PERIODIC REVIEW REPORT
For
November 1, 2020 Through December 31, 2021

BROWNFIELD CLEANUP PROGRAM

River Park Commons – Townhouses Site
(Currently referred to as the Erie Harbor Site)
205 – 405 Mt. Hope Avenue
Rochester, New York, 14620
NYSDEC Site #C828125

I. Introduction

A. Executive Summary

- Between the mid-1970s and 2009, the Site was developed with five apartment buildings. Prior to the mid-1970s, the Site was historically used as a warehouse, feeder canal for the Erie Canal, rail yards, a workshop, auto repair, car sales, a wagon shop, iron cutting, a brick storage yard, a tannery, and a coal yard. In 2009, the apartment buildings were demolished. Subsequently, the Site was redeveloped with nine new restricted residential buildings (one apartment building, seven townhouse buildings, and one community building).

- Types of contamination at the Site that were identified to require remediation included:
  - Polychlorinated biphenyls (PCB) at some transformer locations;
  - Polyaromatic hydrocarbon (PAH) semi-volatile organic compounds (SVOCs) in topsoil across the Site;
  - PAH SVOCs in an area of subsurface fill material on the central portion of the Site;
  - Petroleum-related volatile organic compounds (VOCs) and SVOCs in subsurface soil and groundwater on the southeastern portion of the Site; and
  - VOCs trichloroethene (TCE) and dichlorodifluoromethane in groundwater and soil gas on the central portion of the Site.

- Remedial actions were performed at the Site in accordance with a New York State Department of Environmental Conservation (NYSDEC)-approved Interim Remedial Measure Work Plan (IRM Work Plan) and a NYSDEC-approved Remedial Work Plan (RWP). Remedial actions taken included:
  - Removal of PCB transformers and PCB-contaminated building materials and soil.
  - Removal of contaminated topsoil across the Site;
  - Removal of areas of contaminated subsurface soil and fill;
  - Supplemental in-situ remediation of a subsurface petroleum-contaminated area;

- Off-site disposal of excess soil and urban fill;
- Execution and recording of an Environmental Easement;
- Development and implementation of a Site Management Plan (SMP); and
- Design, installation, operation and monitoring of engineering controls (sub-slab depressurization systems or SSDS) on new Buildings #3 and #4.

B. Effectiveness of the Remedial Program

1. Progress made during the reporting period toward meeting the remedial objectives for the Site included: continued operation and monitoring of the SSDS located in Buildings #3 and #4; and continued groundwater monitoring.
2. The work completed to date shows that the remedial program has the ability to achieve the remedial objectives for the Site.

C. Compliance

1. There are no areas of non-compliance with the SMP as modified with NYSDEC approval.
2. As such, no steps were needed to correct areas of non-compliance.

D. Recommendations

1. The following changes to the SMP are recommended:
   a. Discontinue groundwater monitoring.
   b. Decommission the five remaining monitoring wells (MW-5, DAYMW-05A, DAYMW-08, DAYMW-09A and DAYMW-10) in accordance with NYSDEC Commissioner's Policy CP-43.

   Note: The above recommendations will not be implemented unless directed in writing to do so by the NYSDEC.
2. It is recommended that the frequency for submittal of Periodic Review Reports (PRR) be decreased to every two years. However, the PRR reporting will continue on an annual basis unless otherwise directed in writing by the NYSDEC.
3. Since residual contamination remains on the Site, it is recommended that site management requirements be continued.

II. Site Overview

A. The site is an approximately 6.016-acre area bounded by a residential apartment building to the north, City of Rochester parkland to the south, Mt. Hope Avenue with mixed residential and commercial properties beyond to the east, and City of Rochester parkland with the Genesee River beyond to the west (see Figure 1 in Attachment A). The Site has been redeveloped with an apartment building, seven townhouse buildings, a community center, and other associated site improvements (e.g., sidewalks, parking lots, landscaping, etc.).

Prior to remediation, contamination at the Site consisted of the following:

- Four PCB-transformer areas, including PCB-impacted building materials and soil beneath some of the transformers.

- An approximate 0.5-foot-thick layer of surface soil (i.e., topsoil) on green areas totaling over approximately 81,000 square feet across the Site.
- Subsurface petroleum-contaminated soil over an approximate 3,100 square foot area located on the southeast portion of the Site. An abandoned underground storage tank was also present in this area.
- Subsurface fill material containing PAH SVOCs over an approximate 1,900 square foot area located on the central portion of the Site.
- Soil vapor and groundwater containing chlorinated VOCs over an approximate 44,000 square foot area on the central portion of the Site.

B. Chronology

The site was remediated in accordance with the NYSDEC approved IRM Work Plan dated January 27, 2009, the NYSDEC-approved RWP dated March 2009, and an Addendum to the March 2009 RWP dated July 30, 2009. A chronology of the Remedial Actions performed at the Site is summarized below:

- Between May 2009 and March 2010, the PCB transformers, their contents, and PCB-contaminated building material and soil were removed and disposed off-site.
- Between May 2009 and March 2010, surface soil (topsoil) was removed and disposed off-site.
- In March 2010, the area of subsurface fill impacted with PAH SVOCs on the central portion of the Site was removed and disposed off-site.
- In March 2010, the area of subsurface petroleum-impacted soil and the abandoned underground storage tank on the southeast portion of the Site were removed and disposed off-site. In addition, chemical oxidation and bioremediation products were placed in the excavation prior to backfilling.
- In May 2010, in-situ chemical oxidation and bioremediation products were injected at select vertical borings located in proximity to, and outside the limits of, the former subsurface petroleum-impacted soil excavation located on the southeast portion of the Site.
- In August 2010, a SMP was finalized and approved by the NYSDEC for long term management of remaining contamination, which includes plans for: (1) institutional and engineering controls, (2) site monitoring, (3) operation and maintenance and (4) reporting. [Note: In February 2018, a revised version of the SMP was submitted to the NYSDEC to incorporate the installation of SSDS at Buildings #3 and #4; modifications to the monitoring well field and groundwater monitoring program, and a laboratory name change].
- In September 2010, an Environmental Easement was executed and recorded to restrict land use and prevent future exposure to contamination remaining at the Site.
- Between February 2011 and April 2012, SSDS engineering controls for new Buildings #3 and #4 on the central portion of the Site were designed, installed, started up, put into continuous operation, and underwent initial monitoring. The SSDS engineering controls continue to operate.

Cleanup goals for groundwater are NYSDEC Technical and Operational Guidance Series (TOGS) 1.1.1 Groundwater Standards and Guidance Values.

Cleanup or on-site re-use goals for soil are NYSDEC Part 375 Track 2 Restricted Residential Use Soil Cleanup Objectives (SCOs) and Protection of Groundwater SCOs.

