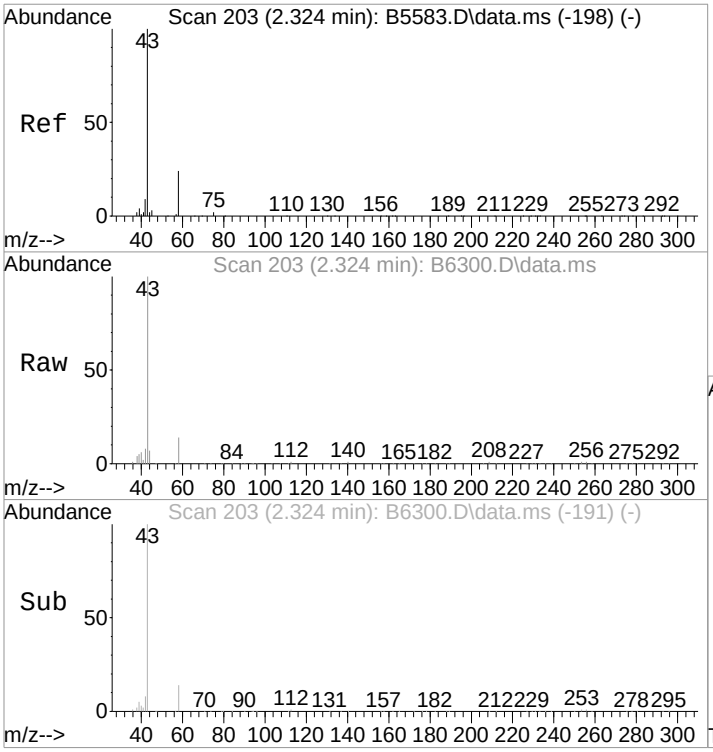
Quant Time: Sep 28 11:35:03 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Sep 08 14:38:30 2022
Response via : Initial Calibration







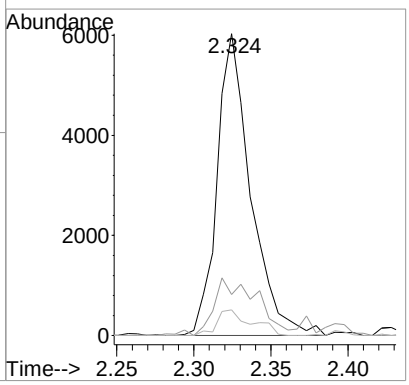

1st 09/28/22
2nd 09/28/22

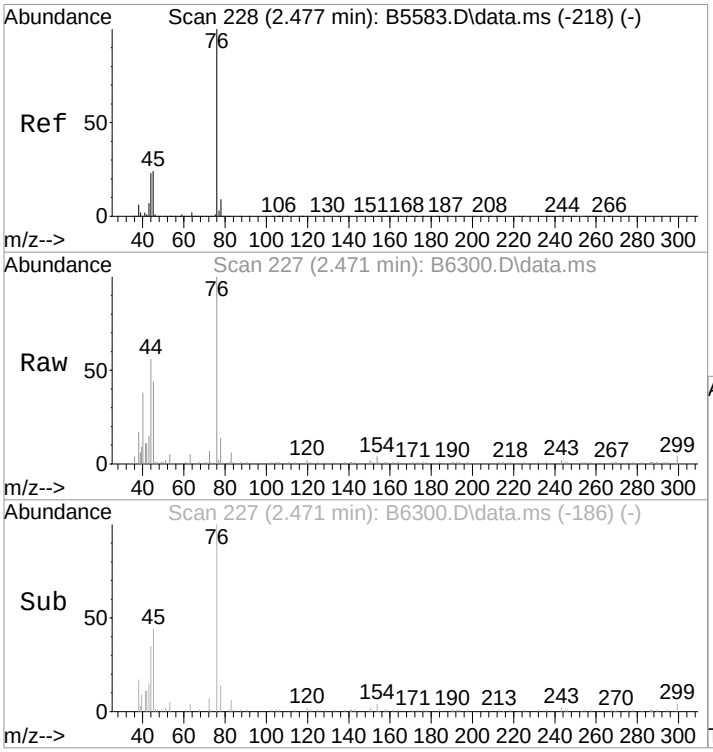



#16
Acetone
Concen: 4.54 ug/L
RT: 2.324 min Scan# 203
Delta R.T. -0.000 min
Lab File: B6300.D
Acq: 26 Sep 2022 1:56 am

Tgt Ion: 43 Resp: 9151

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 13.5 | 3.7 | 43.7 |
| 42 | 8.5 | 0.0 | 28.6 |

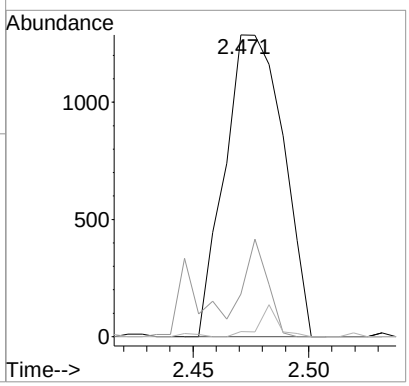


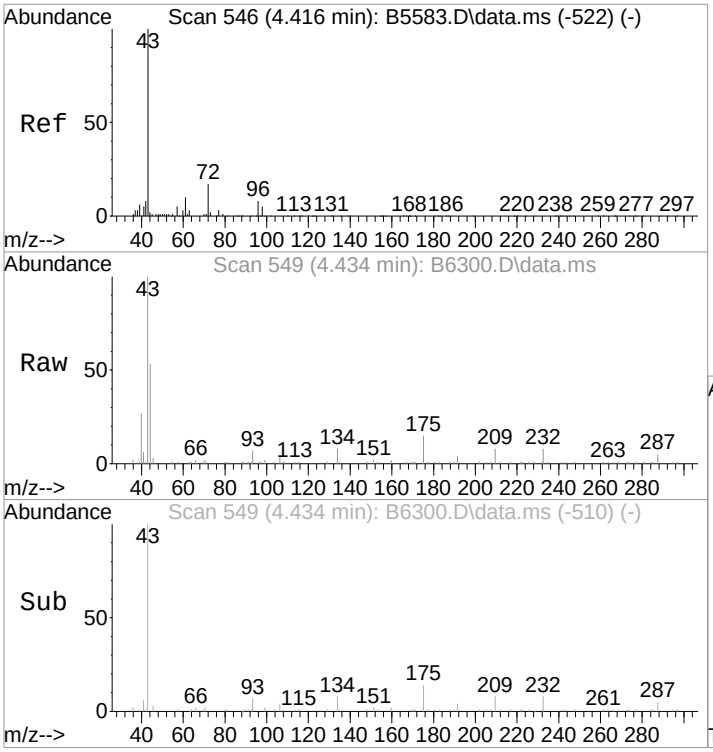




#19
Carbon Disulfide
Concen: 0.26 ug/L
RT: 2.471 min Scan# 227
Delta R.T. -0.006 min
Lab File: B6300.D
Acq: 26 Sep 2022 1:56 am

Tgt Ion: 76 Resp: 2263

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 14.1 | 0.0 | 29.3 |
| 77 | 1.7 | 0.0 | 22.6 |

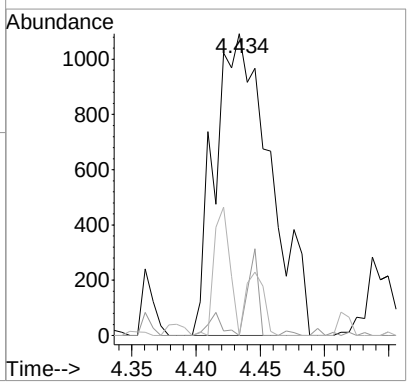


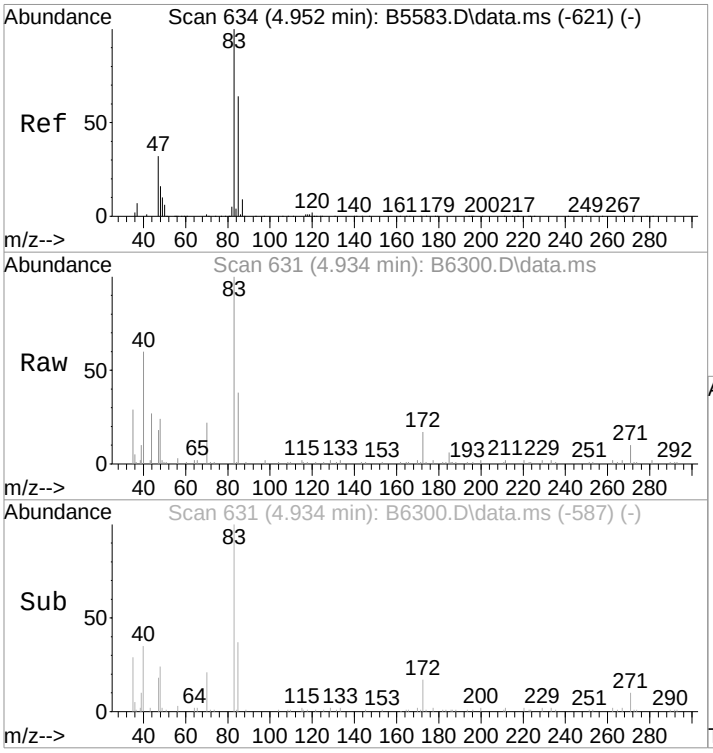



#35
2-Butanone
Concen: 0.97 ug/L
RT: 4.434 min Scan# 549
Delta R.T. 0.018 min
Lab File: B6300.D
Acq: 26 Sep 2022 1:56 am

Tgt Ion: 43 Resp: 3265

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 1.3 | 0.0 | 25.3 |
| 72 | 0.0 | 0.0 | 36.8 |

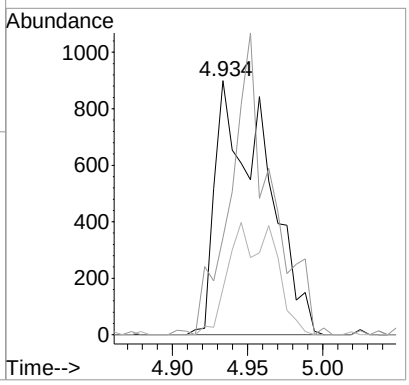


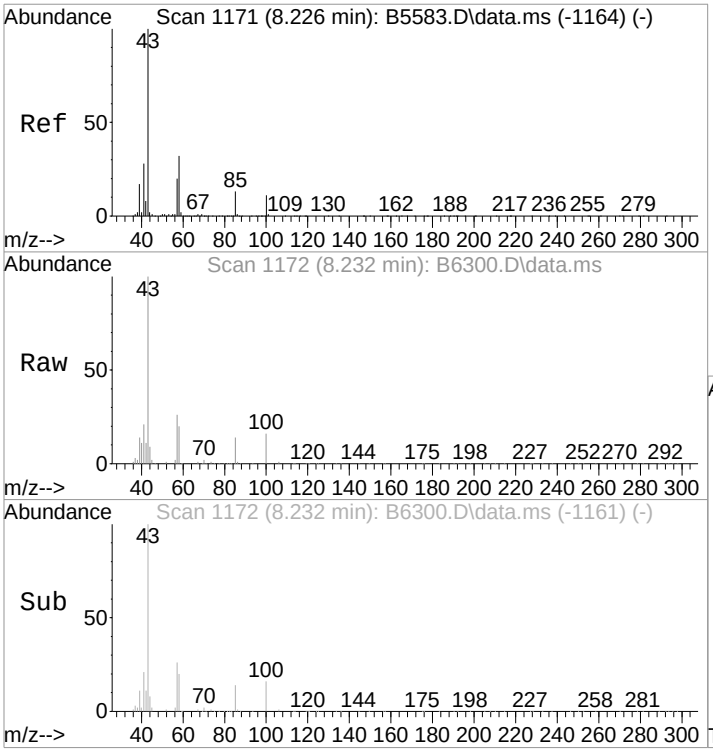




#40
Chloroform
Concen: 0.33 ug/L m
RT: 4.934 min Scan# 631
Delta R.T. -0.018 min
Lab File: B6300.D
Acq: 26 Sep 2022 1:56 am

Tgt Ion: 83 Resp: 2093

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 38.1 | 44.4 | 84.4# |
| 47 | 18.1 | 12.2 | 52.2 |

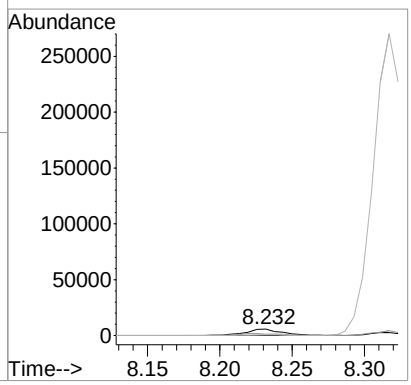





#64
4-Methyl-2-pentanone
Concen: 1.85 ug/L
RT: 8.232 min Scan# 1172
Delta R.T. 0.006 min
Lab File: B6300.D
Acq: 26 Sep 2022 1:56 am

Tgt Ion: 43 Resp: 10318

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 20.2 | 12.0 | 52.0 |
| 100 | 15.6 | 0.0 | 31.3 |



# Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\092522\
Data File : B6296.D
Acq On : 26 Sep 2022 12:29 am
Operator : K.Ruest
Sample : R2208794-012|1.0 Inst : MSVOA10
Misc : VERINA 8260 4
ALS Vial : 42 Sample Multiplier: 1

Quant Time: Sep 27 18:13:02 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Sep 08 14:38:30 2022
Response via : Initial Calibration

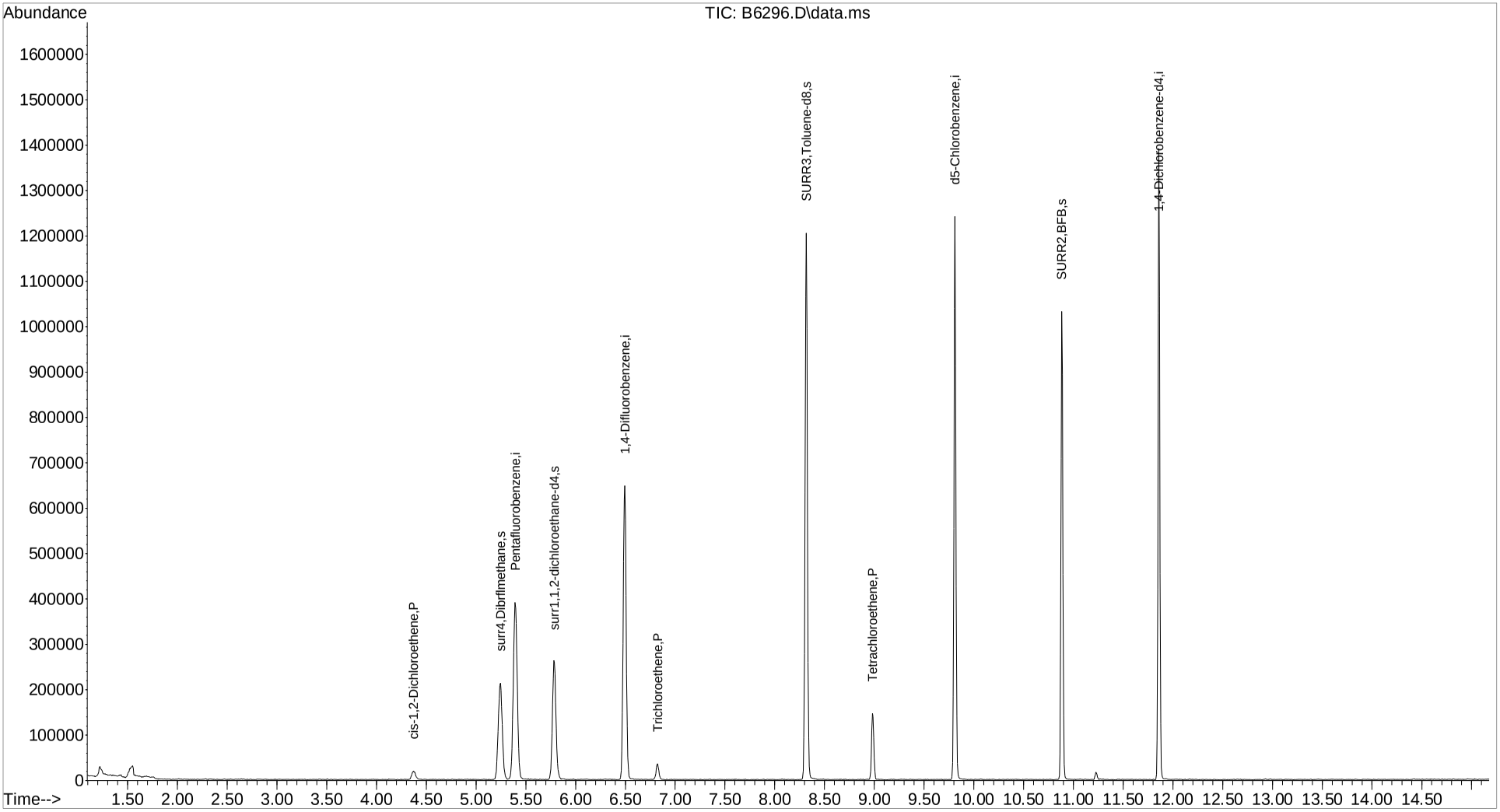
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.391 | 168 | 369514 | 50.00 | ug/L | 0.00 |
| 42) 1,4-Difluorobenzene | 6.494 | 114 | 562354 | 50.00 | ug/L | 0.00 |
| 71) d5-Chlorobenzene | 9.811 | 117 | 516473 | 50.00 | ug/L | 0.00 |
| 91) 1,4-Dichlorobenzene-d4 | 11.859 | 152 | 258128 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 44) surr4,Dibrflmethane | 5.245 | 113 | 180751 | 50.26 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 116 | | Recovery = 100.52% | | | |
| 47) surr1,1,2-dichloroetha... | 5.787 | 65 | 226164 | 48.98 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 73 - 125 | | Recovery = 97.96% | | | |
| 65) SURR3,Toluene-d8 | 8.317 | 98 | 685834 | 50.05 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 87 - 121 | | Recovery = 100.10% | | | |
| 70) SURR2,BFB | 10.884 | 95 | 242932 | 47.07 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 85 - 122 | | Recovery = 94.14% | | | |
| Target Compounds | | | | | | Qvalue |
| 34) cis-1,2-Dichloroethene | 4.373 | 96 | 10665 | 2.53 | ug/L | 92 |
| 54) Trichloroethene | 6.824 | 130 | 12289 | 3.49 | ug/L # | 84 |
| 72) Tetrachloroethene | 8.982 | 164 | 28483 | 10.97 | ug/L | 93 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\092522\
Data File : B6296.D
Acq On : 26 Sep 2022 12:29 am
Operator : K.Ruest
Sample : R2208794-012|1.0 Inst : MSVOA10
Misc : VERINA 8260 4
ALS Vial : 42 Sample Multiplier: 1

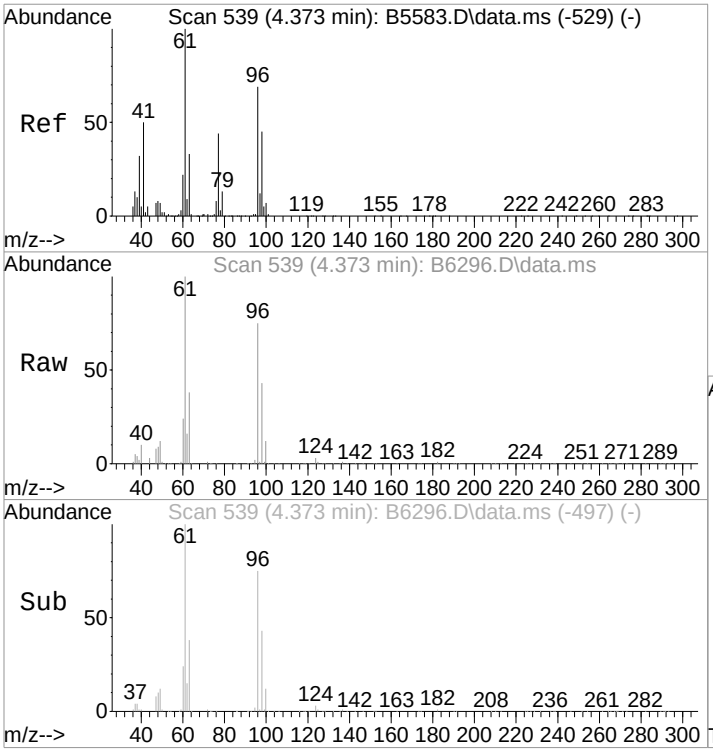
Quant Time: Sep 27 18:13:02 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Sep 08 14:38:30 2022
Response via : Initial Calibration







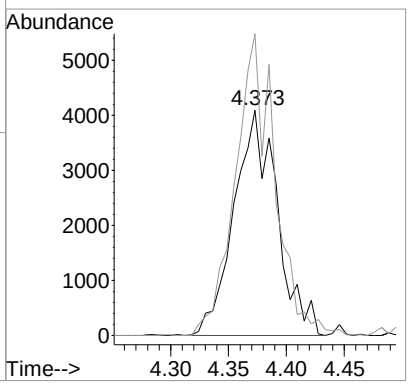

1st 09/27/22
2nd 09/28/22

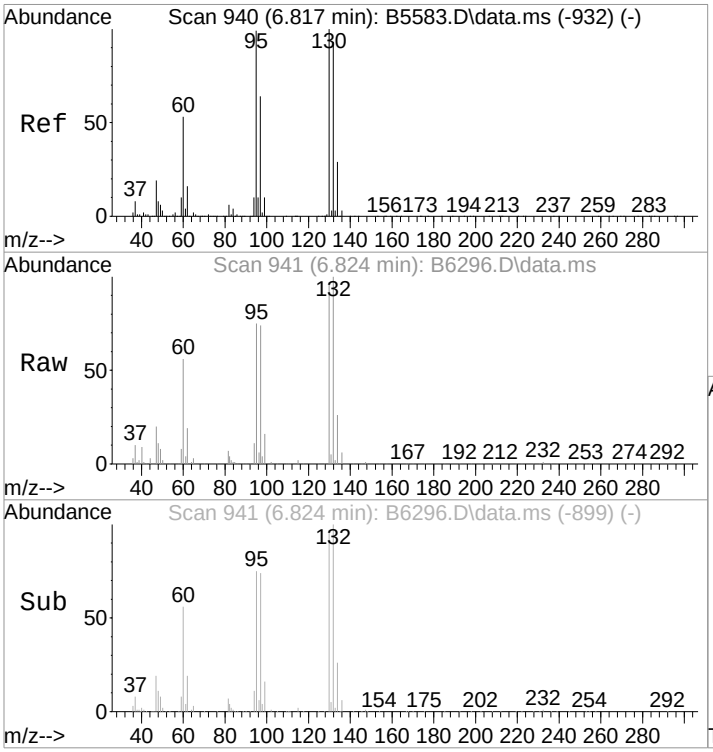



#34
cis-1,2-Dichloroethene
Concen: 2.53 ug/L
RT: 4.373 min Scan# 539
Delta R.T. 0.000 min
Lab File: B6296.D
Acq: 26 Sep 2022 12:29 am

Tgt Ion: 96 Resp: 10665

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 133.9 | 124.4 | 164.4 |

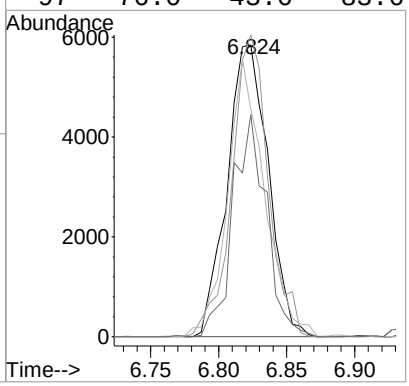


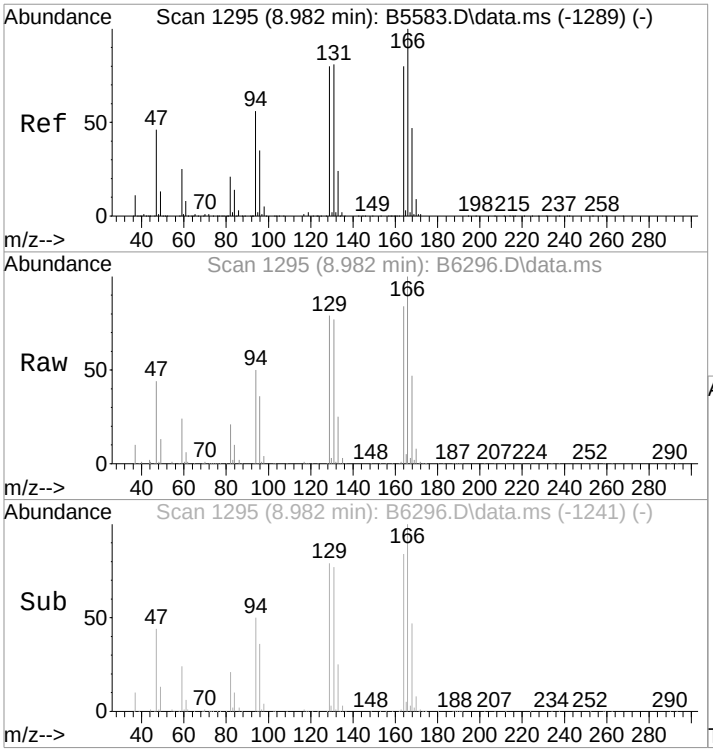




#54
Trichloroethene
Concen: 3.49 ug/L
RT: 6.824 min Scan# 941
Delta R.T. 0.006 min
Lab File: B6296.D
Acq: 26 Sep 2022 12:29 am

Tgt Ion:130 Resp: 12289

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 132 | 103.4 | 73.4 | 113.4 |
| 95 | 77.9 | 78.6 | 118.6# |
| 97 | 76.0 | 43.6 | 83.6 |

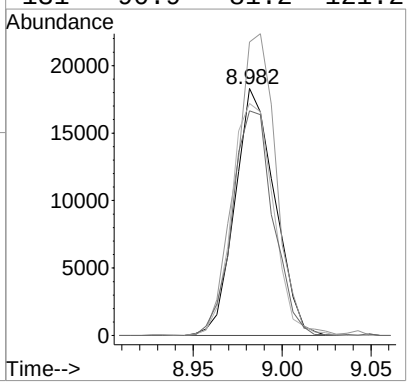





#72
Tetrachloroethene
Concen: 10.97 ug/L
RT: 8.982 min Scan# 1295
Delta R.T. 0.000 min
Lab File: B6296.D
Acq: 26 Sep 2022 12:29 am

Tgt Ion:164 Resp: 28483

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 118.8 | 105.4 | 145.4 |
| 129 | 93.8 | 80.2 | 120.2 |
| 131 | 90.9 | 81.2 | 121.2 |



# Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\092522\
Data File : B6297.D
Acq On : 26 Sep 2022 12:51 am
Operator : K.Ruest
Sample : R2208794-013|1.0 Inst : MSVOA10
Misc : VERINA 8260 4
ALS Vial : 43 Sample Multiplier: 1

Quant Time: Sep 27 18:14:59 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Sep 08 14:38:30 2022
Response via : Initial Calibration

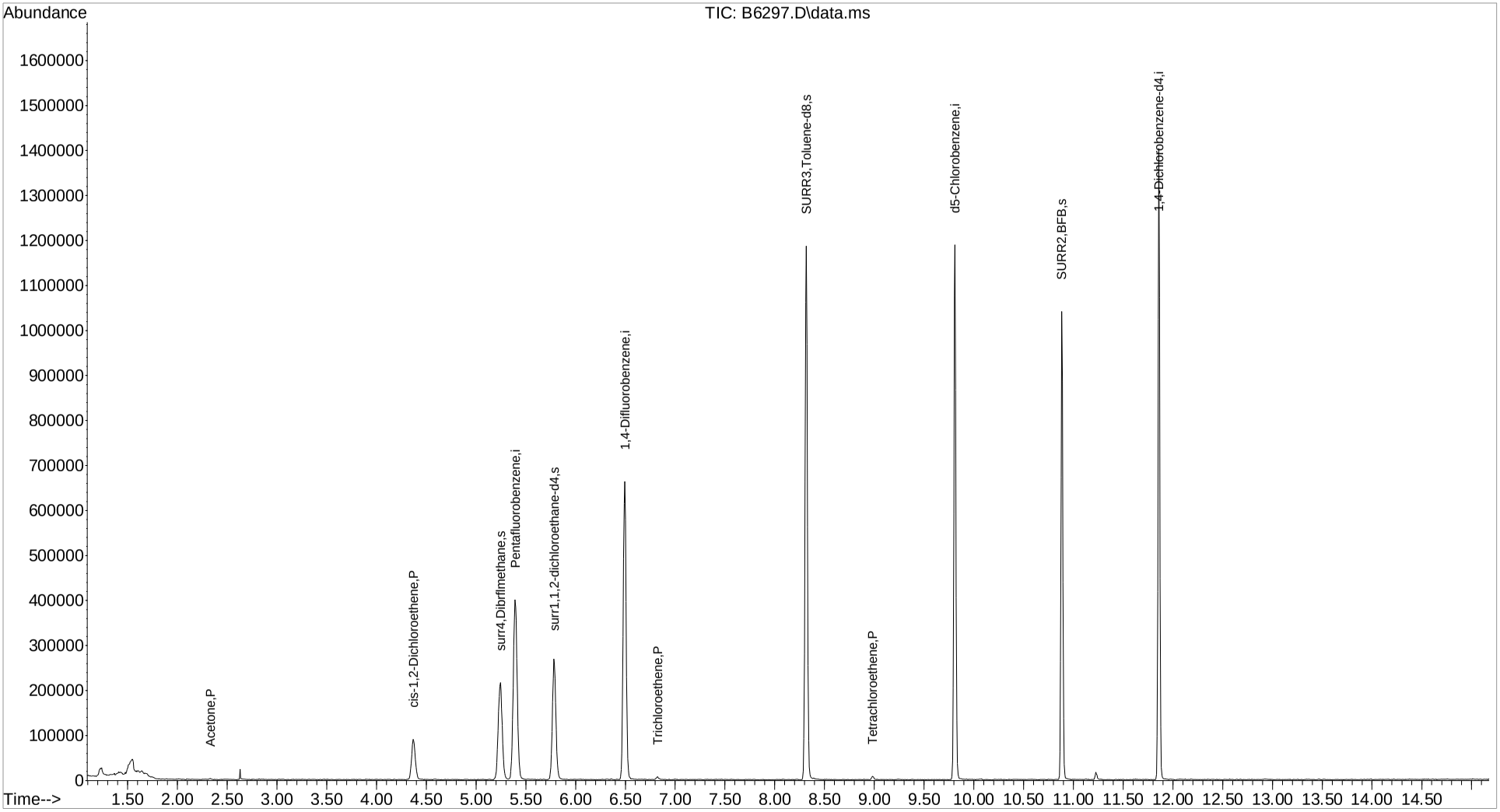
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.391 | 168 | 370369 | 50.00 | ug/L | 0.00 |
| 42) 1,4-Difluorobenzene | 6.494 | 114 | 566933 | 50.00 | ug/L | 0.00 |
| 71) d5-Chlorobenzene | 9.811 | 117 | 506569 | 50.00 | ug/L | 0.00 |
| 91) 1,4-Dichlorobenzene-d4 | 11.859 | 152 | 255007 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 44) surr4,Dibrflmethane | 5.245 | 113 | 173806 | 47.94 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 116 | | Recovery = 95.88% | | | |
| 47) surr1,1,2-dichloroetha... | 5.787 | 65 | 222388 | 47.77 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 73 - 125 | | Recovery = 95.54% | | | |
| 65) SURR3,Toluene-d8 | 8.317 | 98 | 682021 | 49.37 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 87 - 121 | | Recovery = 98.74% | | | |
| 70) SURR2,BFB | 10.884 | 95 | 241716 | 46.45 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 85 - 122 | | Recovery = 92.90% | | | |
| Target Compounds | | | | | | Qvalue |
| 16) Acetone | 2.331 | 43 | 2026 | 0.93 | ug/L | 88 |
| 34) cis-1,2-Dichloroethene | 4.367 | 96 | 50103 | 11.87 | ug/L | 89 |
| 54) Trichloroethene | 6.824 | 130 | 2087 | 0.59 | ug/L # | 72 |
| 72) Tetrachloroethene | 8.982 | 164 | 1666 | 0.65 | ug/L # | 51 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\092522\
Data File : B6297.D
Acq On : 26 Sep 2022 12:51 am
Operator : K.Ruest
Sample : R2208794-013|1.0 Inst : MSVOA10
Misc : VERINA 8260 4
ALS Vial : 43 Sample Multiplier: 1

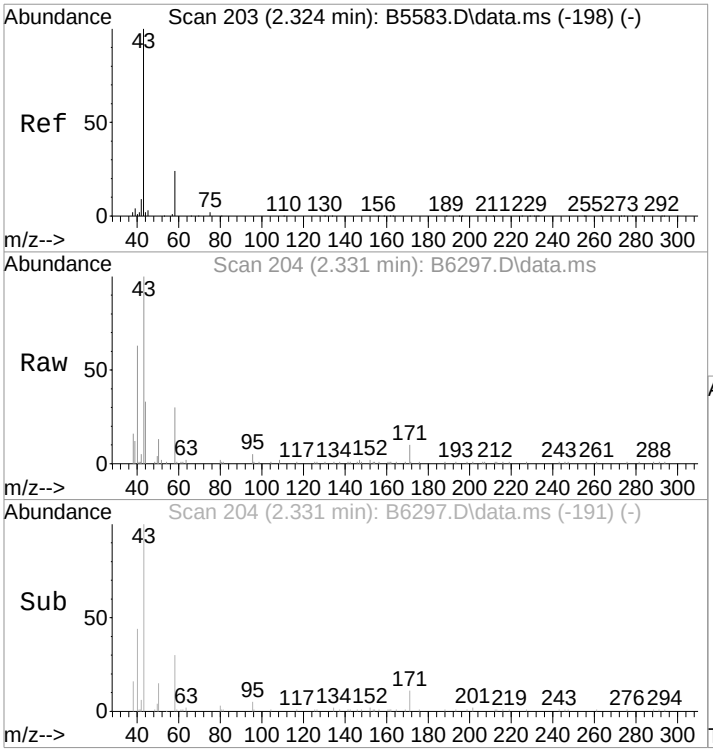
Quant Time: Sep 27 18:14:59 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Sep 08 14:38:30 2022
Response via : Initial Calibration







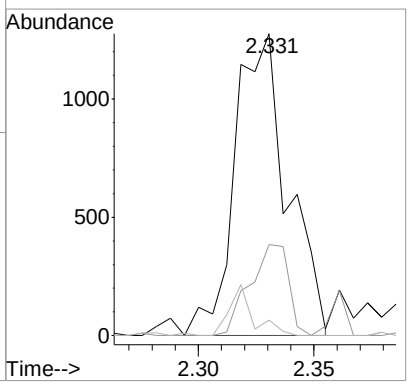

1st 09/27/22
2nd 09/28/22

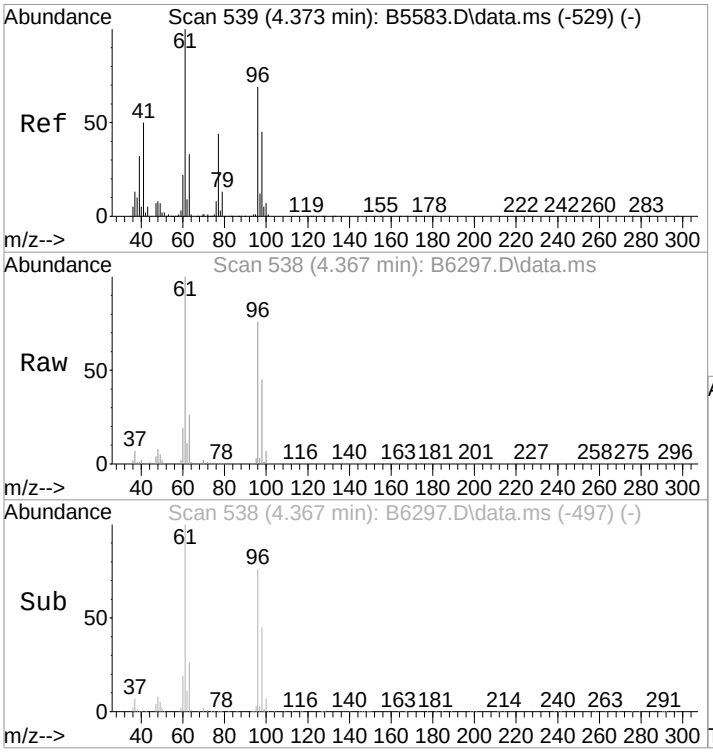



#16
Acetone
Concen: 0.93 ug/L
RT: 2.331 min Scan# 204
Delta R.T. 0.006 min
Lab File: B6297.D
Acq: 26 Sep 2022 12:51 am

Tgt Ion: 43 Resp: 2026

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 30.2 | 3.7 | 43.7 |
| 42 | 5.2 | 0.0 | 28.6 |

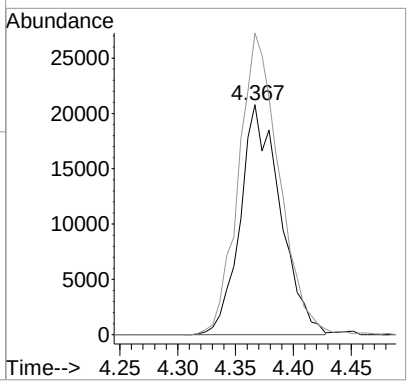


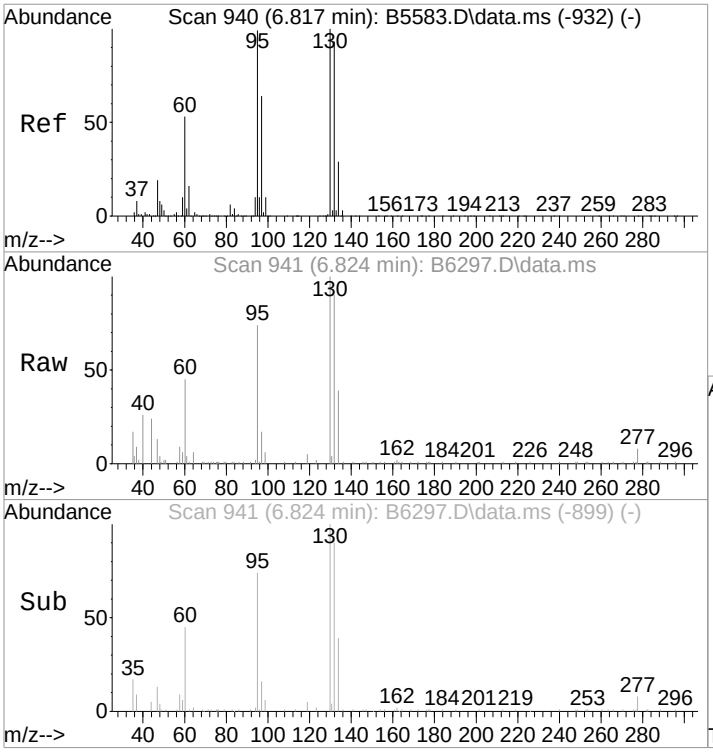




#34
cis-1,2-Dichloroethene
Concen: 11.87 ug/L
RT: 4.367 min Scan# 538
Delta R.T. -0.006 min
Lab File: B6297.D
Acq: 26 Sep 2022 12:51 am

Tgt Ion: 96 Resp: 50103

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 131.3 | 124.4 | 164.4 |

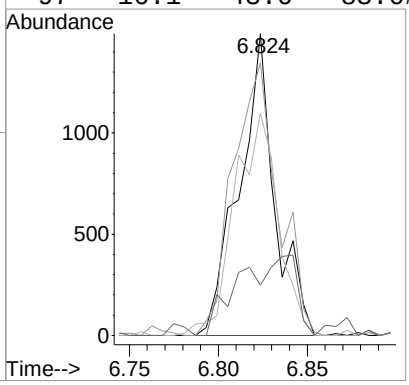


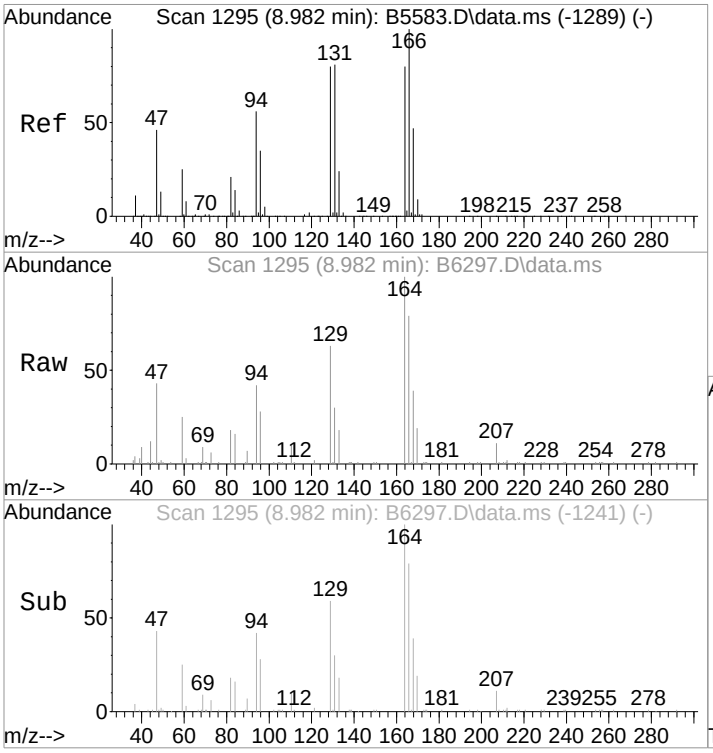



#54
Trichloroethene
Concen: 0.59 ug/L
RT: 6.824 min Scan# 941
Delta R.T. 0.006 min
Lab File: B6297.D
Acq: 26 Sep 2022 12:51 am