III. Evaluation of Remedy Performance, Effectiveness and Protectiveness

A. Effectiveness of Remedies

As documented in the Final Engineering Report (FER) dated September 2010, soil and fill removals and the chemical oxidation and bioremediation were effective at remediating soil and fill to levels that meet applicable SCOs, and significantly reducing VOC concentrations in groundwater.

The results of an October 2021 groundwater monitoring event continue to show that VOC concentrations in groundwater remain low with respect to pre-remediation concentrations. Documentation concerning the above-referenced groundwater monitoring event is included as a Data Package in Attachment A. The Data Package includes figures, cumulative data tables, and an ASP Category B laboratory report.

- As shown on tables included in the Data Package, VOC concentrations have decreased with respect to pre-remediation concentrations. VOC concentrations continue to be highest (i.e., total VOCs and TICs = 65.41 ug/l) on the southeast portion of the Site (i.e., area of former well DAYMW-09/existing well DAYMW-09A). This area was historically part of a gasoline/service station where remedial actions included the removal of subsurface petroleum-impacted soil and an abandoned underground storage tank followed by placement of chemical oxidation and bioremediation products into the soil removal excavation prior to backfilling. The groundwater data also show that detectable concentrations of Trichloroethene (TCE) remain on the central portion of the Site (e.g., existing wells DAYMW-05A and DAYMW-10). The TCE in the groundwater samples on this portion of the Site may be attributable to an off-site source.

It is anticipated that the contaminant concentrations in groundwater at the Site will continue to decrease as a result of natural attenuation.

SSDS engineering controls were installed on new Buildings #3 and #4. SSDS monitoring and an inspection was completed in October 2021, and is documented on a Site-Wide Inspection Form included in Attachment B. As shown, the monitoring demonstrates that the SSDS on Buildings #3 and #4 continue to create negative SSDS pressure relative to the interior air pressure of the two buildings.

Based on the performance monitoring to date, the remedy is shown to be effective at achieving the remedial goals for this Track 4 Site.

IV. IC/EC Compliance Report

A. IC/EC Requirements/Compliance

1. A description of each control, its objective, and how performance of the control is evaluated is provided below:

   - Site Management Plan: The objective of the SMP is to manage remaining contamination above regulatory criteria in a manner that is protective of human health and the environment. The SMP includes an Institutional and Engineering Control (IC/EC) Plan, a Site Monitoring Plan, and an Operation and Maintenance Plan. The performance of the controls is evaluated through monitoring and periodic certification. Controls on the Site include:

     - Management of soil and historic fill material during future activities that would penetrate, encounter, or disturb remaining contamination needs to be conducted in accordance with provisions of the SMP, including the Excavation Work Plan (EWP);
     - A requirement for evaluating the need to address the potential for soil vapor intrusion on new structures, and designing and implementing engineering controls for those structures to address soil vapor intrusion, if deemed warranted;
     - Requirements for operation, maintenance and monitoring of the engineering controls (e.g., SSDS on new Buildings #3 and #4);
     - Requirements for inspections and notifications for various reasons associated with Site conditions, change in use, change in ownership, etc.
     - Requirements for Monitored Natural Attenuation groundwater sampling and analysis.

   - Environmental Easement: Restricts use of property; restricts use of groundwater; requires implementation of the SMP; prohibits vegetable gardens and farming; requires evaluation of soil vapor intrusion on new buildings, and mitigation, if needed on a portion of the Site; requires operating, maintaining and inspecting any engineering controls; requires groundwater and other environmental and public health monitoring; requires monitoring, maintaining and replacing groundwater wells as necessary as set forth in the SMP; requires reporting of SMP data and information; requires implementation of the SMP for activities that would disturb remaining contaminated media; and requires monitoring to assess the performance and effectiveness of the remedy. The performance of each control is evaluated through periodic certification.

2. Status

   Each control is fully in place, is being adhered to, and is effective.

3. Corrective Measures

   None Required.

4. Conclusions and Recommendations for Changes

The controls are effective at protecting human health and the environment from, and proper management of, residual contaminants at the Site. No changes are recommended at this time.

B. Certification

Certification included as Attachment C.

V. Monitoring Plan Compliance Report

A. Components

- Groundwater Monitoring Plan: The SMP (revised February 27, 2018) identifies annual groundwater monitoring for the Site using the current field of five groundwater monitoring wells (i.e., MW-05, DAYMW-05A, DAYMW-08, DAYMW-09A and DAYMW-10). The groundwater monitoring frequency and scope can be modified with NYSDEC approval. This plan also covers monitoring well repairs, replacement, and decommissioning.
- Excavation Work Plan: An Excavation Work Plan (EWP) is included as part of the SMP for management of soil and historic fill material that may contain residual contamination at the Site.
- Site-Wide Inspection: Site-wide inspections are required at least yearly and also after severe weather conditions that may affect engineering controls or monitoring devices.

B. Summary of Monitoring Completed

- Groundwater Monitoring Plan: During the reporting period, a groundwater monitoring event was completed in October 2021. The October 2021 groundwater monitoring event included obtaining static water levels and groundwater samples from these five wells followed by laboratory analysis of the groundwater samples for VOCs. A copy of the Data Package for this groundwater monitoring event is included in Attachment A.
- Excavation Work Plan: No activities were performed during the reporting period in relation to requirements of the EWP.
- Site-Wide Inspection: An annual site-wide inspection was completed in August 2020. A copy of the corresponding Site-Wide Inspection Form is included in Attachment B.

C. Comparison with Remedial Objectives

- Groundwater Monitoring Plan: The results of the groundwater monitoring completed in October 2021 show contaminant concentrations at monitoring wells are steady state or continue to generally decrease, with a couple exceedances of NYSDEC TOGS 1.1.1 groundwater standards or guidance values. In addition, previous remedial actions have resulted in significantly lower post-remediation concentrations on the southeast portion of the site (i.e., area represented by well DAYMW-09A).
- Excavation Work Plan: Not applicable since no activities were performed during the reporting period in relation to requirements of the EWP.

- Site-Wide Inspection: As a result of the site-wide inspection, the wells were confirmed in good condition, and the SSDS in Building #3 and #4 were documented as maintained and operating with adequate sub-slab negative pressures.

D. Monitoring Deficiencies

There are no monitoring deficiencies.

E. Conclusions and Recommendations for Changes

- Groundwater Monitoring Plan: The groundwater monitoring completed during the reporting period shows contaminant concentrations at monitoring wells are steady state or continue to generally decrease, with a couple exceedances of NYSDEC TOGS 1.1.1 groundwater standards or guidance values, which are controlled by engineering controls and/or institutional controls. Based on the cumulative groundwater monitoring results that show asymptotic conditions, it is recommended that the groundwater monitoring be discontinued and that the wells be decommissioned. However, the current annual groundwater monitoring will continue unless otherwise instructed by the NYSDEC.
- Excavation Work Plan: No changes to the EWP are recommended.
- Site-Wide Inspection: The site-wide inspection was successful in documenting the condition of the existing monitoring wells and satisfactory performance of the SSDS on Buildings #3 and #4.