Tgt Ion:130 Resp: 2087

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 132 | 87.2 | 73.4 | 113.4 |
| 95 | 71.1 | 78.6 | 118.6# |
| 97 | 16.1 | 43.6 | 83.6# |

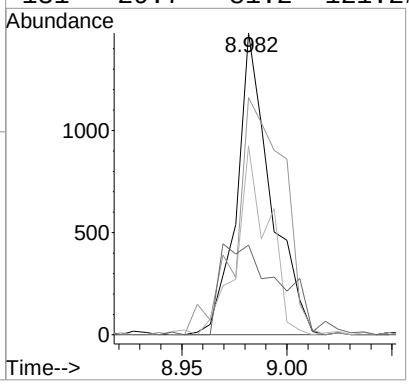



#72
Tetrachloroethene
Concen: 0.65 ug/L
RT: 8.982 min Scan# 1295
Delta R.T. 0.000 min
Lab File: B6297.D
Acq: 26 Sep 2022 12:51 am

Tgt Ion:164 Resp: 1666

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 78.6 | 105.4 | 145.4# |
| 129 | 62.6 | 80.2 | 120.2# |
| 131 | 29.7 | 81.2 | 121.2# |



# Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\092522\
Data File : B6298.D
Acq On : 26 Sep 2022 1:13 am
Operator : K.Ruest
Sample : R2208794-014|1.0 Inst : MSVOA10
Misc : VERINA 8260 4
ALS Vial : 44 Sample Multiplier: 1

Quant Time: Sep 28 11:25:20 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Sep 08 14:38:30 2022
Response via : Initial Calibration

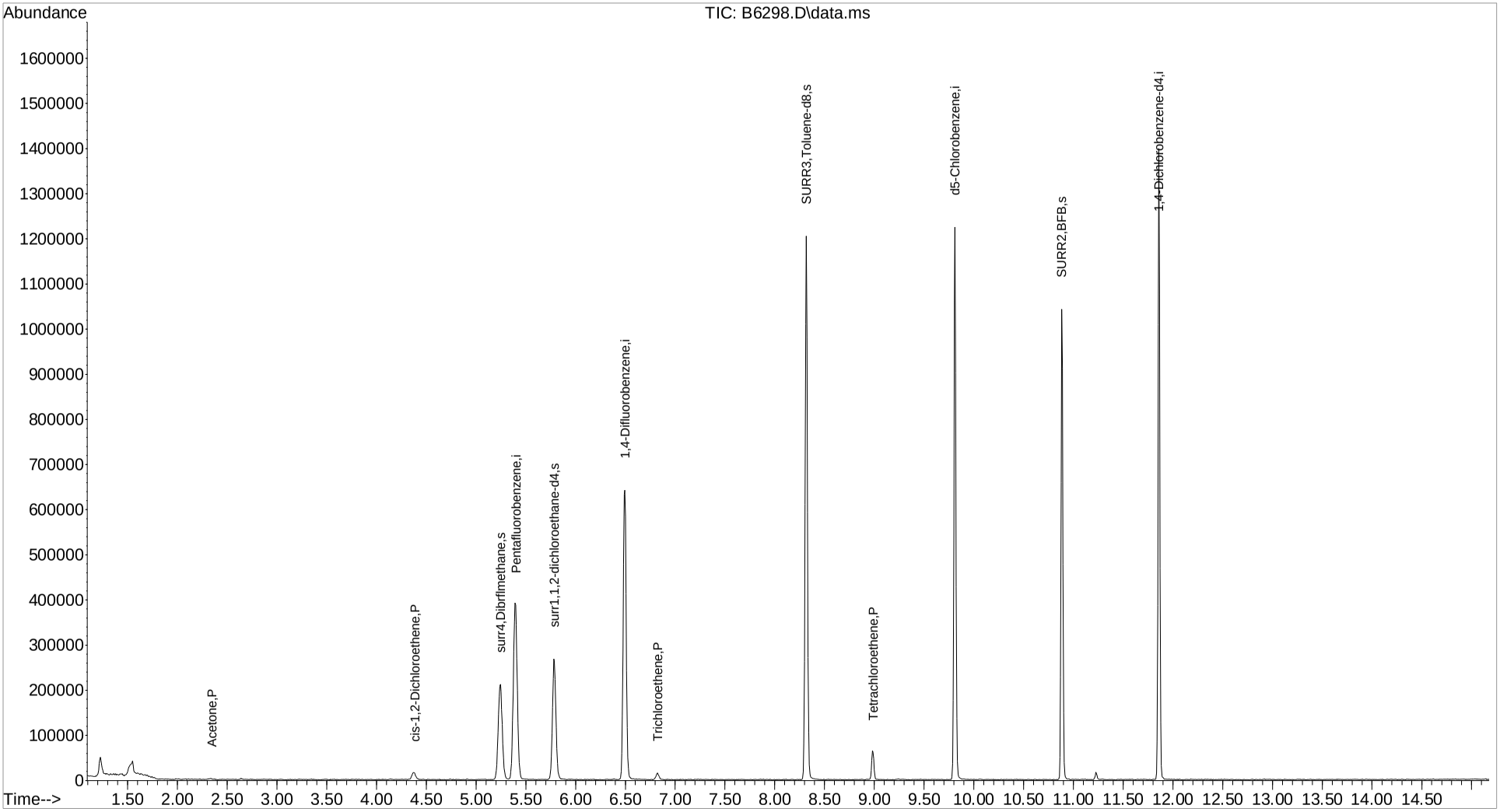
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.397 | 168 | 360582 | 50.00 | ug/L | 0.00 |
| 42) 1,4-Difluorobenzene | 6.494 | 114 | 567641 | 50.00 | ug/L | 0.00 |
| 71) d5-Chlorobenzene | 9.811 | 117 | 513533 | 50.00 | ug/L | 0.00 |
| 91) 1,4-Dichlorobenzene-d4 | 11.859 | 152 | 255647 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 44) surr4,Dibrflmethane | 5.245 | 113 | 177369 | 48.86 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 116 | | Recovery = 97.72% | | | |
| 47) surr1,1,2-dichloroetha... | 5.781 | 65 | 229357 | 49.21 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 73 - 125 | | Recovery = 98.42% | | | |
| 65) SURR3,Toluene-d8 | 8.317 | 98 | 682046 | 49.31 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 87 - 121 | | Recovery = 98.62% | | | |
| 70) SURR2,BFB | 10.884 | 95 | 243333 | 46.71 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 85 - 122 | | Recovery = 93.42% | | | |
| Target Compounds | | | | | | Qvalue |
| 16) Acetone | 2.343 | 43 | 2235 | 1.05 | ug/L | 98 |
| 34) cis-1,2-Dichloroethene | 4.385 | 96 | 8337 | 2.03 | ug/L | 85 |
| 54) Trichloroethene | 6.824 | 130 | 5356 | 1.51 | ug/L # | 81 |
| 72) Tetrachloroethene | 8.988 | 164 | 12347 | 4.78 | ug/L | 90 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\092522\
Data File : B6298.D
Acq On : 26 Sep 2022 1:13 am
Operator : K.Ruest
Sample : R2208794-014|1.0 Inst : MSVOA10
Misc : VERINA 8260 4
ALS Vial : 44 Sample Multiplier: 1

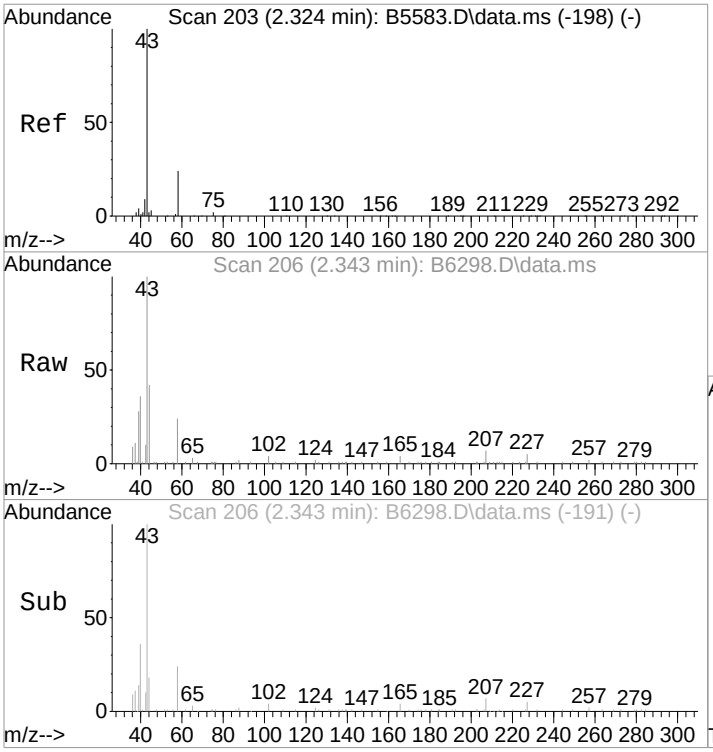
Quant Time: Sep 28 11:25:20 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Sep 08 14:38:30 2022
Response via : Initial Calibration







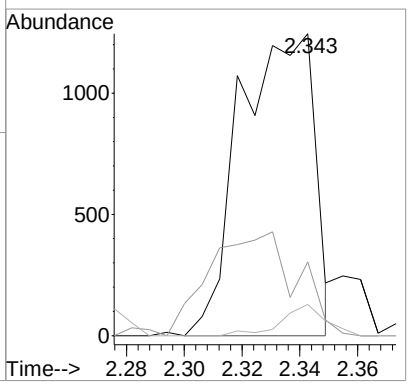

1st 09/28/22
2nd 09/28/22

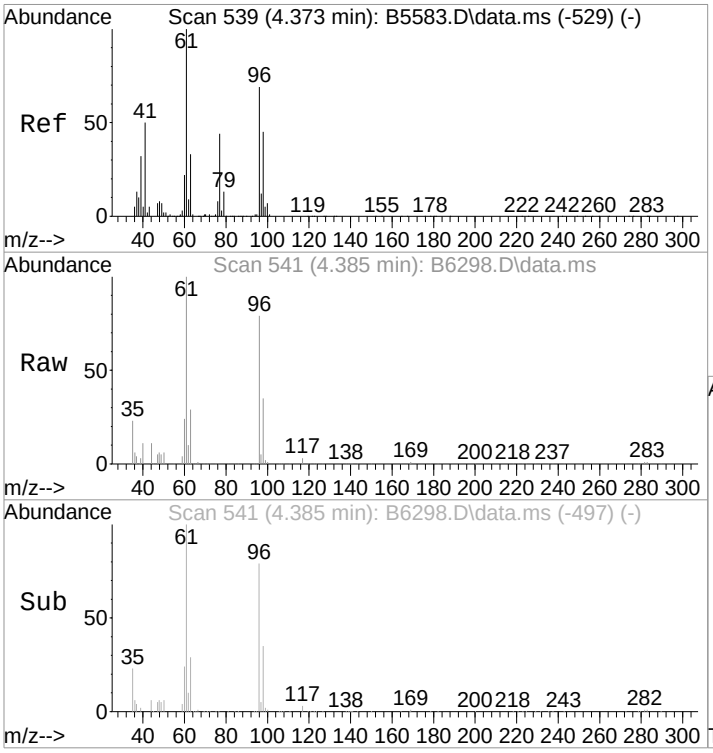



#16
Acetone
Concen: 1.05 ug/L
RT: 2.343 min Scan# 206
Delta R.T. 0.018 min
Lab File: B6298.D
Acq: 26 Sep 2022 1:13 am

Tgt Ion: 43 Resp: 2235

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 24.4 | 3.7 | 43.7 |
| 42 | 10.4 | 0.0 | 28.6 |

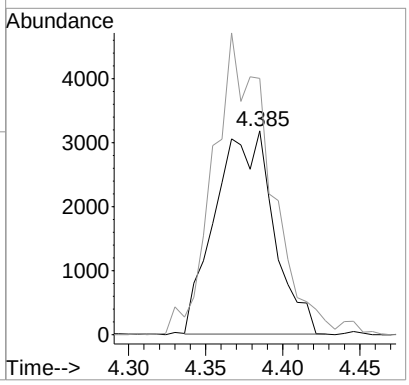


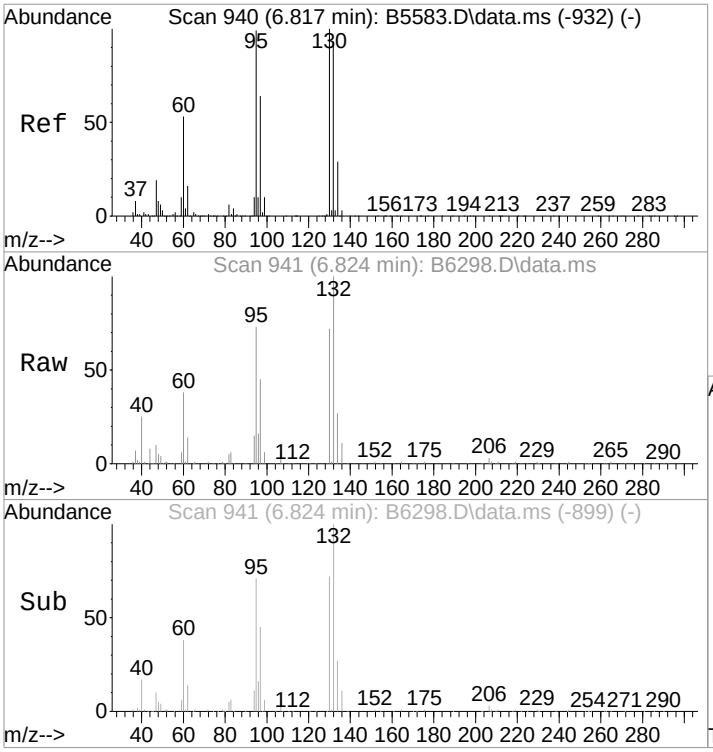




#34
cis-1,2-Dichloroethene
Concen: 2.03 ug/L
RT: 4.385 min Scan# 541
Delta R.T. 0.012 min
Lab File: B6298.D
Acq: 26 Sep 2022 1:13 am

Tgt Ion: 96 Resp: 8337

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 125.8 | 124.4 | 164.4 |

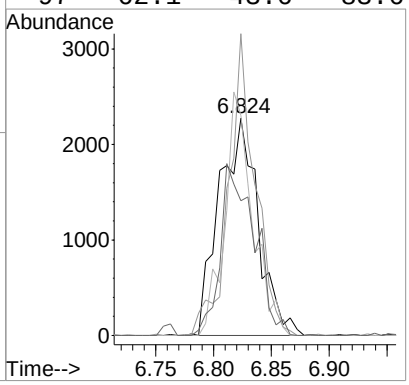


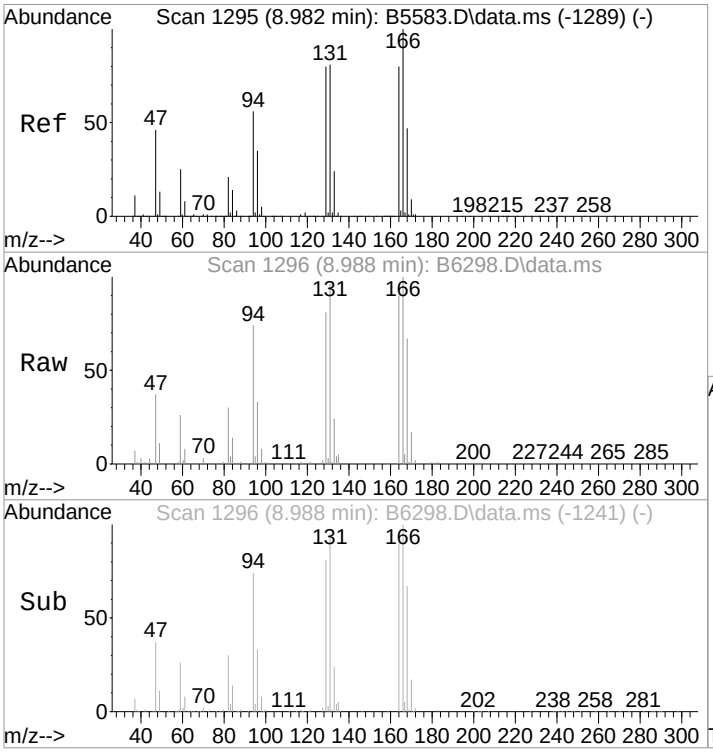



#54
Trichloroethene
Concen: 1.51 ug/L
RT: 6.824 min Scan# 941
Delta R.T. 0.006 min
Lab File: B6298.D
Acq: 26 Sep 2022 1:13 am

Tgt Ion:130 Resp: 5356

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 132 | 138.9 | 73.4 | 113.4# |
| 95 | 101.3 | 78.6 | 118.6 |
| 97 | 62.1 | 43.6 | 83.6 |

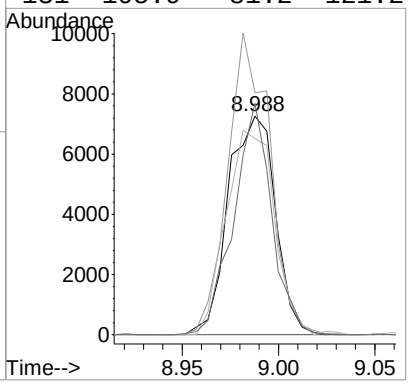



#72
Tetrachloroethene
Concen: 4.78 ug/L
RT: 8.988 min Scan# 1296
Delta R.T. 0.006 min
Lab File: B6298.D
Acq: 26 Sep 2022 1:13 am

Tgt Ion:164 Resp: 12347

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 110.8 | 105.4 | 145.4 |
| 129 | 89.8 | 80.2 | 120.2 |
| 131 | 105.9 | 81.2 | 121.2 |

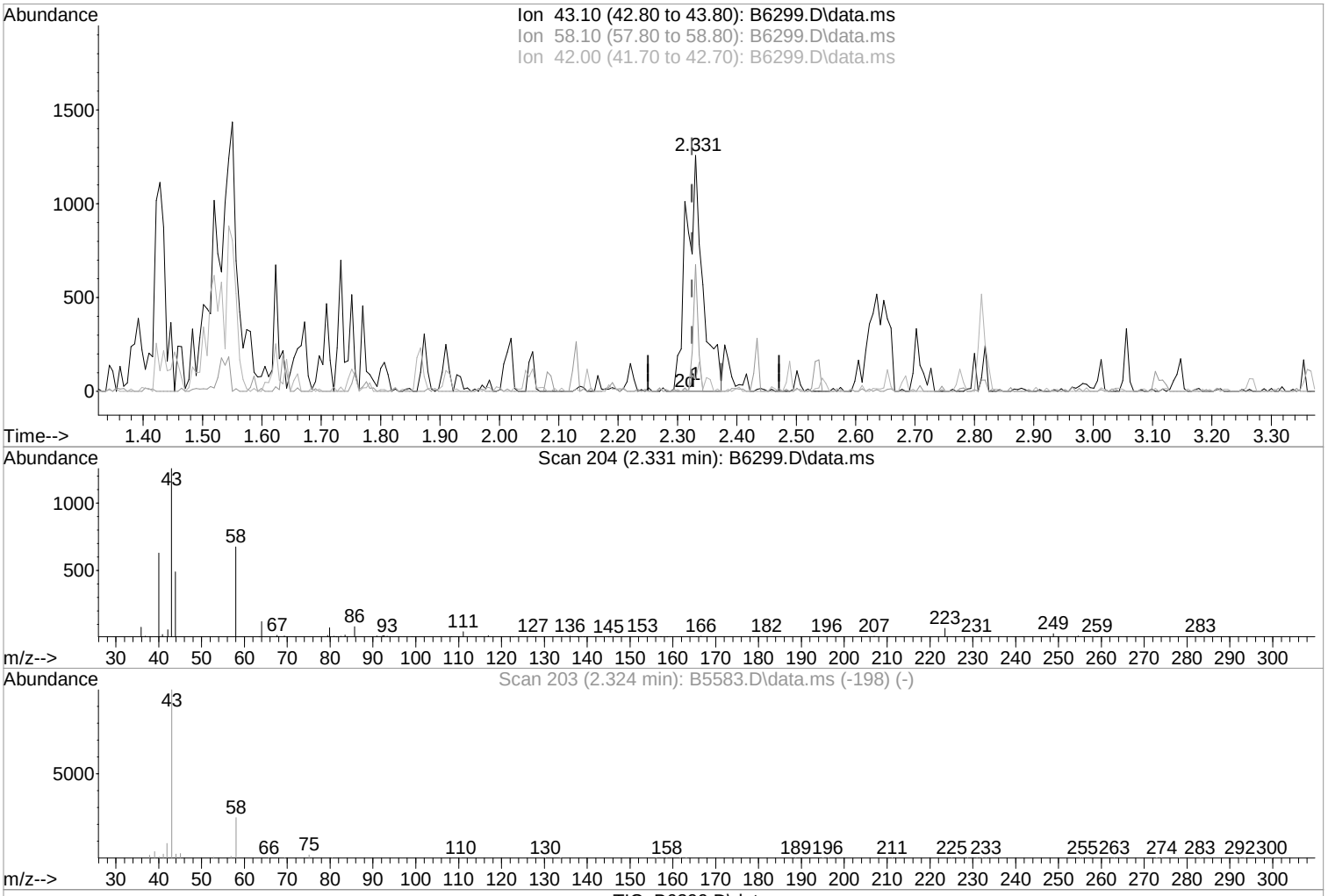


1st 09/28/22
2nd 09/28/22

# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\092522\
Data File : B6299.D
Acq On : 26 Sep 2022 1:35 am
Operator : K.Ruest
Sample : R2208794-015|1.0 Inst : MSVOA10
Misc : VERINA 8260 4
ALS Vial : 45 Sample Multiplier: 1

Quant Time: Sep 26 09:10:22 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Sep 08 14:38:30 2022
Response via : Initial Calibration




TIC: B6299.D\data.ms

(16) Acetone (P)

2.331min (+0.006) 1.12 ug/L m

response 2442

| Ion | Exp% | Act% |
|---|---|---|
| 43.10 | 100 | 100 |
| 58.10 | 23.70 | 53.74# |
| 42.00 | 8.60 | 4.93 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

After

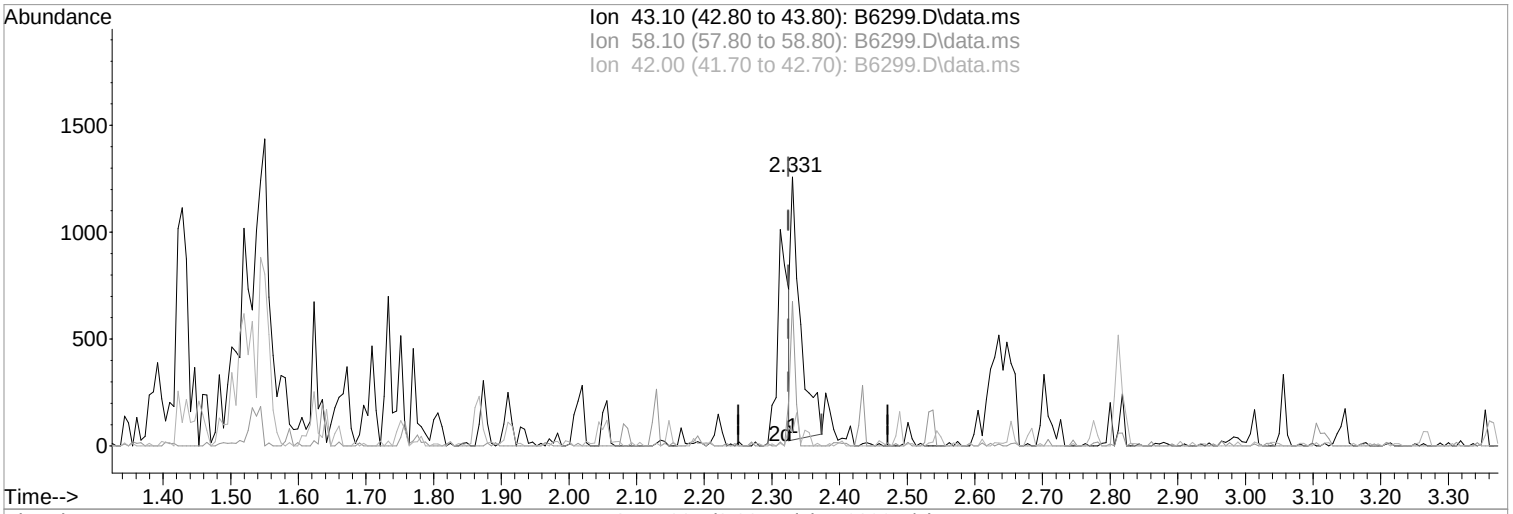
Poor integration.

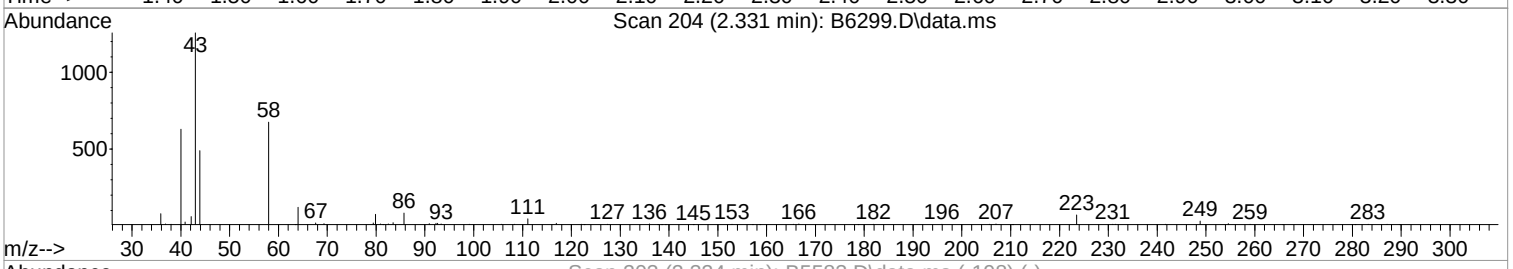
09/28/22

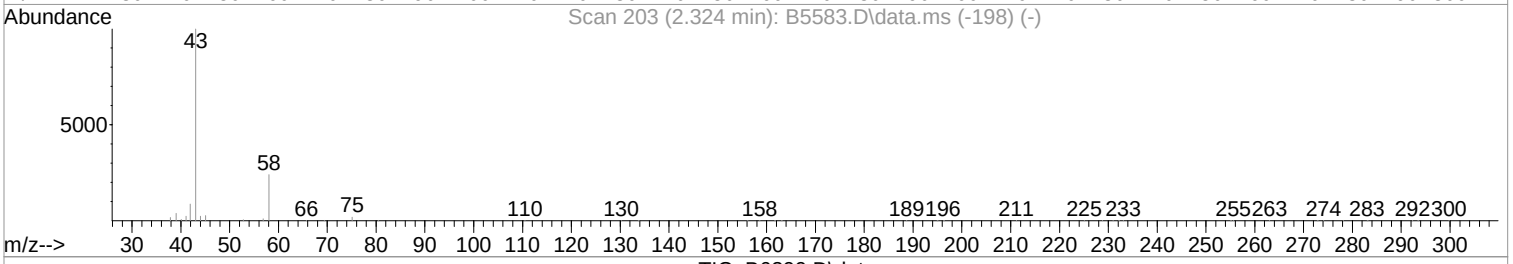
# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\092522\
Data File : B6299.D
Acq On : 26 Sep 2022 1:35 am
Operator : K.Ruest
Sample : R2208794-015|1.0 Inst : MSVOA10
Misc : VERINA 8260 4
ALS Vial : 45 Sample Multiplier: 1

Quant Time: Sep 26 09:10:22 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Sep 08 14:38:30 2022
Response via : Initial Calibration




TIC: B6299.D\data.ms

(16) Acetone (P)

2.331min (+0.006) 0.56 ug/L

response 1221

| Ion | Exp% | Act% |
|---|---|---|
| 43.10 | 100 | 100 |
| 58.10 | 23.70 | 53.74# |
| 42.00 | 8.60 | 4.93 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

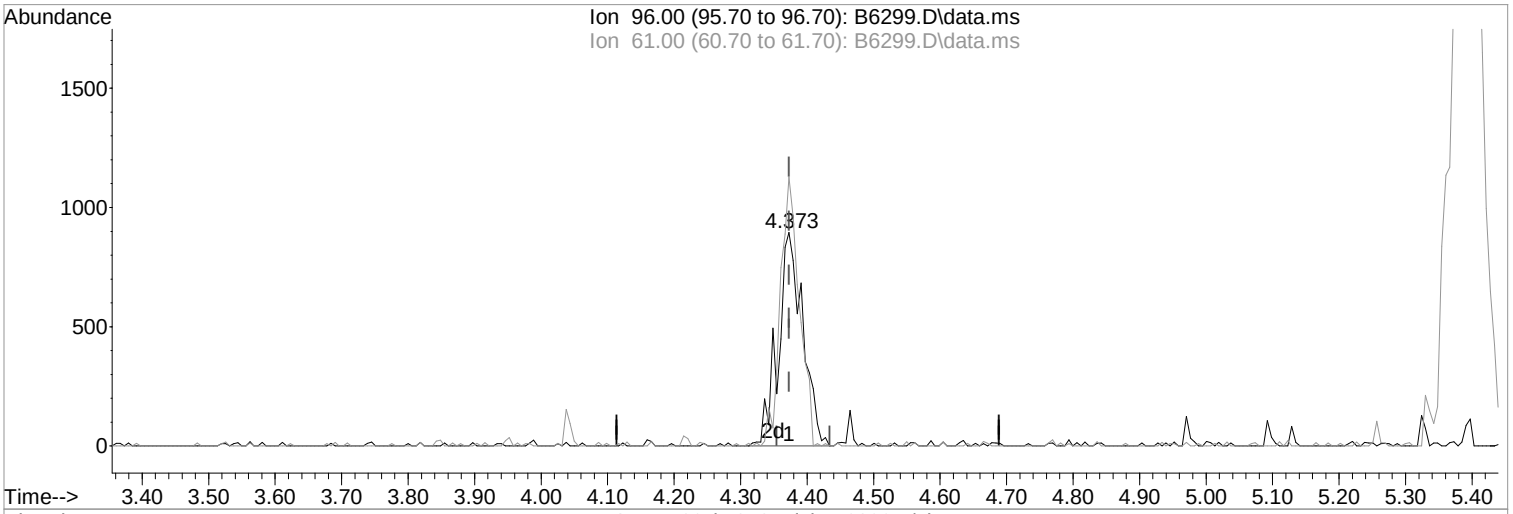
Before

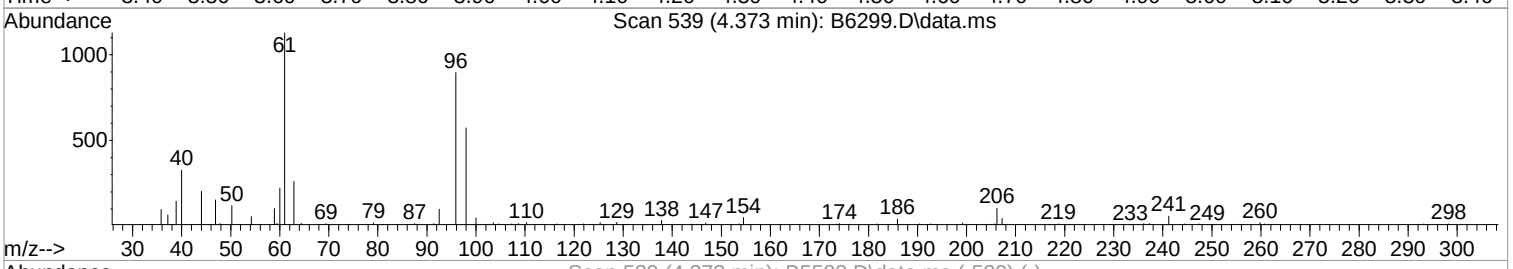
09/28/22

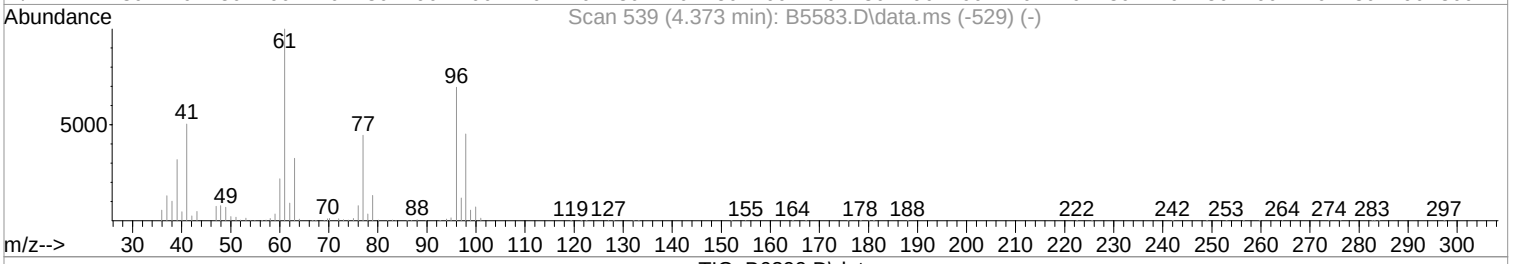
# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\092522\
Data File : B6299.D
Acq On : 26 Sep 2022 1:35 am
Operator : K.Ruest
Sample : R2208794-015|1.0 Inst : MSVOA10
Misc : VERINA 8260 4
ALS Vial : 45 Sample Multiplier: 1

Quant Time: Sep 26 09:10:22 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Sep 08 14:38:30 2022
Response via : Initial Calibration




TIC: B6299.D\data.ms

(34) cis-1,2-Dichloroethene (P)

4.373min (0.000) 0.55 ug/L m

response 2300

| Ion | Exp% | Act% |
|---|---|---|
| 96.00 | 100 | 100 |
| 61.00 | 144.40 | 126.03 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

After

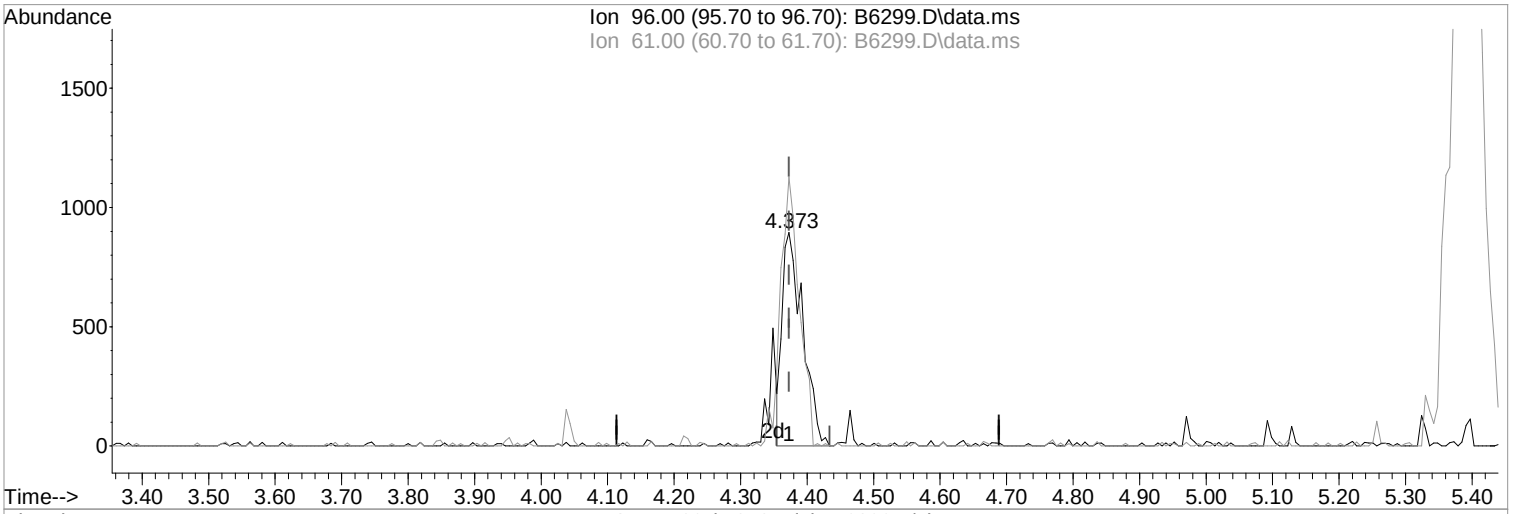
Split Peak

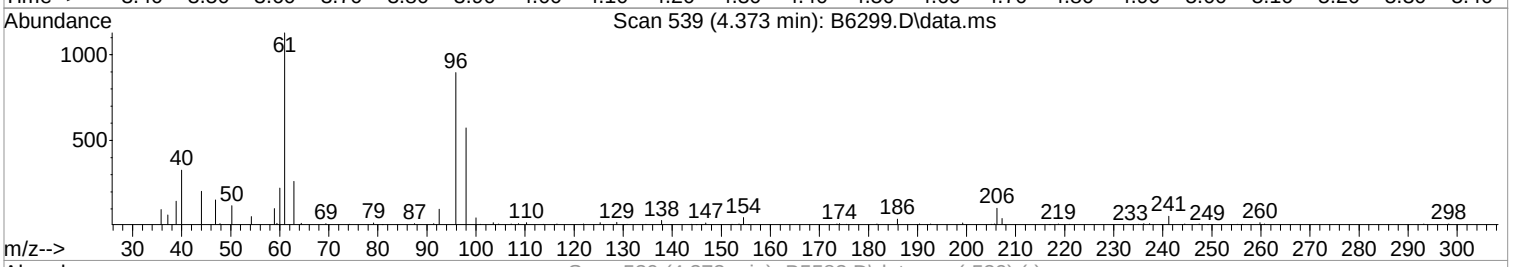
09/28/22

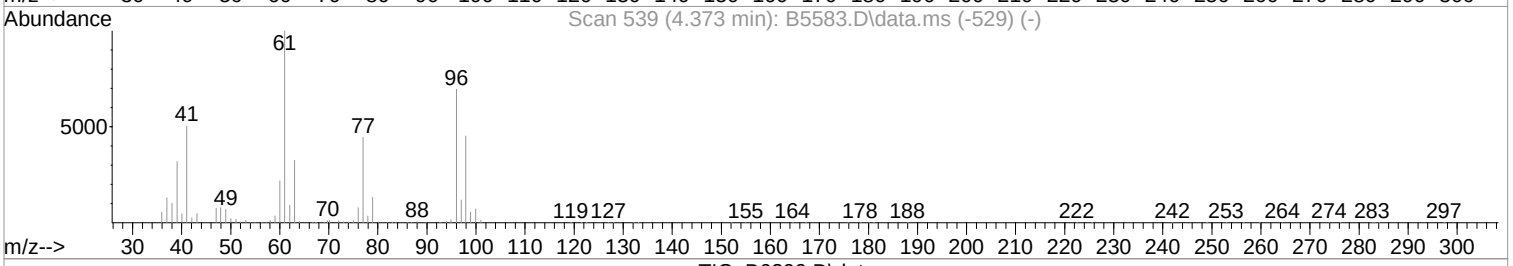
# Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\092522\
Data File : B6299.D
Acq On : 26 Sep 2022 1:35 am
Operator : K.Ruest
Sample : R2208794-015|1.0 Inst : MSVOA10
Misc : VERINA 8260 4
ALS Vial : 45 Sample Multiplier: 1

Quant Time: Sep 26 09:10:22 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Sep 08 14:38:30 2022
Response via : Initial Calibration




TIC: B6299.D\data.ms

(34) cis-1,2-Dichloroethene (P)

4.373min (0.000) 0.46 ug/L

response 1918

| Ion | Exp% | Act% |
|---|---|---|
| 96.00 | 100 | 100 |
| 61.00 | 144.40 | 126.03 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Manual Integration:

Before

09/28/22

# Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\092522\
Data File : B6299.D
Acq On : 26 Sep 2022 1:35 am
Operator : K.Ruest
Sample : R2208794-015|1.0 Inst : MSVOA10
Misc : VERINA 8260 4
ALS Vial : 45 Sample Multiplier: 1

Quant Time: Sep 28 11:27:26 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Sep 08 14:38:30 2022
Response via : Initial Calibration