VI. Operation & Maintenance (O&M) Plan Compliance Report

A. Components of O&M Plan: Components include evaluation of the need for a soil vapor intrusion system on future buildings to be constructed on the central portion of the Site. No new buildings were proposed or constructed during the reporting period. As previously identified in this PRR, Buildings #3 and #4 are equipped with SSDS, and routine monitoring is conducted as part of the annual site-wide inspection. In addition, non-routine reporting and maintenance reports can be prepared, when deemed necessary.

B. O&M Completed During the Reporting Period: The alarm systems were tested and sub-slab vacuum monitoring points were monitored for the SSDS at Buildings #3 and #4.

C. Evaluation of Remedial Systems: Based on O&M activities completed, the SSDS on new Buildings #3 and #4 are performing as designed/expected.

D. O&M Deficiencies: No deficiencies were identified in complying with the O&M plan during the PRR reporting period.

E. Conclusions and Recommendations for Improvements: O&M monitoring and maintenance were completed successfully in accordance with the SMP. No problems with SSDS were identified, and no improvements requiring changes to the O&M Plan are suggested.

VII. Overall PRR Conclusions and Recommendations

A. Compliance with SMP

1. The requirements of the following plans were met during the reporting period:
   - IC/EC requirements.
   - Monitoring Plan requirements.
   - O&M requirements.
2. Identify any requirements not met: Not applicable.
3. Identify any proposed plans and a schedule for coming into full compliance: Not applicable.

B. Performance and Effectiveness of Remedy: An evaluation of the components of the SMP during this reporting period indicated that: the IC/EC controls were protective of human health and the environment; the monitoring plan sufficiently monitored the performance of the remedy; the O&M Plan is sufficiently maintaining the SSDS installed in Buildings #3 and #4; and the remedial program is achieving the remedial objectives for the Site.

C. Future PRR submittals:

1. PRRs will continue to be submitted annually unless otherwise instructed by the NYSDEC. However, it is requested that the NYSDEC decrease the frequency of PRR submittals to every two years for the following reasons:
   - Post-redevelopment monitoring of groundwater quality has shown contaminant reductions and/or asymptotic/steady-state conditions.
   - The redevelopment is complete and little or no excavation work greater than two feet in depth is anticipated.
2. Since residual contaminants remain at the Site, it is recommended that related aspects of the SMP (as modified with NYSDEC approval) continue to be implemented at this Site.

Attachment A

Groundwater Data Package

DATA PACKAGE

OCTOBER 2021 GROUNDWATER MONITORING EVENT

ERIE HARBOR SITE
(FORMERLY RIVER PARK COMMONS - TOWNHOUSES)
205-405 MT. HOPE AVENUE, ROCHESTER, NEW YORK

NYSDEC SITE #C828125

Prepared For: Erie Harbor, LLC
1000 University Avenue, Suite 500
Rochester, New York 14607

Prepared By: Day Environmental, Inc.
1563 Lyell Avenue
Rochester, New York 14606

Project No.: 4155R-09

Date: January 2022

TABLE OF CONTENTS

1.0 DATA PACKAGE SUMMARY

The subject property is located at 205-405 Mt. Hope Avenue, City of Rochester, County of Monroe, New York (Site). A Project Locus Map is included as Figure 1. This Site consists of approximately 6.016 acres that is improved with eight residential apartment and townhouse buildings, one clubhouse building, and associated improvements (e.g., utilities, asphalt-paved parking lots, concrete sidewalks, and green areas).

In accordance with provisions of a Site Management Plan (SMP) dated August 2010, and as modified and approved by the NYSDEC in a meeting on March 1, 2019, a groundwater monitoring event was completed between October 14, 2021 and October 28, 2021 using on-site monitoring wells MW-5, DAYMW-05A, DAYMW-08, DAYMW-09A and DAYMW-10. Static water level measurements collected from these wells on October 14, 2021 were used to calculate groundwater elevations, and this information is summarized on Table 1. A Potentiometric Groundwater Contour Map for October 14, 2021, which also shows the locations of the five on-site wells, is included as Figure 2. On October 14, 2021, a passive diffusion bag sampler (PDB) filled with deionized water from the laboratory was deployed at each of the five wells. The center point of PDBs installed at MW-5, DAYMW-05A, DAYMW-08, DAYMW-09A and DAYMW-10 were set at depths of 12.0 ft., 13.0 ft., 12.0 ft., 15.0 ft., and 12.0 ft., respectively. The PDBs were retrieved from each well on October 28, 2021, and laboratory samples were collected from each PDB.

The groundwater samples were delivered under chain-of-custody control to ALS Environmental (ALS) located in Rochester, New York. ALS is a New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP)-certified analytical laboratory.

The following testing program was completed by ALS on the field samples:

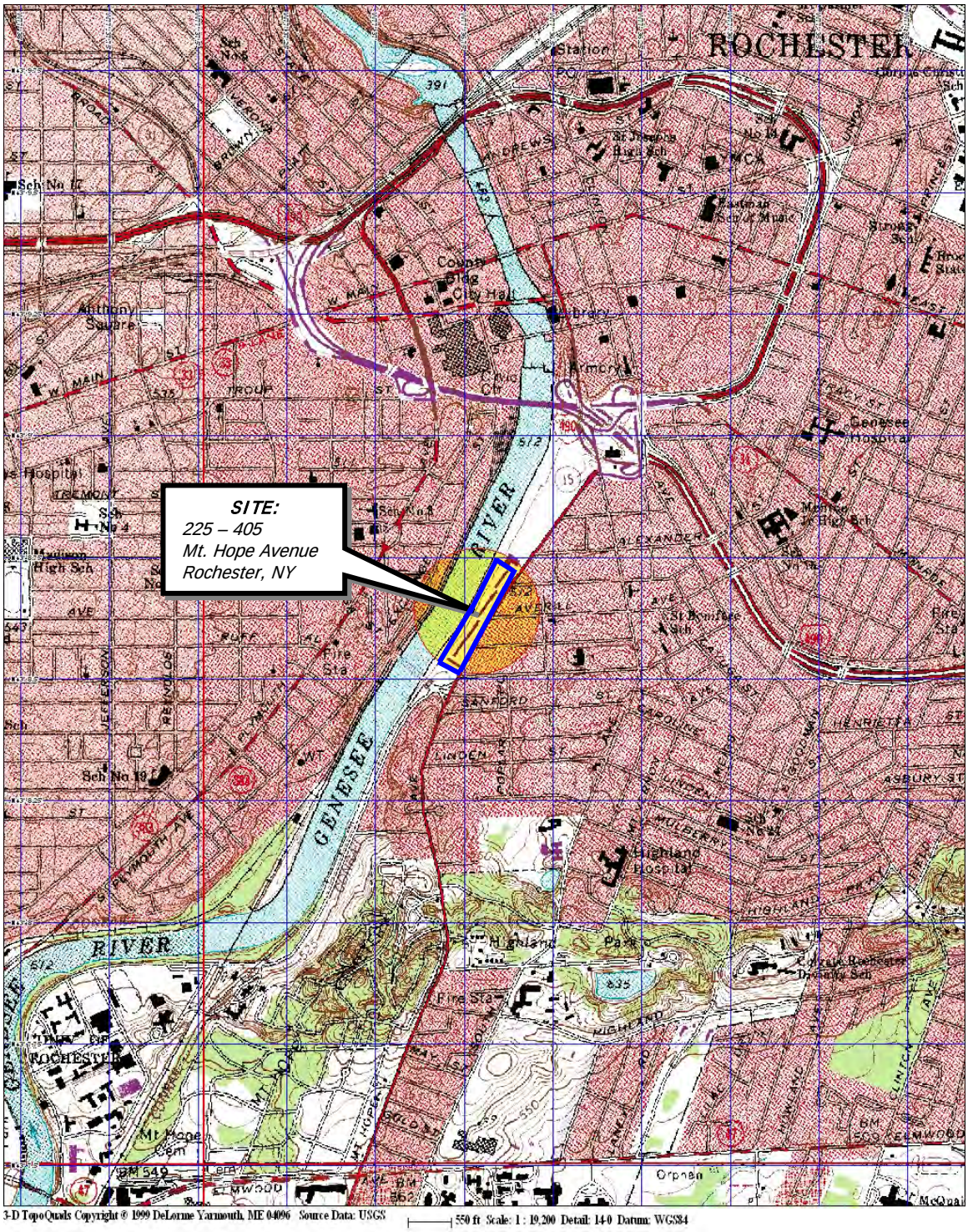
- Samples 160-MW-05, 161-DAYMW-05A, 162-DAYMW-08, 163-DAYMW-09A, and 164-DAYMW-10 and were analyzed for target compound list (TCL) volatile organic compounds (VOCs) and tentatively identified compounds (TICs) using Method 8260.

The following quality assurance/quality control (QA/QC) testing program was completed by ALS:

- A matrix spike/matrix spike duplicate (MS/MSD) was performed on sample 162-DAYMW-08 for TCL VOCs and TICs using Method 8260.
- Field Blank (equipment rinsate) Sample 165-FB102821 was analyzed for TCL VOCs and TICs using Method 8260.
- Trip Blank Sample 166-TB102821 was analyzed for TCL VOCs and TICs using Method 8260.

The ALS Category B deliverables laboratory report is included in Appendix A. A Data usability Summary Report completed on the ALS laboratory report by Vali-Data of WNY, LLC is included in Appendix B. Table 2 provides a summary of cumulative detected TCL VOCs and TICs results for groundwater samples, including the validated October 2021 sample results. Table 2 also provides a comparison of the results to available groundwater standards and guidance values referenced in the NYSDEC document titled “Technical and Operational Guidance Series (TOGS 1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations” dated June 1998, as amended by supplemental tables dated April 2000 and June 2004.

FIGURES



Drawing Produced From: 3-D TopoQuads, DeLorme Map Co., referencing USGS quad maps Rochester East (NY) 1995 and Rochester West (NY) 1995. Site Lat/Long: N43d-8.65' – W77d-36.70'

DATE **01-19-2009** DRAWN BY **CPS** SCALE **1" = 2000'**	day DAY ENVIRONMENTAL, INC. ENVIRONMENTAL CONSULTANTS ROCHESTER, NEW YORK 14623-2700	PROJECT TITLE **225 - 405 MT. HOPE AVENUE** **ROCHESTER, NY** **BROWNFIELD CLEANUP PROGRAM** DRAWING TITLE **PROJECT LOCUS MAP**	PROJECT NO. **4155R-09** **FIGURE 1**

Legend

- Monitoring well with groundwater elevation measured on October 14, 2021
- Groundwater contour
- Inferred groundwater flow
- Property Line

N

BUILDING #5

BUILDING #8

BUILDING #6

BUILDING #7

#9

BUILDING #4

BUILDING #1
MIDRISE

BUILDING #2

BUILDING #3

505

504.5

504

503.5

DAYMW-10
503.12 ft

MW-05
504.69 ft

DAYMW-08
505.42 ft

DAYMW-05A
503.41 ft

DAYMW-09A
503.67 ft

504.5

505

504

MT. HOPE AVENUE

AVERILL AVE

HAMILTON ST

NOTES:

Site plan generated from GIS Data provided by the City of Rochester, Dated 2008.

Building plan provided by Passero Associates entitled"Overall Plan," dated June 2009, revised through May 2, 2010

Monitoring well locations tape-measured in the field in relation to existing site structures and should be considered accurate to the degree implied by the method used.

0 50 100 200 Feet

PROJECT MANAGER	DRAWN BY	SCALE	DATE
JAD	CPS	AS NOTED	11-2021

DATE DRAWN	DATE ISSUED
11-2021	11-15-2021

day
DAY ENVIRONMENTAL, INC.
ENVIRONMENTAL CONSULTANTS
ROCHESTER, NEW YORK 14606
NEW YORK, NEW YORK 10170

Project Title
205-405 MT HOPE AVENUE
ROCHESTER, NEW YORK

BROWNFIELD CLEANUP PROGRAM

Drawing Title
Potentiometric Groundwater Contour Map for October 14, 2021

Project No.
4155R-09

FIGURE 2

Last Date Saved: 15 Nov 2021 Document Path: E:\GIS Mapping\Erie Harbor\4155R-09\ErieHa4155R-36 - Groundwater 10-14-2021.mxd

TABLES

Table 1

Erie Harbor Site
(Former River Park Commons - Townhouses)
205-405 Mt. Hope Avenue, Rochester, New York

Groundwater Elevation Data for October 14, 2021

Well ID	Elevation of PVC Well Casing (FT)	Static Water Level (SWL) Measurement (FT)	Groundwater Elevation (FT)
MW-05	512.22	7.53	504.69
DAYMW-05A	513.14	9.73	503.41
DAYMW-08	513.00	7.58	505.42
DAYMW-09A	514.62	10.95	503.67
DAYMW-10	513.89	10.77	503.12

Note: The oil/water interface probe did not detect light non-aqueous phase liquid (LNAPL) at the well locations during collection of static water level measurements

Table 2
Erie Harbor Site (Former River Park Commons - Townhouses)
NYSDEC Site #C828125

Cumulative Detected VOCs in ug/l or Parts Per Billion (ppb)