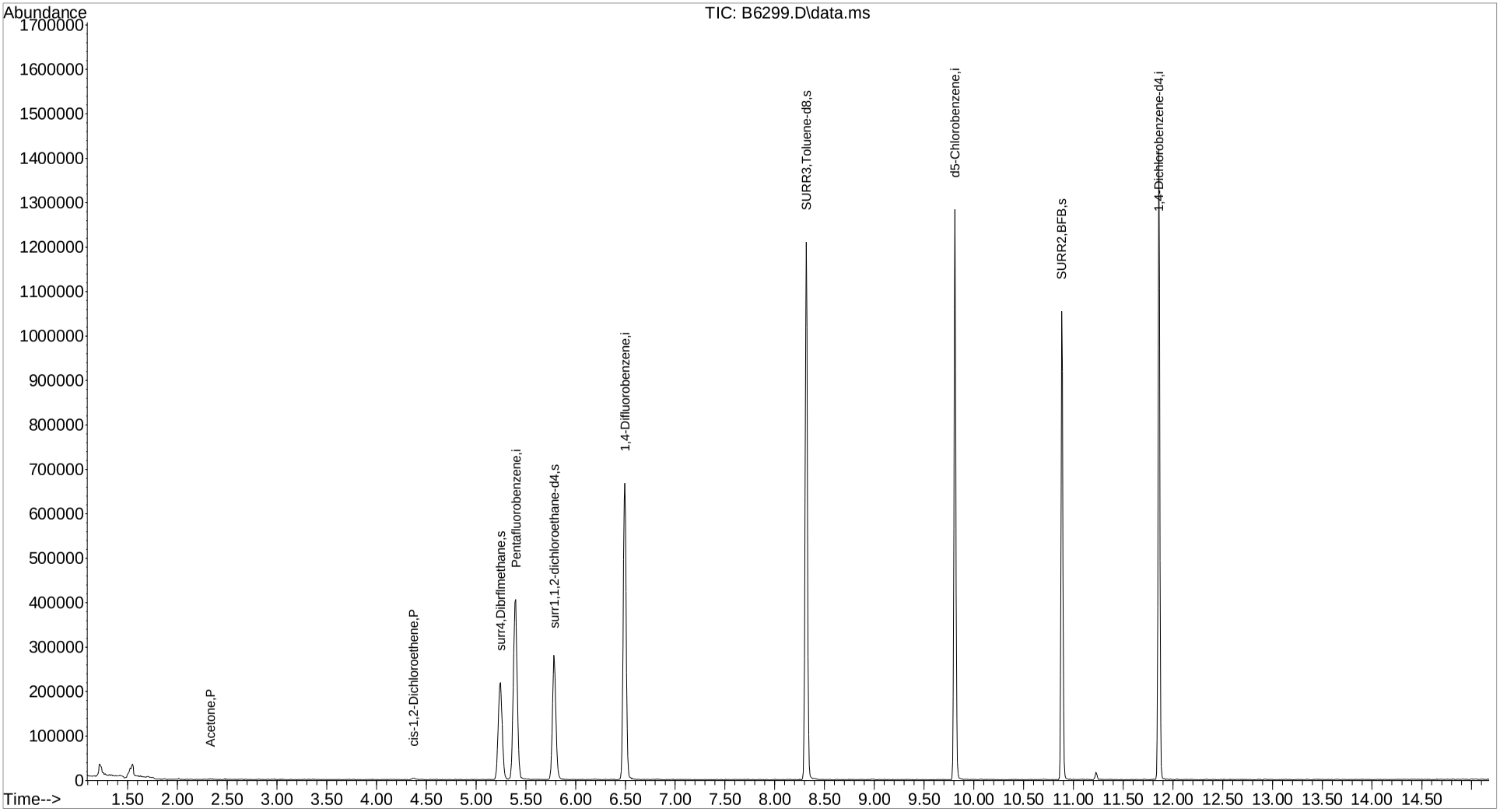
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.397 | 168 | 368864 | 50.00 | ug/L | 0.00 |
| 42) 1,4-Difluorobenzene | 6.494 | 114 | 583686 | 50.00 | ug/L | 0.00 |
| 71) d5-Chlorobenzene | 9.811 | 117 | 523996 | 50.00 | ug/L | 0.00 |
| 91) 1,4-Dichlorobenzene-d4 | 11.859 | 152 | 260604 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 44) surr4,Dibrflmethane | 5.245 | 113 | 181515 | 48.63 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 116 | | Recovery = 97.26% | | | |
| 47) surr1,1,2-dichloroetha... | 5.787 | 65 | 231898 | 48.39 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 73 - 125 | | Recovery = 96.78% | | | |
| 65) SURR3,Toluene-d8 | 8.317 | 98 | 694565 | 48.84 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 87 - 121 | | Recovery = 97.68% | | | |
| 70) SURR2,BFB | 10.884 | 95 | 237414 | 44.32 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 85 - 122 | | Recovery = 88.64% | | | |
| Target Compounds | | | | | | Qvalue |
| 16) Acetone | 2.331 | 43 | 2442m | 1.12 | ug/L | |
| 34) cis-1,2-Dichloroethene | 4.373 | 96 | 2300m | 0.55 | ug/L | |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\092522\
Data File : B6299.D
Acq On : 26 Sep 2022 1:35 am
Operator : K.Ruest
Sample : R2208794-015|1.0 Inst : MSVOA10
Misc : VERINA 8260 4
ALS Vial : 45 Sample Multiplier: 1

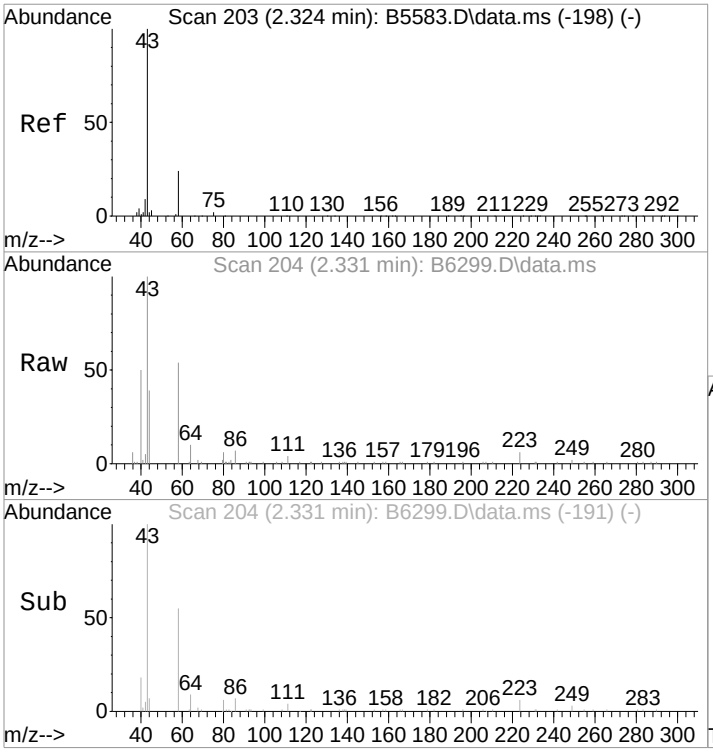
Quant Time: Sep 28 11:27:26 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Sep 08 14:38:30 2022
Response via : Initial Calibration







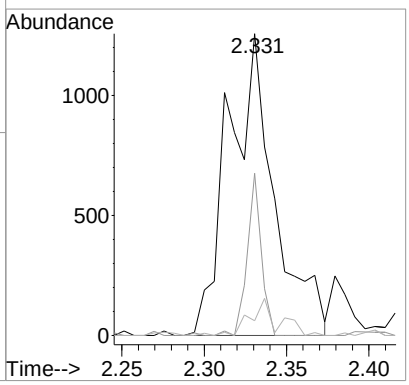

1st 09/28/22
2nd 09/28/22

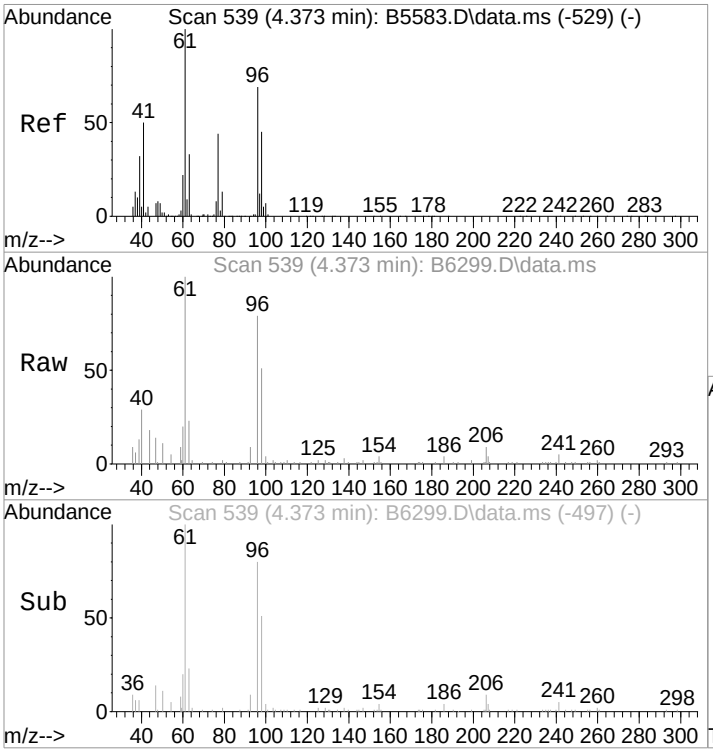



#16
Acetone
Concen: 1.12 ug/L m
RT: 2.331 min Scan# 204
Delta R.T. 0.006 min
Lab File: B6299.D
Acq: 26 Sep 2022 1:35 am

Tgt Ion: 43 Resp: 2442

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 53.7 | 3.7 | 43.7# |
| 42 | 4.9 | 0.0 | 28.6 |

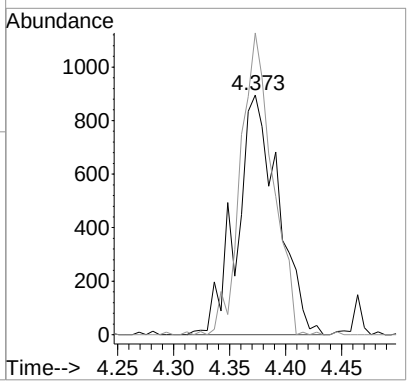



#34
cis-1,2-Dichloroethene
Concen: 0.55 ug/L m
RT: 4.373 min Scan# 539
Delta R.T. 0.000 min
Lab File: B6299.D
Acq: 26 Sep 2022 1:35 am

Tgt Ion: 96 Resp: 2300

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 126.0 | 124.4 | 164.4 |



# Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\092522\
Data File : B6289.D
Acq On : 25 Sep 2022 9:57 pm
Operator : K.Ruest
Sample : R2208794-016|1.0 Inst : MSVOA10
Misc : VERINA 8260 4
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Sep 27 18:02:28 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Sep 08 14:38:30 2022
Response via : Initial Calibration

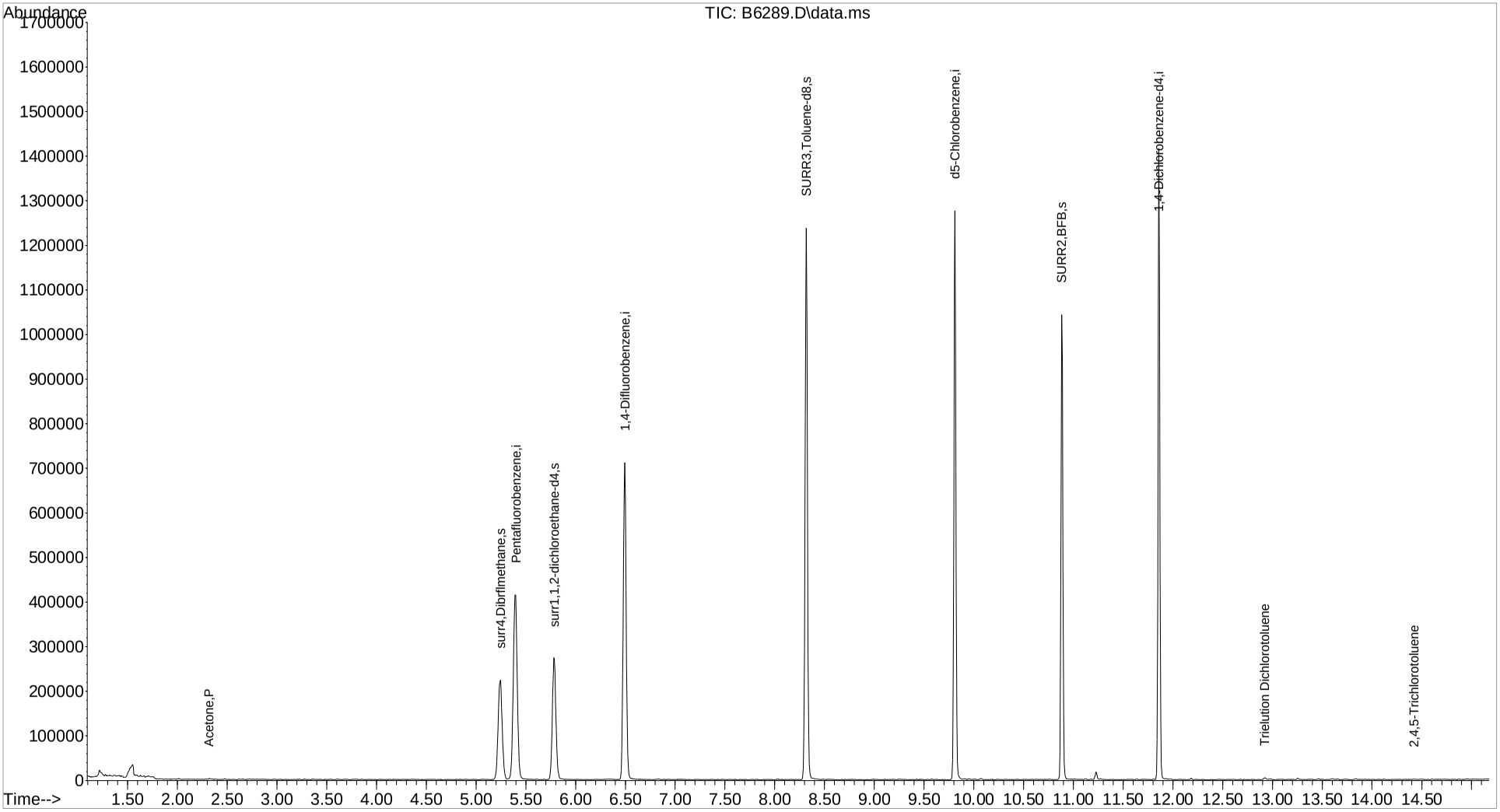
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.397 | 168 | 387552 | 50.00 | ug/L | 0.00 |
| 42) 1,4-Difluorobenzene | 6.494 | 114 | 602391 | 50.00 | ug/L | 0.00 |
| 71) d5-Chlorobenzene | 9.811 | 117 | 547267 | 50.00 | ug/L | 0.00 |
| 91) 1,4-Dichlorobenzene-d4 | 11.859 | 152 | 262480 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 44) surr4,Dibrflmethane | 5.245 | 113 | 187486 | 48.67 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 116 | | Recovery = 97.34% | | | |
| 47) surr1,1,2-dichloroetha... | 5.787 | 65 | 237944 | 48.11 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 73 - 125 | | Recovery = 96.22% | | | |
| 65) SURR3,Toluene-d8 | 8.317 | 98 | 720932 | 49.12 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 87 - 121 | | Recovery = 98.24% | | | |
| 70) SURR2,BFB | 10.884 | 95 | 247365 | 44.74 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 85 - 122 | | Recovery = 89.48% | | | |
| Target Compounds | | | | | | Qvalue |
| 16) Acetone | 2.318 | 43 | 2206 | 0.96 | ug/L | 70 |
| 112) Trielution Dichlorotol... | 12.920 | 125 | 1658 | 0.25 | ug/L | 83 |
| 119) 2,4,5-Trichlorotoluene | 14.420 | 159 | 320 | 0.80 | ug/L # | 52 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

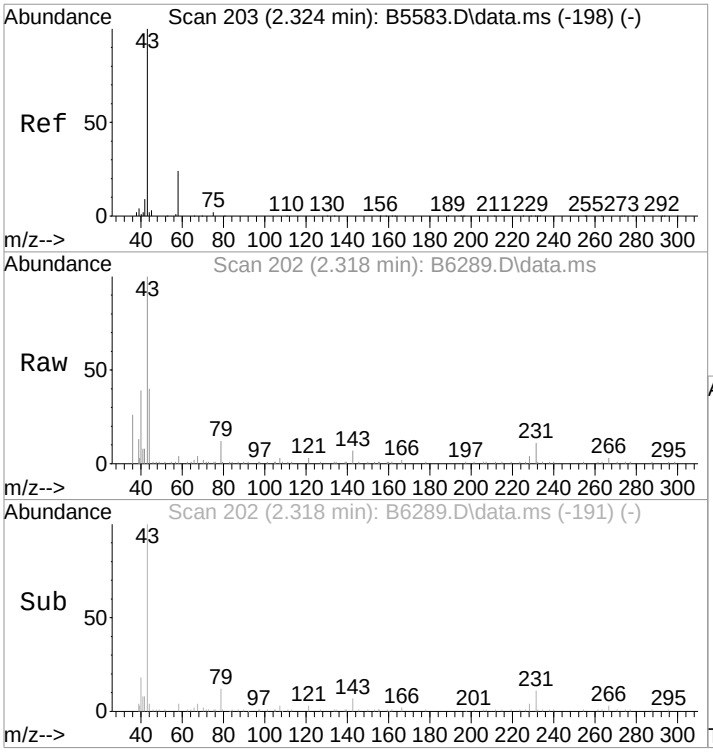
Data Path : I:\ACQUDATA\msvoa10\data\092522\
Data File : B6289.D
Acq On : 25 Sep 2022 9:57 pm
Operator : K.Ruest
Sample : R2208794-016|1.0 Inst : MSVOA10
Misc : VERINA 8260 4
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Sep 27 18:02:28 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Sep 08 14:38:30 2022
Response via : Initial Calibration





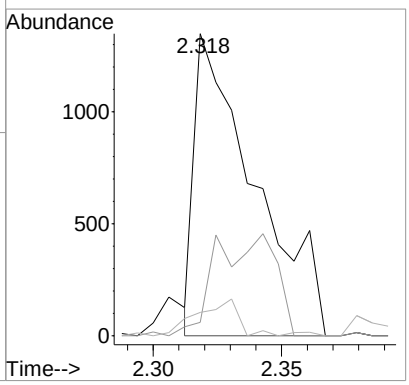

1st 09/27/22
2nd 09/28/22

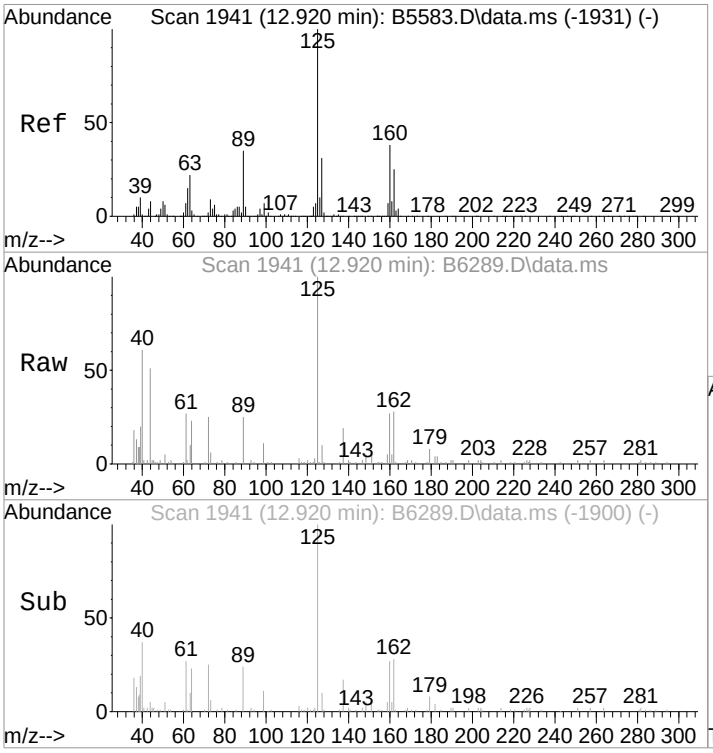



#16
Acetone
Concen: 0.96 ug/L
RT: 2.318 min Scan# 202
Delta R.T. -0.006 min
Lab File: B6289.D
Acq: 25 Sep 2022 9:57 pm

Tgt Ion: 43 Resp: 2206

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 4.4 | 3.7 | 43.7 |
| 42 | 7.7 | 0.0 | 28.6 |

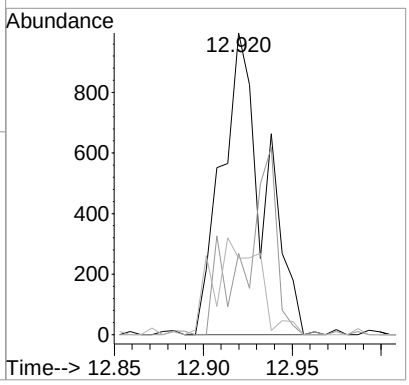


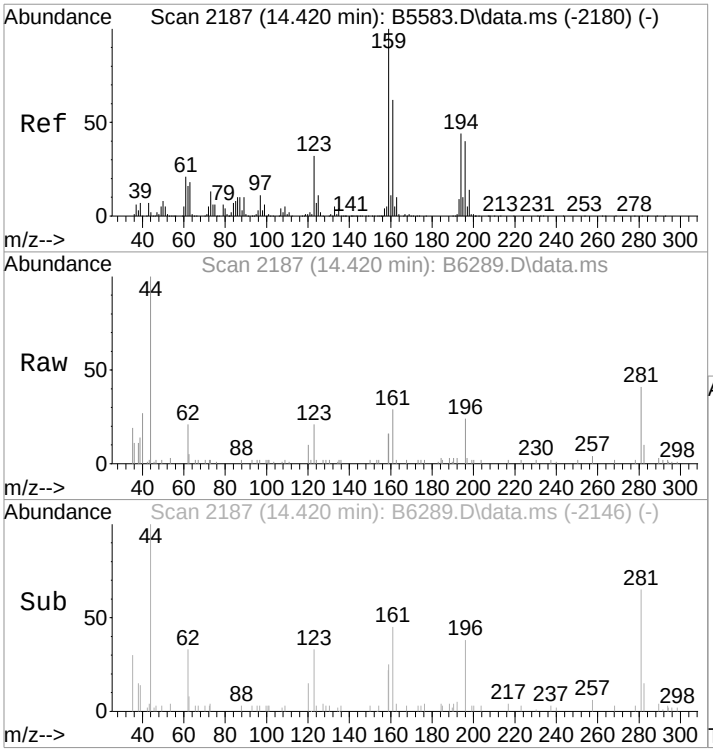




#112
Trielution Dichlorotoluene
Concen: 0.25 ug/L
RT: 12.920 min Scan# 1941
Delta R.T. -0.000 min
Lab File: B6289.D
Acq: 25 Sep 2022 9:57 pm

Tgt Ion:125 Resp: 1658

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 125 | 100 | | |
| 160 | 26.9 | 18.2 | 58.2 |
| 89 | 25.4 | 14.7 | 54.7 |

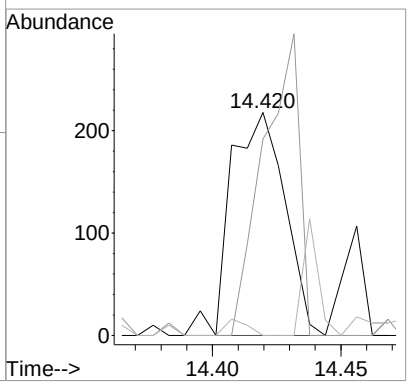





#119
2,4,5-Trichlorotoluene
Concen: 0.80 ug/L
RT: 14.420 min Scan# 2187
Delta R.T. 0.001 min
Lab File: B6289.D
Acq: 25 Sep 2022 9:57 pm

Tgt Ion:159 Resp: 320

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 159 | 100 | | |
| 161 | 88.1 | 42.3 | 82.3# |
| 194 | 0.0 | 24.1 | 64.1# |



# Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\092522\
Data File : B6290.D
Acq On : 25 Sep 2022 10:18 pm
Operator : K.Ruest
Sample : R2208794-017|1.0 Inst : MSVOA10
Misc : VERINA 8260 4
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Sep 27 18:03:57 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Sep 08 14:38:30 2022
Response via : Initial Calibration

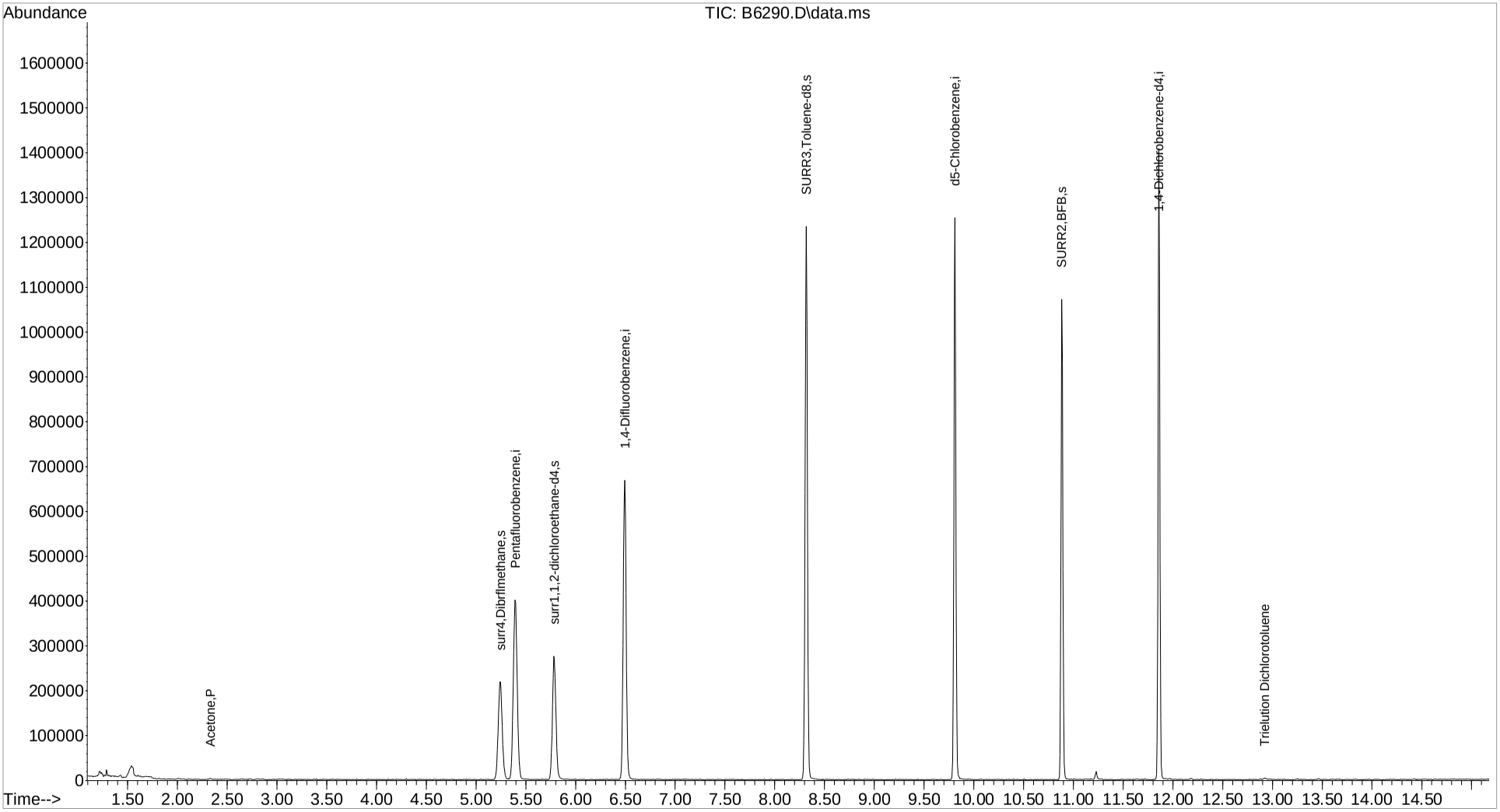
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.391 | 168 | 368785 | 50.00 | ug/L | 0.00 |
| 42) 1,4-Difluorobenzene | 6.494 | 114 | 582614 | 50.00 | ug/L | 0.00 |
| 71) d5-Chlorobenzene | 9.811 | 117 | 522759 | 50.00 | ug/L | 0.00 |
| 91) 1,4-Dichlorobenzene-d4 | 11.859 | 152 | 261400 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 44) surr4,Dibrflmethane | 5.245 | 113 | 182180 | 48.90 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 116 | | Recovery = 97.80% | | | |
| 47) surr1,1,2-dichloroetha... | 5.781 | 65 | 228669 | 47.80 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 73 - 125 | | Recovery = 95.60% | | | |
| 65) SURR3,Toluene-d8 | 8.317 | 98 | 702353 | 49.48 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 87 - 121 | | Recovery = 98.96% | | | |
| 70) SURR2,BFB | 10.884 | 95 | 250285 | 46.81 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 85 - 122 | | Recovery = 93.62% | | | |
| Target Compounds | | | | | | Qvalue |
| 16) Acetone | 2.331 | 43 | 2180 | 1.00 | ug/L | 79 |
| 112) Trielution Dichlorotol... | 12.920 | 125 | 1966 | 0.30 | ug/L | 83 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\092522\
Data File : B6290.D
Acq On : 25 Sep 2022 10:18 pm
Operator : K.Ruest
Sample : R2208794-017|1.0 Inst : MSVOA10
Misc : VERINA 8260 4
ALS Vial : 36 Sample Multiplier: 1

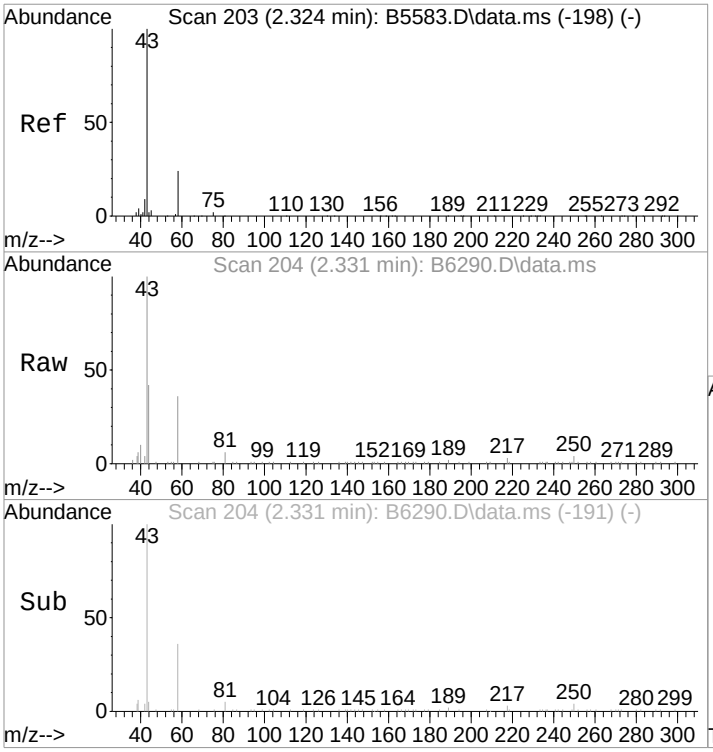
Quant Time: Sep 27 18:03:57 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Sep 08 14:38:30 2022
Response via : Initial Calibration







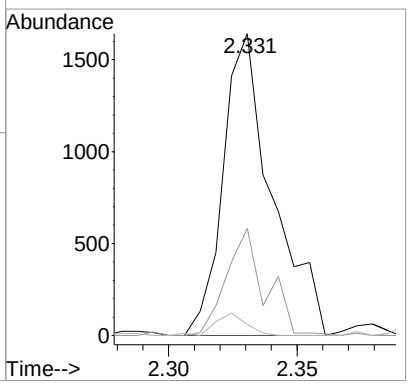

1st 09/27/22
2nd 09/28/22

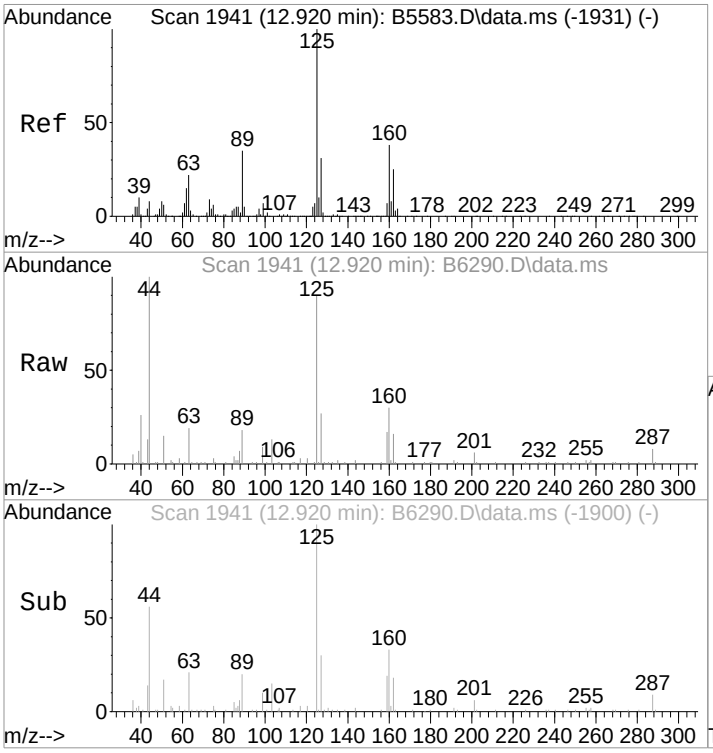



#16
Acetone
Concen: 1.00 ug/L
RT: 2.331 min Scan# 204
Delta R.T. 0.006 min
Lab File: B6290.D
Acq: 25 Sep 2022 10:18 pm

Tgt Ion: 43 Resp: 2180

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 35.6 | 3.7 | 43.7 |
| 42 | 3.6 | 0.0 | 28.6 |

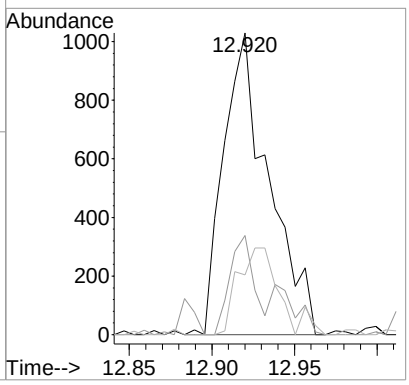



#112
Trielution Dichlorotoluene
Concen: 0.30 ug/L
RT: 12.920 min Scan# 1941
Delta R.T. 0.000 min
Lab File: B6290.D
Acq: 25 Sep 2022 10:18 pm

Tgt Ion:125 Resp: 1966

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 125 | 100 | | |
| 160 | 32.8 | 18.2 | 58.2 |
| 89 | 19.8 | 14.7 | 54.7 |



# Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\092522\
Data File : B6288.D
Acq On : 25 Sep 2022 9:35 pm
Operator : K.Ruest
Sample : MBLK-FP Inst : MSVOA10
Misc :
ALS Vial : 34 Sample Multiplier: 1

Quant Time: Sep 26 09:52:16 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Sep 08 14:38:30 2022
Response via : Initial Calibration

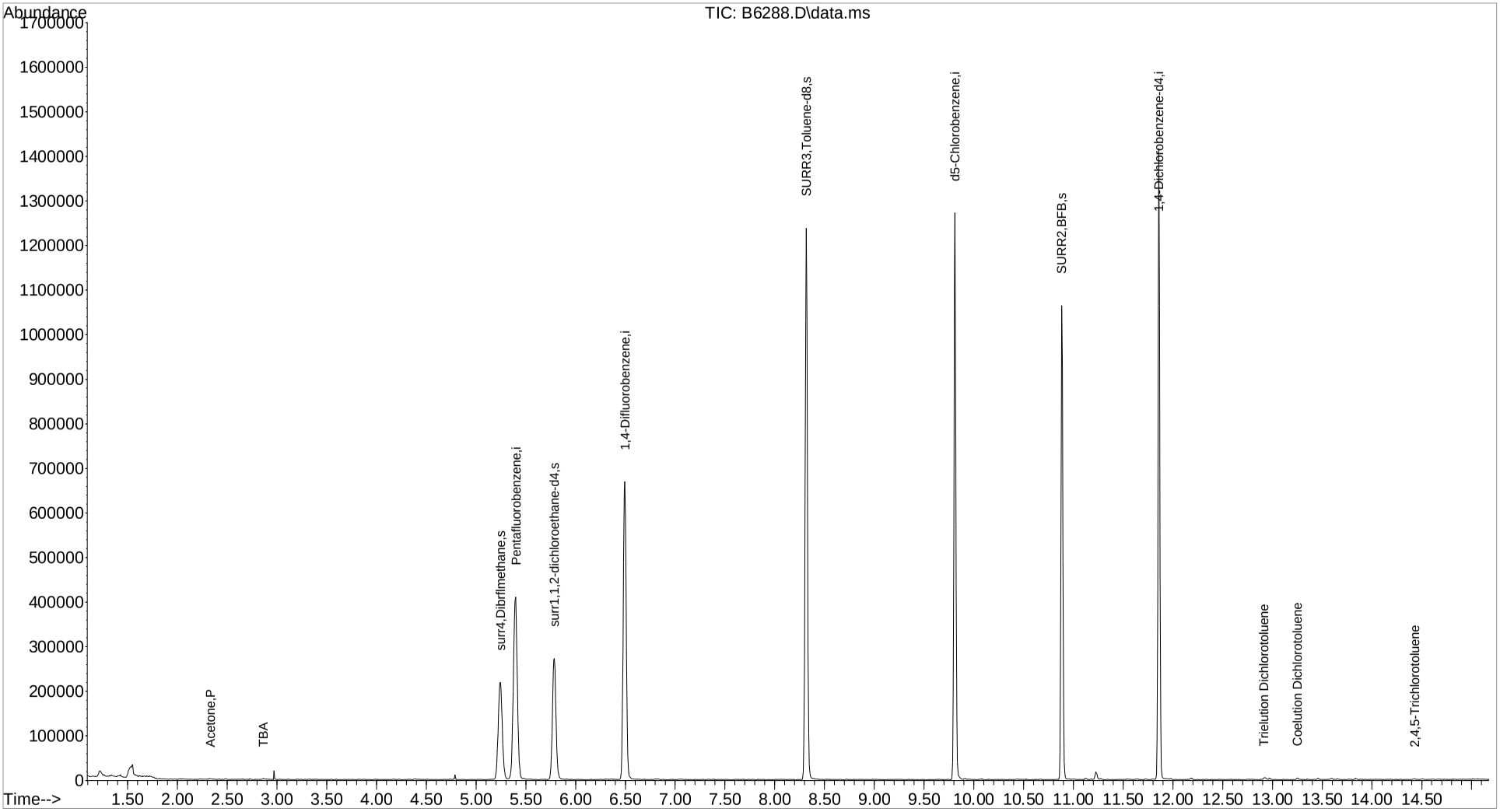
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Pentafluorobenzene | 5.397 | 168 | 380531 | 50.00 | ug/L | | 0.00 |
| 42) 1,4-Difluorobenzene | 6.494 | 114 | 585327 | 50.00 | ug/L | | 0.00 |
| 71) d5-Chlorobenzene | 9.811 | 117 | 532915 | 50.00 | ug/L | | 0.00 |
| 91) 1,4-Dichlorobenzene-d4 | 11.859 | 152 | 260195 | 50.00 | ug/L | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 44) surr4,Dibrflmethane | 5.245 | 113 | 187218 | 50.02 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 116 | | Recovery = 100.04% | | | | |
| 47) surr1,1,2-dichloroetha... | 5.787 | 65 | 228463 | 47.54 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 73 - 125 | | Recovery = 95.08% | | | | |
| 65) SURR3,Toluene-d8 | 8.317 | 98 | 700528 | 49.12 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 87 - 121 | | Recovery = 98.24% | | | | |
| 70) SURR2,BFB | 10.884 | 95 | 245288 | 45.66 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 85 - 122 | | Recovery = 91.32% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 16) Acetone | 2.331 | 43 | 1873 | 0.83 | ug/L | | 92 |
| 24) TBA | 2.861 | 59 | 796 | 1.51 | ug/L | | 79 |
| 112) Trielution Dichlorotol... | 12.914 | 125 | 2192 | 0.34 | ug/L | # | 66 |
| 114) Coelution Dichlorotoluene | 13.249 | 125 | 1919 | 0.27 | ug/L | # | 66 |
| 119) 2,4,5-Trichlorotoluene | 14.426 | 159 | 769 | 0.95 | ug/L | # | 41 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

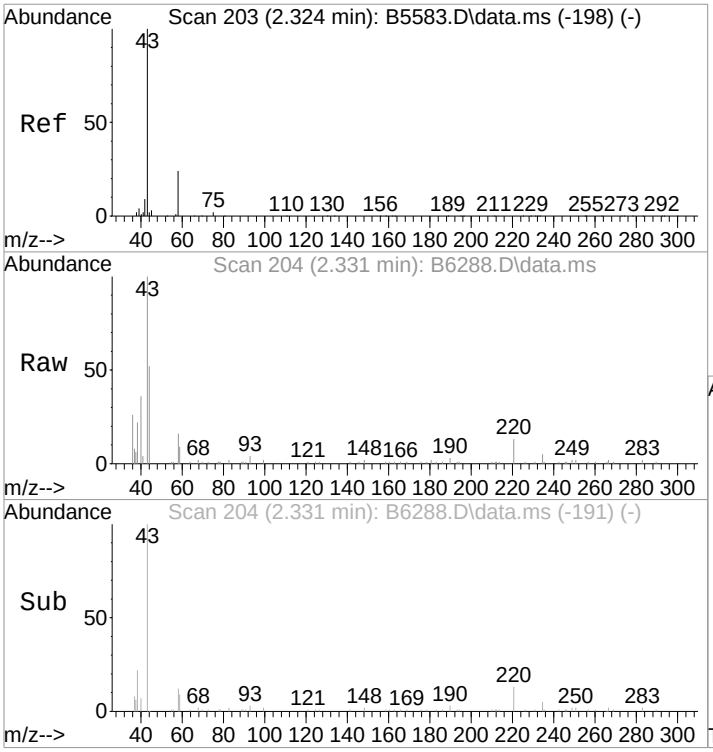
Data Path : I:\ACQUDATA\msvoa10\data\092522\
Data File : B6288.D
Acq On : 25 Sep 2022 9:35 pm
Operator : K.Ruest
Sample : MBLK-FP Inst : MSVOA10
Misc :
ALS Vial : 34 Sample Multiplier: 1

Quant Time: Sep 26 09:52:16 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Sep 08 14:38:30 2022
Response via : Initial Calibration





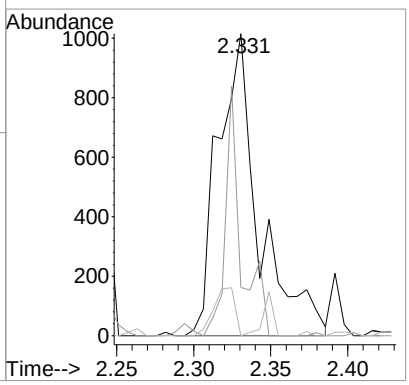

1st 09/26/22
2nd 09/28/22

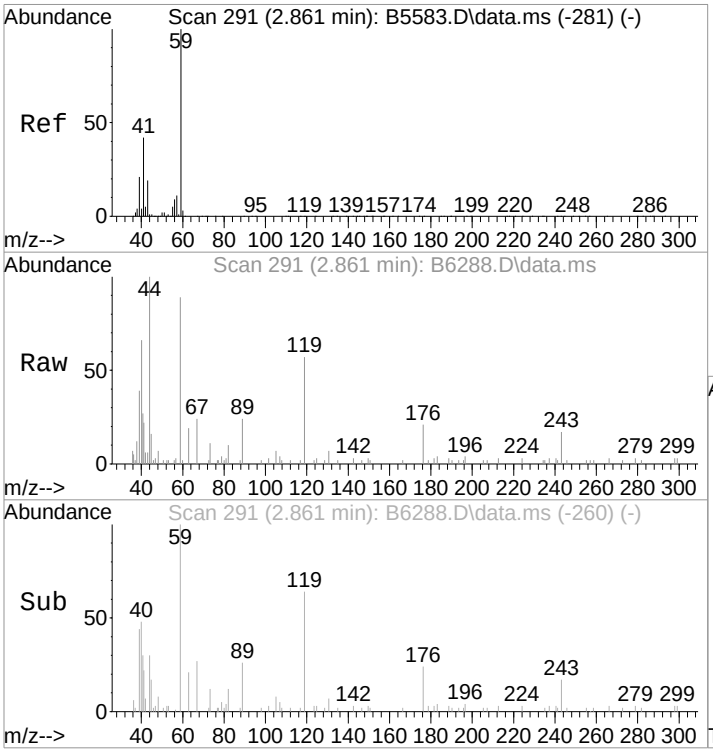



#16
Acetone
Concen: 0.83 ug/L
RT: 2.331 min Scan# 204
Delta R.T. 0.006 min
Lab File: B6288.D
Acq: 25 Sep 2022 9:35 pm

Tgt Ion: 43 Resp: 1873

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 25.1 | 3.7 | 43.7 |
| 42 | 0.0 | 0.0 | 28.6 |

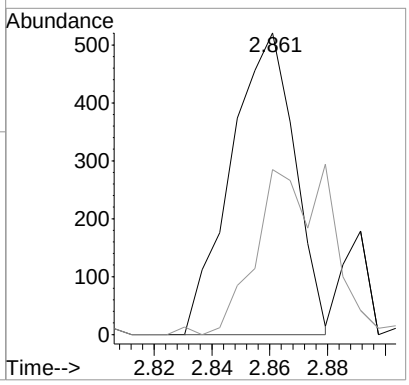


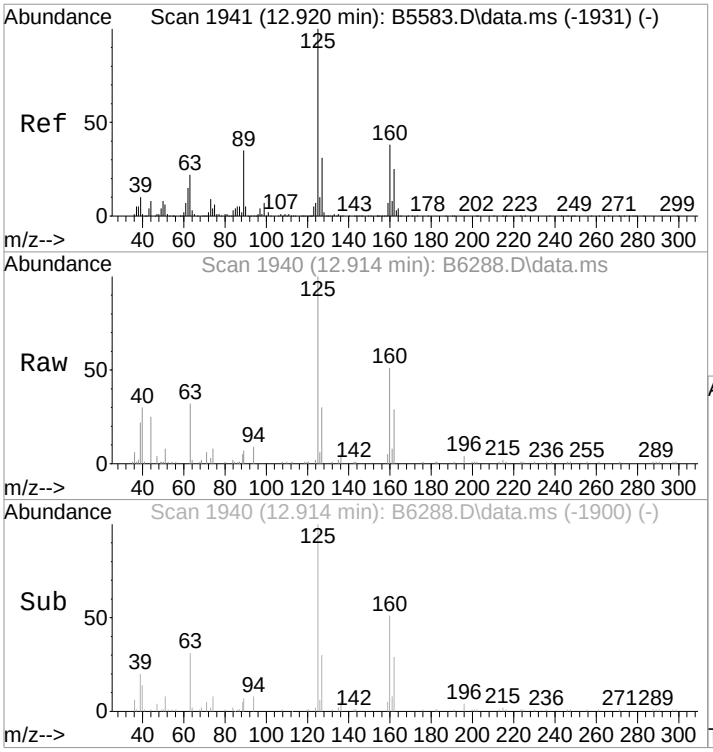




#24
TBA
Concen: 1.51 ug/L
RT: 2.861 min Scan# 291
Delta R.T. 0.000 min
Lab File: B6288.D
Acq: 25 Sep 2022 9:35 pm

Tgt Ion: 59 Resp: 796

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 41 | 54.7 | 21.6 | 61.6 |

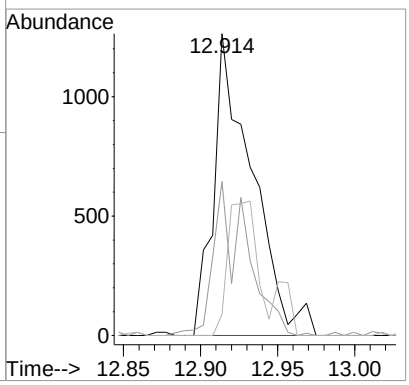


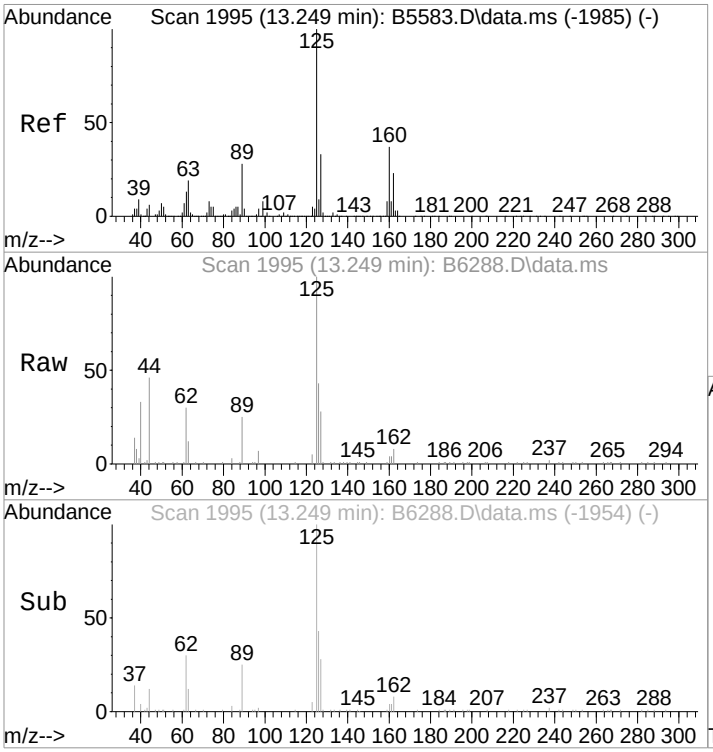



#112
Trielution Dichlorotoluene
Concen: 0.34 ug/L
RT: 12.914 min Scan# 1940
Delta R.T. -0.006 min
Lab File: B6288.D
Acq: 25 Sep 2022 9:35 pm

Tgt Ion:125 Resp: 2192

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 125 | 100 | | |
| 160 | 51.0 | 18.2 | 58.2 |
| 89 | 6.9 | 14.7 | 54.7# |

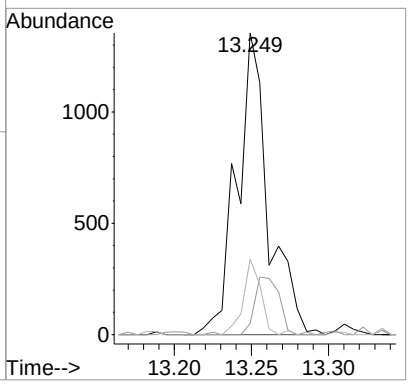


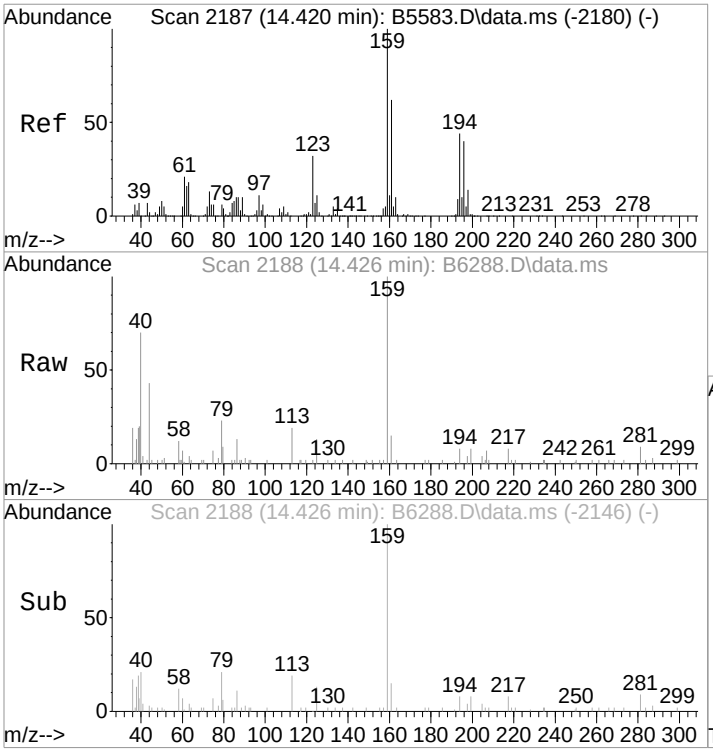

#114
Coelution Dichlorotoluene
Concen: 0.27 ug/L
RT: 13.249 min Scan# 1995
Delta R.T. 0.000 min
Lab File: B6288.D
Acq: 25 Sep 2022 9:35 pm

Tgt Ion:125 Resp: 1919

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 125 | 100 | | |
| 160 | 3.7 | 16.6 | 56.6# |
| 89 | 25.2 | 7.6 | 47.6 |



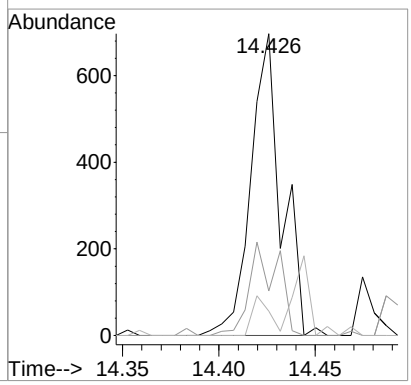
1st 09/26/22
2nd 09/28/22




#119
2,4,5-Trichlorotoluene
Concen: 0.95 ug/L
RT: 14.426 min Scan# 2188
Delta R.T. 0.007 min
Lab File: B6288.D
Acq: 25 Sep 2022 9:35 pm

Tgt Ion:159 Resp: 769

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 159 | 100 | | |
| 161 | 14.8 | 42.3 | 82.3# |
| 194 | 8.0 | 24.1 | 64.1# |



# Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\092522\
Data File : B6284.D
Acq On : 25 Sep 2022 8:07 pm
Operator : K.Ruest
Sample : LCS-FP Inst : MSVOA10
Misc :
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Sep 26 09:04:51 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Sep 08 14:38:30 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.397 | 168 | 411002 | 50.00 | ug/L | 0.00 |
| 42) 1,4-Difluorobenzene | 6.494 | 114 | 627723 | 50.00 | ug/L | 0.00 |
| 71) d5-Chlorobenzene | 9.811 | 117 | 574161 | 50.00 | ug/L | 0.00 |
| 91) 1,4-Dichlorobenzene-d4 | 11.859 | 152 | 300831 | 50.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 44) surr4,Dibrflmethane | 5.244 | 113 | 198495 | 49.45 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 116 | | Recovery = 98.90% | | | |
| 47) surr1,1,2-dichloroetha... | 5.787 | 65 | 246174 | 47.76 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 73 - 125 | | Recovery = 95.52% | | | |
| 65) SURR3,Toluene-d8 | 8.317 | 98 | 755472 | 49.39 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 87 - 121 | | Recovery = 98.78% | | | |
| 70) SURR2,BFB | 10.884 | 95 | 277629 | 48.19 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 85 - 122 | | Recovery = 96.38% | | | |
| Target Compounds | | | | | | Qvalue |
| 3) Dichlorodifluoromethane | 1.148 | 85 | 81184 | 16.15 | ug/L | 99 |
| 4) Chloromethane | 1.282 | 50 | 103356 | 18.80 | ug/L | 97 |
| 5) Vinyl Chloride | 1.355 | 62 | 88094 | 16.97 | ug/L | 94 |
| 6) Bromomethane | 1.580 | 94 | 64029 | 20.48 | ug/L | 98 |
| 7) Chloroethane | 1.660 | 64 | 56535 | 16.26 | ug/L | 97 |
| 8) Freon 21 | 1.812 | 67 | 134516 | 16.51 | ug/L | 100 |
| 9) Trichlorofluoromethane | 1.855 | 101 | 129183 | 19.38 | ug/L | 95 |
| 10) Diethyl Ether | 2.086 | 59 | 75050 | 18.84 | ug/L | 98 |
| 11) Freon 123a | 2.093 | 67 | 97938 | 19.49 | ug/L | 84 |
| 12) Freon 123 | 2.147 | 83 | 109025 | 19.80 | ug/L | 97 |
| 13) Acrolein | 2.190 | 56 | 34869 | 33.05 | ug/L | 97 |
| 14) 1,1-Diclethene | 2.282 | 96 | 73527 | 20.16 | ug/L | 93 |
| 15) Freon 113 | 2.282 | 101 | 72273 | 18.24 | ug/L | 91 |
| 16) Acetone | 2.324 | 43 | 47012 | 19.35 | ug/L | 94 |
| 17) 2-Propanol | 2.452 | 45 | 159945 | 364.74 | ug/L | 98 |
| 18) Iodomethane | 2.416 | 142 | 101620 | 18.34 | ug/L | 94 |
| 19) Carbon Disulfide | 2.477 | 76 | 187978 | 17.60 | ug/L | 99 |
| 20) Acetonitrile | 2.574 | 41 | 93170 | 95.57 | ug/L | 94 |
| 21) Allyl Chloride | 2.617 | 76 | 38754 | 19.94 | ug/L # | 89 |
| 22) Methyl Acetate | 2.635 | 43 | 89774 | 15.26 | ug/L | 90 |
| 23) Methylene Chloride | 2.733 | 84 | 82951 | 18.11 | ug/L | 98 |
| 24) TBA | 2.855 | 59 | 207928 | 364.60 | ug/L | 96 |
| 25) Acrylonitrile | 2.983 | 53 | 217648 | 92.23 | ug/L | 91 |
| 26) Methyl-t-Butyl Ether | 3.031 | 73 | 238818 | 19.02 | ug/L | 100 |
| 27) trans-1,2-Dichloroethene | 3.025 | 96 | 79681 | 19.85 | ug/L # | 81 |
| 28) 1,1-Diclethane | 3.525 | 63 | 146460 | 19.58 | ug/L | 96 |
| 29) Vinyl Acetate | 3.617 | 86 | 10720 | 14.46 | ug/L # | 41 |
| 30) DIPE | 3.653 | 45 | 310039 | 18.96 | ug/L | 98 |
| 31) 2-Chloro-1,3-Butadiene | 3.647 | 53 | 123954 | 17.49 | ug/L | 97 |
| 32) ETBE | 4.184 | 59 | 200269 | 17.49 | ug/L | 98 |
| 33) 2,2-Dichloropropane | 4.360 | 77 | 64298 | 16.40 | ug/L | 88 |
| 34) cis-1,2-Dichloroethene | 4.367 | 96 | 89942 | 19.20 | ug/L | 90 |
| 35) 2-Butanone | 4.415 | 43 | 66011 | 16.24 | ug/L | 95 |
| 36) Propionitrile | 4.495 | 54 | 85145 | 92.96 | ug/L | 92 |
| 37) Bromochloromethane | 4.769 | 130 | 64299 | 20.82 | ug/L | 96 |
| 38) Methacrylonitrile | 4.769 | 67 | 39222 | 17.46 | ug/L # | 70 |
| 39) Tetrahydrofuran | 4.860 | 42 | 41714 | 16.92 | ug/L | 93 |
| 40) Chloroform | 4.952 | 83 | 148340 | 19.18 | ug/L | 97 |
| 41) 1,1,1-Trichloroethane | 5.250 | 97 | 114489 | 20.31 | ug/L | 89 |

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\092522\
Data File : B6284.D
Acq On : 25 Sep 2022 8:07 pm
Operator : K.Ruest
Sample : LCS-FP Inst : MSVOA10
Misc :
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Sep 26 09:04:51 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Sep 08 14:38:30 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 43) Cyclohexane | 5.342 | 41 | 106951 | 21.69 | ug/L | | 99 |
| 45) Carbontetrachloride | 5.537 | 117 | 94320 | 22.54 | ug/L | | 96 |
| 46) 1,1-Dichloropropene | 5.543 | 75 | 93322 | 19.11 | ug/L | | 98 |
| 48) Benzene | 5.866 | 78 | 314415 | 21.33 | ug/L | | 95 |
| 49) 1,2-Dichloroethane | 5.903 | 62 | 128744 | 21.36 | ug/L | | 98 |
| 50) Iso-Butyl Alcohol | 5.878 | 43 | 110457 | 377.90 | ug/L | | 98 |
| 51) TAME | 6.104 | 73 | 182447 | 19.66 | ug/L | | 98 |
| 52) n-Heptane | 6.360 | 43 | 102614 | 19.31 | ug/L | | 98 |
| 53) 1-Butanol | 6.854 | 56 | 135234 | 999.89 | ug/L | | 100 |
| 54) Trichloroethene | 6.817 | 130 | 91256 | 23.24 | ug/L | | 93 |
| 55) Methylcyclohexane | 7.061 | 55 | 102339 | 21.09 | ug/L | | 97 |
| 56) 1,2-Diclpropane | 7.104 | 63 | 81044 | 20.63 | ug/L | | 92 |
| 57) Dibromomethane | 7.250 | 93 | 59241 | 20.61 | ug/L | | 80 |
| 58) 1,4-Dioxane | 7.311 | 88 | 28216 | 356.52 | ug/L | | 95 |
| 59) Methyl Methacrylate | 7.335 | 69 | 63523 | 21.03 | ug/L | | 91 |
| 60) Bromodichloromethane | 7.470 | 83 | 104758 | 20.83 | ug/L | | 100 |
| 61) 2-Nitropropane | 7.756 | 41 | 43661 | 34.44 | ug/L | | 95 |
| 63) cis-1,3-Dichloropropene | 8.018 | 75 | 104899 | 21.10 | ug/L | | 97 |
| 64) 4-Methyl-2-pentanone | 8.226 | 43 | 128327 | 19.65 | ug/L | | 99 |
| 66) Toluene | 8.390 | 91 | 352376 | 21.43 | ug/L | | 96 |
| 67) trans-1,3-Dichloropropene | 8.664 | 75 | 85169 | 23.08 | ug/L | | 97 |
| 68) Ethyl Methacrylate | 8.805 | 69 | 109034 | 21.57 | ug/L | | 92 |
| 69) 1,1,2-Trichloroethane | 8.847 | 97 | 82969 | 21.88 | ug/L | | 94 |
| 72) Tetrachloroethene | 8.981 | 164 | 68990 | 23.89 | ug/L | | 91 |
| 73) 2-Hexanone | 9.140 | 43 | 90933 | 19.02 | ug/L | | 98 |
| 74) 1,3-Dichloropropane | 9.018 | 76 | 133382 | 20.32 | ug/L | | 99 |
| 75) Dibromochloromethane | 9.244 | 129 | 81000 | 20.55 | ug/L | | 95 |
| 76) N-Butyl Acetate | 9.299 | 43 | 155938 | 16.98 | ug/L | | 98 |
| 77) 1,2-Dibromoethane | 9.341 | 107 | 83789 | 22.06 | ug/L | | 98 |
| 78) 3-Chlorobenzotrifluoride | 9.853 | 180 | 107652 | 20.49 | ug/L | | 95 |
| 79) Chlorobenzene | 9.835 | 112 | 232665 | 21.95 | ug/L | | 99 |
| 80) 4-Chlorobenzotrifluoride | 9.908 | 180 | 97131 | 20.70 | ug/L | | 97 |
| 81) 1,1,1,2-Tetrachloroethane | 9.920 | 131 | 73670 | 21.95 | ug/L | | 89 |
| 82) Ethylbenzene | 9.957 | 106 | 121579 | 21.82 | ug/L | | 91 |
| 83) (m+p)Xylene | 10.067 | 106 | 307486 | 44.40 | ug/L | | 97 |
| 84) o-Xylene | 10.426 | 106 | 153870 | 22.57 | ug/L | | 100 |
| 85) Styrene | 10.439 | 104 | 256257 | 22.73 | ug/L | | 100 |
| 86) Bromoform | 10.591 | 173 | 47096 | 23.08 | ug/L | | 92 |
| 87) 2-Chlorobenzotrifluoride | 10.670 | 180 | 110230 | 20.85 | ug/L | | 98 |
| 88) Isopropylbenzene | 10.762 | 105 | 383356 | 23.56 | ug/L | | 98 |
| 89) Cyclohexanone | 10.823 | 55 | 74258 | 107.32 | ug/L | | 93 |
| 90) trans-1,4-Dichloro-2-B... | 11.066 | 53 | 22066 | 21.32 | ug/L | | 85 |
| 92) 1,1,2,2-Tetrachloroethane | 11.018 | 83 | 114752 | 19.83 | ug/L | | 99 |
| 93) Bromobenzene | 11.005 | 156 | 101761 | 20.51 | ug/L | | 93 |
| 94) 1,2,3-Trichloropropane | 11.048 | 110 | 35528 | 18.98 | ug/L | # | 78 |
| 95) n-Propylbenzene | 11.115 | 91 | 443159 | 20.83 | ug/L | | 98 |
| 96) 2-Chlorotoluene | 11.182 | 91 | 267087 | 20.40 | ug/L | | 98 |
| 97) 3-Chlorotoluene | 11.231 | 91 | 251956 | 18.64 | ug/L | | 95 |
| 98) 4-Chlorotoluene | 11.274 | 91 | 316851 | 21.12 | ug/L | | 97 |
| 99) 1,3,5-Trimethylbenzene | 11.268 | 105 | 325433 | 20.83 | ug/L | | 98 |
| 100) tert-Butylbenzene | 11.542 | 119 | 285530 | 22.46 | ug/L | | 99 |
| 101) 1,2,4-Trimethylbenzene | 11.579 | 105 | 315583 | 20.82 | ug/L | | 97 |
| 102) 3,4-Dichlorobenzotrifl... | 11.640 | 214 | 77841 | 18.47 | ug/L | | 96 |
| 103) sec-Butylbenzene | 11.725 | 105 | 391403 | 21.56 | ug/L | | 98 |
| 104) p-Isopropyltoluene | 11.847 | 119 | 335617 | 21.87 | ug/L | | 97 |
| 105) 1,3-Dclbenz | 11.804 | 146 | 200450 | 23.09 | ug/L | | 98 |

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\092522\
Data File : B6284.D
Acq On : 25 Sep 2022 8:07 pm
Operator : K.Ruest
Sample : LCS-FP Inst : MSVOA10
Misc :
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Sep 26 09:04:51 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Sep 08 14:38:30 2022
Response via : Initial Calibration

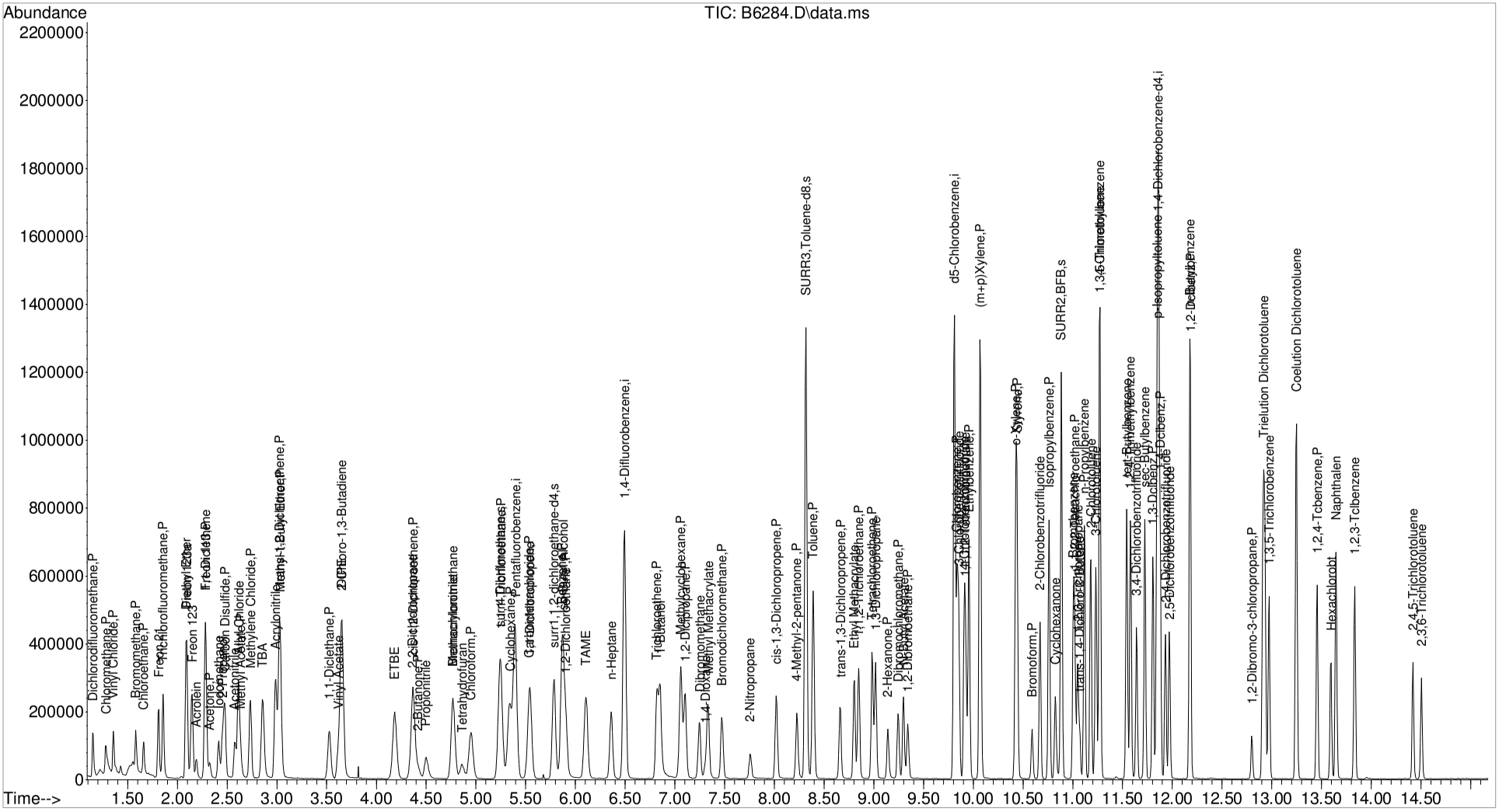
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 106) 1,4-Dclbenz | 11.877 | 146 | 201589 | 21.23 | ug/L | 98 |
| 107) 2,4-Dichlorobenzotrifl... | 11.932 | 214 | 72995 | 19.31 | ug/L | 98 |
| 108) 2,5-Dichlorobenzotrifl... | 11.975 | 214 | 82191 | 19.49 | ug/L | 98 |
| 109) n-Butylbenzene | 12.176 | 91 | 280049 | 20.79 | ug/L | 98 |
| 110) 1,2-Dclbenz | 12.182 | 146 | 198801 | 22.00 | ug/L | 97 |
| 111) 1,2-Dibromo-3-chloropr... | 12.798 | 157 | 21851 | 20.53 | ug/L | 93 |
| 112) Trielution Dichlorotol... | 12.920 | 125 | 432431 | 57.43 | ug/L | 97 |
| 113) 1,3,5-Trichlorobenzene | 12.975 | 180 | 118689 | 19.25 | ug/L | 100 |
| 114) Coelution Dichlorotoluene | 13.249 | 125 | 325104 | 39.77 | ug/L | 98 |
| 115) 1,2,4-Tcbenzene | 13.456 | 180 | 125374 | 22.02 | ug/L | 99 |
| 116) Hexachlorobt | 13.596 | 225 | 48861 | 25.51 | ug/L | 98 |
| 117) Naphthalen | 13.645 | 128 | 382530 | 24.23 | ug/L | 100 |
| 118) 1,2,3-Tclbenzene | 13.834 | 180 | 126842 | 23.00 | ug/L | 98 |
| 119) 2,4,5-Trichlorotoluene | 14.419 | 159 | 65038 | 18.98 | ug/L | 98 |
| 120) 2,3,6-Trichlorotoluene | 14.505 | 159 | 53988 | 18.77 | ug/L | 96 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\092522\
Data File : B6284.D
Acq On : 25 Sep 2022 8:07 pm
Operator : K.Ruest
Sample : LCS-FP Inst : MSVOA10
Misc :
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Sep 26 09:04:51 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Sep 08 14:38:30 2022
Response via : Initial Calibration








1st 09/26/22
2nd 09/28/22

# Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\092522\
Data File : B6285.D
Acq On : 25 Sep 2022 8:29 pm
Operator : K.Ruest
Sample : LCSD-FP Inst : MSVOA10
Misc :
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Sep 26 09:06:25 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Sep 08 14:38:30 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Pentafluorobenzene | 5.391 | 168 | 406013 | 50.00 | ug/L | | 0.00 |
| 42) 1,4-Difluorobenzene | 6.494 | 114 | 633601 | 50.00 | ug/L | | 0.00 |
| 71) d5-Chlorobenzene | 9.811 | 117 | 569437 | 50.00 | ug/L | | 0.00 |
| 91) 1,4-Dichlorobenzene-d4 | 11.859 | 152 | 308892 | 50.00 | ug/L | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 44) surr4,Dibrflmethane | 5.245 | 113 | 198562 | 49.01 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 116 | | Recovery = 98.02% | | | | |
| 47) surr1,1,2-dichloroetha... | 5.787 | 65 | 247041 | 47.49 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 73 - 125 | | Recovery = 94.98% | | | | |
| 65) SURR3,Toluene-d8 | 8.317 | 98 | 757662 | 49.08 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 87 - 121 | | Recovery = 98.16% | | | | |
| 70) SURR2,BFB | 10.884 | 95 | 274396 | 47.19 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 85 - 122 | | Recovery = 94.38% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 3) Dichlorodifluoromethane | 1.148 | 85 | 77678 | 15.64 | ug/L | | 97 |
| 4) Chloromethane | 1.282 | 50 | 100982 | 18.60 | ug/L | | 99 |
| 5) Vinyl Chloride | 1.355 | 62 | 84337 | 16.44 | ug/L | | 95 |
| 6) Bromomethane | 1.581 | 94 | 63297 | 20.49 | ug/L | | 92 |
| 7) Chloroethane | 1.660 | 64 | 55962 | 16.30 | ug/L | | 97 |
| 8) Freon 21 | 1.812 | 67 | 129742 | 16.12 | ug/L | | 100 |
| 9) Trichlorofluoromethane | 1.855 | 101 | 131334 | 19.95 | ug/L | | 98 |
| 10) Diethyl Ether | 2.087 | 59 | 74434 | 18.92 | ug/L | | 95 |
| 11) Freon 123a | 2.093 | 67 | 92198 | 18.57 | ug/L | | 89 |
| 12) Freon 123 | 2.141 | 83 | 104201 | 19.15 | ug/L | | 97 |
| 13) Acrolein | 2.190 | 56 | 34426 | 33.04 | ug/L | | 95 |
| 14) 1,1-Diclethene | 2.282 | 96 | 72722 | 20.18 | ug/L | | 90 |
| 15) Freon 113 | 2.282 | 101 | 73245 | 18.71 | ug/L | | 98 |
| 16) Acetone | 2.324 | 43 | 47655 | 19.86 | ug/L | | 97 |
| 17) 2-Propanol | 2.452 | 45 | 145784 | 336.54 | ug/L | | 98 |
| 18) Iodomethane | 2.416 | 142 | 103665 | 18.94 | ug/L | | 91 |
| 19) Carbon Disulfide | 2.477 | 76 | 194990 | 18.48 | ug/L | | 97 |
| 20) Acetonitrile | 2.580 | 41 | 86929 | 90.26 | ug/L | | 96 |
| 21) Allyl Chloride | 2.611 | 76 | 36464 | 18.99 | ug/L | | 93 |
| 22) Methyl Acetate | 2.635 | 43 | 81025 | 13.94 | ug/L | | 99 |
| 23) Methylene Chloride | 2.733 | 84 | 82119 | 18.15 | ug/L | | 96 |
| 24) TBA | 2.861 | 59 | 207615 | 368.52 | ug/L | | 100 |
| 25) Acrylonitrile | 2.989 | 53 | 220970 | 94.79 | ug/L | | 92 |
| 26) Methyl-t-Butyl Ether | 3.032 | 73 | 240584 | 19.40 | ug/L | | 94 |
| 27) trans-1,2-Dichloroethene | 3.025 | 96 | 78051 | 19.68 | ug/L | # | 89 |
| 28) 1,1-Diclethane | 3.525 | 63 | 143739 | 19.45 | ug/L | | 94 |
| 29) Vinyl Acetate | 3.617 | 86 | 9334 | 12.82 | ug/L | # | 24 |
| 30) DIPE | 3.653 | 45 | 312298 | 19.33 | ug/L | | 97 |
| 31) 2-Chloro-1,3-Butadiene | 3.647 | 53 | 133511 | 19.07 | ug/L | | 89 |
| 32) ETBE | 4.184 | 59 | 205608 | 18.18 | ug/L | | 98 |
| 33) 2,2-Dichloropropane | 4.367 | 77 | 64981 | 16.77 | ug/L | | 88 |
| 34) cis-1,2-Dichloroethene | 4.373 | 96 | 89032 | 19.24 | ug/L | | 98 |
| 35) 2-Butanone | 4.409 | 43 | 70145 | 17.47 | ug/L | | 97 |
| 36) Propionitrile | 4.501 | 54 | 88566 | 97.88 | ug/L | | 98 |
| 37) Bromochloromethane | 4.775 | 130 | 64942 | 21.29 | ug/L | | 92 |
| 38) Methacrylonitrile | 4.775 | 67 | 41993 | 18.92 | ug/L | | 97 |
| 39) Tetrahydrofuran | 4.867 | 42 | 41520 | 17.05 | ug/L | | 92 |
| 40) Chloroform | 4.952 | 83 | 151911 | 19.89 | ug/L | | 98 |
| 41) 1,1,1-Trichloroethane | 5.251 | 97 | 114067 | 20.48 | ug/L | | 97 |

1st 09/26/22
2nd 09/28/22

Data Path : I:\ACQUDATA\msvoa10\data\092522\
Data File : B6285.D
Acq On : 25 Sep 2022 8:29 pm
Operator : K.Ruest
Sample : LCSD-FP Inst : MSVOA10
Misc :
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Sep 26 09:06:25 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Sep 08 14:38:30 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 43) Cyclohexane | 5.330 | 41 | 95536 | 19.19 | ug/L | 99 |
| 45) Carbontetrachloride | 5.537 | 117 | 89454 | 21.18 | ug/L | 96 |
| 46) 1,1-Dichloropropene | 5.549 | 75 | 100206 | 20.33 | ug/L | 96 |
| 48) Benzene | 5.866 | 78 | 316269 | 21.25 | ug/L | 94 |
| 49) 1,2-Dichloroethane | 5.903 | 62 | 128599 | 21.13 | ug/L | 95 |
| 50) Iso-Butyl Alcohol | 5.879 | 43 | 117214 | 397.29 | ug/L | 94 |
| 51) TAME | 6.104 | 73 | 182058 | 19.44 | ug/L | 98 |
| 52) n-Heptane | 6.360 | 43 | 97017 | 18.09 | ug/L | 93 |
| 53) 1-Butanol | 6.854 | 56 | 123807 | 912.16 | ug/L | 98 |
| 54) Trichloroethene | 6.817 | 130 | 90469 | 22.83 | ug/L | 89 |
| 55) Methylcyclohexane | 7.061 | 55 | 97070 | 19.82 | ug/L | 98 |
| 56) 1,2-Diclpropane | 7.104 | 63 | 83812 | 21.14 | ug/L | 98 |
| 57) Dibromomethane | 7.250 | 93 | 57439 | 19.80 | ug/L | 80 |
| 58) 1,4-Dioxane | 7.305 | 88 | 30452 | 381.21 | ug/L | 86 |
| 59) Methyl Methacrylate | 7.336 | 69 | 63724 | 20.90 | ug/L | 90 |
| 60) Bromodichloromethane | 7.476 | 83 | 99967 | 19.70 | ug/L | 99 |
| 61) 2-Nitropropane | 7.762 | 41 | 42446 | 33.17 | ug/L | 97 |
| 63) cis-1,3-Dichloropropene | 8.024 | 75 | 104855 | 20.89 | ug/L | 95 |
| 64) 4-Methyl-2-pentanone | 8.226 | 43 | 125855 | 19.10 | ug/L | 97 |
| 66) Toluene | 8.390 | 91 | 356671 | 21.49 | ug/L | 98 |
| 67) trans-1,3-Dichloropropene | 8.658 | 75 | 85908 | 23.07 | ug/L | 93 |
| 68) Ethyl Methacrylate | 8.805 | 69 | 109724 | 21.50 | ug/L | 96 |
| 69) 1,1,2-Trichloroethane | 8.847 | 97 | 82119 | 21.45 | ug/L | 99 |
| 72) Tetrachloroethene | 8.988 | 164 | 65925 | 23.02 | ug/L | 86 |
| 73) 2-Hexanone | 9.140 | 43 | 91574 | 19.32 | ug/L | 99 |
| 74) 1,3-Dichloropropane | 9.018 | 76 | 135421 | 20.81 | ug/L | 97 |
| 75) Dibromochloromethane | 9.244 | 129 | 81509 | 20.85 | ug/L | 96 |
| 76) N-Butyl Acetate | 9.299 | 43 | 145843 | 16.02 | ug/L | 99 |
| 77) 1,2-Dibromoethane | 9.341 | 107 | 83604 | 22.19 | ug/L | 100 |
| 78) 3-Chlorobenzotrifluoride | 9.853 | 180 | 117155 | 22.49 | ug/L | 94 |
| 79) Chlorobenzene | 9.841 | 112 | 231336 | 22.00 | ug/L | 94 |
| 80) 4-Chlorobenzotrifluoride | 9.908 | 180 | 104102 | 22.37 | ug/L | 95 |
| 81) 1,1,1,2-Tetrachloroethane | 9.927 | 131 | 74730 | 22.44 | ug/L | 93 |
| 82) Ethylbenzene | 9.957 | 106 | 124744 | 22.58 | ug/L | 94 |
| 83) (m+p)Xylene | 10.067 | 106 | 304942 | 44.40 | ug/L | 93 |
| 84) o-Xylene | 10.426 | 106 | 146693 | 21.70 | ug/L | 97 |
| 85) Styrene | 10.439 | 104 | 255071 | 22.81 | ug/L | 98 |
| 86) Bromoform | 10.591 | 173 | 48689 | 24.02 | ug/L | 97 |
| 87) 2-Chlorobenzotrifluoride | 10.670 | 180 | 114770 | 21.89 | ug/L | 98 |
| 88) Isopropylbenzene | 10.762 | 105 | 375913 | 23.30 | ug/L | 98 |
| 89) Cyclohexanone | 10.823 | 55 | 76201 | 111.04 | ug/L | 98 |
| 90) trans-1,4-Dichloro-2-B... | 11.073 | 53 | 23459 | 22.81 | ug/L | 91 |
| 92) 1,1,2,2-Tetrachloroethane | 11.018 | 83 | 112573 | 18.94 | ug/L | 97 |
| 93) Bromobenzene | 11.006 | 156 | 104617 | 20.54 | ug/L | 92 |
| 94) 1,2,3-Trichloropropane | 11.048 | 110 | 37097 | 19.30 | ug/L | 91 |
| 95) n-Propylbenzene | 11.115 | 91 | 443474 | 20.30 | ug/L | 99 |
| 96) 2-Chlorotoluene | 11.182 | 91 | 257226 | 19.13 | ug/L | 97 |
| 97) 3-Chlorotoluene | 11.231 | 91 | 271884 | 19.59 | ug/L | 93 |
| 98) 4-Chlorotoluene | 11.274 | 91 | 301032 | 19.54 | ug/L | 97 |
| 99) 1,3,5-Trimethylbenzene | 11.268 | 105 | 323043 | 20.14 | ug/L | 97 |
| 100) tert-Butylbenzene | 11.542 | 119 | 277220 | 21.24 | ug/L | 99 |
| 101) 1,2,4-Trimethylbenzene | 11.579 | 105 | 312557 | 20.08 | ug/L | 99 |
| 102) 3,4-Dichlorobenzotrifl... | 11.640 | 214 | 89016 | 20.57 | ug/L | 95 |
| 103) sec-Butylbenzene | 11.725 | 105 | 386332 | 20.72 | ug/L | 100 |
| 104) p-Isopropyltoluene | 11.847 | 119 | 329007 | 20.88 | ug/L | 98 |
| 105) 1,3-Dclbenz | 11.804 | 146 | 196515 | 22.05 | ug/L | 99 |

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\092522\
Data File : B6285.D
Acq On : 25 Sep 2022 8:29 pm
Operator : K.Ruest
Sample : LCSD-FP Inst : MSVOA10
Misc :
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Sep 26 09:06:25 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Sep 08 14:38:30 2022
Response via : Initial Calibration