Groundwater Samples from Select Monitoring Wells

Detected Compound	Groundwater Standard or Guidance Value (1)	039 DAYMW-03 09/08/06	061 DAYMW-03 04/05/07	101 DAYMW-10 07/12/12	114 DAYMW-10 03/15/13	122 DAYMW-10 09/24/13	129 DAYMW-10 04/21/16	135 DAYMW-10 06/07/17	143 DAYMW-10 08/16/18	150 DAYMW-10 09/05/19	157 DAYMW-10 09/10/20	164 DAYMW-10 10/28/21	032 MW-URS1 09/05/06	067 MW-URS1 04/02/07	099 DAYMW-09 07/26/10	104 DAYMW-09A 07/12/12	110 DAYMW-09A 03/14/13	121 DAYMW-09A 09/24/13	128 DAYMW-09A 04/21/16	133 DAYMW-09A 06/07/17	142 DAYMW-09A 08/16/18	149 DAYMW-09A 09/05/19	156 DAYMW-09A 09/10/20	163 DAYMW-09A 10/28/21
Dichlorodifluoromethane	5	U	U	**7.9**	**7.6**	**6.3**	U	2.11	0.69 J	0.57 J	0.83 J	0.25 J	U	U	**27**	**9.8**	**5.6**	U	U	U	U	U	U	U
Acetone	50	U	U	U	U	U	U	U	U	16 B	U	U	U	U	**130**	**210**	**91**	17	U	U	U	12 B	U	U
Methyl tert-Butyl Ether	10	U	U	U	U	U	U	U	U	U	U	U	U	U	4.1 J	5.6	U	U	U	U	U	U	U	U
2-Butanone (MEK)	50	U	U	U	U	U	U	U	U	U	U	U	U	U	21	38	15	U	U	2.63	U	U	U	U
Cyclohexane	NA	U	U	U	U	U	U	U	U	U	U	U	130 D	170 D	5 J	39	42	35	63	47.7	U	3.2 J	8.9 J	5.4 J
Benzene	1	U	U	U	U	U	U	U	U	U	U	U	**13**	**12**	**4.2** J	**7.3**	**3.4** J	**2.5** J	**1.2** J	**1.43**	**1.7**	0.73 J	**1.4** J	**1.2** J
Trichloroethene	5	3 J	U	**20**	**13**	**14**	**11** B	**12.8**	**6.5**	**10**	**12**	**8.8**	U	U	U	U	U	U	U	U	U	U	U	U
Methylcyclohexane	NA	U	U	U	U	U	U	U	U	U	U	U	100 D	200	U	2.8 J	5.9	4.1 J	5.8	U	U	0.23 J	0.40 J	U
4-Methyl-2-pentanone	NA	U	U	U	U	U	U	U	U	0.31 J	U	U	U	U	U	2.2 J	U	U	U	U	U	0.28 J	0.24 JB	0.31 J
Toluene	5	U	U	U	U	U	U	U	U	U	U	U	**7**	**8** J	**7.2** J	**15**	**11**	**6**	1.5 J	2.99	0.65 J	0.36 J	0.74 JB	U
Ethylbenzene	5	U	U	U	U	U	U	U	U	U	U	U	**64**	**190**	**7** J	**63**	**53**	**61**	**71**	**111** D	**57**	**8.4**	**8.9**	4.5 J
Xylene (Total)	5	U	U	U	U	U	U	U	U	U	U	U	**330**	**530** D	**28** J	**199**	**192**	**161**	**40**	**161**	3.6	0.21 J	0.96 J	1.59 J
Isopropylbenzene	5	U	U	U	U	U	U	U	U	U	U	U	**38**	**36**	U	4.4 J	4.2 J	**5.4**	3.6 J	4.38	2	0.55 J	1.6 J	1.3 J
Styrene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	0.43 J	U	U	U	U
Naphthalene	10	U	U	U	U	U	U	U	U	U	NT	U	U	U	U	U	U	U	U	**43.2**	**12**	6.4 NJ	NT	U
1,2,4-Trimethylbenzene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	**25.8**	**7.6**	U	U	U
Chloroform	7	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,2,3-Trichlorobenzene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	0.25 J	U	U	U
n-Propylbenzene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	0.85 J	U	0.81 J	U
Chloromethane	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	0.31 J
Methyl Acetate	NA	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
TOTAL TCL VOCS	NA	3	U	27.9	20.6	20.3	11	14.91	7.19	26.88	12.83	9.05	682	1146	233.5	596.1	423.1	292.0	186.1	400.56	85.65	32.36	23.95	14.61
TOTAL TICS	NA	U	U	U	U	U	U	U	U	6.0 NJ	U	U	2904 NJ	3415 NJ	35.2 NJ	234.6 NJ	314.1 NJ	262.2 NJ	146.4 NJ	88.5	35 J	5.5 NJ	U	50.8
TOTAL VOCS AND TICS	NA	3	U	27.9	20.6	20.3	11	14.91	7.19	32.88	12.83	9.05	3586	4561	268.7	830.7	737.2	554.2	332.5	489.06	120.65	37.86	23.95	65.41

(1) = Groundwater standard or guidance value as referenced in NYSDEC TOGS 1.1.1 dated June 1998 as amended by the NYSDEC's supplemental table dated April 2000

20 = Exceeds groundwater standard or guidance value

U = Not detected at concentrations above reported analytical laboratory detection limits

NA = Not Available

NT = Not Tested

TCL = Target Compound List

VOC = Volatile Organic Compound

TIC = Tentatively Identified Compound

J = Estimated value

D = Compound concentration was obtained from a diluted analysis

N = Analyte passed identification criteria and is considered to be positively identified

B= Detected in Field Blank and/or Trip Blank

Table 2
Erie Harbor Site (Former River Park Commons - Townhouses)
NYSDEC Site #C828125

Cumulative Detected VOCs in ug/l or Parts Per Billion (ppb)