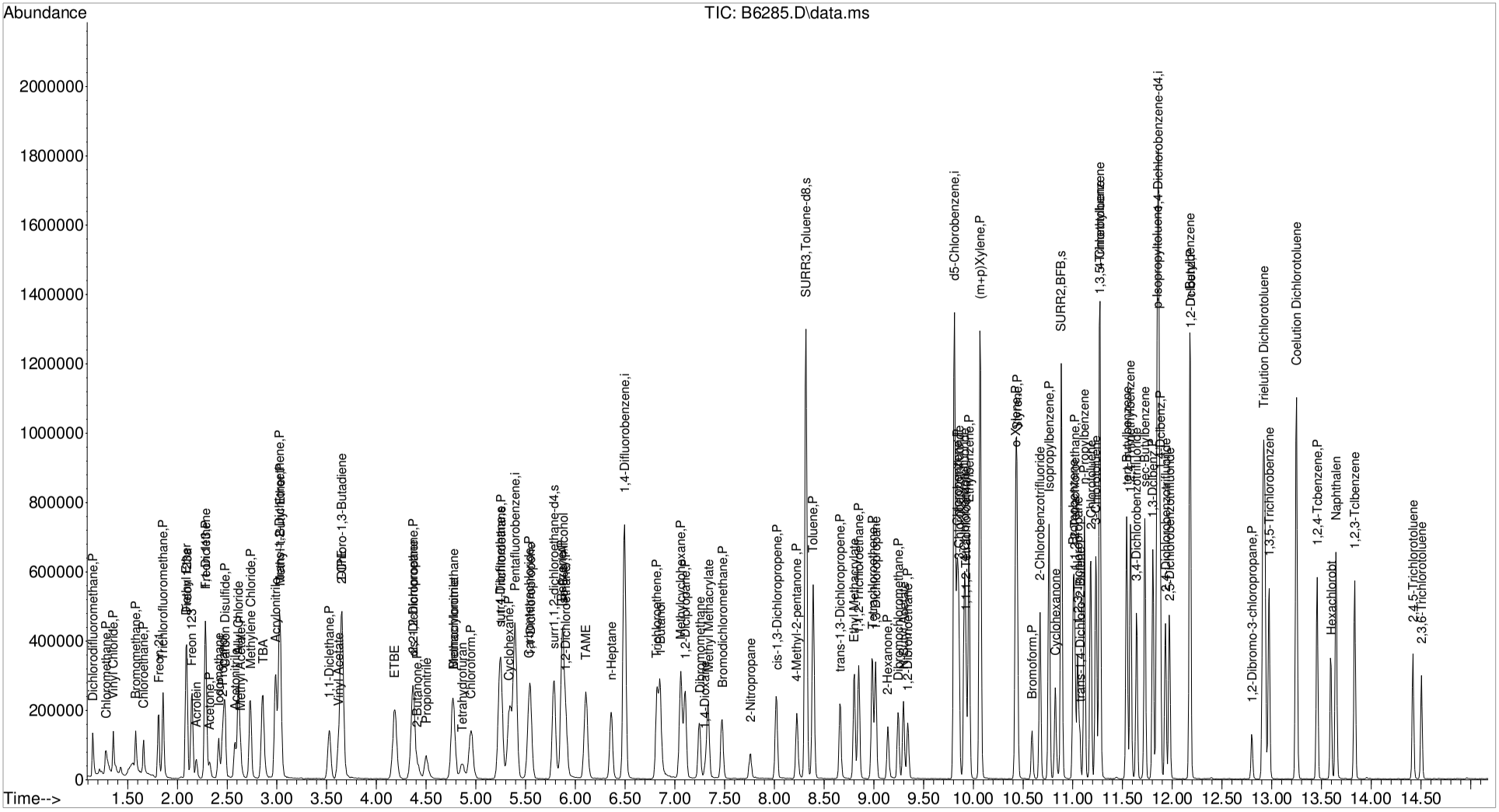
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 106) 1,4-Dclbenz | 11.877 | 146 | 201074 | 20.62 | ug/L | 98 |
| 107) 2,4-Dichlorobenzotrifl... | 11.932 | 214 | 76566 | 19.73 | ug/L | 98 |
| 108) 2,5-Dichlorobenzotrifl... | 11.975 | 214 | 88660 | 20.48 | ug/L | 94 |
| 109) n-Butylbenzene | 12.176 | 91 | 278668 | 20.15 | ug/L | 99 |
| 110) 1,2-Dclbenz | 12.182 | 146 | 195846 | 21.11 | ug/L | 99 |
| 111) 1,2-Dibromo-3-chloropr... | 12.798 | 157 | 21457 | 19.63 | ug/L | 86 |
| 112) Trielution Dichlorotol... | 12.920 | 125 | 462664 | 59.84 | ug/L | 95 |
| 113) 1,3,5-Trichlorobenzene | 12.975 | 180 | 125690 | 19.85 | ug/L | 96 |
| 114) Coelution Dichlorotoluene | 13.249 | 125 | 342282 | 40.78 | ug/L | 98 |
| 115) 1,2,4-Tcbenzene | 13.456 | 180 | 124208 | 21.25 | ug/L | 96 |
| 116) Hexachlorobt | 13.597 | 225 | 45177 | 22.98 | ug/L | 94 |
| 117) Naphthalen | 13.645 | 128 | 383901 | 23.68 | ug/L | 97 |
| 118) 1,2,3-Tclbenzene | 13.834 | 180 | 124064 | 21.91 | ug/L | 99 |
| 119) 2,4,5-Trichlorotoluene | 14.420 | 159 | 68078 | 19.33 | ug/L | 98 |
| 120) 2,3,6-Trichlorotoluene | 14.505 | 159 | 54275 | 18.38 | ug/L | 90 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\092522\
Data File : B6285.D
Acq On : 25 Sep 2022 8:29 pm
Operator : K.Ruest
Sample : LCSD-FP Inst : MSVOA10
Misc :
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Sep 26 09:06:25 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Sep 08 14:38:30 2022
Response via : Initial Calibration








1st 09/26/22
2nd 09/28/22

# Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\msvoa10\data\092522\
Data File : B6283.D
Acq On : 25 Sep 2022 7:46 pm
Operator : K.Ruest
Sample : CCV Inst : MSVOA10
Misc :
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Sep 26 09:03:26 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Sep 08 14:38:30 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | i | Pentafluorobenzene | 50.000 | 50.000 | 0.0 | 98 | 0.00 |
| 2 | | Chlorodifluoromethane | 50.000 | 0.000 | 100.0# | 0 | -1.17# |
| 3 | P | Dichlorodifluoromethane | 50.000 | 42.136 | 15.7 | 79 | 0.00 |
| 4 | P | Chloromethane | 50.000 | 42.071 | 15.9 | 90 | 0.00 |
| 5 | P | Vinyl Chloride | 50.000 | 43.971 | 12.1 | 87 | 0.00 |
| 6 | P | Bromomethane | 50.000 | 48.788 | 2.4 | 87 | 0.00 |
| 7 | P | Chloroethane | 50.000 | 39.295 | 21.4# | 87 | 0.00 |
| 8 | | Freon 21 | 50.000 | 41.438 | 17.1 | 84 | 0.00 |
| 9 | P | Trichlorofluoromethane | 50.000 | 44.514 | 11.0 | 93 | 0.00 |
| 10 | | Diethyl Ether | 50.000 | 43.457 | 13.1 | 86 | 0.00 |
| 11 | | Freon 123a | 50.000 | 41.595 | 16.8 | 87 | 0.00 |
| 12 | | Freon 123 | 50.000 | 43.029 | 13.9 | 89 | 0.00 |
| 13 | | Acrolein | 250.000 | 200.994 | 19.6 | 75 | 0.00 |
| 14 | | 1,1-Diclethene | 50.000 | 44.627 | 10.7 | 95 | 0.00 |
| 15 | P | Freon 113 | 50.000 | 40.899 | 18.2 | 91 | 0.00 |
| 16 | P | Acetone | 50.000 | 43.268 | 13.5 | 85 | 0.00 |
| 17 | | 2-Propanol | 1000.000 | 783.424 | 21.7# | 76 | 0.00 |
| 18 | | Iodomethane | 50.000 | 48.104 | 3.8 | 91 | 0.00 |
| 19 | P | Carbon Disulfide | 50.000 | 42.558 | 14.9 | 83 | 0.00 |
| 20 | | Acetonitrile | 250.000 | 224.342 | 10.3 | 83 | 0.00 |
| 21 | | Allyl Chloride | 50.000 | 40.113 | 19.8 | 85 | 0.00 |
| 22 | P | Methyl Acetate | 50.000 | 42.273 | 15.5 | 84 | 0.00 |
| 23 | P | Methylene Chloride | 50.000 | 41.755 | 16.5 | 88 | 0.00 |
| 24 | | TBA | 1000.000 | 815.997 | 18.4 | 79 | 0.00 |
| 25 | | Acrylonitrile | 250.000 | 213.670 | 14.5 | 79 | 0.00 |
| 26 | P | Methyl-t-Butyl Ether | 50.000 | 43.256 | 13.5 | 85 | 0.00 |
| 27 | P | trans-1,2-Dichloroethene | 50.000 | 45.465 | 9.1 | 95 | 0.00 |
| 28 | P | 1,1-Diclethane | 50.000 | 44.844 | 10.3 | 89 | 0.00 |
| 29 | | Vinyl Acetate | 50.000 | 44.372 | 11.3 | 83 | 0.00 |
| 30 | | DIPE | 50.000 | 42.115 | 15.8 | 79 | 0.00 |
| 31 | | 2-Chloro-1,3-Butadiene | 50.000 | 45.129 | 9.7 | 86 | 0.00 |
| 32 | | ETBE | 50.000 | 42.843 | 14.3 | 83 | 0.00 |
| 33 | | 2,2-Dichloropropane | 50.000 | 39.650 | 20.7# | 79 | 0.00 |
| 34 | P | cis-1,2-Dichloroethene | 50.000 | 44.448 | 11.1 | 91 | 0.00 |
| 35 | P | 2-Butanone | 50.000 | 39.767 | 20.5# | 77 | 0.00 |
| 36 | | Propionitrile | 250.000 | 223.302 | 10.7 | 80 | 0.00 |
| 37 | | Bromochloromethane | 50.000 | 47.536 | 4.9 | 95 | 0.00 |
| 38 | | Methacrylonitrile | 50.000 | 43.029 | 13.9 | 84 | 0.00 |
| 39 | | Tetrahydrofuran | 50.000 | 39.501 | 21.0# | 79 | 0.00 |
| 40 | P | Chloroform | 50.000 | 43.789 | 12.4 | 89 | 0.00 |
| 41 | P | 1,1,1-Trichloroethane | 50.000 | 46.722 | 6.6 | 96 | 0.00 |
| 42 | i | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 90 | 0.00 |
| 43 | P | Cyclohexane | 50.000 | 47.335 | 5.3 | 88 | 0.00 |
| 44 | s | surr4,Dibrflmethane | 50.000 | 49.563 | 0.9 | 90 | -0.01 |
| 45 | P | Carbontetrachloride | 50.000 | 50.604 | -1.2 | 95 | 0.00 |
| 46 | | 1,1-Dichloropropene | 50.000 | 47.514 | 5.0 | 90 | 0.00 |
| 47 | s | surr1,1,2-dichloroethane-d4 | 50.000 | 47.755 | 4.5 | 84 | 0.00 |
| 48 | P | Benzene | 50.000 | 49.069 | 1.9 | 92 | 0.00 |
| 49 | P | 1,2-Dichloroethane | 50.000 | 50.011 | -0.0 | 88 | 0.00 |
| 50 | | Iso-Butyl Alcohol | 1000.000 | 906.838 | 9.3 | 78 | 0.00 |
| 51 | | TAME | 50.000 | 45.892 | 8.2 | 78 | 0.00 |

# Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\msvoa10\data\092522\
Data File : B6283.D
Acq On : 25 Sep 2022 7:46 pm
Operator : K.Ruest
Sample : CCV Inst : MSVOA10
Misc :
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Sep 26 09:03:26 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Sep 08 14:38:30 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 52 | | n-Heptane | 50.000 | 42.126 | 15.7 | 85 | 0.00 |
| 53 | | 1-Butanol | 2500.000 | 2350.876 | 6.0 | 76 | 0.00 |
| 54 | P | Trichloroethene | 50.000 | 53.664 | -7.3 | 101 | 0.00 |
| 55 | P | Methylcyclohexane | 50.000 | 45.711 | 8.6 | 86 | 0.00 |
| 56 | P | 1,2-Diclpropane | 50.000 | 49.011 | 2.0 | 86 | 0.00 |
| 57 | | Dibromomethane | 50.000 | 46.168 | 7.7 | 88 | 0.00 |
| 58 | | 1,4-Dioxane | 1000.000 | 880.463 | 12.0 | 80 | 0.00 |
| 59 | | Methyl Methacrylate | 50.000 | 49.002 | 2.0 | 83 | 0.00 |
| 60 | P | Bromodichloromethane | 50.000 | 48.764 | 2.5 | 88 | 0.00 |
| 61 | | 2-Nitropropane | 100.000 | 91.785 | 8.2 | 80 | 0.00 |
| 62 | | 2-Chloroethylvinyl Ether | 50.000 | 48.778 | 2.4 | 81 | 0.00 |
| 63 | P | cis-1,3-Dichloropropene | 50.000 | 49.359 | 1.3 | 83 | 0.00 |
| 64 | P | 4-Methyl-2-pentanone | 50.000 | 47.930 | 4.1 | 81 | 0.00 |
| 65 | s | SURR3,Toluene-d8 | 50.000 | 50.409 | -0.8 | 92 | 0.00 |
| 66 | P | Toluene | 50.000 | 50.211 | -0.4 | 93 | 0.00 |
| 67 | P | trans-1,3-Dichloropropene | 50.000 | 51.346 | -2.7 | 83 | 0.00 |
| 68 | | Ethyl Methacrylate | 50.000 | 51.685 | -3.4 | 84 | 0.00 |
| 69 | P | 1,1,2-Trichloroethane | 50.000 | 50.835 | -1.7 | 91 | 0.00 |
| 70 | s | SURR2,BFB | 50.000 | 51.631 | -3.3 | 91 | 0.00 |
| 71 | i | d5-Chlorobenzene | 50.000 | 50.000 | 0.0 | 92 | 0.00 |
| 72 | P | Tetrachloroethene | 50.000 | 51.439 | -2.9 | 105 | 0.00 |
| 73 | P | 2-Hexanone | 50.000 | 45.152 | 9.7 | 81 | 0.00 |
| 74 | | 1,3-Dichloropropane | 50.000 | 46.289 | 7.4 | 86 | 0.00 |
| 75 | P | Dibromochloromethane | 50.000 | 49.975 | 0.0 | 90 | 0.00 |
| 76 | | N-Butyl Acetate | 50.000 | 47.436 | 5.1 | 80 | 0.00 |
| 77 | P | 1,2-Dibromoethane | 50.000 | 50.922 | -1.8 | 90 | 0.00 |
| 78 | | 3-Chlorobenzotrifluoride | 50.000 | 50.054 | -0.1 | 91 | 0.00 |
| 79 | P | Chlorobenzene | 50.000 | 52.021 | -4.0 | 96 | 0.00 |
| 80 | | 4-Chlorobenzotrifluoride | 50.000 | 49.823 | 0.4 | 89 | 0.00 |
| 81 | | 1,1,1,2-Tetrachloroethane | 50.000 | 52.654 | -5.3 | 99 | 0.00 |
| 82 | P | Ethylbenzene | 50.000 | 50.067 | -0.1 | 95 | 0.00 |
| 83 | P | (m+p)Xylene | 100.000 | 98.726 | 1.3 | 96 | 0.00 |
| 84 | P | o-Xylene | 50.000 | 50.007 | -0.0 | 94 | 0.00 |
| 85 | P | Styrene | 50.000 | 52.901 | -5.8 | 94 | 0.00 |
| 86 | P | Bromoform | 50.000 | 52.594 | -5.2 | 86 | 0.00 |
| 87 | | 2-Chlorobenzotrifluoride | 50.000 | 51.804 | -3.6 | 90 | 0.00 |
| 88 | P | Isopropylbenzene | 50.000 | 51.633 | -3.3 | 97 | 0.00 |
| 89 | | Cyclohexanone | 1000.000 | 681.862 | 31.8# | 68 | 0.00 |
| 90 | | trans-1,4-Dichloro-2-Butene | 50.000 | 43.305 | 13.4 | 79 | 0.00 |
| 91 | i | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 95 | 0.00 |
| 92 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 43.883 | 12.2 | 84 | 0.00 |
| 93 | | Bromobenzene | 50.000 | 47.890 | 4.2 | 98 | 0.00 |
| 94 | | 1,2,3-Trichloropropane | 50.000 | 47.523 | 5.0 | 91 | 0.00 |
| 95 | | n-Propylbenzene | 50.000 | 46.392 | 7.2 | 95 | 0.00 |
| 96 | | 2-Chlorotoluene | 50.000 | 45.087 | 9.8 | 92 | 0.00 |
| 97 | | 3-Chlorotoluene | 50.000 | 46.944 | 6.1 | 83 | 0.00 |
| 98 | | 4-Chlorotoluene | 50.000 | 45.742 | 8.5 | 93 | 0.00 |
| 99 | | 1,3,5-Trimethylbenzene | 50.000 | 47.030 | 5.9 | 95 | 0.00 |
| 100 | | tert-Butylbenzene | 50.000 | 48.452 | 3.1 | 98 | 0.00 |
| 101 | | 1,2,4-Trimethylbenzene | 50.000 | 47.605 | 4.8 | 94 | 0.00 |

# Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\msvoa10\data\092522\
Data File : B6283.D
Acq On : 25 Sep 2022 7:46 pm
Operator : K.Ruest
Sample : CCV Inst : MSVOA10
Misc :
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Sep 26 09:03:26 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Sep 08 14:38:30 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 102 | | 3,4-Dichlorobenzotrifluorid | 50.000 | 44.049 | 11.9 | 85 | 0.00 |
| 103 | | sec-Butylbenzene | 50.000 | 47.557 | 4.9 | 96 | 0.00 |
| 104 | | p-Isopropyltoluene | 50.000 | 49.280 | 1.4 | 97 | 0.00 |
| 105 | P | 1,3-Dclbenz | 50.000 | 50.049 | -0.1 | 97 | 0.00 |
| 106 | P | 1,4-Dclbenz | 50.000 | 46.593 | 6.8 | 97 | 0.00 |
| 107 | | 2,4-Dichlorobenzotrifluorid | 50.000 | 45.434 | 9.1 | 87 | 0.00 |
| 108 | | 2,5-Dichlorobenzotrifluorid | 50.000 | 46.519 | 7.0 | 89 | 0.00 |
| 109 | | n-Butylbenzene | 50.000 | 46.689 | 6.6 | 92 | 0.00 |
| 110 | P | 1,2-Dclbenz | 50.000 | 49.194 | 1.6 | 97 | 0.00 |
| 111 | P | 1,2-Dibromo-3-chloropropane | 50.000 | 47.180 | 5.6 | 85 | 0.00 |
| 112 | | Trielution Dichlorotoluene | 150.000 | 143.468 | 4.4 | 86 | 0.00 |
| 113 | | 1,3,5-Trichlorobenzene | 50.000 | 48.699 | 2.6 | 93 | 0.00 |
| 114 | | Coelution Dichlorotoluene | 100.000 | 98.486 | 1.5 | 87 | 0.00 |
| 115 | P | 1,2,4-Tcbenzene | 50.000 | 51.283 | -2.6 | 98 | 0.00 |
| 116 | | Hexachlorobt | 50.000 | 51.122 | -2.2 | 109 | 0.00 |
| 117 | | Naphthalen | 50.000 | 56.448 | -12.9 | 97 | 0.00 |
| 118 | | 1,2,3-Tclbenzene | 50.000 | 55.039 | -10.1 | 103 | 0.00 |
| 119 | | 2,4,5-Trichlorotoluene | 50.000 | 44.505 | 11.0 | 85 | 0.00 |
| 120 | | 2,3,6-Trichlorotoluene | 50.000 | 51.232 | -2.5 | 85 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0

# Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\092522\
Data File : B6283.D
Acq On : 25 Sep 2022 7:46 pm
Operator : K.Ruest
Sample : CCV Inst : MSVOA10
Misc :
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Sep 26 09:03:26 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Sep 08 14:38:30 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Pentafluorobenzene | 5.397 | 168 | 404582 | 50.00 | ug/L | | 0.00 |
| 42) 1,4-Difluorobenzene | 6.494 | 114 | 619548 | 50.00 | ug/L | | 0.00 |
| 71) d5-Chlorobenzene | 9.811 | 117 | 581752 | 50.00 | ug/L | | 0.00 |
| 91) 1,4-Dichlorobenzene-d4 | 11.859 | 152 | 314439 | 50.00 | ug/L | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 44) surr4,Dibrflmethane | 5.238 | 113 | 196364 | 49.56 | ug/L | | -0.01 |
| Spiked Amount 50.000 | Range 80 - 116 | | Recovery = 99.12% | | | | |
| 47) surr1,1,2-dichloroetha... | 5.781 | 65 | 242931 | 47.75 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 73 - 125 | | Recovery = 95.50% | | | | |
| 65) SURR3,Toluene-d8 | 8.317 | 98 | 760969 | 50.41 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 87 - 121 | | Recovery = 100.82% | | | | |
| 70) SURR2,BFB | 10.884 | 95 | 293588 | 51.63 | ug/L | | 0.00 |
| Spiked Amount 50.000 | Range 85 - 122 | | Recovery = 103.26% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 3) Dichlorodifluoromethane | 1.148 | 85 | 208529 | 42.14 | ug/L | | 99 |
| 4) Chloromethane | 1.282 | 50 | 227626 | 42.07 | ug/L | | 93 |
| 5) Vinyl Chloride | 1.355 | 62 | 224739 | 43.97 | ug/L | | 96 |
| 6) Bromomethane | 1.581 | 94 | 139268 | 48.79 | ug/L | | 94 |
| 7) Chloroethane | 1.660 | 64 | 134458 | 39.30 | ug/L | | 97 |
| 8) Freon 21 | 1.806 | 67 | 332319 | 41.44 | ug/L | | 96 |
| 9) Trichlorofluoromethane | 1.855 | 101 | 292063 | 44.51 | ug/L | | 98 |
| 10) Diethyl Ether | 2.087 | 59 | 170379 | 43.46 | ug/L | | 97 |
| 11) Freon 123a | 2.093 | 67 | 205783 | 41.59 | ug/L | | 94 |
| 12) Freon 123 | 2.147 | 83 | 233257 | 43.03 | ug/L | | 98 |
| 13) Acrolein | 2.190 | 56 | 208718 | 200.99 | ug/L | | 97 |
| 14) 1,1-Diclethene | 2.282 | 96 | 160238 | 44.63 | ug/L | | 96 |
| 15) Freon 113 | 2.282 | 101 | 159549 | 40.90 | ug/L | | 93 |
| 16) Acetone | 2.324 | 43 | 103480 | 43.27 | ug/L | | 98 |
| 17) 2-Propanol | 2.458 | 45 | 338175 | 783.42 | ug/L | | 97 |
| 18) Iodomethane | 2.416 | 142 | 262315 | 48.10 | ug/L | | 94 |
| 19) Carbon Disulfide | 2.477 | 76 | 447498 | 42.56 | ug/L | | 98 |
| 20) Acetonitrile | 2.574 | 41 | 215300 | 224.34 | ug/L | | 95 |
| 21) Allyl Chloride | 2.611 | 76 | 76744 | 40.11 | ug/L | # | 94 |
| 22) Methyl Acetate | 2.635 | 43 | 244790 | 42.27 | ug/L | | 97 |
| 23) Methylene Chloride | 2.733 | 84 | 188248 | 41.75 | ug/L | | 95 |
| 24) TBA | 2.855 | 59 | 458089 | 816.00 | ug/L | | 92 |
| 25) Acrylonitrile | 2.983 | 53 | 496368 | 213.67 | ug/L | | 99 |
| 26) Methyl-t-Butyl Ether | 3.031 | 73 | 534608 | 43.26 | ug/L | | 96 |
| 27) trans-1,2-Dichloroethene | 3.025 | 96 | 179692 | 45.46 | ug/L | # | 82 |
| 28) 1,1-Diclethane | 3.525 | 63 | 330190 | 44.84 | ug/L | | 97 |
| 29) Vinyl Acetate | 3.617 | 86 | 34575 | 44.37 | ug/L | # | 66 |
| 30) DIPE | 3.653 | 45 | 677922 | 42.12 | ug/L | | 98 |
| 31) 2-Chloro-1,3-Butadiene | 3.647 | 53 | 314759 | 45.13 | ug/L | | 96 |
| 32) ETBE | 4.184 | 59 | 482792 | 42.84 | ug/L | | 98 |
| 33) 2,2-Dichloropropane | 4.360 | 77 | 153060 | 39.65 | ug/L | | 95 |
| 34) cis-1,2-Dichloroethene | 4.367 | 96 | 204961 | 44.45 | ug/L | | 95 |
| 35) 2-Butanone | 4.409 | 43 | 159126 | 39.77 | ug/L | | 93 |
| 36) Propionitrile | 4.501 | 54 | 201345 | 223.30 | ug/L | | 99 |
| 37) Bromochloromethane | 4.775 | 130 | 144503 | 47.54 | ug/L | # | 82 |
| 38) Methacrylonitrile | 4.769 | 67 | 95154 | 43.03 | ug/L | | 100 |
| 39) Tetrahydrofuran | 4.860 | 42 | 95880 | 39.50 | ug/L | | 91 |
| 40) Chloroform | 4.952 | 83 | 333320 | 43.79 | ug/L | | 99 |
| 41) 1,1,1-Trichloroethane | 5.251 | 97 | 259280 | 46.72 | ug/L | | 99 |

1st 09/26/22
2nd 09/28/22

Data Path : I:\ACQUDATA\msvoa10\data\092522\
Data File : B6283.D
Acq On : 25 Sep 2022 7:46 pm
Operator : K.Ruest
Sample : CCV Inst : MSVOA10
Misc :
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Sep 26 09:03:26 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Sep 08 14:38:30 2022
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 43) Cyclohexane | 5.342 | 41 | 230368 | 47.33 ug/L | 100 |
| 45) Carbontetrachloride | 5.531 | 117 | 208972 | 50.60 ug/L | 97 |
| 46) 1,1-Dichloropropene | 5.543 | 75 | 228996 | 47.51 ug/L | 96 |
| 48) Benzene | 5.866 | 78 | 713954 | 49.07 ug/L | 96 |
| 49) 1,2-Dichloroethane | 5.903 | 62 | 297563 | 50.01 ug/L | 98 |
| 50) Iso-Butyl Alcohol | 5.878 | 43 | 261612 | 906.84 ug/L | 93 |
| 51) TAME | 6.104 | 73 | 420332 | 45.89 ug/L | 97 |
| 52) n-Heptane | 6.360 | 43 | 220959 | 42.13 ug/L | 98 |
| 53) 1-Butanol | 6.854 | 56 | 336491 | 2350.88 ug/L | 91 |
| 54) Trichloroethene | 6.823 | 130 | 207937 | 53.66 ug/L | 91 |
| 55) Methylcyclohexane | 7.055 | 55 | 218877 | 45.71 ug/L | 94 |
| 56) 1,2-Diclpropane | 7.104 | 63 | 190023 | 49.01 ug/L | 100 |
| 57) Dibromomethane | 7.244 | 93 | 130964 | 46.17 ug/L | 93 |
| 58) 1,4-Dioxane | 7.311 | 88 | 68774 | 880.46 ug/L | 95 |
| 59) Methyl Methacrylate | 7.335 | 69 | 146084 | 49.00 ug/L | 90 |
| 60) Bromodichloromethane | 7.476 | 83 | 242017 | 48.76 ug/L | 98 |
| 61) 2-Nitropropane | 7.756 | 41 | 114841 | 91.78 ug/L | 99 |
| 62) 2-Chloroethylvinyl Ether | 7.884 | 63 | 122756 | 48.78 ug/L | 100 |
| 63) cis-1,3-Dichloropropene | 8.018 | 75 | 242225 | 49.36 ug/L | 98 |
| 64) 4-Methyl-2-pentanone | 8.226 | 43 | 308889 | 47.93 ug/L | 96 |
| 66) Toluene | 8.390 | 91 | 814954 | 50.21 ug/L | 97 |
| 67) trans-1,3-Dichloropropene | 8.658 | 75 | 202686 | 51.35 ug/L | 98 |
| 68) Ethyl Methacrylate | 8.805 | 69 | 257890 | 51.68 ug/L | 92 |
| 69) 1,1,2-Trichloroethane | 8.847 | 97 | 190265 | 50.84 ug/L | 97 |
| 72) Tetrachloroethene | 8.982 | 164 | 150501 | 51.44 ug/L | 94 |
| 73) 2-Hexanone | 9.140 | 43 | 218692 | 45.15 ug/L | 98 |
| 74) 1,3-Dichloropropane | 9.018 | 76 | 307802 | 46.29 ug/L | 96 |
| 75) Dibromochloromethane | 9.244 | 129 | 199585 | 49.98 ug/L | 99 |
| 76) N-Butyl Acetate | 9.299 | 43 | 441285 | 47.44 ug/L | 99 |
| 77) 1,2-Dibromoethane | 9.341 | 107 | 195964 | 50.92 ug/L | 99 |
| 78) 3-Chlorobenzotrifluoride | 9.853 | 180 | 266409 | 50.05 ug/L | 97 |
| 79) Chlorobenzene | 9.835 | 112 | 558749 | 52.02 ug/L | 97 |
| 80) 4-Chlorobenzotrifluoride | 9.908 | 180 | 236866 | 49.82 ug/L | 99 |
| 81) 1,1,1,2-Tetrachloroethane | 9.920 | 131 | 184496 | 52.65 ug/L | 96 |
| 82) Ethylbenzene | 9.957 | 106 | 282602 | 50.07 ug/L | 98 |
| 83) (m+p)Xylene | 10.067 | 106 | 692783 | 98.73 ug/L | 95 |
| 84) o-Xylene | 10.426 | 106 | 345381 | 50.01 ug/L | 95 |
| 85) Styrene | 10.439 | 104 | 604398 | 52.90 ug/L | 98 |
| 86) Bromoform | 10.591 | 173 | 115298 | 52.59 ug/L | 85 |
| 87) 2-Chlorobenzotrifluoride | 10.670 | 180 | 277531 | 51.80 ug/L | 97 |
| 88) Isopropylbenzene | 10.762 | 105 | 851224 | 51.63 ug/L | 98 |
| 89) Cyclohexanone | 10.823 | 55 | 478048 | 681.86 ug/L | 97 |
| 90) trans-1,4-Dichloro-2-B... | 11.073 | 53 | 46464 | 43.30 ug/L | 98 |
| 92) 1,1,2,2-Tetrachloroethane | 11.018 | 83 | 265480 | 43.88 ug/L | 99 |
| 93) Bromobenzene | 11.006 | 156 | 248356 | 47.89 ug/L | 95 |
| 94) 1,2,3-Trichloropropane | 11.048 | 110 | 92981 | 47.52 ug/L | 92 |
| 95) n-Propylbenzene | 11.115 | 91 | 1031699 | 46.39 ug/L | 98 |
| 96) 2-Chlorotoluene | 11.182 | 91 | 617052 | 45.09 ug/L | 99 |
| 97) 3-Chlorotoluene | 11.231 | 91 | 663141 | 46.94 ug/L | 94 |
| 98) 4-Chlorotoluene | 11.274 | 91 | 717202 | 45.74 ug/L | 99 |
| 99) 1,3,5-Trimethylbenzene | 11.268 | 105 | 768036 | 47.03 ug/L | 99 |
| 100) tert-Butylbenzene | 11.542 | 119 | 643745 | 48.45 ug/L | 98 |
| 101) 1,2,4-Trimethylbenzene | 11.579 | 105 | 754144 | 47.61 ug/L | 99 |
| 102) 3,4-Dichlorobenzotrifl... | 11.640 | 214 | 194069 | 44.05 ug/L | 95 |
| 103) sec-Butylbenzene | 11.725 | 105 | 902589 | 47.56 ug/L | 98 |
| 104) p-Isopropyltoluene | 11.847 | 119 | 790352 | 49.28 ug/L | 98 |

# Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\092522\
Data File : B6283.D
Acq On : 25 Sep 2022 7:46 pm
Operator : K.Ruest
Sample : CCV Inst : MSVOA10
Misc :
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Sep 26 09:03:26 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Sep 08 14:38:30 2022
Response via : Initial Calibration

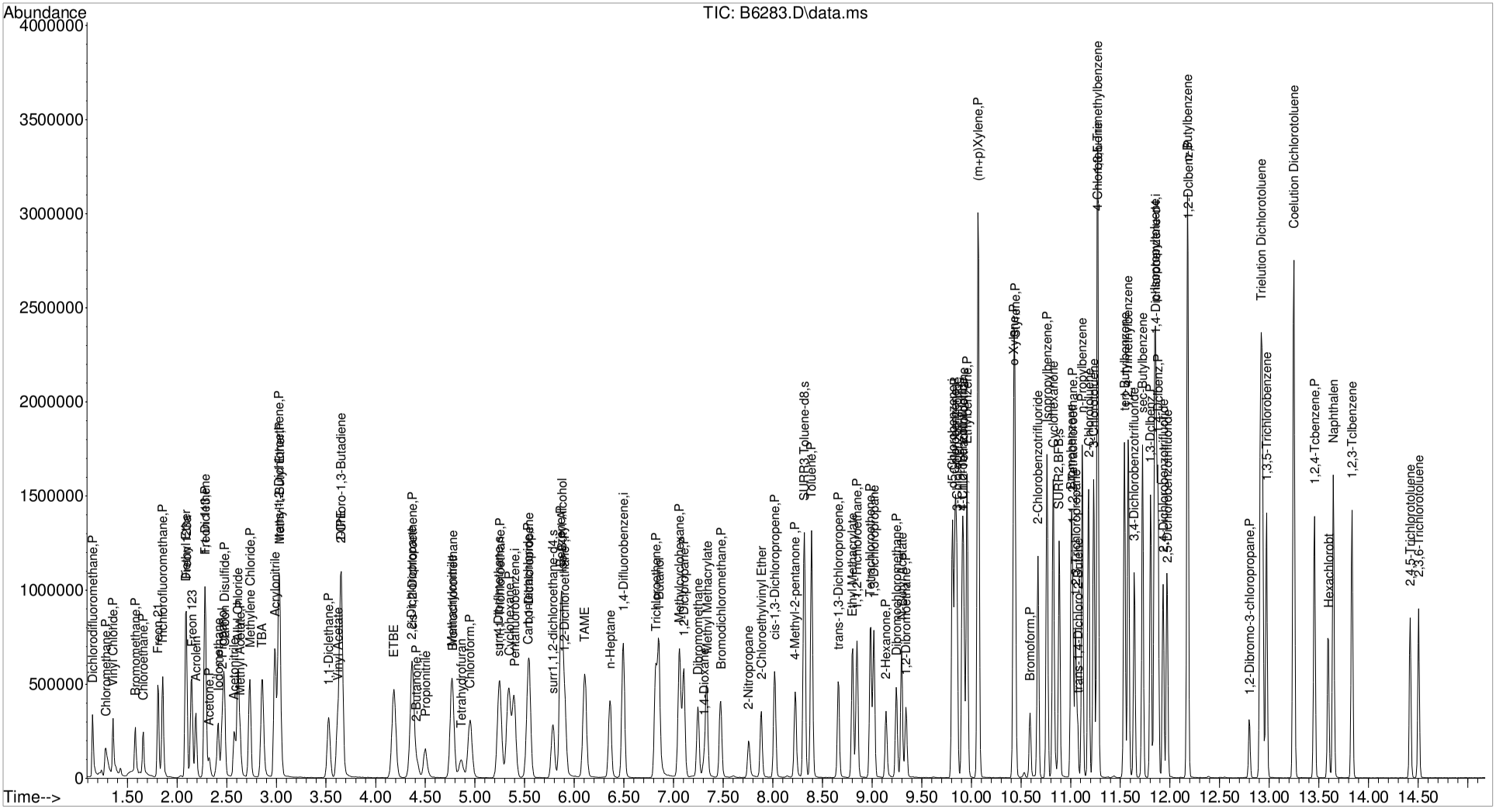
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 105) 1,3-Dclbenz | 11.804 | 146 | 454069 | 50.05 | ug/L | 98 |
| 106) 1,4-Dclbenz | 11.877 | 146 | 462515 | 46.59 | ug/L | 97 |
| 107) 2,4-Dichlorobenzotrifl... | 11.932 | 214 | 179515 | 45.43 | ug/L | 98 |
| 108) 2,5-Dichlorobenzotrifl... | 11.975 | 214 | 205033 | 46.52 | ug/L | 97 |
| 109) n-Butylbenzene | 12.176 | 91 | 657252 | 46.69 | ug/L | 99 |
| 110) 1,2-Dclbenz | 12.182 | 146 | 464571 | 49.19 | ug/L | 95 |
| 111) 1,2-Dibromo-3-chloropr... | 12.804 | 157 | 52493 | 47.18 | ug/L | 92 |
| 112) Trielution Dichlorotol... | 12.920 | 125 | 1129131 | 143.47 | ug/L | 94 |
| 113) 1,3,5-Trichlorobenzene | 12.975 | 180 | 313885 | 48.70 | ug/L | 98 |
| 114) Coelution Dichlorotoluene | 13.249 | 125 | 841448 | 98.49 | ug/L | 98 |
| 115) 1,2,4-Tcbenzene | 13.456 | 180 | 305132 | 51.28 | ug/L | 97 |
| 116) Hexachlorobt | 13.596 | 225 | 103484 | 51.12 | ug/L | 98 |
| 117) Naphthalen | 13.645 | 128 | 931431 | 56.45 | ug/L | 99 |
| 118) 1,2,3-Tclbenzene | 13.834 | 180 | 317241 | 55.04 | ug/L | 97 |
| 119) 2,4,5-Trichlorotoluene | 14.419 | 159 | 163387 | 44.51 | ug/L | 99 |
| 120) 2,3,6-Trichlorotoluene | 14.505 | 159 | 154037 | 51.23 | ug/L | 97 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\092522\
Data File : B6283.D
Acq On : 25 Sep 2022 7:46 pm
Operator : K.Ruest
Sample : CCV Inst : MSVOA10
Misc :
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Sep 26 09:03:26 2022
Quant Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge
QLast Update : Thu Sep 08 14:38:30 2022
Response via : Initial Calibration







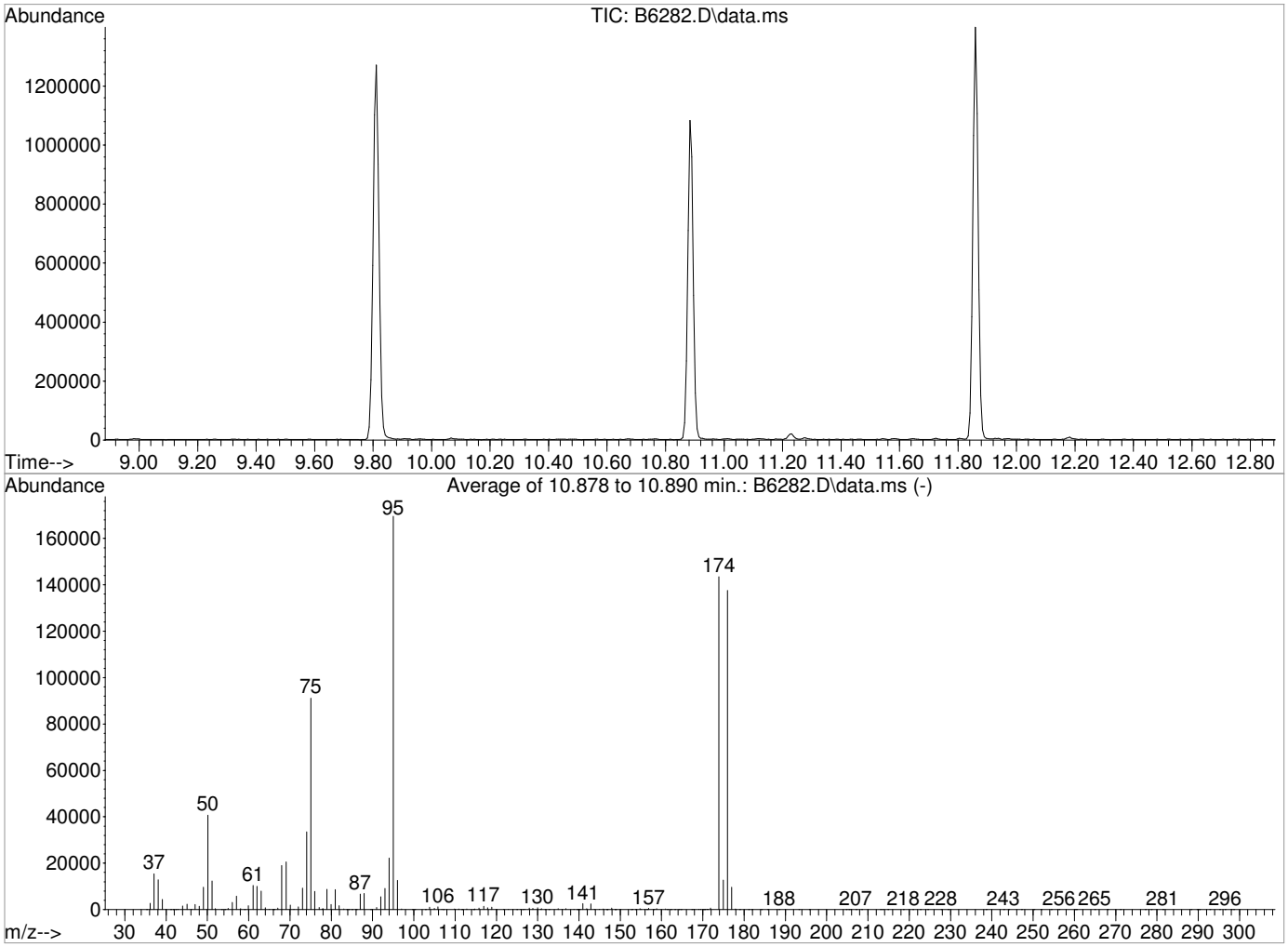

1st 09/26/22
2nd 09/28/22

1st 09/26/22
2nd 09/28/22

Data Path : I:\ACQUDATA\msvoa10\data\092522\
Data File : B6282.D
Acq On : 25 Sep 2022 7:24 pm
Operator : K.Ruest
Sample : TUNE Inst : MSVOA10
Misc :
ALS Vial : 28 Sample Multiplier: 1

Integration File: RTEINT.P

Method : I:\ACQUDATA\msvoa10\Methods\W090822.M
Title : MS#10 - 8260B WATERS 5.0mL Purge
Last Update : Thu Sep 08 14:38:30 2022




AutoFind: Scans 1606, 1607, 1608; Background Corrected with Scan 1597

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 24.0 | 40701 | PASS |
| 75 | 95 | 30 | 60 | 53.8 | 91165 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 169536 | PASS |
| 96 | 95 | 5 | 9 | 7.4 | 12544 | PASS |
| 173 | 174 | 0.00 | 2 | 0.0 | 0 | PASS |
| 174 | 95 | 50 | 120 | 84.6 | 143461 | PASS |
| 175 | 174 | 5 | 9 | 8.9 | 12737 | PASS |
| 176 | 174 | 95 | 101 | 95.9 | 137592 | PASS |
| 177 | 176 | 5 | 9 | 7.0 | 9632 | PASS |

**Client:** Verina Consulting Group, LLC **Service Request:** R2208794
**Project:** Dover - Kirkwood **Calibration Date:** 9/8/2022

# Initial Calibration Summary
# Volatile Organic Compounds by GC/MS

**Calibration ID:** RC2200096 **Signal ID:** 1
**Instrument ID:** R-MS-10

| # | Lab Code | Sample Name | File Location | Acquisition Date |
|---|---|---|---|---|
| 01 | RC2200096-01 | 0.5 PPB STD | I:\ACQUDATA\msvoa10\data\090822\B5578.D | 09/08/2022 10:35 |
| 02 | RC2200096-02 | 1 PPB STD | I:\ACQUDATA\msvoa10\data\090822\B5579.D | 09/08/2022 10:56 |
| 03 | RC2200096-03 | 2 PPB STD | I:\ACQUDATA\msvoa10\data\090822\B5580.D | 09/08/2022 11:18 |
| 04 | RC2200096-04 | 5 PPB STD | I:\ACQUDATA\msvoa10\data\090822\B5581.D | 09/08/2022 11:40 |
| 05 | RC2200096-05 | 20 PPB STD | I:\ACQUDATA\msvoa10\data\090822\B5582.D | 09/08/2022 12:02 |
| 06 | RC2200096-06 | 50 PPB STD | I:\ACQUDATA\msvoa10\data\090822\B5583.D | 09/08/2022 12:24 |
| 07 | RC2200096-07 | 100 PPB STD | I:\ACQUDATA\msvoa10\data\090822\B5584.D | 09/08/2022 12:46 |
| 08 | RC2200096-08 | 150 PPB STD | I:\ACQUDATA\msvoa10\data\090822\B5585.D | 09/08/2022 13:08 |
| 09 | RC2200096-09 | 200 PPB STD | I:\ACQUDATA\msvoa10\data\090822\B5586.D | 09/08/2022 13:29 |

## Analyte

**1,1,1-Trichloroethane (TCA)**

| # | Amount | RF | # | Amount | RF | # | Amount | RF | # | Amount | RF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 | 0.500 | 0.5885 | 02 | 1.000 | 0.5974 | 03 | 2.000 | 0.7619 | 04 | 5.000 | 0.6684 |
| 05 | 20.000 | 0.6675 | 06 | 50.000 | 0.655 | 07 | 100.000 | 0.7276 | 08 | 150.000 | 0.7513 |
| 09 | 200.000 | 0.7549 | | | | | | | | | |

**1,1-Dichloroethane (1,1-DCA)**

| # | Amount | RF | # | Amount | RF | # | Amount | RF | # | Amount | RF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 | 0.500 | 0.9224 | 02 | 1.000 | 0.8318 | 03 | 2.000 | 0.981 | 04 | 5.000 | 0.9196 |
| 05 | 20.000 | 0.8881 | 06 | 50.000 | 0.8907 | 07 | 100.000 | 0.9295 | 08 | 150.000 | 0.9231 |
| 09 | 200.000 | 0.9034 | | | | | | | | | |

**1,1-Dichloroethene (1,1-DCE)**

| # | Amount | RF | # | Amount | RF | # | Amount | RF | # | Amount | RF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 | 0.500 | 0.4807 | 02 | 1.000 | 0.4381 | 03 | 2.000 | 0.4588 | 04 | 5.000 | 0.4825 |
| 05 | 20.000 | 0.4086 | 06 | 50.000 | 0.407 | 07 | 100.000 | 0.4338 | 08 | 150.000 | 0.4469 |
| 09 | 200.000 | 0.4373 | | | | | | | | | |

**4-Bromofluorobenzene**

| # | Amount | RF | # | Amount | RF | # | Amount | RF | # | Amount | RF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 04 | 10.000 | 0.511 | 05 | 20.000 | 0.4267 | 06 | 50.000 | 0.4661 | 07 | 100.000 | 0.4646 |
| 08 | 200.000 | 0.4262 | | | | | | | | | |

**Dibromofluoromethane**

| # | Amount | RF | # | Amount | RF | # | Amount | RF | # | Amount | RF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 04 | 10.000 | 0.3607 | 05 | 20.000 | 0.3078 | 06 | 50.000 | 0.3181 | 07 | 100.000 | 0.3199 |
| 08 | 200.000 | 0.2922 | | | | | | | | | |

**Tetrachloroethene (PCE)**

| # | Amount | RF | # | Amount | RF | # | Amount | RF | # | Amount | RF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 | 0.500 | 0.2818 | 02 | 1.000 | 0.2959 | 03 | 2.000 | 0.2373 | 04 | 5.000 | 0.2618 |
| 05 | 20.000 | 0.2224 | 06 | 50.000 | 0.226 | 07 | 100.000 | 0.2373 | 08 | 150.000 | 0.2473 |
| 09 | 200.000 | 0.2535 | | | | | | | | | |

**Client:** Verina Consulting Group, LLC **Service Request:** R2208794
**Project:** Dover - Kirkwood **Calibration Date:** 9/8/2022

# Initial Calibration Summary
# Volatile Organic Compounds by GC/MS

**Calibration ID:** RC2200096 **Signal ID:** 1
**Instrument ID:** R-MS-10

## Analyte

**Toluene-d8**

| # | Amount | RF | # | Amount | RF | # | Amount | RF | # | Amount | RF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 04 | 10.000 | 1.412 | 05 | 20.000 | 1.183 | 06 | 50.000 | 1.203 | 07 | 100.000 | 1.211 |
| 08 | 200.000 | 1.083 | | | | | | | | | |

**Trichloroethene (TCE)**

| # | Amount | RF | # | Amount | RF | # | Amount | RF | # | Amount | RF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 | 0.500 | 0.3014 | 02 | 1.000 | 0.3341 | 03 | 2.000 | 0.3264 | 04 | 5.000 | 0.3071 |
| 05 | 20.000 | 0.3006 | 06 | 50.000 | 0.2991 | 07 | 100.000 | 0.3134 | 08 | 150.000 | 0.3122 |
| 09 | 200.000 | 0.3203 | | | | | | | | | |

**Vinyl Chloride**

| # | Amount | RF | # | Amount | RF | # | Amount | RF | # | Amount | RF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 | 0.500 | 0.6676 | 02 | 1.000 | 0.6071 | 03 | 2.000 | 0.6884 | 04 | 5.000 | 0.6329 |
| 05 | 20.000 | 0.6132 | 06 | 50.000 | 0.6229 | 07 | 100.000 | 0.6286 | 08 | 150.000 | 0.613 |
| 09 | 200.000 | 0.6111 | | | | | | | | | |

**cis-1,2-Dichloroethene**

| # | Amount | RF | # | Amount | RF | # | Amount | RF | # | Amount | RF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 | 0.500 | 0.6387 | 02 | 1.000 | 0.6147 | 03 | 2.000 | 0.5923 | 04 | 5.000 | 0.5489 |
| 05 | 20.000 | 0.5283 | 06 | 50.000 | 0.5429 | 07 | 100.000 | 0.5539 | 08 | 150.000 | 0.5507 |
| 09 | 200.000 | 0.5585 | | | | | | | | | |

**trans-1,2-Dichloroethene**

| # | Amount | RF | # | Amount | RF | # | Amount | RF | # | Amount | RF |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 | 0.500 | 0.4053 | 02 | 1.000 | 0.5708 | 03 | 2.000 | 0.5484 | 04 | 5.000 | 0.4941 |
| 05 | 20.000 | 0.4657 | 06 | 50.000 | 0.4562 | 07 | 100.000 | 0.4836 | 08 | 150.000 | 0.4915 |
| 09 | 200.000 | 0.4806 | | | | | | | | | |

**Client:** Verina Consulting Group, LLC **Service Request:** R2208794
**Project:** Dover - Kirkwood **Calibration Date:** 9/8/2022

# Initial Calibration Summary
# Volatile Organic Compounds by GC/MS

**Calibration ID:** RC2200096 **Signal ID:** 1
**Instrument ID:** R-MS-10

| | | Calibration Evaluation | | | | Calibration Evaluation | |
|---|---|---|---|---|---|---|---|
| Analyte Name | Compound Type | Fit Type | Eval | Eval Result | Control Criteria | Average RRF | Minimum RRF |
| 1,1,1-Trichloroethane (TCA) | TRG | Average RF | % RSD | 9.7 | ≤20 | 0.6858 | 0.100 |
| 1,1-Dichloroethane (1,1-DCA) | TRG | Average RF | % RSD | 4.4 | ≤20 | 0.91 | 0.200 |
| 1,1-Dichloroethene (1,1-DCE) | TRG | Average RF | % RSD | 6.1 | ≤20 | 0.4437 | 0.100 |
| 4-Bromofluorobenzene | SURR | Average RF | % RSD | 7.6 | ≤20 | 0.4589 | |
| Dibromofluoromethane | SURR | Average RF | % RSD | 8.0 | ≤20 | 0.3197 | |
| Tetrachloroethene (PCE) | TRG | Average RF | % RSD | 9.9 | ≤20 | 0.2515 | 0.200 |
| Toluene-d8 | SURR | Average RF | % RSD | 9.8 | ≤20 | 1.218 | |
| Trichloroethene (TCE) | TRG | Average RF | % RSD | 3.9 | ≤20 | 0.3127 | 0.200 |
| Vinyl Chloride | TRG | Average RF | % RSD | 4.4 | ≤20 | 0.6316 | 0.100 |
| cis-1,2-Dichloroethene | TRG | Average RF | % RSD | 6.5 | ≤20 | 0.5699 | 0.100 |
| trans-1,2-Dichloroethene | TRG | Average RF | % RSD | 10.0 | ≤20 | 0.4884 | 0.100 |

**Client:** Verina Consulting Group, LLC **Service Request:** R2208794
**Project:** Dover - Kirkwood **Calibration Date:** 9/8/2022

# Initial Calibration Verification Summary
# Volatile Organic Compounds by GC/MS

**Calibration ID:** RC2200096 **Signal ID:** 1
**Instrument ID:** R-MS-10

| # | Lab Code | Sample Name | File Location | Acquisition Date |
|---|---|---|---|---|
| 10 | RC2200096-10 | 50 PPB ICV | I:\ACQUDATA\msvoa10\data\090822\B5590.D | 09/08/2022 14:57 |

| Analyte Name | Expected | Result | Average RF | SSV RF | % D | Criteria | Curve Fit |
|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane (TCA) | 50.0 | 53.6 | 6.858E-1 | 7.35E-1 | 7.17 | ±30 | Average RF |
| 1,1-Dichloroethane (1,1-DCA) | 50.0 | 54.4 | 9.1E-1 | 9.898E-1 | 8.78 | ±30 | Average RF |
| 1,1-Dichloroethene (1,1-DCE) | 50.0 | 54.0 | 4.437E-1 | 4.794E-1 | 8.04 | ±30 | Average RF |
| Tetrachloroethene (PCE) | 50.0 | 51.3 | 2.515E-1 | 2.578E-1 | 2.51 | ±30 | Average RF |
| Trichloroethene (TCE) | 50.0 | 52.9 | 3.127E-1 | 3.308E-1 | 5.78 | ±30 | Average RF |
| Vinyl Chloride | 50.0 | 45.9 | 6.316E-1 | 5.801E-1 | -8.158 | ±30 | Average RF |
| cis-1,2-Dichloroethene | 50.0 | 50.5 | 5.699E-1 | 5.756E-1 | 1.01 | ±30 | Average RF |
| trans-1,2-Dichloroethene | 50.0 | 50.8 | 4.884E-1 | 4.963E-1 | 1.61 | ±30 | Average RF |

| Analyte Name | Expected | Result | Average RF | SSV RF | % D | Criteria | Curve Fit |
|---|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene | 50.0 | 50.2 | 4.589E-1 | 4.606E-1 | 0.378 | ±30 | Average RF |
| Dibromofluoromethane | 50.0 | 50.2 | 3.197E-1 | 3.209E-1 | 0.349 | ±30 | Average RF |
| Toluene-d8 | 50.0 | 50.0 | 1.218E0 | 1.218E0 | -0.028 | ±30 | Average RF |

**Client:** Verina Consulting Group, LLC
**Project:** Dover - Kirkwood/5101.0002

**Service Request:** R2208794
**Date Analyzed:** 09/25/22 19:46

## Continuing Calibration Verification (CCV) Summary
## Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C
**File ID:** I:\ACQUDATA\msvoa10\data\092522\B6283.D\
**Signal ID:** 1

**Calibration Date:** 9/8/2022
**Calibration ID:** RC2200096
**Analysis Lot:** 778754
**Units:** ug/L

| Analyte Name | Expected | Result | Average RF | CCV RF | % D | % Drift | Criteria | Curve Fit |
|---|---|---|---|---|---|---|---|---|
| **1,1,1-Trichloroethane (TCA)** | 50.0 | 46.7 | 0.6858 | 0.6409 | -6.6 | NA | ±20 | Average RF |
| **1,1-Dichloroethane (1,1-DCA)** | 50.0 | 44.8 | 0.91 | 0.8161 | -10.3 | NA | ±20 | Average RF |
| **1,1-Dichloroethene (1,1-DCE)** | 50.0 | 44.6 | 0.4437 | 0.3961 | -10.7 | NA | ±20 | Average RF |
| **Tetrachloroethene (PCE)** | 50.0 | 51.4 | 0.2515 | 0.2587 | 2.9 | NA | ±20 | Average RF |
| **Trichloroethene (TCE)** | 50.0 | 53.7 | 0.3127 | 0.3356 | 7.3 | NA | ±20 | Average RF |
| **Vinyl Chloride** | 50.0 | 44.0 | 0.6316 | 0.5555 | -12.1 | NA | ±20 | Average RF |
| **cis-1,2-Dichloroethene** | 50.0 | 44.4 | 0.5699 | 0.5066 | -11.1 | NA | ±20 | Average RF |
| **trans-1,2-Dichloroethene** | 50.0 | 45.5 | 0.4884 | 0.4441 | -9.1 | NA | ±20 | Average RF |

| Analyte Name | Expected | Result | Average RF | CCV RF | % D | % Drift | Criteria | Curve Fit |
|---|---|---|---|---|---|---|---|---|
| **4-Bromofluorobenzene** | 50.0 | 51.6 | 0.4589 | 0.4739 | 3.3 | NA | ±20 | Average RF |
| **Dibromofluoromethane** | 50.0 | 49.6 | 0.3197 | 0.3169 | -0.9 | NA | ±20 | Average RF |
| **Toluene-d8** | 50.0 | 50.4 | 1.2183 | 1.2283 | 0.8 | NA | ±20 | Average RF |

**Client:** Verina Consulting Group, LLC **Service Request:**R2208794
**Project:** Dover - Kirkwood/5101.0002

## Analysis Run Log
## Volatile Organic Compounds by GC/MS

**Analysis Method:** **Analysis Lot:**778754
**Instrument ID:**R-MS-10

| Raw Data File | Sample Name | Lab Code | Date Analyzed | Time Analyzed | Q |
|---|---|---|---|---|---|
| I:\ACQUDATA\msvoa10\data\092522\B6282.D\ | ZZZZZZZ | ZZZZZZZ | 9/25/2022 | 19:24:00 | |
| I:\ACQUDATA\msvoa10\data\092522\B6283.D\ | Continuing Calibration Verification | RQ2211600-02 | 9/25/2022 | 19:46:00 | |
| I:\ACQUDATA\msvoa10\data\092522\B6284.D\ | Lab Control Sample | RQ2211600-03 | 9/25/2022 | 20:07:00 | |
| I:\ACQUDATA\msvoa10\data\092522\B6285.D\ | Duplicate Lab Control Sample | RQ2211600-04 | 9/25/2022 | 20:29:00 | |
| I:\ACQUDATA\msvoa10\data\092522\B6288.D\ | Method Blank | RQ2211600-05 | 9/25/2022 | 21:35:00 | |
| I:\ACQUDATA\msvoa10\data\092522\B6289.D\ | FB-091422 | R2208794-016 | 9/25/2022 | 21:57:00 | |
| I:\ACQUDATA\msvoa10\data\092522\B6290.D\ | TB-091422 | R2208794-017 | 9/25/2022 | 22:18:00 | |
| I:\ACQUDATA\msvoa10\data\092522\B6291.D\ | MW-35-091422 | R2208794-005 | 9/25/2022 | 22:40:00 | |
| I:\ACQUDATA\msvoa10\data\092522\B6292.D\ | MW-32-091422 | R2208794-006 | 9/25/2022 | 23:02:00 | |
| I:\ACQUDATA\msvoa10\data\092522\B6293.D\ | MP-6D-091422 | R2208794-007 | 9/25/2022 | 23:24:00 | |
| I:\ACQUDATA\msvoa10\data\092522\B6294.D\ | MW39-091422 | R2208794-008 | 9/25/2022 | 23:46:00 | |
| I:\ACQUDATA\msvoa10\data\092522\B6295.D\ | MW31-091422 | R2208794-009 | 9/26/2022 | 00:07:00 | |
| I:\ACQUDATA\msvoa10\data\092522\B6296.D\ | MW19-091422 | R2208794-012 | 9/26/2022 | 00:29:00 | |
| I:\ACQUDATA\msvoa10\data\092522\B6297.D\ | MW27-091422 | R2208794-013 | 9/26/2022 | 00:51:00 | |
| I:\ACQUDATA\msvoa10\data\092522\B6298.D\ | MW26-091422 | R2208794-014 | 9/26/2022 | 01:13:00 | |
| I:\ACQUDATA\msvoa10\data\092522\B6299.D\ | MP3D-091422 | R2208794-015 | 9/26/2022 | 01:35:00 | |
| I:\ACQUDATA\msvoa10\data\092522\B6300.D\ | MW28-091422 | R2208794-011 | 9/26/2022 | 01:56:00 | |
| I:\ACQUDATA\msvoa10\data\092522\B6302.D\ | ZZZZZZZ | ZZZZZZZ | 9/26/2022 | 02:40:00 | |
| I:\ACQUDATA\msvoa10\data\092522\B6303.D\ | ZZZZZZZ | ZZZZZZZ | 9/26/2022 | 03:02:00 | |
| I:\ACQUDATA\msvoa10\data\092522\B6304.D\ | ZZZZZZZ | ZZZZZZZ | 9/26/2022 | 03:23:00 | |
| I:\ACQUDATA\msvoa10\data\092522\B6305.D\ | ZZZZZZZ | ZZZZZZZ | 9/26/2022 | 03:45:00 | |
| I:\ACQUDATA\msvoa10\data\092522\B6306.D\ | ZZZZZZZ | ZZZZZZZ | 9/26/2022 | 04:07:00 | |
| I:\ACQUDATA\msvoa10\data\092522\B6309.D\ | ZZZZZZZ | ZZZZZZZ | 9/26/2022 | 05:12:00 | |

**Client:** Verina Consulting Group, LLC **Service Request:**R2208794
**Project:** Dover - Kirkwood/5101.0002

## Analysis Run Log
## Volatile Organic Compounds by GC/MS

**Analysis Method:**

**Analysis Lot:**778754
**Instrument ID:**R-MS-10

| Raw Data File | Sample Name | Lab Code | Date Analyzed | Time Analyzed | Q |
|---|---|---|---|---|---|
| I:\ACQUDATA\msvoa10\data\092522 \B6310.D\ | ZZZZZZZ | ZZZZZZZ | 9/26/2022 | 05:34:00 | |

Analysis: 8260 Waters | Analyst: K. Quest | pH strips: 399921 | Tune Method: W090822

Date: 9/25/22 · Run#2 | Balance ID: N/A | ResCl strips: N/A | Run Method: ↓

Instr. 10 | 50 mL Class A used for dilution FV | Syringes: 177417 | LIMS Run#: 778754

Data Path: j:\acqudata\msvoa(InstID)\(Date)

| Pos. | Sample | Diln. | Diln. Prep./ | RL | Vial | HS | Cl | pH | File# | OK? | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 28 | TUNE | | R222116600.01 | | | | | | B6282 | Y | 19:24 |
| 29 | CCV | | 02 | | | | | | B6283 | Y | |
| 30 | LCS · FP | | 03 | | | | | | B6284 | Y | |
| 31 | LCSD · FP | | 04 | | | | | | B6285 | Y | |
| 32 | BLK | | — | | | | | | B6286 | (N) | wpt 1/0 |
| 33 | MBLK · UNP | | — | | | | | | B6287 | Y | |
| 34 | MBLK · FP | | 05 | | | | | | B6288 | Y | |
| 35 | R2208594.016 | 1.0 | | 6416 | 1 | N | N/A | <2 | B6289 | Y | |
| 36 | 017 | 1.0 | | | 1 | | | <2 | B6290 | Y | |
| 37 | 005 | 1.0 | | | 1 | | | <2 | B6291 | Y | |
| 38 | 006 | 1.0 | | | 1 | | | <2 | B6292 | Y | |
| 39 | 007 | 1.0 | | | 1 | | | <2 | B6293 | Y | |
| 40 | 008 | 1.0 | | | 1 | | | <2 | B6294 | Y | |
| 41 | 009 | 1.0 | | | 1 | | | <2 | B6295 | Y | |
| 42 | 012 | 1.0 | | | 1 | | | <2 | B6296 | Y | |
| 43 | 013 | 1.0 | | | 1 | | | <2 | B6297 | Y | |
| 44 | 014 | 1.0 | | | 1 | | | <2 | B6298 | Y | |
| 45 | 015 | 1.0 | | | 1 | | | <2 | B6299 | Y | |
| 46 | 011 | 5.0 | 10/50mls | | 1 | | | <2 | B6300 | Y | |
| 47 | BLK | | | | | | | | B6301 | — | |
| 48 | R2208612.018 | 1.0 | | 25176 | 1 | N | N/A | <2 | B6302 | Y | |
| 49 | 020 | 1.0 | | | 1 | | | <2 | B6303 | Y | |
| 50 | 017 | 1.0 | | | 1 | | | <2 | B6304 | Y | |
| 51 | 019 | 2.0 | 25/50mls | | 1 | | | <2 | B6305 | Y | |
| 52 | 021 | 25 | 2/50mls | | 1 | | | <2 | B6306 | Y | |
| 53 | BLK | | | | | | | | B6307 | — | |
| 54 | R2208614.023 | 1.0 | | 25176 | 1 | N | N/A | <2 | B6308 | (N) | Rpt Y1 c/o 7. |
| 55 | 009 | 1.0 | | | 1 | | | <2 | B6309 | (Y) | Rpt 1/2 |
| 56 | 001 | 50 | 1/50mls | | 1 | | | <2 | B6310 | Y | |
| 57 | BLK | | | | | | | | B6311 | — | |

All samples = 5 mL + 5 uL combined IS/ 5 mL purged

Combined IS/Surr :

Surrogate 50 : 224703

Internal Std 50 : 224704

Reagents:

500 Primary QC+ : 223946

Primary Fr+ : 224906

Primary TB : 225049 — 5ul → 50mls = CCV

Primary HS : 225050

Primary 8260 : 224088

TCT

200 Secondary Fr+ : 224750 - 5ul

500 Secondary QC+ : 223947

Secondary TB : 225013 — 2ul → 50mls = LCS/D

Secondary HS : 225052

Secondary 8260 : 224089

TCT

# Appendix E

VERINA Engineering, P.C.

**MONTHLY CAP INSPECTION CHECKLIST**

***Former Dover Electronics Site, Kirkwood, NY (5101.0002)***

**Date:** 1/17/2022

**Personnel:** CP & CM

| Item No. | Description | Yes | No | Actions | Comments |
|---|---|---|---|---|---|
| 1 | 1978 Building Addition floor slab in good condition? | X | | | |
| 2 | 1984 Building Addition floor slab in good condition? | X | | | |
| 3 | Area 1 (front employee entrance) landscape cover intact? | - | - | | Covered with snow |
| 4 | Area 2 (driveway at north catch basin CB-2044) asphalt surface in good conditi | - | - | | Covered with snow |
| 5 | Area 3 (transformer pad location) vegetative cover intact? | - | - | | Covered with snow |
| 6 | Area 4 (drainage ditch along CR 181) in good condition? | - | - | | Covered with snow |
| 7 | Area 5 (drainage ditch along CR 181) in good condition? | - | - | | Covered with snow |
| 8 | Area 6 (drainage ditch along CR 181) in good condition? | - | - | | Covered with snow |
| 9 | Area 7 (parking lot at southeast loading dock) asphalt surface in good condition | - | - | | Covered with snow |
| 10 | ASD system operational? | X | | | |
| 11 | ASD system vacuum readings normal? | X | | | |
| 12 | ASD system components in good condition? | X | | | |

VERINA Engineering, P.C.

**MONTHLY CAP INSPECTION CHECKLIST**

***Former Dover Electronics Site, Kirkwood, NY (5101.0002)***

**Date:** 2/7/2022

**Personnel:** MKS, MC

| Item No. | Description | Yes | No | Actions | Comments |
|---|---|---|---|---|---|
| 1 | 1978 Building Addition floor slab in good condition? | X | | | |
| 2 | 1984 Building Addition floor slab in good condition? | X | | | |
| 3 | Area 1 (front employee entrance) landscape cover intact? | X | | | |
| 4 | Area 2 (driveway at north catch basin CB-2044) asphalt surface in good conditi | X | | | |
| 5 | Area 3 (transformer pad location) vegetative cover intact? | X | | | |
| 6 | Area 4 (drainage ditch along CR 181) in good condition? | X | | | |
| 7 | Area 5 (drainage ditch along CR 181) in good condition? | X | | | |
| 8 | Area 6 (drainage ditch along CR 181) in good condition? | X | | | |
| 9 | Area 7 (parking lot at southeast loading dock) asphalt surface in good condition | X | | | |
| 10 | ASD system operational? | X | | | |
| 11 | ASD system vacuum readings normal? | X | | | |
| 12 | ASD system components in good condition? | X | | | |

VERINA Engineering, P.C.

**MONTHLY CAP INSPECTION CHECKLIST**

***Former Dover Electronics Site, Kirkwood, NY (5101.0002)***

**Date:** 3/7/2022

**Personnel:** MKS, CF

| Item No. | Description | Yes | No | Actions | Comments |
|---|---|---|---|---|---|
| 1 | 1978 Building Addition floor slab in good condition? | X | | | |
| 2 | 1984 Building Addition floor slab in good condition? | X | | | |
| 3 | Area 1 (front employee entrance) landscape cover intact? | X | | | |
| 4 | Area 2 (driveway at north catch basin CB-2044) asphalt surface in good conditi | X | | | |
| 5 | Area 3 (transformer pad location) vegetative cover intact? | X | | | |
| 6 | Area 4 (drainage ditch along CR 181) in good condition? | X | | | |
| 7 | Area 5 (drainage ditch along CR 181) in good condition? | X | | | |
| 8 | Area 6 (drainage ditch along CR 181) in good condition? | X | | | |
| 9 | Area 7 (parking lot at southeast loading dock) asphalt surface in good condition | X | | | |
| 10 | ASD system operational? | X | | | |
| 11 | ASD system vacuum readings normal? | X | | | |
| 12 | ASD system components in good condition? | X | | | |

VERINA Engineering, P.C.

**MONTHLY CAP INSPECTION CHECKLIST**

***Former Dover Electronics Site, Kirkwood, NY (5101.0002)***

**Date:** 4/11/2022

**Personnel:** CF & CRM

| Item No. | Description | Yes | No | Actions | Comments |
|---|---|---|---|---|---|
| 1 | 1978 Building Addition floor slab in good condition? | X | | | |
| 2 | 1984 Building Addition floor slab in good condition? | X | | | |
| 3 | Area 1 (front employee entrance) landscape cover intact? | X | | | |
| 4 | Area 2 (driveway at north catch basin CB-2044) asphalt surface in good conditio | X | | | |
| 5 | Area 3 (transformer pad location) vegetative cover intact? | X | | | |
| 6 | Area 4 (drainage ditch along CR 181) in good condition? | X | | | |
| 7 | Area 5 (drainage ditch along CR 181) in good condition? | X | | | |
| 8 | Area 6 (drainage ditch along CR 181) in good condition? | X | | | |
| 9 | Area 7 (parking lot at southeast loading dock) asphalt surface in good condition | X | | | |
| 10 | ASD system operational? | X | | | |
| 11 | ASD system vacuum readings normal? | X | | | |
| 12 | ASD system components in good condition? | X | | | |

VERINA Engineering, P.C.

**MONTHLY CAP INSPECTION CHECKLIST**

***Former Dover Electronics Site, Kirkwood, NY (5101.0002)***

**Date:** 5/16/2022

**Personnel:** MKS & CP

| Item No. | Description | Yes | No | Actions | Comments |
|---|---|---|---|---|---|
| 1 | 1978 Building Addition floor slab in good condition? | X | | | |
| 2 | 1984 Building Addition floor slab in good condition? | X | | | |
| 3 | Area 1 (front employee entrance) landscape cover intact? | X | | | |
| 4 | Area 2 (driveway at north catch basin CB-2044) asphalt surface in good conditi | X | | | |
| 5 | Area 3 (transformer pad location) vegetative cover intact? | X | | | |
| 6 | Area 4 (drainage ditch along CR 181) in good condition? | X | | | |
| 7 | Area 5 (drainage ditch along CR 181) in good condition? | X | | | |
| 8 | Area 6 (drainage ditch along CR 181) in good condition? | X | | | |
| 9 | Area 7 (parking lot at southeast loading dock) asphalt surface in good condition | X | | | |
| 10 | ASD system operational? | X | | | |
| 11 | ASD system vacuum readings normal? | X | | | |
| 12 | ASD system components in good condition? | X | | | |

VERINA Engineering, P.C.

**MONTHLY CAP INSPECTION CHECKLIST**

***Former Dover Electronics Site, Kirkwood, NY (5101.0002)***

**Date:** 6/13/2022

**Personnel:** MKS & MC

| Item No. | Description | Yes | No | Actions | Comments |
|---|---|---|---|---|---|
| 1 | 1978 Building Addition floor slab in good condition? | X | | | |
| 2 | 1984 Building Addition floor slab in good condition? | X | | | |
| 3 | Area 1 (front employee entrance) landscape cover intact? | X | | | |
| 4 | Area 2 (driveway at north catch basin CB-2044) asphalt surface in good conditio | X | | | |
| 5 | Area 3 (transformer pad location) vegetative cover intact? | X | | | |
| 6 | Area 4 (drainage ditch along CR 181) in good condition? | X | | | |
| 7 | Area 5 (drainage ditch along CR 181) in good condition? | X | | | |
| 8 | Area 6 (drainage ditch along CR 181) in good condition? | X | | | |
| 9 | Area 7 (parking lot at southeast loading dock) asphalt surface in good condition | X | | | |
| 10 | ASD system operational? | X | | | |
| 11 | ASD system vacuum readings normal? | X | | | |
| 12 | ASD system components in good condition? | X | | | |

VERINA Engineering, P.C.

**MONTHLY CAP INSPECTION CHECKLIST**

***Former Dover Electronics Site, Kirkwood, NY (5101.0002)***

**Date:** 7/12/2022

**Personnel:** MKS & CP

| Item No. | Description | Yes | No | Actions | Comments |
|---|---|---|---|---|---|
| 1 | 1978 Building Addition floor slab in good condition? | X | | | |
| 2 | 1984 Building Addition floor slab in good condition? | X | | | |
| 3 | Area 1 (front employee entrance) landscape cover intact? | X | | | |
| 4 | Area 2 (driveway at north catch basin CB-2044) asphalt surface in good conditio | X | | | |
| 5 | Area 3 (transformer pad location) vegetative cover intact? | X | | | |
| 6 | Area 4 (drainage ditch along CR 181) in good condition? | X | | | |
| 7 | Area 5 (drainage ditch along CR 181) in good condition? | X | | | |
| 8 | Area 6 (drainage ditch along CR 181) in good condition? | X | | | |
| 9 | Area 7 (parking lot at southeast loading dock) asphalt surface in good condition | X | | | |
| 10 | ASD system operational? | X | | | |
| 11 | ASD system vacuum readings normal? | X | | | |
| 12 | ASD system components in good condition? | X | | | |

VERINA Engineering, P.C.

**MONTHLY CAP INSPECTION CHECKLIST**

***Former Dover Electronics Site, Kirkwood, NY (5101.0002)***

**Date:** 8/15/2022

**Personnel:** SK & CP

| Item No. | Description | Yes | No | Actions | Comments |
|---|---|---|---|---|---|
| 1 | 1978 Building Addition floor slab in good condition? | X | | | |
| 2 | 1984 Building Addition floor slab in good condition? | X | | | |
| 3 | Area 1 (front employee entrance) landscape cover intact? | X | | | |
| 4 | Area 2 (driveway at north catch basin CB-2044) asphalt surface in good conditi | X | | | |
| 5 | Area 3 (transformer pad location) vegetative cover intact? | X | | | |
| 6 | Area 4 (drainage ditch along CR 181) in good condition? | X | | | |
| 7 | Area 5 (drainage ditch along CR 181) in good condition? | X | | | |
| 8 | Area 6 (drainage ditch along CR 181) in good condition? | X | | | |
| 9 | Area 7 (parking lot at southeast loading dock) asphalt surface in good condition | X | | | |
| 10 | ASD system operational? | X | | | |
| 11 | ASD system vacuum readings normal? | X | | | |
| 12 | ASD system components in good condition? | X | | | |

VERINA Engineering, P.C.

**MONTHLY CAP INSPECTION CHECKLIST**

***Former Dover Electronics Site, Kirkwood, NY (5101.0002)***

**Date:** 9/13/2022

**Personnel:** MKS & CM

| Item No. | Description | Yes | No | Actions | Comments |
|---|---|---|---|---|---|
| 1 | 1978 Building Addition floor slab in good condition? | X | | | |
| 2 | 1984 Building Addition floor slab in good condition? | X | | | |
| 3 | Area 1 (front employee entrance) landscape cover intact? | X | | | |
| 4 | Area 2 (driveway at north catch basin CB-2044) asphalt surface in good conditi | X | | | |
| 5 | Area 3 (transformer pad location) vegetative cover intact? | X | | | |
| 6 | Area 4 (drainage ditch along CR 181) in good condition? | X | | | |
| 7 | Area 5 (drainage ditch along CR 181) in good condition? | X | | | |
| 8 | Area 6 (drainage ditch along CR 181) in good condition? | X | | | |
| 9 | Area 7 (parking lot at southeast loading dock) asphalt surface in good condition | X | | | |
| 10 | ASD system operational? | X | | | |
| 11 | ASD system vacuum readings normal? | X | | | |
| 12 | ASD system components in good condition? | X | | | |

VERINA Engineering, P.C.

**MONTHLY CAP INSPECTION CHECKLIST**

***Former Dover Electronics Site, Kirkwood, NY (5101.0002)***

**Date:** 10/18/2022

**Personnel:** DCK & CF

| Item No. | Description | Yes | No | Actions | Comments |
|---|---|---|---|---|---|
| 1 | 1978 Building Addition floor slab in good condition? | X | | | |
| 2 | 1984 Building Addition floor slab in good condition? | X | | | |
| 3 | Area 1 (front employee entrance) landscape cover intact? | X | | | |
| 4 | Area 2 (driveway at north catch basin CB-2044) asphalt surface in good conditio | X | | | |
| 5 | Area 3 (transformer pad location) vegetative cover intact? | X | | | |
| 6 | Area 4 (drainage ditch along CR 181) in good condition? | X | | | |
| 7 | Area 5 (drainage ditch along CR 181) in good condition? | X | | | |
| 8 | Area 6 (drainage ditch along CR 181) in good condition? | X | | | |
| 9 | Area 7 (parking lot at southeast loading dock) asphalt surface in good condition | X | | | |
| 10 | ASD system operational? | X | | | |
| 11 | ASD system vacuum readings normal? | X | | | |
| 12 | ASD system components in good condition? | X | | | |

VERINA Engineering, P.C.

**MONTHLY CAP INSPECTION CHECKLIST**

***Former Dover Electronics Site, Kirkwood, NY (5101.0002)***

**Date:** 11/14/2022

**Personnel:** MKS & SK

| Item No. | Description | Yes | No | Actions | Comments |
|---|---|---|---|---|---|
| 1 | 1978 Building Addition floor slab in good condition? | X | | | |
| 2 | 1984 Building Addition floor slab in good condition? | X | | | |
| 3 | Area 1 (front employee entrance) landscape cover intact? | X | | | |
| 4 | Area 2 (driveway at north catch basin CB-2044) asphalt surface in good conditio | X | | | |
| 5 | Area 3 (transformer pad location) vegetative cover intact? | X | | | |
| 6 | Area 4 (drainage ditch along CR 181) in good condition? | X | | | |
| 7 | Area 5 (drainage ditch along CR 181) in good condition? | X | | | |
| 8 | Area 6 (drainage ditch along CR 181) in good condition? | X | | | |
| 9 | Area 7 (parking lot at southeast loading dock) asphalt surface in good condition | X | | | |
| 10 | ASD system operational? | X | | | |
| 11 | ASD system vacuum readings normal? | X | | | |
| 12 | ASD system components in good condition? | X | | | |

VERINA Engineering, P.C.

**MONTHLY CAP INSPECTION CHECKLIST**

***Former Dover Electronics Site, Kirkwood, NY (5101.0002)***

**Date:** 12/13/2022

**Personnel:** DCK, MV, & RG

| Item No. | Description | Yes | No | Actions | Comments |
|---|---|---|---|---|---|
| 1 | 1978 Building Addition floor slab in good condition? | X | | | |
| 2 | 1984 Building Addition floor slab in good condition? | X | | | |
| 3 | Area 1 (front employee entrance) landscape cover intact? | X | | | |
| 4 | Area 2 (driveway at north catch basin CB-2044) asphalt surface in good conditi | X | | | |
| 5 | Area 3 (transformer pad location) vegetative cover intact? | X | | | |
| 6 | Area 4 (drainage ditch along CR 181) in good condition? | X | | | |
| 7 | Area 5 (drainage ditch along CR 181) in good condition? | X | | | |
| 8 | Area 6 (drainage ditch along CR 181) in good condition? | X | | | |
| 9 | Area 7 (parking lot at southeast loading dock) asphalt surface in good condition | X | | | |
| 10 | ASD system operational? | X | | | |
| 11 | ASD system vacuum readings normal? | X | | | |
| 12 | ASD system components in good condition? | X | | | |

# Appendix F

VERINA Consulting Group, LLC

**ACTIVE SUB-SLAB DEPRESSURIZATION (ASD) INSPECTION LOG**

***Former Dover Electronics Site, Kirkwood, NY (5101.0002)***

| Date | Time | System On? (Y/N) | Vaccum Reading (inches water) | | | | | | | | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | ASD-1 | ASD-2 | ASD-3 | ASD-4 | ASD-5 | ASD-6 | ASD-7 | ASD-8 | |
| 1/17/2022 | 15:08 | Y | 1.00 | 1.00 | 0.75 | 0.88 | 0.75 | - | 2.75 | 4.38 | ASD-6 was not accessible, values as shown on U-tubes |
| 2/7/2022 | 13:30 | Y | 1.13 | 0.88 | 0.88 | 0.88 | 0.75 | - | 2.63 | 4.25 | ASD-6 was not accessible, values as shown on U-tubes |
| 3/7/2022 | 14:00 | Y | 1.00 | 1.00 | 1.00 | 1.00 | 0.86 | - | 2.63 | 4.25 | ASD-6 was not accessible, values as shown on U-tubes |
| 4/11/2022 | 14:10 | Y | 1.00 | 1.00 | 0.86 | 1.00 | 0.86 | - | 2.75 | 4.38 | ASD-6 was not accessible, values as shown on U-tubes |
| 5/17/2022 | 14:00 | Y | 1.13 | 1.13 | 0.88 | 0.88 | 0.88 | - | 2.68 | 4.38 | ASD-6 was not accessible, values as shown on U-tubes |
| 6/13/2022 | 15:00 | Y | 1.13 | 1.25 | 1.25 | 1.25 | 1.00 | - | 2.75 | 4.00 | ASD-6 was not accessible, values as shown on U-tubes |
| 7/11/2022 | 15:00 | Y | 1.13 | 1.00 | 1.00 | 0.88 | 0.88 | - | 2.38 | 4.38 | ASD-6 was not accessible, values as shown on U-tubes |
| 8/15/2022 | 15:00 | Y | 1.25 | 0.88 | 1.00 | 1.13 | 1.00 | - | 2.75 | 4.00 | ASD-6 was not accessible, values as shown on U-tubes |
| 9/26/2022 | 14/30 | Y | 1.25 | 1.20 | 1.50 | 1.25 | 1.13 | - | 2.75 | 4.13 | ASD-6 was not accessible, values as shown on U-tubes |
| 10/18/2022 | 13:20 | Y | 1.13 | 1.00 | 1.00 | 1.00 | 0.88 | - | 2.75 | 4.25 | ASD-6 was not accessible, values as shown on U-tubes |
| 11/14/2022 | 15:00 | Y | 1.00 | 1.00 | 1.13 | 1.00 | 0.88 | -- | 2.75 | 4.50 | ASD-6 was not accessible, values as shown on U-tubes |
| 12/13/2022 | 13:30 | Y | 1.10 | 0.88 | 1.10 | 0.80 | 0.50 | - | 2.50 | 4.50 | ASD-6 was not accessible, values as shown on U-tubes |

# Appendix G

2655 Park Center Dr., Suite A
Simi Valley, CA 93065
**T:** +1 805 526 7161
www.alsglobal.com

# LABORATORY REPORT

March 24, 2022

Sarah MacCarter
Verina Consulting Group, LLC
1011 US Highway 22, Suite 302
Bridgewater, NJ 08807

**RE: Dover Kirkwood / 5101.0002**

Dear Sarah:

Enclosed are the results of the samples submitted to our laboratory on March 10, 2022. For your reference, these analyses have been assigned our service request number P2201095.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

**ALS | Environmental**

*By Sue Anderson at 3:38 pm, Mar 24, 2022*

Sue Anderson
Project Manager

2655 Park Center Dr., Suite A
Simi Valley, CA 93065
**T:** +1 805 526 7161
www.alsglobal.com

Client: Verina Consulting Group, LLC
Project: Dover Kirkwood / 5101.0002

Service Request No: P2201095
NJ Certification ID: CA009

## CASE NARRATIVE

The samples were received intact under chain of custody on March 10, 2022 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Volatile Organic Compound Analysis

The samples were analyzed for volatile organic compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. This procedure is described in laboratory SOP VOA-TO15. The analytical system was comprised of a gas chromatograph / mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. This method is included on the laboratory's NELAP and DoD-ELAP scope of accreditation. Any analytes flagged with an X are not included on the NELAP or DoD-ELAP accreditation.