Groundwater Samples from Select Monitoring Wells

Detected Compound	Groundwater Standard or Guidance Value (1)	106 DAYMW-08 07/12/12	111 DAYMW-08 03/14/13	120 DAYMW-08 09/24/13	127 DAYMW-08 04/21/16	132 DAYMW-08 06/07/17	141 DAYMW-08 08/16/18	148 DAYMW-08 09/05/19	155 DAYMW-08 09/10/20	162 DAYMW-08 10/28/21	040 MW-05 09/08/06	064 MW-05 04/03/07	107 MW-05 07/13/12	112 MW-05 03/15/13	118 MW-05 09/24/13	125 MW-05 04/21/16	134 MW-05 06/07/17	139 MW-05 08/16/18	146 MW-05 09/05/19	153 MW-05 09/10/20	160 MW-05 10/28/21
Dichlorodifluoromethane	5	U	U	U	U	U	U	U	U	U	**7**	**8** J	U	U	U	U	U	U	0.22 J	0.24 J	U
Acetone	50	U	9.3 J	U	U	U	U	14 B	U	U	U	U	U	U	U	U	U	U	14 B	U	24 JH
Methyl tert-Butyl Ether	10	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
2-Butanone (MEK)	50	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Cyclohexane	NA	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Benzene	1	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Trichloroethene	5	U	U	U	1.2 JB	U	U	U	U	U	U	U	U	U	U	1.8 JB	U	U	U	U	U
Methylcyclohexane	NA	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
4-Methyl-2-pentanone	NA	U	U	U	U	U	U	0.23 J	U	U	U	U	U	U	U	U	U	U	U	U	U
Toluene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Ethylbenzene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Xylene (Total)	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Isopropylbenzene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Styrene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Naphthalene	10	U	U	U	U	U	U	U	NT	U	U	U	U	U	U	U	U	U	U	NT	U
1,2,4-Trimethylbenzene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Chloroform	7	U	U	U	U	U	0.28 JB	U	0.33 J	U	U	U	U	U	U	U	U	U	U	U	U
1,2,3-Trichlorobenzene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
n-Propylbenzene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Chloromethane	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	0.30 JB	U	U
Methyl Acetate	NA	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
TOTAL TCL VOCS	NA	U	9.3	U	1.2	U	0.28	14.23	0.33	U	7	8	U	U	U	1.8	U	U	14.52	0.24	24
TOTAL TICS	NA	U	U	U	U	U	U	U	U	2.54	U	U	U	U	U	U	U	U	5.0 NJ	U	2.52
TOTAL VOCS AND TICS	NA	U	9.3	U	1.2	U	0.28	14.23	0.33	2.54	7	8	U	U	U	1.8	U	U	19.52	0.24	26.52

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J = Estimated value

D = Compound concentration was obtained from a diluted analysis

N = Analyte passed identification criteria and is considered to be positively identified

B= Detected in Field Blank and/or Trip Blank

Table 2
Erie Harbor Site (Former River Park Commons - Townhouses)
NYSDEC Site #C828125

Cumulative Detected VOCs in ug/l or Parts Per Billion (ppb)

Groundwater Samples from Select Monitoring Wells

Detected Compound	Groundwater Standard or Guidance Value (1)	044 DAYMW-05 09/11/06	063 DAYMW-05 04/04/07	109 DAYMW-05A 07/13/12	113 DAYMW-05A 03/15/13	119 DAYMW-05A 09/24/13	126 DAYMW-05A 04/21/16	136 DAYMW-05A 06/07/17	140 DAYMW-05A 08/16/18	147 DAYMW-05A 09/05/19	154 DAYMW-05A 09/10/20	162 DAYMW-05A 10/28/21	105 MW-207 07/12/12
Dichlorodifluoromethane	5	U	U	U	U	U	U	U	U	U	U	U	U
Acetone	50	U	U	U	U	U	U	U	U	8.6 JB	U	U	U
Methyl tert-Butyl Ether	10	U	U	U	U	U	U	U	U	U	U	U	U
2-Butanone (MEK)	50	U	U	U	U	U	U	U	U	U	U	U	U
Cyclohexane	NA	U	U	U	U	U	U	U	U	U	U	U	11
Benzene	1	U	U	U	U	U	U	U	U	U	U	U	**17**
Trichloroethene	5	**15**	**7** J	**8.5**	3.6 J	3.3 J	2.1 JB	U	0.52 J	0.64 J	0.62 J	1.3 J	U
Methylcyclohexane	NA	U	U	U	U	U	U	U	U	U	U	U	U
4-Methyl-2-pentanone	NA	U	U	U	U	U	U	U	U	U	U	U	U
Toluene	5	U	U	U	U	U	U	U	U	U	U	U	U
Ethylbenzene	5	U	U	U	U	U	U	U	U	U	U	U	**63**
Xylene (Total)	5	U	U	U	U	U	U	U	U	U	U	U	U
Isopropylbenzene	5	U	U	U	U	U	U	U	U	U	U	U	3.4 J
Styrene	5	U	U	U	U	U	U	U	U	U	U	U	U
Naphthalene	10	U	U	U	U	U	U	U	U	U	NT	U	U
1,2,4-Trimethylbenzene	5	U	U	U	U	U	U	U	U	U	U	U	U
Chloroform	7	U	U	U	U	U	U	U	U	U	U	U	U
1,2,3-Trichlorobenzene	5	U	U	U	U	U	U	U	U	U	U	U	U
n-Propylbenzene	5	U	U	U	U	U	U	U	U	U	U	U	U
Chloromethane	5	U	U	U	U	U	U	U	U	U	U	U	U
Methyl Acetate	NA	U	U	U	U	U	U	U	U	U	U	U	U
TOTAL TCL VOCS	NA	15	7	8.5	3.6	3.3	2.1	U	0.52	9.24	0.62	1.3	83.4
TOTAL TICS	NA	U	U	U	U	U	U	U	U	U	U	2.54	79.1 NJ
TOTAL VOCS AND TICS	NA	15	7	8.5	3.6	3.3	2.1	U	0.52	9.24	0.62	3.84	162.5

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APPENDIX A

ALS Laboratory Report

November 05, 2021 Service Request No:R2111358

Ms. Heather McLennan
Day Environmental, Inc.
1563 Lyell Avenue
Rochester, NY 14606

Laboratory Results for: Erie Harbor

Dear Ms.McLennan,

Enclosed are the results of the sample(s) submitted to our laboratory October 28, 2021
For your reference, these analyses have been assigned our service request number **R2111358.**

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 7471. You may also contact me via email at Brady.Kalkman@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Brady Kalkman
Project Manager

ADDRESS 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
PHONE +1 585 288 5380 | FAX +1 585 288 8475
ALS Group USA, Corp.
dba ALS Environmental

ALS Environmental
ALS Group USA, Corp
1565 Jefferson Road, Building 300, Suite 360
Rochester, NY 14623
T : +1 585 288 5380
F : +1 585 288 8475
www.alsglobal.com

Table of Contents

Table of Contents (continued)

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: Day Environmental, Inc.
Project: Erie Harbor
Sample Matrix: Water

Service Request: R2111358
Date Received: 10/28/2021

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:

Seven water samples were received for analysis at ALS Environmental on 10/28/2021. 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, 10/30/2021: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Approved by _____ Date 11/04/2021

SAMPLE DETECTION SUMMARY

CLIENT ID: 160-MW-05			Lab ID: R2111358-001			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
2-Butanone (MEK)	2.9	J	0.78	10	ug/L	8260C
4-Methyl-2-pentanone	0.32	J	0.20	10	ug/L	8260C
Acetone	24		5.0	10	ug/L	8260C

CLIENT ID: 161-DAYMW-05a			Lab ID: R2111358-002			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
2-Butanone (MEK)	3.3	J	0.78	10	ug/L	8260C
4-Methyl-2-pentanone	0.34	J	0.20	10	ug/L	8260C
Acetone	18		5.0	10	ug/L	8260C
Toluene	0.32	J	0.20	5.0	ug/L	8260C
Trichloroethene (TCE)	1.3	J	0.20	5.0	ug/L	8260C