The spike recovery of 1,2-dibromoethane for the Laboratory Control Sample (LCS) analyzed on March 23, 2022 was outside the laboratory generated control criterion. The recovery error equates to a potential low bias. However, the spike recovery of the analyte in question was within the method criteria; therefore, the data quality has not been significantly affected. No corrective action was taken.

The canister for Sample Electrical Area (P2201095-007) appeared to have slight leak after pressurization. Therefore, the can was re-pressurized and analyzed right away. The impact to the data is the slightly higher canister dilution factor.

The ethanol result was flagged for samples Computer Servers (P2201095-001) and Hallway (P2201095-002) because the concentration exceeded the calibration range.

The containers were cleaned, prior to sampling, down to the method reporting limit (MRL) reported for this project. For projects requiring DoD QSM 5.3 compliance canisters were cleaned to <1/2 the MRL. Please note, projects which require reporting below the MRL could have results between the MRL and method detection limit (MDL) that are biased high.

*The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.*

*Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.*

2655 Park Center Dr., Suite A
Simi Valley, CA 93065
**T:** +1 805 526 7161
**www.alsglobal.com**

ALS Environmental – Simi Valley

CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

| Agency | Web Site | Number |
|---|---|---|
| Alaska DEC | http://dec.alaska.gov/eh/lab.aspx | 17-019 |
| Arizona DHS | http://www.azdhs.gov/preparedness/state-laboratory/lab-licensure-certification/index.php#laboratory-licensure-home | AZ0694 |
| Florida DOH (NELAP) | http://www.floridahealth.gov/licensing-and-regulation/environmental-laboratories/index.html | E871020 |
| Louisiana DEQ (NELAP) | http://www.deq.louisiana.gov/page/la-lab-accreditation | 05071 |
| Maine DHHS | http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/professionals/labCert.shtml | 2018027 |
| Minnesota DOH (NELAP) | http://www.health.state.mn.us/accreditation | 1776326 |
| New Jersey DEP (NELAP) | http://www.nj.gov/dep/enforcement/oqa.html | CA009 |
| New York DOH (NELAP) | http://www.wadsworth.org/labcert/elap/elap.html | 11221 |
| Oregon PHD (NELAP) | http://www.oregon.gov/oha/ph/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx | 4068-008 |
| Pennsylvania DEP | http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx | 68-03307 (Registration) |
| PJLA (DoD ELAP) | http://www.pjlabs.com/search-accredited-labs | 65818 (Testing) |
| Texas CEQ (NELAP) | http://www.tceq.texas.gov/agency/qa/env_lab_accreditation.html | T104704413-19-10 |
| Utah DOH (NELAP) | http://health.utah.gov/lab/lab_cert_env | CA016272019-10 |
| Washington DOE | http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html | C946 |

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

## ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: Verina Consulting Group, LLC Service Request: P2201095
Project ID: Dover Kirkwood / 5101.0002

Date Received: 3/10/2022
Time Received: 14:08

| Client Sample ID | Lab Code | Matrix | Date Collected | Time Collected | Container ID | Pi1 (psig) | Pfl (psig) | 2nd Pi (psig) | 2nd Pf (psig) | TO-15 - VOC Cans |
|---|---|---|---|---|---|---|---|---|---|---|
| Computer Servers | P2201095-001 | Air | 3/9/2022 | 13:43 | AC02483 | -0.40 | 4.25 | | | X |
| Hallway | P2201095-002 | Air | 3/9/2022 | 13:44 | AS00864 | -0.72 | 4.05 | | | X |
| Office Area #1 | P2201095-003 | Air | 3/9/2022 | 13:46 | AS01506 | -0.55 | 4.00 | | | X |
| Caffeteria | P2201095-004 | Air | 3/9/2022 | 13:47 | AC02320 | -0.73 | 4.55 | | | X |
| A/C Area | P2201095-005 | Air | 3/9/2022 | 13:48 | AC02385 | -0.36 | 4.72 | | | X |
| Office Area #2 | P2201095-006 | Air | 3/9/2022 | 15:01 | AC02127 | -1.36 | 3.95 | | | X |
| Electrical Area | P2201095-007 | Air | 3/9/2022 | 15:03 | AC02276 | -1.30 | 3.95 | -0.08 | 2.60 | X |

# Air - Chain of Custody Record & Analytical Service Request



2655 Park Center Drive, Suite A
Simi Valley, California 93065
Phone (805) 526-7161

**Requested Turnaround Time in Business Days (Surcharges) please circle**
1 Day (100%) 2 Day (75%) 3 Day (50%) 4 Day (35%) 5 Day (25%) 10 Day-Standard

ALS Project No. PJ01095

| | |
|---|---|
| Company Name & Address (Reporting Information) | Verina Consulting Group, LLC<br>1011 US Highway 22, Suite 302<br>Bridgewater, NJ 08807 |
| Project Manager | Sarah MacCarter |
| Phone | 908-864-4400 |
| Fax | 908-864-4401 |
| Email Address for Result Reporting | SmacCarter@VCG-LLC.com |
| Project Name | Dover Kirkwood |
| Project Number | 5101.0002 |
| P.O. # / Billing Information | Same as company address but bill to "Robert Fan" not Sarah |
| Sampler (Print & Sign) | Connor Falcone |
| ALS Contact: | |

| Client Sample ID | Laboratory ID Number | Date Collected | Time Collected | Canister ID (Bar code # - AC, SC, etc.) | Flow Controller ID (Bar code # - FC #) | Canister Start Pressure "Hg | Canister End Pressure "Hg/psig | Sample Volume | Analysis Method: TO-15 | Comments e.g. Actual Preservative or specific instructions |
|---|---|---|---|---|---|---|---|---|---|---|
| Computer Servers | 1 | 3/9/22 | 1343 | AC02483 | SFC00625 | 27 | 0.75 | 6L | ✓ | |
| Hallway | 2 | 3/9/22 | 1344 | AS00864 | SFC00425 | 26.5 | 0.75 | 6L | ✓ | |
| Office Area #1 | 3 | 3/9/22 | 1346 | AS01506 | SFC00550 | 28.5 | 1.5 | 6L | ✓ | |
| Cafeteria | 4 | 3/9/22 | 1347 | AC02320 | SFC00652 | 27 | 1 | 6L | ✓ | |
| A/C Area | 5 | 3/9/22 | 1348 | AC02385 | SFC00430 | 27 | 1 | 6L | ✓ | |
| Office Area #2 | 6 | 3/9/22 | 1501 | AC02127 | SFC00591 | 28 | 3.5 | 6L | ✓ | |
| Electrical Area | 7 | 3/9/22 | 1503 | AC02276 | SFC00627 | 27.5 | 3 | 6L | ✓ | |

**Report Tier Levels - please select**

Tier I - Results (Default if not specified) ____
Tier II (Results + QC Summaries) ✓
Tier III (Results + QC & Calibration Summaries) ____
Tier IV (Data Validation Package) 10% Surcharge ____

EDD required (Yes) / No
Type: _____ Units: _____

Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT

Project Requirements (MRLs, QAPP)

| | | | | | | |
|---|---|---|---|---|---|---|
| Relinquished by: (Signature) Connor Falcone | Date: 3/9/22 | Time: 1545 | Received by: (Signature) | Date: | Time: | |
| Relinquished by: (Signature) | Date: | Time: | Received by: (Signature) | Date: 3-10-22 | Time: 1408 | Cooler / Blank Temperature ____°C |

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# ALS Environmental
## Sample Acceptance Check Form

Client: Verina Consulting Group, LLC  Work order: P2201095

Project: Dover Kirkwood / 5101.0002

Sample(s) received on: 3/11/22  Date opened: 3/11/22  by: ADAVID

***Note:*** This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

| | | Yes | No | N/A |
|---|---|---|---|---|
| 1 | Were **sample containers** properly marked with client sample ID? | ☒ | ☐ | ☐ |
| 2 | Did **sample containers** arrive in good condition? | ☒ | ☐ | ☐ |
| 3 | Were **chain-of-custody** papers used and filled out? | ☒ | ☐ | ☐ |
| 4 | Did **sample container labels** and/or tags agree with custody papers? | ☒ | ☐ | ☐ |
| 5 | Was **sample volume** received adequate for analysis? | ☒ | ☐ | ☐ |
| 6 | Are samples within specified holding times? | ☒ | ☐ | ☐ |
| 7 | Was proper **temperature** (thermal preservation) of cooler at receipt adhered to? | ☐ | ☐ | ☒ |
| 8 | Were **custody seals** on outside of cooler/Box/Container? | ☐ | ☐ | ☒ |
| | Location of seal(s)? _____ Sealing Lid? | ☐ | ☐ | ☒ |
| | Were signature and date included? | ☐ | ☐ | ☒ |
| | Were seals intact? | ☐ | ☐ | ☒ |
| 9 | Do containers have appropriate **preservation**, according to method/SOP or Client specified information? | ☐ | ☐ | ☒ |
| | Is there a client indication that the submitted samples are **pH** preserved? | ☐ | ☐ | ☒ |
| | Were **VOA vials** checked for presence/absence of air bubbles? | ☐ | ☐ | ☒ |
| | Does the client/method/SOP require that the analyst check the sample pH and if necessary alter it? | ☐ | ☐ | ☒ |
| 10 | **Tubes:** Are the tubes capped and intact? | ☐ | ☐ | ☒ |
| 11 | **Badges:** Are the badges properly capped and intact? | ☐ | ☐ | ☒ |
| | Are dual bed badges separated and individually capped and intact? | ☐ | ☐ | ☒ |

| Lab Sample ID | Container Description | Required pH * | Received pH | Adjusted pH | VOA Headspace (Presence/Absence) | Receipt / Preservation Comments |
|---|---|---|---|---|---|---|
| P2201095-001.01 | 6.0 L Ambient Can | | | | | |
| P2201095-002.01 | 6.0 L Silonite Can | | | | | |
| P2201095-003.01 | 6.0 L Silonite Can | | | | | |
| P2201095-004.01 | 6.0 L Ambient Can | | | | | |
| P2201095-005.01 | 6.0 L Ambient Can | | | | | |
| P2201095-006.01 | 6.0 L Ambient Can | | | | | |
| P2201095-007.01 | 6.0 L Ambient Can | | | | | |
| P2201095-008.01 | 6.0 L Ambient Can | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Explain any discrepancies: (include lab sample ID numbers): _____

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

# ALS ENVIRONMENTAL

RESULTS OF ANALYSIS



**Client:** **Verina Consulting Group, LLC**
**Client Sample ID:** **Computer Servers** ALS Project ID: P2201095
**Client Project ID:** **Dover Kirkwood / 5101.0002** ALS Sample ID: P2201095-001

Test Code: EPA TO-15 Date Collected: 3/9/22
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date Received: 3/10/22
Analyst: Wida Ang Date Analyzed: 3/23/22
Sample Type: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: AC02483

Initial Pressure (psig): -0.40 Final Pressure (psig): 4.25

Container Dilution Factor: 1.33

| CAS # | Compound | Result µg/m³ | MRL µg/m³ | Result ppbV | MRL ppbV | Data Qualifier |
|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane (CFC 12) | **4.6** | 0.70 | **0.92** | 0.14 | |
| 74-87-3 | Chloromethane | **0.32** | 0.28 | **0.15** | 0.14 | |
| 76-14-2 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | ND | 0.72 | ND | 0.10 | |
| 75-01-4 | Vinyl Chloride | ND | 0.15 | ND | 0.057 | |
| 106-99-0 | 1,3-Butadiene | ND | 0.28 | ND | 0.13 | |
| 74-83-9 | Bromomethane | ND | 0.28 | ND | 0.072 | |
| 75-00-3 | Chloroethane | ND | 0.28 | ND | 0.11 | |
| 64-17-5 | Ethanol | **650** | 6.7 | **340** | 3.5 | **E** |
| 75-05-8 | Acetonitrile | ND | 1.3 | ND | 0.79 | |
| 107-02-8 | Acrolein | ND | 1.3 | ND | 0.58 | |
| 67-64-1 | Acetone | ND | 6.9 | ND | 2.9 | |
| 75-69-4 | Trichlorofluoromethane | **11** | 0.69 | **1.9** | 0.12 | |
| 67-63-0 | 2-Propanol (Isopropyl Alcohol) | ND | 1.3 | ND | 0.54 | |
| 107-13-1 | Acrylonitrile | ND | 1.3 | ND | 0.61 | |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.15 | ND | 0.037 | |
| 75-09-2 | Methylene Chloride | **0.73** | 0.69 | **0.21** | 0.20 | |
| 107-05-1 | 3-Chloro-1-propene (Allyl Chloride) | ND | 0.70 | ND | 0.23 | |
| 76-13-1 | Trichlorotrifluoroethane | ND | 0.72 | ND | 0.094 | |
| 75-15-0 | Carbon Disulfide | ND | 1.5 | ND | 0.47 | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.15 | ND | 0.037 | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.15 | ND | 0.036 | |
| 1634-04-4 | Methyl tert-Butyl Ether | ND | 0.70 | ND | 0.20 | |
| 108-05-4 | Vinyl Acetate | ND | 6.7 | ND | 1.9 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
E = Estimated; concentration exceeded calibration range.

**Client:** **Verina Consulting Group, LLC**
**Client Sample ID:** **Computer Servers** ALS Project ID: P2201095
**Client Project ID:** **Dover Kirkwood / 5101.0002** ALS Sample ID: P2201095-001

Test Code: EPA TO-15 Date Collected: 3/9/22
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date Received: 3/10/22
Analyst: Wida Ang Date Analyzed: 3/23/22
Sample Type: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: AC02483

Initial Pressure (psig): -0.40 Final Pressure (psig): 4.25

Container Dilution Factor: 1.33

| CAS # | Compound | Result µg/m³ | MRL µg/m³ | Result ppbV | MRL ppbV | Data Qualifier |
|---|---|---|---|---|---|---|
| 78-93-3 | 2-Butanone (MEK) | ND | 1.3 | ND | 0.45 | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.15 | ND | 0.037 | |
| 110-54-3 | n-Hexane | ND | 0.70 | ND | 0.20 | |
| 67-66-3 | Chloroform | ND | 0.15 | ND | 0.030 | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.15 | ND | 0.036 | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.15 | ND | 0.027 | |
| 71-43-2 | Benzene | **0.73** | 0.15 | **0.23** | 0.046 | |
| 56-23-5 | Carbon Tetrachloride | **0.37** | 0.15 | **0.058** | 0.023 | |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.15 | ND | 0.032 | |
| 75-27-4 | Bromodichloromethane | ND | 0.15 | ND | 0.022 | |
| 79-01-6 | Trichloroethene | ND | 0.15 | ND | 0.027 | |
| 123-91-1 | 1,4-Dioxane | ND | 0.69 | ND | 0.19 | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.70 | ND | 0.16 | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 1.5 | ND | 0.36 | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.68 | ND | 0.15 | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.15 | ND | 0.027 | |
| 108-88-3 | Toluene | **0.71** | 0.69 | **0.19** | 0.18 | |
| 591-78-6 | 2-Hexanone | ND | 1.5 | ND | 0.36 | |
| 124-48-1 | Dibromochloromethane | ND | 0.15 | ND | 0.017 | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.15 | ND | 0.019 | |
| 123-86-4 | n-Butyl Acetate | ND | 1.5 | ND | 0.31 | |
| 127-18-4 | Tetrachloroethene | **1.0** | 0.15 | **0.15** | 0.022 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

**Client:** **Verina Consulting Group, LLC**
**Client Sample ID:** **Computer Servers** ALS Project ID: P2201095
**Client Project ID:** **Dover Kirkwood / 5101.0002** ALS Sample ID: P2201095-001

Test Code: EPA TO-15 Date Collected: 3/9/22
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date Received: 3/10/22
Analyst: Wida Ang Date Analyzed: 3/23/22
Sample Type: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: AC02483

Initial Pressure (psig): -0.40 Final Pressure (psig): 4.25

Container Dilution Factor: 1.33

| CAS # | Compound | Result µg/m³ | MRL µg/m³ | Result ppbV | MRL ppbV | Data Qualifier |
|---|---|---|---|---|---|---|
| 108-90-7 | Chlorobenzene | ND | 0.69 | ND | 0.15 | |
| 100-41-4 | Ethylbenzene | ND | 0.69 | ND | 0.16 | |
| 179601-23-1 | m,p-Xylenes | ND | 1.5 | ND | 0.34 | |
| 75-25-2 | Bromoform | ND | 0.69 | ND | 0.067 | |
| 100-42-5 | Styrene | ND | 0.69 | ND | 0.16 | |
| 95-47-6 | o-Xylene | ND | 0.69 | ND | 0.16 | |
| 111-84-2 | n-Nonane | ND | 0.69 | ND | 0.13 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.15 | ND | 0.021 | |
| 98-82-8 | Cumene | ND | 0.69 | ND | 0.14 | |
| 80-56-8 | alpha-Pinene | ND | 0.72 | ND | 0.13 | |
| 622-96-8 | 4-Ethyltoluene | ND | 0.70 | ND | 0.14 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.69 | ND | 0.14 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.69 | ND | 0.14 | |
| 100-44-7 | Benzyl Chloride | ND | 1.5 | ND | 0.28 | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.69 | ND | 0.12 | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.69 | ND | 0.12 | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.70 | ND | 0.12 | |
| 5989-27-5 | d-Limonene | ND | 0.69 | ND | 0.12 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 1.3 | ND | 0.14 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.3 | ND | 0.18 | |
| 91-20-3 | Naphthalene | ND | 0.69 | ND | 0.13 | |
| 87-68-3 | Hexachlorobutadiene | ND | 0.69 | ND | 0.065 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

RESULTS OF ANALYSIS



**Client:** **Verina Consulting Group, LLC**
**Client Sample ID:** **Hallway** ALS Project ID: P2201095
**Client Project ID:** **Dover Kirkwood / 5101.0002** ALS Sample ID: P2201095-002

Test Code: EPA TO-15 Date Collected: 3/9/22
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date Received: 3/10/22
Analyst: Wida Ang Date Analyzed: 3/23/22
Sample Type: 6.0 L Silonite Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: AS00864

Initial Pressure (psig): -0.72 Final Pressure (psig): 4.05

Container Dilution Factor: 1.34

| CAS # | Compound | Result µg/m³ | MRL µg/m³ | Result ppbV | MRL ppbV | Data Qualifier |
|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane (CFC 12) | **4.0** | 0.71 | **0.81** | 0.14 | |
| 74-87-3 | Chloromethane | **0.29** | 0.28 | **0.14** | 0.14 | |
| 76-14-2 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | ND | 0.72 | ND | 0.10 | |
| 75-01-4 | Vinyl Chloride | ND | 0.15 | ND | 0.058 | |
| 106-99-0 | 1,3-Butadiene | ND | 0.28 | ND | 0.13 | |
| 74-83-9 | Bromomethane | ND | 0.28 | ND | 0.072 | |
| 75-00-3 | Chloroethane | ND | 0.28 | ND | 0.11 | |
| 64-17-5 | Ethanol | **490** | 6.7 | **260** | 3.6 | **E** |
| 75-05-8 | Acetonitrile | ND | 1.3 | ND | 0.80 | |
| 107-02-8 | Acrolein | ND | 1.3 | ND | 0.58 | |
| 67-64-1 | Acetone | **7.0** | 7.0 | **3.0** | 2.9 | |
| 75-69-4 | Trichlorofluoromethane | **13** | 0.70 | **2.3** | 0.12 | |
| 67-63-0 | 2-Propanol (Isopropyl Alcohol) | **2.9** | 1.3 | **1.2** | 0.55 | |
| 107-13-1 | Acrylonitrile | ND | 1.3 | ND | 0.62 | |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.15 | ND | 0.037 | |
| 75-09-2 | Methylene Chloride | ND | 0.70 | ND | 0.20 | |
| 107-05-1 | 3-Chloro-1-propene (Allyl Chloride) | ND | 0.71 | ND | 0.23 | |
| 76-13-1 | Trichlorotrifluoroethane | ND | 0.72 | ND | 0.094 | |
| 75-15-0 | Carbon Disulfide | ND | 1.5 | ND | 0.47 | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.15 | ND | 0.037 | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.15 | ND | 0.036 | |
| 1634-04-4 | Methyl tert-Butyl Ether | ND | 0.71 | ND | 0.20 | |
| 108-05-4 | Vinyl Acetate | ND | 6.7 | ND | 1.9 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
E = Estimated; concentration exceeded calibration range.

**Client:** **Verina Consulting Group, LLC**
**Client Sample ID:** **Hallway** ALS Project ID: P2201095
**Client Project ID:** **Dover Kirkwood / 5101.0002** ALS Sample ID: P2201095-002

Test Code: EPA TO-15 Date Collected: 3/9/22
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date Received: 3/10/22
Analyst: Wida Ang Date Analyzed: 3/23/22
Sample Type: 6.0 L Silonite Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: AS00864

Initial Pressure (psig): -0.72 Final Pressure (psig): 4.05

Container Dilution Factor: 1.34

| CAS # | Compound | Result µg/m³ | MRL µg/m³ | Result ppbV | MRL ppbV | Data Qualifier |
|---|---|---|---|---|---|---|
| 78-93-3 | 2-Butanone (MEK) | ND | 1.3 | ND | 0.45 | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.15 | ND | 0.037 | |
| 110-54-3 | n-Hexane | ND | 0.71 | ND | 0.20 | |
| 67-66-3 | Chloroform | ND | 0.15 | ND | 0.030 | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.15 | ND | 0.036 | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.15 | ND | 0.027 | |
| 71-43-2 | Benzene | **0.70** | 0.15 | **0.22** | 0.046 | |
| 56-23-5 | Carbon Tetrachloride | **0.36** | 0.15 | **0.057** | 0.023 | |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.15 | ND | 0.032 | |
| 75-27-4 | Bromodichloromethane | ND | 0.15 | ND | 0.022 | |
| 79-01-6 | Trichloroethene | ND | 0.15 | ND | 0.027 | |
| 123-91-1 | 1,4-Dioxane | ND | 0.70 | ND | 0.19 | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.71 | ND | 0.16 | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 1.5 | ND | 0.36 | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.68 | ND | 0.15 | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.15 | ND | 0.027 | |
| 108-88-3 | Toluene | **1.0** | 0.70 | **0.27** | 0.18 | |
| 591-78-6 | 2-Hexanone | ND | 1.5 | ND | 0.36 | |
| 124-48-1 | Dibromochloromethane | ND | 0.15 | ND | 0.017 | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.15 | ND | 0.019 | |
| 123-86-4 | n-Butyl Acetate | ND | 1.5 | ND | 0.31 | |
| 127-18-4 | Tetrachloroethene | **1.3** | 0.15 | **0.19** | 0.022 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

**Client:** **Verina Consulting Group, LLC**

**Client Sample ID:** **Hallway** ALS Project ID: P2201095

**Client Project ID:** **Dover Kirkwood / 5101.0002** ALS Sample ID: P2201095-002

| | | | |
|---|---|---|---|
| Test Code: | EPA TO-15 | Date Collected: | 3/9/22 |
| Instrument ID: | Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 | Date Received: | 3/10/22 |
| Analyst: | Wida Ang | Date Analyzed: | 3/23/22 |
| Sample Type: | 6.0 L Silonite Canister | Volume(s) Analyzed: | 1.00 Liter(s) |
| Test Notes: | | | |
| Container ID: | AS00864 | | |

Initial Pressure (psig): -0.72 Final Pressure (psig): 4.05

Container Dilution Factor: 1.34

| CAS # | Compound | Result µg/m³ | MRL µg/m³ | Result ppbV | MRL ppbV | Data Qualifier |
|---|---|---|---|---|---|---|
| 108-90-7 | Chlorobenzene | ND | 0.70 | ND | 0.15 | |
| 100-41-4 | Ethylbenzene | ND | 0.70 | ND | 0.16 | |
| 179601-23-1 | m,p-Xylenes | ND | 1.5 | ND | 0.34 | |
| 75-25-2 | Bromoform | ND | 0.70 | ND | 0.067 | |
| 100-42-5 | Styrene | ND | 0.70 | ND | 0.16 | |
| 95-47-6 | o-Xylene | ND | 0.70 | ND | 0.16 | |
| 111-84-2 | n-Nonane | ND | 0.70 | ND | 0.13 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.15 | ND | 0.021 | |
| 98-82-8 | Cumene | ND | 0.70 | ND | 0.14 | |
| 80-56-8 | alpha-Pinene | **0.85** | 0.72 | **0.15** | 0.13 | |
| 622-96-8 | 4-Ethyltoluene | ND | 0.71 | ND | 0.14 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.70 | ND | 0.14 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.70 | ND | 0.14 | |
| 100-44-7 | Benzyl Chloride | ND | 1.5 | ND | 0.28 | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.70 | ND | 0.12 | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.70 | ND | 0.12 | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.71 | ND | 0.12 | |
| 5989-27-5 | d-Limonene | **1.4** | 0.70 | **0.24** | 0.13 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 1.3 | ND | 0.14 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.3 | ND | 0.18 | |
| 91-20-3 | Naphthalene | ND | 0.70 | ND | 0.13 | |
| 87-68-3 | Hexachlorobutadiene | ND | 0.70 | ND | 0.065 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

RESULTS OF ANALYSIS



**Client:** **Verina Consulting Group, LLC**
**Client Sample ID:** **Office Area #1** ALS Project ID: P2201095
**Client Project ID:** **Dover Kirkwood / 5101.0002** ALS Sample ID: P2201095-003

Test Code: EPA TO-15 Date Collected: 3/9/22
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date Received: 3/10/22
Analyst: Wida Ang Date Analyzed: 3/23/22
Sample Type: 6.0 L Silonite Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: AS01506

Initial Pressure (psig): -0.55 Final Pressure (psig): 4.00

Container Dilution Factor: 1.32

| CAS # | Compound | Result µg/m³ | MRL µg/m³ | Result ppbV | MRL ppbV | Data Qualifier |
|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane (CFC 12) | **3.1** | 0.70 | **0.63** | 0.14 | |
| 74-87-3 | Chloromethane | **0.35** | 0.28 | **0.17** | 0.13 | |
| 76-14-2 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | ND | 0.71 | ND | 0.10 | |
| 75-01-4 | Vinyl Chloride | ND | 0.15 | ND | 0.057 | |
| 106-99-0 | 1,3-Butadiene | ND | 0.28 | ND | 0.13 | |
| 74-83-9 | Bromomethane | ND | 0.28 | ND | 0.071 | |
| 75-00-3 | Chloroethane | ND | 0.28 | ND | 0.11 | |
| 64-17-5 | Ethanol | **210** | 6.6 | **110** | 3.5 | |
| 75-05-8 | Acetonitrile | ND | 1.3 | ND | 0.79 | |
| 107-02-8 | Acrolein | ND | 1.3 | ND | 0.58 | |
| 67-64-1 | Acetone | ND | 6.9 | ND | 2.9 | |
| 75-69-4 | Trichlorofluoromethane | **17** | 0.69 | **3.1** | 0.12 | |
| 67-63-0 | 2-Propanol (Isopropyl Alcohol) | **2.3** | 1.3 | **0.94** | 0.54 | |
| 107-13-1 | Acrylonitrile | ND | 1.3 | ND | 0.61 | |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.15 | ND | 0.037 | |
| 75-09-2 | Methylene Chloride | ND | 0.69 | ND | 0.20 | |
| 107-05-1 | 3-Chloro-1-propene (Allyl Chloride) | ND | 0.70 | ND | 0.22 | |
| 76-13-1 | Trichlorotrifluoroethane | ND | 0.71 | ND | 0.093 | |
| 75-15-0 | Carbon Disulfide | ND | 1.5 | ND | 0.47 | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.15 | ND | 0.037 | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.15 | ND | 0.036 | |
| 1634-04-4 | Methyl tert-Butyl Ether | ND | 0.70 | ND | 0.19 | |
| 108-05-4 | Vinyl Acetate | ND | 6.6 | ND | 1.9 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

RESULTS OF ANALYSIS



**Client:** **Verina Consulting Group, LLC**
**Client Sample ID:** **Office Area #1** ALS Project ID: P2201095
**Client Project ID:** **Dover Kirkwood / 5101.0002** ALS Sample ID: P2201095-003

Test Code: EPA TO-15 Date Collected: 3/9/22
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date Received: 3/10/22
Analyst: Wida Ang Date Analyzed: 3/23/22
Sample Type: 6.0 L Silonite Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: AS01506

Initial Pressure (psig): -0.55 Final Pressure (psig): 4.00

Container Dilution Factor: 1.32

| CAS # | Compound | Result µg/m³ | MRL µg/m³ | Result ppbV | MRL ppbV | Data Qualifier |
|---|---|---|---|---|---|---|
| 78-93-3 | 2-Butanone (MEK) | **1.5** | 1.3 | **0.52** | 0.45 | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.15 | ND | 0.037 | |
| 110-54-3 | n-Hexane | ND | 0.70 | ND | 0.20 | |
| 67-66-3 | Chloroform | ND | 0.15 | ND | 0.030 | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.15 | ND | 0.036 | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.15 | ND | 0.027 | |
| 71-43-2 | Benzene | **0.62** | 0.15 | **0.19** | 0.045 | |
| 56-23-5 | Carbon Tetrachloride | **0.35** | 0.15 | **0.056** | 0.023 | |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.15 | ND | 0.031 | |
| 75-27-4 | Bromodichloromethane | ND | 0.15 | ND | 0.022 | |
| 79-01-6 | Trichloroethene | ND | 0.15 | ND | 0.027 | |
| 123-91-1 | 1,4-Dioxane | ND | 0.69 | ND | 0.19 | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.70 | ND | 0.15 | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 1.5 | ND | 0.35 | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.67 | ND | 0.15 | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.15 | ND | 0.027 | |
| 108-88-3 | Toluene | **0.81** | 0.69 | **0.21** | 0.18 | |
| 591-78-6 | 2-Hexanone | ND | 1.5 | ND | 0.35 | |
| 124-48-1 | Dibromochloromethane | ND | 0.15 | ND | 0.017 | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.15 | ND | 0.019 | |
| 123-86-4 | n-Butyl Acetate | ND | 1.5 | ND | 0.31 | |
| 127-18-4 | Tetrachloroethene | **1.2** | 0.15 | **0.18** | 0.021 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

# ALS ENVIRONMENTAL

RESULTS OF ANALYSIS



**Client:** **Verina Consulting Group, LLC**
**Client Sample ID:** **Office Area #1** ALS Project ID: P2201095
**Client Project ID:** **Dover Kirkwood / 5101.0002** ALS Sample ID: P2201095-003

Test Code: EPA TO-15 Date Collected: 3/9/22
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date Received: 3/10/22
Analyst: Wida Ang Date Analyzed: 3/23/22
Sample Type: 6.0 L Silonite Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: AS01506

Initial Pressure (psig): -0.55 Final Pressure (psig): 4.00

Container Dilution Factor: 1.32

| CAS # | Compound | Result µg/m³ | MRL µg/m³ | Result ppbV | MRL ppbV | Data Qualifier |
|---|---|---|---|---|---|---|
| 108-90-7 | Chlorobenzene | ND | 0.69 | ND | 0.15 | |
| 100-41-4 | Ethylbenzene | ND | 0.69 | ND | 0.16 | |
| 179601-23-1 | m,p-Xylenes | ND | 1.5 | ND | 0.33 | |
| 75-25-2 | Bromoform | ND | 0.69 | ND | 0.066 | |
| 100-42-5 | Styrene | ND | 0.69 | ND | 0.16 | |
| 95-47-6 | o-Xylene | ND | 0.69 | ND | 0.16 | |
| 111-84-2 | n-Nonane | ND | 0.69 | ND | 0.13 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.15 | ND | 0.021 | |
| 98-82-8 | Cumene | ND | 0.69 | ND | 0.14 | |
| 80-56-8 | alpha-Pinene | ND | 0.71 | ND | 0.13 | |
| 622-96-8 | 4-Ethyltoluene | ND | 0.70 | ND | 0.14 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.69 | ND | 0.14 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.69 | ND | 0.14 | |
| 100-44-7 | Benzyl Chloride | ND | 1.5 | ND | 0.28 | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.69 | ND | 0.11 | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.69 | ND | 0.11 | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.70 | ND | 0.12 | |
| 5989-27-5 | d-Limonene | ND | 0.69 | ND | 0.12 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 1.3 | ND | 0.14 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.3 | ND | 0.18 | |
| 91-20-3 | Naphthalene | ND | 0.69 | ND | 0.13 | |
| 87-68-3 | Hexachlorobutadiene | ND | 0.69 | ND | 0.064 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

RESULTS OF ANALYSIS



**Client:** **Verina Consulting Group, LLC**
**Client Sample ID:** **Caffeteria** ALS Project ID: P2201095
**Client Project ID:** **Dover Kirkwood / 5101.0002** ALS Sample ID: P2201095-004

Test Code: EPA TO-15 Date Collected: 3/9/22
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date Received: 3/10/22
Analyst: Wida Ang Date Analyzed: 3/23/22
Sample Type: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: AC02320

Initial Pressure (psig): -0.73 Final Pressure (psig): 4.55

Container Dilution Factor: 1.38

| CAS # | Compound | Result µg/m³ | MRL µg/m³ | Result ppbV | MRL ppbV | Data Qualifier |
|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane (CFC 12) | **3.1** | 0.73 | **0.63** | 0.15 | |
| 74-87-3 | Chloromethane | **0.33** | 0.29 | **0.16** | 0.14 | |
| 76-14-2 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | ND | 0.75 | ND | 0.11 | |
| 75-01-4 | Vinyl Chloride | ND | 0.15 | ND | 0.059 | |
| 106-99-0 | 1,3-Butadiene | ND | 0.29 | ND | 0.13 | |
| 74-83-9 | Bromomethane | ND | 0.29 | ND | 0.075 | |
| 75-00-3 | Chloroethane | ND | 0.29 | ND | 0.11 | |
| 64-17-5 | Ethanol | **180** | 6.9 | **96** | 3.7 | |
| 75-05-8 | Acetonitrile | ND | 1.4 | ND | 0.82 | |
| 107-02-8 | Acrolein | ND | 1.4 | ND | 0.60 | |
| 67-64-1 | Acetone | ND | 7.2 | ND | 3.0 | |
| 75-69-4 | Trichlorofluoromethane | **17** | 0.72 | **3.0** | 0.13 | |
| 67-63-0 | 2-Propanol (Isopropyl Alcohol) | **6.4** | 1.4 | **2.6** | 0.56 | |
| 107-13-1 | Acrylonitrile | ND | 1.4 | ND | 0.64 | |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.15 | ND | 0.038 | |
| 75-09-2 | Methylene Chloride | ND | 0.72 | ND | 0.21 | |
| 107-05-1 | 3-Chloro-1-propene (Allyl Chloride) | ND | 0.73 | ND | 0.23 | |
| 76-13-1 | Trichlorotrifluoroethane | ND | 0.75 | ND | 0.097 | |
| 75-15-0 | Carbon Disulfide | ND | 1.5 | ND | 0.49 | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.15 | ND | 0.038 | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.15 | ND | 0.038 | |
| 1634-04-4 | Methyl tert-Butyl Ether | ND | 0.73 | ND | 0.20 | |
| 108-05-4 | Vinyl Acetate | ND | 6.9 | ND | 2.0 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

RESULTS OF ANALYSIS



**Client:** **Verina Consulting Group, LLC**
**Client Sample ID:** **Caffeteria** ALS Project ID: P2201095
**Client Project ID:** **Dover Kirkwood / 5101.0002** ALS Sample ID: P2201095-004

Test Code: EPA TO-15 Date Collected: 3/9/22
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date Received: 3/10/22
Analyst: Wida Ang Date Analyzed: 3/23/22
Sample Type: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: AC02320

Initial Pressure (psig): -0.73 Final Pressure (psig): 4.55

Container Dilution Factor: 1.38

| CAS # | Compound | Result µg/m³ | MRL µg/m³ | Result ppbV | MRL ppbV | Data Qualifier |
|---|---|---|---|---|---|---|
| 78-93-3 | 2-Butanone (MEK) | ND | 1.4 | ND | 0.47 | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.15 | ND | 0.038 | |
| 110-54-3 | n-Hexane | ND | 0.73 | ND | 0.21 | |
| 67-66-3 | Chloroform | ND | 0.15 | ND | 0.031 | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.15 | ND | 0.038 | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.15 | ND | 0.028 | |
| 71-43-2 | Benzene | **0.76** | 0.15 | **0.24** | 0.048 | |
| 56-23-5 | Carbon Tetrachloride | **0.36** | 0.15 | **0.057** | 0.024 | |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.15 | ND | 0.033 | |
| 75-27-4 | Bromodichloromethane | ND | 0.15 | ND | 0.023 | |
| 79-01-6 | Trichloroethene | ND | 0.15 | ND | 0.028 | |
| 123-91-1 | 1,4-Dioxane | ND | 0.72 | ND | 0.20 | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.73 | ND | 0.16 | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 1.5 | ND | 0.37 | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.70 | ND | 0.16 | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.15 | ND | 0.028 | |
| 108-88-3 | Toluene | **2.4** | 0.72 | **0.63** | 0.19 | |
| 591-78-6 | 2-Hexanone | ND | 1.5 | ND | 0.37 | |
| 124-48-1 | Dibromochloromethane | ND | 0.15 | ND | 0.018 | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.15 | ND | 0.020 | |
| 123-86-4 | n-Butyl Acetate | ND | 1.5 | ND | 0.32 | |
| 127-18-4 | Tetrachloroethene | **1.2** | 0.15 | **0.17** | 0.022 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

**Client:** **Verina Consulting Group, LLC**

**Client Sample ID:** **Caffeteria** ALS Project ID: P2201095

**Client Project ID:** **Dover Kirkwood / 5101.0002** ALS Sample ID: P2201095-004

| | | | |
|---|---|---|---|
| Test Code: | EPA TO-15 | Date Collected: | 3/9/22 |
| Instrument ID: | Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 | Date Received: | 3/10/22 |
| Analyst: | Wida Ang | Date Analyzed: | 3/23/22 |
| Sample Type: | 6.0 L Summa Canister | Volume(s) Analyzed: | 1.00 Liter(s) |
| Test Notes: | | | |
| Container ID: | AC02320 | | |

Initial Pressure (psig): -0.73 Final Pressure (psig): 4.55

Container Dilution Factor: 1.38

| CAS # | Compound | Result µg/m³ | MRL µg/m³ | Result ppbV | MRL ppbV | Data Qualifier |
|---|---|---|---|---|---|---|
| 108-90-7 | Chlorobenzene | ND | 0.72 | ND | 0.16 | |
| 100-41-4 | Ethylbenzene | ND | 0.72 | ND | 0.17 | |
| 179601-23-1 | m,p-Xylenes | ND | 1.5 | ND | 0.35 | |
| 75-25-2 | Bromoform | ND | 0.72 | ND | 0.069 | |
| 100-42-5 | Styrene | ND | 0.72 | ND | 0.17 | |
| 95-47-6 | o-Xylene | ND | 0.72 | ND | 0.17 | |
| 111-84-2 | n-Nonane | ND | 0.72 | ND | 0.14 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.15 | ND | 0.022 | |
| 98-82-8 | Cumene | ND | 0.72 | ND | 0.15 | |
| 80-56-8 | alpha-Pinene | ND | 0.75 | ND | 0.13 | |
| 622-96-8 | 4-Ethyltoluene | ND | 0.73 | ND | 0.15 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.72 | ND | 0.15 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.72 | ND | 0.15 | |
| 100-44-7 | Benzyl Chloride | ND | 1.5 | ND | 0.29 | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.72 | ND | 0.12 | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.72 | ND | 0.12 | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.73 | ND | 0.12 | |
| 5989-27-5 | d-Limonene | ND | 0.72 | ND | 0.13 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 1.4 | ND | 0.14 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.4 | ND | 0.19 | |
| 91-20-3 | Naphthalene | ND | 0.72 | ND | 0.14 | |
| 87-68-3 | Hexachlorobutadiene | ND | 0.72 | ND | 0.067 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

RESULTS OF ANALYSIS



**Client:** **Verina Consulting Group, LLC**
**Client Sample ID:** **A/C Area** ALS Project ID: P2201095
**Client Project ID:** **Dover Kirkwood / 5101.0002** ALS Sample ID: P2201095-005

Test Code: EPA TO-15 Date Collected: 3/9/22
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date Received: 3/10/22
Analyst: Wida Ang Date Analyzed: 3/23/22
Sample Type: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: AC02385