CLIENT ID: 162-DAYMW08			Lab ID: R2111358-003			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
2-Butanone (MEK)	3.2	J	0.78	10	ug/L	8260C
4-Methyl-2-pentanone	0.36	J	0.20	10	ug/L	8260C
Acetone	17		5.0	10	ug/L	8260C
Methyl Acetate	0.36	J	0.33	10	ug/L	8260C

CLIENT ID: 163-DAYMW09A			Lab ID: R2111358-004			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
2-Butanone (MEK)	3.4	J	0.78	10	ug/L	8260C
4-Methyl-2-pentanone	0.31	J	0.20	10	ug/L	8260C
Acetone	21		5.0	10	ug/L	8260C
Benzene	1.2	J	0.20	5.0	ug/L	8260C
Chloromethane	0.31	J	0.28	5.0	ug/L	8260C
Cyclohexane	5.4	J	0.26	10	ug/L	8260C
Ethylbenzene	4.5	J	0.20	5.0	ug/L	8260C
Isopropylbenzene (Cumene)	1.3	J	0.20	5.0	ug/L	8260C
Methylcyclohexane	0.30	J	0.20	10	ug/L	8260C
Toluene	0.92	J	0.20	5.0	ug/L	8260C
m,p-Xylenes	0.59	J	0.20	5.0	ug/L	8260C
o-Xylene	1.0	J	0.20	5.0	ug/L	8260C

CLIENT ID: 164-DAYMW-10			Lab ID: R2111358-005			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
2-Butanone (MEK)	2.5	J	0.78	10	ug/L	8260C
4-Methyl-2-pentanone	0.36	J	0.20	10	ug/L	8260C
Acetone	8.9	J	5.0	10	ug/L	8260C
Dichlorodifluoromethane (CFC 12)	0.25	J	0.21	5.0	ug/L	8260C
Trichloroethene (TCE)	8.8		0.20	5.0	ug/L	8260C

SAMPLE DETECTION SUMMARY

CLIENT ID: 165-FB102821			Lab ID: R2111358-006			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
2-Butanone (MEK)	2.7	J	0.78	10	ug/L	8260C
4-Methyl-2-pentanone	0.34	J	0.20	10	ug/L	8260C
Acetone	22		5.0	10	ug/L	8260C
Methyl Acetate	0.35	J	0.33	10	ug/L	8260C
Toluene	0.60	J	0.20	5.0	ug/L	8260C

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: Day Environmental, Inc. **Service Request:**R2111358
Project: Erie Harbor/4155R-09

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
R2111358-001	160-MW-05	10/28/2021	1335
R2111358-002	161-DAYMW-05a	10/28/2021	1343
R2111358-003	162-DAYMW08	10/28/2021	1315
R2111358-004	163-DAYMW09A	10/28/2021	1328
R2111358-005	164-DAYMW-10	10/28/2021	1350
R2111358-006	165-FB102821	10/28/2021	1345
R2111358-007	166-TB102821	10/28/2021	

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

003509

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

Project Name: Erie Harbor	Project Number: 4155R-09
Project Manager: Jeff Danzinger	Report CC:
Company/Address: 1563 Lyell Avenue Rochester, NY 14606 DAY Environmental, Inc.	
Phone #: 585-454-0210	Email: jdanzinger@daymail.net
Sampler's Signature: Carla Crampton	Sampler's Printed Name: Carla Crampton

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	GC/MS VOAs • 8260 • 624 • CLP TCL VOCs + TICs
160-MW-05		10/28/21	1335	GW	3	X
161-DAYMW-05A			1343	GW	3	X
162-DAYMW-08			1315	GW	6	X
163-DAYMW-09A			1328	GW	3	X
164-DAYMW-10			1350	GW	3	X
165-FB102821			1345	W	3	X
166-TB102821		↓	—	W	3	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

						also do MS/MSD
						Field Blank
						Trip Blank

Carla Crampton 10/28/21

SPECIAL INSTRUCTIONS/COMMENTS
Metals

See QAPP ☐

TURNAROUND REQUIREMENTS
_____ RUSH (SURCHARGES APPLY)
_____ 1 day _____ 2 day _____ 3 day
_____ 4 day _____ 5 day
X 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
X IV. Data Validation Report with Raw Data
NYSDEC EQuIS EXCEL
Edata X Yes _____ No

INVOICE INFORMATION
PO #:
BILL TO:

STATE WHERE SAMPLES WERE COLLECTED:

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: Carla Crampton	Signature: Matthew Hanley	Signature:	Signature:	Signature:	Signature:
Printed Name: Carla Crampton	Printed Name: Matthew Hanley	Printed Name:	Printed Name:	Printed Name:	Printed Name:
Firm: DAY Environmental	Firm: ALS	Firm:	Firm:	Firm:	Firm:
Date/Time: 10/28/21 / 15:39	Date/Time: 10/28/21 15:39	Date/Time:	Date/Time:	Date/Time:	Date/Time:

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

R2111358 5
Day Environmental, Inc.
Erie Harbor

R2111358 5
Day Environmental, Inc.
Erie Harbor

Cooler Receipt and Preservation Check Form

Project/Client Erie Harbor Folder Number

Cooler received on 10/28/21 by: MM 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: 10/28/21 Time: 15:55 ID: IR#7 (IR#1) From: Temp Blank (Sample Bottle)

Observed Temp (°C)	13.4						
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: Floor by MM on 10/28/21 at 16:10
5035 samples placed in storage location: _____ by _____ on _____ at _____ within 48 hours of sampling? Y N

Cooler Breakdown/Preservation Check**: Date: 10/29/21 Time: 16:35 by: RZ

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	**	**	No lot info					

**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: 2596

Explain all Discrepancies/ Other Comments:

HPROD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: ME

PC Secondary Review: _____

*significant air bubbles: VOA > 5-6 mm : WC >1 in. diameter

ALS Group USA, Corp.
dba ALS Environmental

Internal Chain of Custody Report

Client: Day Environmental, Inc. **Service Request:** R2111358
Project: Erie Harbor/4155R-09