Initial Pressure (psig): -0.36 Final Pressure (psig): 4.72

Container Dilution Factor: 1.35

| CAS # | Compound | Result µg/m³ | MRL µg/m³ | Result ppbV | MRL ppbV | Data Qualifier |
|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane (CFC 12) | **3.3** | 0.72 | **0.66** | 0.14 | |
| 74-87-3 | Chloromethane | **0.35** | 0.28 | **0.17** | 0.14 | |
| 76-14-2 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | ND | 0.73 | ND | 0.10 | |
| 75-01-4 | Vinyl Chloride | ND | 0.15 | ND | 0.058 | |
| 106-99-0 | 1,3-Butadiene | ND | 0.28 | ND | 0.13 | |
| 74-83-9 | Bromomethane | ND | 0.28 | ND | 0.073 | |
| 75-00-3 | Chloroethane | ND | 0.28 | ND | 0.11 | |
| 64-17-5 | Ethanol | **240** | 6.8 | **130** | 3.6 | |
| 75-05-8 | Acetonitrile | ND | 1.4 | ND | 0.80 | |
| 107-02-8 | Acrolein | ND | 1.4 | ND | 0.59 | |
| 67-64-1 | Acetone | **10** | 7.0 | **4.2** | 3.0 | |
| 75-69-4 | Trichlorofluoromethane | **12** | 0.70 | **2.1** | 0.12 | |
| 67-63-0 | 2-Propanol (Isopropyl Alcohol) | **2.8** | 1.4 | **1.1** | 0.55 | |
| 107-13-1 | Acrylonitrile | ND | 1.4 | ND | 0.62 | |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.15 | ND | 0.037 | |
| 75-09-2 | Methylene Chloride | ND | 0.70 | ND | 0.20 | |
| 107-05-1 | 3-Chloro-1-propene (Allyl Chloride) | ND | 0.72 | ND | 0.23 | |
| 76-13-1 | Trichlorotrifluoroethane | ND | 0.73 | ND | 0.095 | |
| 75-15-0 | Carbon Disulfide | ND | 1.5 | ND | 0.48 | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.15 | ND | 0.037 | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.15 | ND | 0.037 | |
| 1634-04-4 | Methyl tert-Butyl Ether | ND | 0.72 | ND | 0.20 | |
| 108-05-4 | Vinyl Acetate | ND | 6.8 | ND | 1.9 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

**Client:** **Verina Consulting Group, LLC**
**Client Sample ID:** **A/C Area** ALS Project ID: P2201095
**Client Project ID:** **Dover Kirkwood / 5101.0002** ALS Sample ID: P2201095-005

Test Code: EPA TO-15 Date Collected: 3/9/22
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date Received: 3/10/22
Analyst: Wida Ang Date Analyzed: 3/23/22
Sample Type: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: AC02385

Initial Pressure (psig): -0.36 Final Pressure (psig): 4.72

Container Dilution Factor: 1.35

| CAS # | Compound | Result µg/m³ | MRL µg/m³ | Result ppbV | MRL ppbV | Data Qualifier |
|---|---|---|---|---|---|---|
| 78-93-3 | 2-Butanone (MEK) | ND | 1.4 | ND | 0.46 | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.15 | ND | 0.037 | |
| 110-54-3 | n-Hexane | ND | 0.72 | ND | 0.20 | |
| 67-66-3 | Chloroform | ND | 0.15 | ND | 0.030 | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.15 | ND | 0.037 | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.15 | ND | 0.027 | |
| 71-43-2 | Benzene | **0.63** | 0.15 | **0.20** | 0.047 | |
| 56-23-5 | Carbon Tetrachloride | **0.35** | 0.15 | **0.056** | 0.024 | |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.15 | ND | 0.032 | |
| 75-27-4 | Bromodichloromethane | ND | 0.15 | ND | 0.022 | |
| 79-01-6 | Trichloroethene | ND | 0.15 | ND | 0.028 | |
| 123-91-1 | 1,4-Dioxane | ND | 0.70 | ND | 0.19 | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.72 | ND | 0.16 | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 1.5 | ND | 0.36 | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.69 | ND | 0.15 | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.15 | ND | 0.027 | |
| 108-88-3 | Toluene | **0.86** | 0.70 | **0.23** | 0.19 | |
| 591-78-6 | 2-Hexanone | ND | 1.5 | ND | 0.36 | |
| 124-48-1 | Dibromochloromethane | ND | 0.15 | ND | 0.017 | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.15 | ND | 0.019 | |
| 123-86-4 | n-Butyl Acetate | ND | 1.5 | ND | 0.31 | |
| 127-18-4 | Tetrachloroethene | **1.7** | 0.15 | **0.26** | 0.022 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

**Client:** **Verina Consulting Group, LLC**

**Client Sample ID:** **A/C Area** ALS Project ID: P2201095

**Client Project ID:** **Dover Kirkwood / 5101.0002** ALS Sample ID: P2201095-005

Test Code: EPA TO-15 Date Collected: 3/9/22

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date Received: 3/10/22

Analyst: Wida Ang Date Analyzed: 3/23/22

Sample Type: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: AC02385

Initial Pressure (psig): -0.36 Final Pressure (psig): 4.72

Container Dilution Factor: 1.35

| CAS # | Compound | Result µg/m³ | MRL µg/m³ | Result ppbV | MRL ppbV | Data Qualifier |
|---|---|---|---|---|---|---|
| 108-90-7 | Chlorobenzene | ND | 0.70 | ND | 0.15 | |
| 100-41-4 | Ethylbenzene | ND | 0.70 | ND | 0.16 | |
| 179601-23-1 | m,p-Xylenes | ND | 1.5 | ND | 0.34 | |
| 75-25-2 | Bromoform | ND | 0.70 | ND | 0.068 | |
| 100-42-5 | Styrene | ND | 0.70 | ND | 0.16 | |
| 95-47-6 | o-Xylene | ND | 0.70 | ND | 0.16 | |
| 111-84-2 | n-Nonane | ND | 0.70 | ND | 0.13 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.15 | ND | 0.022 | |
| 98-82-8 | Cumene | ND | 0.70 | ND | 0.14 | |
| 80-56-8 | alpha-Pinene | ND | 0.73 | ND | 0.13 | |
| 622-96-8 | 4-Ethyltoluene | ND | 0.72 | ND | 0.15 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.70 | ND | 0.14 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.70 | ND | 0.14 | |
| 100-44-7 | Benzyl Chloride | ND | 1.5 | ND | 0.29 | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.70 | ND | 0.12 | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.70 | ND | 0.12 | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.72 | ND | 0.12 | |
| 5989-27-5 | d-Limonene | ND | 0.70 | ND | 0.13 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 1.4 | ND | 0.14 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.4 | ND | 0.18 | |
| 91-20-3 | Naphthalene | ND | 0.70 | ND | 0.13 | |
| 87-68-3 | Hexachlorobutadiene | ND | 0.70 | ND | 0.066 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

# ALS ENVIRONMENTAL

RESULTS OF ANALYSIS



**Client:** **Verina Consulting Group, LLC**
**Client Sample ID:** **Office Area #2** ALS Project ID: P2201095
**Client Project ID:** **Dover Kirkwood / 5101.0002** ALS Sample ID: P2201095-006

Test Code: EPA TO-15 Date Collected: 3/9/22
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date Received: 3/10/22
Analyst: Wida Ang Date Analyzed: 3/23/22
Sample Type: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: AC02127

Initial Pressure (psig): -1.36 Final Pressure (psig): 3.95

Container Dilution Factor: 1.40

| CAS # | Compound | Result µg/m³ | MRL µg/m³ | Result ppbV | MRL ppbV | Data Qualifier |
|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane (CFC 12) | **3.2** | 0.74 | **0.64** | 0.15 | |
| 74-87-3 | Chloromethane | ND | 0.29 | ND | 0.14 | |
| 76-14-2 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | ND | 0.76 | ND | 0.11 | |
| 75-01-4 | Vinyl Chloride | ND | 0.15 | ND | 0.060 | |
| 106-99-0 | 1,3-Butadiene | ND | 0.29 | ND | 0.13 | |
| 74-83-9 | Bromomethane | ND | 0.29 | ND | 0.076 | |
| 75-00-3 | Chloroethane | ND | 0.29 | ND | 0.11 | |
| 64-17-5 | Ethanol | **200** | 7.0 | **110** | 3.7 | |
| 75-05-8 | Acetonitrile | ND | 1.4 | ND | 0.83 | |
| 107-02-8 | Acrolein | ND | 1.4 | ND | 0.61 | |
| 67-64-1 | Acetone | **9.1** | 7.3 | **3.8** | 3.1 | |
| 75-69-4 | Trichlorofluoromethane | **17** | 0.73 | **3.0** | 0.13 | |
| 67-63-0 | 2-Propanol (Isopropyl Alcohol) | **1.9** | 1.4 | **0.78** | 0.57 | |
| 107-13-1 | Acrylonitrile | ND | 1.4 | ND | 0.65 | |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.15 | ND | 0.039 | |
| 75-09-2 | Methylene Chloride | ND | 0.73 | ND | 0.21 | |
| 107-05-1 | 3-Chloro-1-propene (Allyl Chloride) | ND | 0.74 | ND | 0.24 | |
| 76-13-1 | Trichlorotrifluoroethane | ND | 0.76 | ND | 0.099 | |
| 75-15-0 | Carbon Disulfide | ND | 1.5 | ND | 0.49 | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.15 | ND | 0.039 | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.15 | ND | 0.038 | |
| 1634-04-4 | Methyl tert-Butyl Ether | ND | 0.74 | ND | 0.21 | |
| 108-05-4 | Vinyl Acetate | ND | 7.0 | ND | 2.0 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

RESULTS OF ANALYSIS



**Client:** **Verina Consulting Group, LLC**
**Client Sample ID:** **Office Area #2** ALS Project ID: P2201095
**Client Project ID:** **Dover Kirkwood / 5101.0002** ALS Sample ID: P2201095-006

Test Code: EPA TO-15 Date Collected: 3/9/22
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date Received: 3/10/22
Analyst: Wida Ang Date Analyzed: 3/23/22
Sample Type: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: AC02127

Initial Pressure (psig): -1.36 Final Pressure (psig): 3.95

Container Dilution Factor: 1.40

| CAS # | Compound | Result µg/m³ | MRL µg/m³ | Result ppbV | MRL ppbV | Data Qualifier |
|---|---|---|---|---|---|---|
| 78-93-3 | 2-Butanone (MEK) | ND | 1.4 | ND | 0.47 | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.15 | ND | 0.039 | |
| 110-54-3 | n-Hexane | ND | 0.74 | ND | 0.21 | |
| 67-66-3 | Chloroform | ND | 0.15 | ND | 0.032 | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.15 | ND | 0.038 | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.15 | ND | 0.028 | |
| 71-43-2 | Benzene | **0.64** | 0.15 | **0.20** | 0.048 | |
| 56-23-5 | Carbon Tetrachloride | **0.34** | 0.15 | **0.055** | 0.024 | |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.15 | ND | 0.033 | |
| 75-27-4 | Bromodichloromethane | ND | 0.15 | ND | 0.023 | |
| 79-01-6 | Trichloroethene | ND | 0.15 | ND | 0.029 | |
| 123-91-1 | 1,4-Dioxane | ND | 0.73 | ND | 0.20 | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.74 | ND | 0.16 | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 1.5 | ND | 0.38 | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.71 | ND | 0.16 | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.15 | ND | 0.028 | |
| 108-88-3 | Toluene | **1.1** | 0.73 | **0.29** | 0.19 | |
| 591-78-6 | 2-Hexanone | ND | 1.5 | ND | 0.38 | |
| 124-48-1 | Dibromochloromethane | ND | 0.15 | ND | 0.018 | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.15 | ND | 0.020 | |
| 123-86-4 | n-Butyl Acetate | ND | 1.5 | ND | 0.32 | |
| 127-18-4 | Tetrachloroethene | **1.1** | 0.15 | **0.17** | 0.023 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

**Client:** **Verina Consulting Group, LLC**
**Client Sample ID:** **Office Area #2** ALS Project ID: P2201095
**Client Project ID:** **Dover Kirkwood / 5101.0002** ALS Sample ID: P2201095-006

Test Code: EPA TO-15 Date Collected: 3/9/22
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date Received: 3/10/22
Analyst: Wida Ang Date Analyzed: 3/23/22
Sample Type: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: AC02127

Initial Pressure (psig): -1.36 Final Pressure (psig): 3.95

Container Dilution Factor: 1.40

| CAS # | Compound | Result µg/m³ | MRL µg/m³ | Result ppbV | MRL ppbV | Data Qualifier |
|---|---|---|---|---|---|---|
| 108-90-7 | Chlorobenzene | ND | 0.73 | ND | 0.16 | |
| 100-41-4 | Ethylbenzene | ND | 0.73 | ND | 0.17 | |
| 179601-23-1 | m,p-Xylenes | ND | 1.5 | ND | 0.35 | |
| 75-25-2 | Bromoform | ND | 0.73 | ND | 0.070 | |
| 100-42-5 | Styrene | ND | 0.73 | ND | 0.17 | |
| 95-47-6 | o-Xylene | ND | 0.73 | ND | 0.17 | |
| 111-84-2 | n-Nonane | ND | 0.73 | ND | 0.14 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.15 | ND | 0.022 | |
| 98-82-8 | Cumene | ND | 0.73 | ND | 0.15 | |
| 80-56-8 | alpha-Pinene | ND | 0.76 | ND | 0.14 | |
| 622-96-8 | 4-Ethyltoluene | ND | 0.74 | ND | 0.15 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.73 | ND | 0.15 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.73 | ND | 0.15 | |
| 100-44-7 | Benzyl Chloride | ND | 1.5 | ND | 0.30 | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.73 | ND | 0.12 | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.73 | ND | 0.12 | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.74 | ND | 0.12 | |
| 5989-27-5 | d-Limonene | ND | 0.73 | ND | 0.13 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 1.4 | ND | 0.14 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.4 | ND | 0.19 | |
| 91-20-3 | Naphthalene | ND | 0.73 | ND | 0.14 | |
| 87-68-3 | Hexachlorobutadiene | ND | 0.73 | ND | 0.068 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

RESULTS OF ANALYSIS



**Client:** **Verina Consulting Group, LLC**
**Client Sample ID:** **Electrical Area** ALS Project ID: P2201095
**Client Project ID:** **Dover Kirkwood / 5101.0002** ALS Sample ID: P2201095-007

Test Code: EPA TO-15 Date Collected: 3/9/22
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date Received: 3/10/22
Analyst: Wida Ang Date Analyzed: 3/23/22
Sample Type: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: AC02276

Initial Pressure (psig): -1.30 Final Pressure (psig): 3.95
Initial Pressure 2 (psig): -0.08 Final Pressure 2 (psig): 2.60
Container Dilution Factor: 1.65

| CAS # | Compound | Result µg/m³ | MRL µg/m³ | Result ppbV | MRL ppbV | Data Qualifier |
|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane (CFC 12) | **3.3** | 0.87 | **0.66** | 0.18 | |
| 74-87-3 | Chloromethane | ND | 0.35 | ND | 0.17 | |
| 76-14-2 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | ND | 0.89 | ND | 0.13 | |
| 75-01-4 | Vinyl Chloride | ND | 0.18 | ND | 0.071 | |
| 106-99-0 | 1,3-Butadiene | ND | 0.35 | ND | 0.16 | |
| 74-83-9 | Bromomethane | ND | 0.35 | ND | 0.089 | |
| 75-00-3 | Chloroethane | ND | 0.35 | ND | 0.13 | |
| 64-17-5 | Ethanol | **190** | 8.3 | **99** | 4.4 | |
| 75-05-8 | Acetonitrile | ND | 1.7 | ND | 0.98 | |
| 107-02-8 | Acrolein | ND | 1.7 | ND | 0.72 | |
| 67-64-1 | Acetone | ND | 8.6 | ND | 3.6 | |
| 75-69-4 | Trichlorofluoromethane | **13** | 0.86 | **2.2** | 0.15 | |
| 67-63-0 | 2-Propanol (Isopropyl Alcohol) | **2.0** | 1.7 | **0.83** | 0.67 | |
| 107-13-1 | Acrylonitrile | ND | 1.7 | ND | 0.76 | |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.18 | ND | 0.046 | |
| 75-09-2 | Methylene Chloride | ND | 0.86 | ND | 0.25 | |
| 107-05-1 | 3-Chloro-1-propene (Allyl Chloride) | ND | 0.87 | ND | 0.28 | |
| 76-13-1 | Trichlorotrifluoroethane | ND | 0.89 | ND | 0.12 | |
| 75-15-0 | Carbon Disulfide | ND | 1.8 | ND | 0.58 | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.18 | ND | 0.046 | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.18 | ND | 0.045 | |
| 1634-04-4 | Methyl tert-Butyl Ether | ND | 0.87 | ND | 0.24 | |
| 108-05-4 | Vinyl Acetate | ND | 8.3 | ND | 2.3 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

**Client:** **Verina Consulting Group, LLC**
**Client Sample ID:** **Electrical Area** ALS Project ID: P2201095
**Client Project ID:** **Dover Kirkwood / 5101.0002** ALS Sample ID: P2201095-007

Test Code: EPA TO-15 Date Collected: 3/9/22
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date Received: 3/10/22
Analyst: Wida Ang Date Analyzed: 3/23/22
Sample Type: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: AC02276

Initial Pressure (psig): -1.30 Final Pressure (psig): 3.95
Initial Pressure 2 (psig): -0.08 Final Pressure 2 (psig): 2.60

Container Dilution Factor: 1.65

| CAS # | Compound | Result µg/m³ | MRL µg/m³ | Result ppbV | MRL ppbV | Data Qualifier |
|---|---|---|---|---|---|---|
| 78-93-3 | 2-Butanone (MEK) | ND | 1.7 | ND | 0.56 | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.18 | ND | 0.046 | |
| 110-54-3 | n-Hexane | ND | 0.87 | ND | 0.25 | |
| 67-66-3 | Chloroform | ND | 0.18 | ND | 0.037 | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.18 | ND | 0.045 | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.18 | ND | 0.033 | |
| 71-43-2 | Benzene | **0.61** | 0.18 | **0.19** | 0.057 | |
| 56-23-5 | Carbon Tetrachloride | **0.35** | 0.18 | **0.055** | 0.029 | |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.18 | ND | 0.039 | |
| 75-27-4 | Bromodichloromethane | ND | 0.18 | ND | 0.027 | |
| 79-01-6 | Trichloroethene | ND | 0.18 | ND | 0.034 | |
| 123-91-1 | 1,4-Dioxane | ND | 0.86 | ND | 0.24 | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.87 | ND | 0.19 | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 1.8 | ND | 0.44 | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.84 | ND | 0.19 | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.18 | ND | 0.033 | |
| 108-88-3 | Toluene | **0.91** | 0.86 | **0.24** | 0.23 | |
| 591-78-6 | 2-Hexanone | ND | 1.8 | ND | 0.44 | |
| 124-48-1 | Dibromochloromethane | ND | 0.18 | ND | 0.021 | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.18 | ND | 0.024 | |
| 123-86-4 | n-Butyl Acetate | ND | 1.8 | ND | 0.38 | |
| 127-18-4 | Tetrachloroethene | **1.6** | 0.18 | **0.24** | 0.027 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

**Client:** **Verina Consulting Group, LLC**
**Client Sample ID:** **Electrical Area** ALS Project ID: P2201095
**Client Project ID:** **Dover Kirkwood / 5101.0002** ALS Sample ID: P2201095-007

Test Code: EPA TO-15 Date Collected: 3/9/22
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date Received: 3/10/22
Analyst: Wida Ang Date Analyzed: 3/23/22
Sample Type: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: AC02276

Initial Pressure (psig): -1.30 Final Pressure (psig): 3.95
Initial Pressure 2 (psig): -0.08 Final Pressure 2 (psig): 2.60

Container Dilution Factor: 1.65

| CAS # | Compound | Result µg/m³ | MRL µg/m³ | Result ppbV | MRL ppbV | Data Qualifier |
|---|---|---|---|---|---|---|
| 108-90-7 | Chlorobenzene | ND | 0.86 | ND | 0.19 | |
| 100-41-4 | Ethylbenzene | ND | 0.86 | ND | 0.20 | |
| 179601-23-1 | m,p-Xylenes | ND | 1.8 | ND | 0.42 | |
| 75-25-2 | Bromoform | ND | 0.86 | ND | 0.083 | |
| 100-42-5 | Styrene | ND | 0.86 | ND | 0.20 | |
| 95-47-6 | o-Xylene | ND | 0.86 | ND | 0.20 | |
| 111-84-2 | n-Nonane | ND | 0.86 | ND | 0.16 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.18 | ND | 0.026 | |
| 98-82-8 | Cumene | ND | 0.86 | ND | 0.17 | |
| 80-56-8 | alpha-Pinene | ND | 0.89 | ND | 0.16 | |
| 622-96-8 | 4-Ethyltoluene | ND | 0.87 | ND | 0.18 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.86 | ND | 0.17 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.86 | ND | 0.17 | |
| 100-44-7 | Benzyl Chloride | ND | 1.8 | ND | 0.35 | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.86 | ND | 0.14 | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.86 | ND | 0.14 | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.87 | ND | 0.15 | |
| 5989-27-5 | d-Limonene | ND | 0.86 | ND | 0.15 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 1.7 | ND | 0.17 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.7 | ND | 0.22 | |
| 91-20-3 | Naphthalene | ND | 0.86 | ND | 0.16 | |
| 87-68-3 | Hexachlorobutadiene | ND | 0.86 | ND | 0.080 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

**Client:** **Verina Consulting Group, LLC**
**Client Sample ID:** **Method Blank** ALS Project ID: P2201095
**Client Project ID:** **Dover Kirkwood / 5101.0002** ALS Sample ID: P220323-MB

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date Received: NA
Analyst: Wida Ang Date Analyzed: 3/23/22
Sample Type: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:

Container Dilution Factor: 1.00

| CAS # | Compound | Result µg/m³ | MRL µg/m³ | Result ppbV | MRL ppbV | Data Qualifier |
|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane (CFC 12) | ND | 0.53 | ND | 0.11 | |
| 74-87-3 | Chloromethane | ND | 0.21 | ND | 0.10 | |
| 76-14-2 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | ND | 0.54 | ND | 0.077 | |
| 75-01-4 | Vinyl Chloride | ND | 0.11 | ND | 0.043 | |
| 106-99-0 | 1,3-Butadiene | ND | 0.21 | ND | 0.095 | |
| 74-83-9 | Bromomethane | ND | 0.21 | ND | 0.054 | |
| 75-00-3 | Chloroethane | ND | 0.21 | ND | 0.080 | |
| 64-17-5 | Ethanol | ND | 5.0 | ND | 2.7 | |
| 75-05-8 | Acetonitrile | ND | 1.0 | ND | 0.60 | |
| 107-02-8 | Acrolein | ND | 1.0 | ND | 0.44 | |
| 67-64-1 | Acetone | ND | 5.2 | ND | 2.2 | |
| 75-69-4 | Trichlorofluoromethane | ND | 0.52 | ND | 0.093 | |
| 67-63-0 | 2-Propanol (Isopropyl Alcohol) | ND | 1.0 | ND | 0.41 | |
| 107-13-1 | Acrylonitrile | ND | 1.0 | ND | 0.46 | |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.11 | ND | 0.028 | |
| 75-09-2 | Methylene Chloride | ND | 0.52 | ND | 0.15 | |
| 107-05-1 | 3-Chloro-1-propene (Allyl Chloride) | ND | 0.53 | ND | 0.17 | |
| 76-13-1 | Trichlorotrifluoroethane | ND | 0.54 | ND | 0.070 | |
| 75-15-0 | Carbon Disulfide | ND | 1.1 | ND | 0.35 | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.11 | ND | 0.028 | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.11 | ND | 0.027 | |
| 1634-04-4 | Methyl tert-Butyl Ether | ND | 0.53 | ND | 0.15 | |
| 108-05-4 | Vinyl Acetate | ND | 5.0 | ND | 1.4 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

**Client:** **Verina Consulting Group, LLC**
**Client Sample ID:** **Method Blank** ALS Project ID: P2201095
**Client Project ID:** **Dover Kirkwood / 5101.0002** ALS Sample ID: P220323-MB

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date Received: NA
Analyst: Wida Ang Date Analyzed: 3/23/22
Sample Type: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:

Container Dilution Factor: 1.00

| CAS # | Compound | Result µg/m³ | MRL µg/m³ | Result ppbV | MRL ppbV | Data Qualifier |
|---|---|---|---|---|---|---|
| 78-93-3 | 2-Butanone (MEK) | ND | 1.0 | ND | 0.34 | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.11 | ND | 0.028 | |
| 110-54-3 | n-Hexane | ND | 0.53 | ND | 0.15 | |
| 67-66-3 | Chloroform | ND | 0.11 | ND | 0.023 | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.11 | ND | 0.027 | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.11 | ND | 0.020 | |
| 71-43-2 | Benzene | ND | 0.11 | ND | 0.034 | |
| 56-23-5 | Carbon Tetrachloride | ND | 0.11 | ND | 0.017 | |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.11 | ND | 0.024 | |
| 75-27-4 | Bromodichloromethane | ND | 0.11 | ND | 0.016 | |
| 79-01-6 | Trichloroethene | ND | 0.11 | ND | 0.020 | |
| 123-91-1 | 1,4-Dioxane | ND | 0.52 | ND | 0.14 | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.53 | ND | 0.12 | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 1.1 | ND | 0.27 | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.51 | ND | 0.11 | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.11 | ND | 0.020 | |
| 108-88-3 | Toluene | ND | 0.52 | ND | 0.14 | |
| 591-78-6 | 2-Hexanone | ND | 1.1 | ND | 0.27 | |
| 124-48-1 | Dibromochloromethane | ND | 0.11 | ND | 0.013 | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.11 | ND | 0.014 | |
| 123-86-4 | n-Butyl Acetate | ND | 1.1 | ND | 0.23 | |
| 127-18-4 | Tetrachloroethene | ND | 0.11 | ND | 0.016 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

**Client:** **Verina Consulting Group, LLC**
**Client Sample ID:** **Method Blank** ALS Project ID: P2201095
**Client Project ID:** **Dover Kirkwood / 5101.0002** ALS Sample ID: P220323-MB

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date Received: NA
Analyst: Wida Ang Date Analyzed: 3/23/22
Sample Type: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:

Container Dilution Factor: 1.00

| CAS # | Compound | Result µg/m³ | MRL µg/m³ | Result ppbV | MRL ppbV | Data Qualifier |
|---|---|---|---|---|---|---|
| 108-90-7 | Chlorobenzene | ND | 0.52 | ND | 0.11 | |
| 100-41-4 | Ethylbenzene | ND | 0.52 | ND | 0.12 | |
| 179601-23-1 | m,p-Xylenes | ND | 1.1 | ND | 0.25 | |
| 75-25-2 | Bromoform | ND | 0.52 | ND | 0.050 | |
| 100-42-5 | Styrene | ND | 0.52 | ND | 0.12 | |
| 95-47-6 | o-Xylene | ND | 0.52 | ND | 0.12 | |
| 111-84-2 | n-Nonane | ND | 0.52 | ND | 0.099 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.11 | ND | 0.016 | |
| 98-82-8 | Cumene | ND | 0.52 | ND | 0.11 | |
| 80-56-8 | alpha-Pinene | ND | 0.54 | ND | 0.097 | |
| 622-96-8 | 4-Ethyltoluene | ND | 0.53 | ND | 0.11 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.52 | ND | 0.11 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.52 | ND | 0.11 | |
| 100-44-7 | Benzyl Chloride | ND | 1.1 | ND | 0.21 | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.52 | ND | 0.087 | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.52 | ND | 0.087 | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.53 | ND | 0.088 | |
| 5989-27-5 | d-Limonene | ND | 0.52 | ND | 0.093 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 1.0 | ND | 0.10 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | ND | 0.13 | |
| 91-20-3 | Naphthalene | ND | 0.52 | ND | 0.099 | |
| 87-68-3 | Hexachlorobutadiene | ND | 0.52 | ND | 0.049 | |

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

## ALS ENVIRONMENTAL

SURROGATE SPIKE RECOVERY RESULTS



**Client:** **Verina Consulting Group, LLC**
**Client Project ID:** **Dover Kirkwood / 5101.0002** ALS Project ID: P2201095

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date(s) Collected: 3/9/22
Analyst: Wida Ang Date(s) Received: 3/10/22
Sample Type: 6.0 L Summa Canister(s) / 6.0 L Silonite Canister(s) Date(s) Analyzed: 3/23/22
Test Notes:

| Client Sample ID | ALS Sample ID | 1,2-Dichloroethane-d4 Percent Recovered | Toluene-d8 Percent Recovered | Bromofluorobenzene Percent Recovered | Acceptance Limits | Data Qualifier |
|---|---|---|---|---|---|---|
| Method Blank | P220323-MB | **100** | **93** | **101** | 70-130 | |
| Lab Control Sample | P220323-LCS | **100** | **90** | **106** | 70-130 | |
| Duplicate Lab Control Sample | P220323-DLCS | **98** | **93** | **107** | 70-130 | |
| Computer Servers | P2201095-001 | **97** | **93** | **102** | 70-130 | |
| Hallway | P2201095-002 | **99** | **92** | **100** | 70-130 | |
| Office Area #1 | P2201095-003 | **101** | **93** | **98** | 70-130 | |
| Caffeteria | P2201095-004 | **100** | **91** | **100** | 70-130 | |
| A/C Area | P2201095-005 | **100** | **90** | **99** | 70-130 | |
| Office Area #2 | P2201095-006 | **100** | **92** | **97** | 70-130 | |
| Electrical Area | P2201095-007 | **101** | **92** | **101** | 70-130 | |

Surrogate percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

## ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY



**Client:** **Verina Consulting Group, LLC**
**Client Sample ID:** **Duplicate Lab Control Sample** ALS Project ID: P2201095
**Client Project ID:** **Dover Kirkwood / 5101.0002** ALS Sample ID: P220323-DLCS

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date Received: NA
Analyst: Wida Ang Date Analyzed: 3/23/22
Sample Type: 6.0 L Summa Canister Volume(s) Analyzed: 0.125 Liter(s)
Test Notes:

| CAS # | Compound | Spike Amount LCS / DLCS µg/m³ | Result LCS µg/m³ | Result DLCS µg/m³ | % Recovery LCS | % Recovery DLCS | ALS Acceptance Limits | RPD | RPD Limit | Data Qualifier |
|---|---|---|---|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane (CFC 12) | 208 | 158 | 162 | **76** | **78** | 71-112 | 3 | 25 | |
| 74-87-3 | Chloromethane | 206 | 161 | 162 | **78** | **79** | 53-126 | 1 | 25 | |
| 76-14-2 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | 208 | 175 | 174 | **84** | **84** | 62-121 | 0 | 25 | |
| 75-01-4 | Vinyl Chloride | 208 | 163 | 166 | **78** | **80** | 63-123 | 3 | 25 | |
| 106-99-0 | 1,3-Butadiene | 206 | 183 | 193 | **89** | **94** | 63-135 | 5 | 25 | |
| 74-83-9 | Bromomethane | 206 | 161 | 171 | **78** | **83** | 71-112 | 6 | 25 | |
| 75-00-3 | Chloroethane | 206 | 170 | 179 | **83** | **87** | 66-117 | 5 | 25 | |
| 64-17-5 | Ethanol | 832 | 751 | 766 | **90** | **92** | 57-117 | 2 | 25 | |
| 75-05-8 | Acetonitrile | 202 | 151 | 156 | **75** | **77** | 59-131 | 3 | 25 | |
| 107-02-8 | Acrolein | 416 | 395 | 406 | **95** | **98** | 71-123 | 3 | 25 | |
| 67-64-1 | Acetone | 1,020 | 868 | 866 | **85** | **85** | 60-117 | 0 | 25 | |
| 75-69-4 | Trichlorofluoromethane | 202 | 160 | 165 | **79** | **82** | 71-114 | 4 | 25 | |
| 67-63-0 | 2-Propanol (Isopropyl Alcohol) | 400 | 303 | 301 | **76** | **75** | 61-124 | 1 | 25 | |
| 107-13-1 | Acrylonitrile | 402 | 341 | 348 | **85** | **87** | 65-130 | 2 | 25 | |
| 75-35-4 | 1,1-Dichloroethene | 210 | 171 | 179 | **81** | **85** | 74-114 | 5 | 25 | |
| 75-09-2 | Methylene Chloride | 208 | 169 | 173 | **81** | **83** | 75-112 | 2 | 25 | |
| 107-05-1 | 3-Chloro-1-propene (Allyl Chloride) | 204 | 163 | 165 | **80** | **81** | 57-127 | 1 | 25 | |
| 76-13-1 | Trichlorotrifluoroethane | 216 | 180 | 187 | **83** | **87** | 73-114 | 5 | 25 | |
| 75-15-0 | Carbon Disulfide | 414 | 359 | 364 | **87** | **88** | 70-113 | 1 | 25 | |
| 156-60-5 | trans-1,2-Dichloroethene | 208 | 171 | 176 | **82** | **85** | 76-119 | 4 | 25 | |
| 75-34-3 | 1,1-Dichloroethane | 214 | 173 | 177 | **81** | **83** | 70-114 | 2 | 25 | |
| 1634-04-4 | Methyl tert-Butyl Ether | 206 | 173 | 178 | **84** | **86** | 72-118 | 2 | 25 | |
| 108-05-4 | Vinyl Acetate | 942 | 969 | 960 | **103** | **102** | 56-137 | 1 | 25 | |

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

**Client:** **Verina Consulting Group, LLC**
**Client Sample ID:** **Duplicate Lab Control Sample** ALS Project ID: P2201095
**Client Project ID:** **Dover Kirkwood / 5101.0002** ALS Sample ID: P220323-DLCS

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date Received: NA
Analyst: Wida Ang Date Analyzed: 3/23/22
Sample Type: 6.0 L Summa Canister Volume(s) Analyzed: 0.125 Liter(s)
Test Notes:

| CAS # | Compound | Spike Amount LCS / DLCS µg/m³ | Result LCS µg/m³ | Result DLCS µg/m³ | % Recovery LCS | % Recovery DLCS | ALS Acceptance Limits | RPD | RPD Limit | Data Qualifier |
|---|---|---|---|---|---|---|---|---|---|---|
| 78-93-3 | 2-Butanone (MEK) | 408 | 344 | 347 | **84** | **85** | 74-121 | 1 | 25 | |
| 156-59-2 | cis-1,2-Dichloroethene | 206 | 171 | 175 | **83** | **85** | 73-117 | 2 | 25 | |
| 110-54-3 | n-Hexane | 208 | 206 | 202 | **99** | **97** | 55-130 | 2 | 25 | |
| 67-66-3 | Chloroform | 210 | 178 | 180 | **85** | **86** | 71-114 | 1 | 25 | |
| 107-06-2 | 1,2-Dichloroethane | 210 | 169 | 170 | **80** | **81** | 71-119 | 1 | 25 | |
| 71-55-6 | 1,1,1-Trichloroethane | 208 | 163 | 168 | **78** | **81** | 73-119 | 4 | 25 | |
| 71-43-2 | Benzene | 208 | 174 | 178 | **84** | **86** | 72-113 | 2 | 25 | |
| 56-23-5 | Carbon Tetrachloride | 202 | 163 | 168 | **81** | **83** | 67-123 | 2 | 25 | |
| 78-87-5 | 1,2-Dichloropropane | 206 | 180 | 184 | **87** | **89** | 70-118 | 2 | 25 | |
| 75-27-4 | Bromodichloromethane | 208 | 183 | 186 | **88** | **89** | 74-119 | 1 | 25 | |
| 79-01-6 | Trichloroethene | 204 | 182 | 182 | **89** | **89** | 74-115 | 0 | 25 | |
| 123-91-1 | 1,4-Dioxane | 206 | 170 | 174 | **83** | **84** | 77-124 | 1 | 25 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 208 | 186 | 190 | **89** | **91** | 81-126 | 2 | 25 | |
| 108-10-1 | 4-Methyl-2-pentanone | 412 | 393 | 394 | **95** | **96** | 73-129 | 1 | 25 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 200 | 175 | 179 | **88** | **90** | 80-127 | 2 | 25 | |
| 79-00-5 | 1,1,2-Trichloroethane | 208 | 177 | 181 | **85** | **87** | 78-117 | 2 | 25 | |
| 108-88-3 | Toluene | 206 | 161 | 172 | **78** | **83** | 70-118 | 6 | 25 | |
| 591-78-6 | 2-Hexanone | 406 | 322 | 336 | **79** | **83** | 74-132 | 5 | 25 | |
| 124-48-1 | Dibromochloromethane | 210 | 167 | 179 | **80** | **85** | 69-137 | 6 | 25 | |
| 106-93-4 | 1,2-Dibromoethane | 208 | 156 | 168 | **75** | **81** | 76-128 | 8 | 25 | **L** |
| 123-86-4 | n-Butyl Acetate | 406 | 332 | 346 | **82** | **85** | 75-134 | 4 | 25 | |
| 127-18-4 | Tetrachloroethene | 212 | 173 | 186 | **82** | **88** | 63-130 | 7 | 25 | |

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.
L = Laboratory control sample recovery outside the specified limits, results may be biased low.

**Client:** **Verina Consulting Group, LLC**
**Client Sample ID:** **Duplicate Lab Control Sample** ALS Project ID: P2201095
**Client Project ID:** **Dover Kirkwood / 5101.0002** ALS Sample ID: P220323-DLCS

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date Received: NA
Analyst: Wida Ang Date Analyzed: 3/23/22
Sample Type: 6.0 L Summa Canister Volume(s) Analyzed: 0.125 Liter(s)
Test Notes:

| CAS # | Compound | Spike Amount LCS / DLCS µg/m³ | Result LCS µg/m³ | Result DLCS µg/m³ | % Recovery LCS | % Recovery DLCS | ALS Acceptance Limits | RPD | RPD Limit | Data Qualifier |
|---|---|---|---|---|---|---|---|---|---|---|
| 108-90-7 | Chlorobenzene | 206 | 171 | 180 | **83** | **87** | 70-118 | 5 | 25 | |
| 100-41-4 | Ethylbenzene | 206 | 171 | 180 | **83** | **87** | 71-123 | 5 | 25 | |
| 179601-23-1 | m,p-Xylenes | 416 | 357 | 373 | **86** | **90** | 67-127 | 5 | 25 | |
| 75-25-2 | Bromoform | 210 | 175 | 185 | **83** | **88** | 65-149 | 6 | 25 | |
| 100-42-5 | Styrene | 202 | 169 | 177 | **84** | **88** | 76-132 | 5 | 25 | |
| 95-47-6 | o-Xylene | 208 | 180 | 188 | **87** | **90** | 69-124 | 3 | 25 | |
| 111-84-2 | n-Nonane | 208 | 187 | 195 | **90** | **94** | 64-127 | 4 | 25 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 208 | 189 | 197 | **91** | **95** | 69-128 | 4 | 25 | |
| 98-82-8 | Cumene | 206 | 176 | 184 | **85** | **89** | 69-125 | 5 | 25 | |
| 80-56-8 | alpha-Pinene | 210 | 191 | 199 | **91** | **95** | 68-129 | 4 | 25 | |
| 622-96-8 | 4-Ethyltoluene | 208 | 182 | 189 | **88** | **91** | 69-127 | 3 | 25 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 208 | 184 | 192 | **88** | **92** | 66-129 | 4 | 25 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 206 | 202 | 208 | **98** | **101** | 63-142 | 3 | 25 | |
| 100-44-7 | Benzyl Chloride | 416 | 405 | 416 | **97** | **100** | 73-145 | 3 | 25 | |
| 541-73-1 | 1,3-Dichlorobenzene | 208 | 201 | 210 | **97** | **101** | 67-136 | 4 | 25 | |
| 106-46-7 | 1,4-Dichlorobenzene | 210 | 182 | 191 | **87** | **91** | 63-134 | 4 | 25 | |
| 95-50-1 | 1,2-Dichlorobenzene | 210 | 209 | 208 | **100** | **99** | 64-139 | 1 | 25 | |
| 5989-27-5 | d-Limonene | 206 | 209 | 208 | **101** | **101** | 63-137 | 0 | 25 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 404 | 415 | 405 | **103** | **100** | 72-145 | 3 | 25 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 420 | 393 | 411 | **94** | **98** | 62-154 | 4 | 25 | |
| 91-20-3 | Naphthalene | 210 | 156 | 167 | **74** | **80** | 62-156 | 8 | 25 | |
| 87-68-3 | Hexachlorobutadiene | 212 | 188 | 198 | **89** | **93** | 55-142 | 4 | 25 | |

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.
L = Laboratory control sample recovery outside the specified limits, results may be biased high.

# Appendix H

VERINA Engineering, P.C.

**Sch. 40 PVC conversion factors:**
**2" PVC = 0.171 gal/ft**
**4" PVC = 0.652 gal/ft**
**6" PVC = 1.484 gal/ft**

## SODIUM PERMANGANATE MANUAL INJECTION LOG

Project Number: 5101.0002

Personnel: _____

Weather: _____

**Injection Solution Characteristics:**

Concentration of Injection Solution: 10%

| | | | Date: | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Tank # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | Comments |
| Injection Well ID | Water Level (ft btoc) | Water Color | Target Volume (gal) | Volume Injected (gal) | Volume Injected (gal) | Volume Injected (gal) | Volume Injected (gal) | Volume Injected (gal) | Volume Injected (gal) | Volume Injected (gal) | Volume Injected (gal) | |
| MW-7A | | | 40 | | | | | | | | | |
| MW-16 | | | 120 | | | | | | | | | |
| MW-24 | | | 80 | | | | | | | | | |
| MW-25R | | | 20 | | | | | | | | | |
| MW-28 | | | 60 | | | | | | | | | |
| MP-4R | | | 60 | | | | | | | | | |
| MP-5R | | | 100 | | | | | | | | | |
| MP-8S | | | 20 | | | | | | | | | |
| MP-11 | | | 60 | | | | | | | | | |
| MP-12 | | | 80 | | | | | | | | | |
| MP-14 | | | 100 | | | | | | | | | |
| IJ-1 | | | 70 | | | | | | | | | |
| IJ-2 | | | 50 | | | | | | | | | |
| IJ-5 | | | 20 | | | | | | | | | |
| IJ-6 | | | 50 | | | | | | | | | |
| IJ-7 | | | 40 | | | | | | | | | |
| IJ-8 | | | 30 | | | | | | | | | |
| | | | Total Injected Volume | | | | | | | | | |