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R2111358-001.01					
	8260C				
		10/29/2021	1635	SMO / GESMERIAN	
		10/29/2021	1636	R-001 / GESMERIAN	
		10/30/2021	1300	In Lab / KRUEST	
		10/30/2021	1330	R-001-S12 / KRUEST	
R2111358-001.02					
		10/29/2021	1635	SMO / GESMERIAN	
		10/29/2021	1636	R-001 / GESMERIAN	
R2111358-001.03					
		10/29/2021	1635	SMO / GESMERIAN	
		10/29/2021	1636	R-001 / GESMERIAN	
R2111358-002.01					
	8260C				
		10/29/2021	1635	SMO / GESMERIAN	
		10/29/2021	1636	R-001 / GESMERIAN	
		10/30/2021	1300	In Lab / KRUEST	
		10/30/2021	1330	R-001-S12 / KRUEST	
R2111358-002.02					
		10/29/2021	1635	SMO / GESMERIAN	
		10/29/2021	1636	R-001 / GESMERIAN	
R2111358-002.03					
		10/29/2021	1635	SMO / GESMERIAN	
		10/29/2021	1636	R-001 / GESMERIAN	
R2111358-003.01					
	8260C				
		10/29/2021	1635	SMO / GESMERIAN	
		10/29/2021	1636	R-001 / GESMERIAN	
		10/30/2021	1300	In Lab / KRUEST	
		10/30/2021	1330	R-001-S12 / KRUEST	
R2111358-003.02					
		10/29/2021	1635	SMO / GESMERIAN	
		10/29/2021	1636	R-001 / GESMERIAN	
R2111358-003.03					
		10/29/2021	1635	SMO / GESMERIAN	

Client: Day Environmental, Inc. **Service Request:** R2111358
Project: Erie Harbor/4155R-09

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
		10/29/2021	1636	R-001 / GESMERIAN	
R2111358-003.04					
		10/29/2021	1636	SMO / GESMERIAN	
		10/29/2021	1636	R-001 / GESMERIAN	
R2111358-003.05					
		10/29/2021	1636	SMO / GESMERIAN	
		10/29/2021	1636	R-001 / GESMERIAN	
R2111358-003.06					
		10/29/2021	1636	SMO / GESMERIAN	
		10/29/2021	1636	R-001 / GESMERIAN	
R2111358-004.01					
	8260C				
		10/29/2021	1635	SMO / GESMERIAN	
		10/29/2021	1636	R-001 / GESMERIAN	
		10/30/2021	1300	In Lab / KRUEST	
		10/30/2021	1330	R-001-S12 / KRUEST	
R2111358-004.02					
		10/29/2021	1635	SMO / GESMERIAN	
		10/29/2021	1636	R-001 / GESMERIAN	
R2111358-004.03					
		10/29/2021	1635	SMO / GESMERIAN	
		10/29/2021	1636	R-001 / GESMERIAN	
R2111358-005.01					
	8260C				
		10/29/2021	1635	SMO / GESMERIAN	
		10/29/2021	1636	R-001 / GESMERIAN	
		10/30/2021	1300	In Lab / KRUEST	
		10/30/2021	1330	R-001-S12 / KRUEST	
R2111358-005.02					
		10/29/2021	1635	SMO / GESMERIAN	
		10/29/2021	1636	R-001 / GESMERIAN	
R2111358-005.03					

ALS Group USA, Corp.
dba ALS Environmental

Internal Chain of Custody Report

Client: Day Environmental, Inc. **Service Request:** R2111358
Project: Erie Harbor/4155R-09

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
		10/29/2021	1635	SMO / GESMERIAN	
		10/29/2021	1636	R-001 / GESMERIAN	
R2111358-006.01					
	8260C				
		10/29/2021	1635	SMO / GESMERIAN	
		10/29/2021	1636	R-001 / GESMERIAN	
		10/30/2021	1300	In Lab / KRUEST	
		10/30/2021	1330	R-001-S12 / KRUEST	
R2111358-006.02					
		10/29/2021	1635	SMO / GESMERIAN	
		10/29/2021	1636	R-001 / GESMERIAN	
R2111358-006.03					
		10/29/2021	1635	SMO / GESMERIAN	
		10/29/2021	1636	R-001 / GESMERIAN	
R2111358-007.01					
	8260C				
		10/29/2021	1635	SMO / GESMERIAN	
		10/29/2021	1636	R-001 / GESMERIAN	
		10/30/2021	1300	In Lab / KRUEST	
		10/30/2021	1330	R-001-S12 / KRUEST	
R2111358-007.02					
		10/29/2021	1635	SMO / GESMERIAN	
		10/29/2021	1636	R-001 / GESMERIAN	
R2111358-007.03					
		10/29/2021	1635	SMO / GESMERIAN	
		10/29/2021	1636	R-001 / GESMERIAN	

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:	Day Environmental, Inc.	**Service Request:**	R2111358
Project:	Erie Harbor/4155R-09		

Sample Name:	160-MW-05	**Date Collected:**	10/28/21
Lab Code:	R2111358-001	**Date Received:**	10/28/21
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Sample Name:	161-DAYMW-05a	**Date Collected:**	10/28/21
Lab Code:	R2111358-002	**Date Received:**	10/28/21
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Sample Name:	162-DAYMW08	**Date Collected:**	10/28/21
Lab Code:	R2111358-003	**Date Received:**	10/28/21
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Sample Name:	163-DAYMW09A	**Date Collected:**	10/28/21
Lab Code:	R2111358-004	**Date Received:**	10/28/21
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Sample Name:	164-DAYMW-10	**Date Collected:**	10/28/21
Lab Code:	R2111358-005	**Date Received:**	10/28/21
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Client:	Day Environmental, Inc.	**Service Request:**	R2111358
Project:	Erie Harbor/4155R-09		

Sample Name:	165-FB102821	**Date Collected:**	10/28/21
Lab Code:	R2111358-006	**Date Received:**	10/28/21
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

Sample Name:	166-TB102821	**Date Collected:**	10/28/21
Lab Code:	R2111358-007	**Date Received:**	10/28/21
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:	Day Environmental, Inc.	**Service Request:**	R2111358
Project:	Erie Harbor/4155R-09	**Date Collected:**	10/28/21 13:35
Sample Matrix:	Water	**Date Received:**	10/28/21 15:39
Sample Name:	160-MW-05	**Units:**	ug/L
Lab Code:	R2111358-001	**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)	0.20 U	5.0	0.20	1	10/30/21 19:30	
1,1,2,2-Tetrachloroethane	0.20 U	5.0	0.20	1	10/30/21 19:30	
1,1,2-Trichloroethane	0.20 U	5.0	0.20	1	10/30/21 19:30	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20 U	5.0	0.20	1	10/30/21 19:30	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	10/30/21 19:30	
1,1-Dichloroethene (1,1-DCE)	0.20 U	5.0	0.20	1	10/30/21 19:30	
1,2,3-Trichlorobenzene	0.25 U	5.0	0.25	1	10/30/21 19:30	
1,2,4-Trichlorobenzene	0.34 U	5.0	0.34	1	10/30/21 19:30	
1,2-Dibromo-3-chloropropane (DBCP)	0.45 U	5.0	0.45	1	10/30/21 19:30	
1,2-Dibromoethane	0.20 U	5.0	0.20	1	10/30/21 19:30	
1,2-Dichlorobenzene	0.20 U	5.0	0.20	1	10/30/21 19:30	
1,2-Dichloroethane	0.20 U	5.0	0.20	1	10/30/21 19:30	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	10/30/21 19:30	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	10/30/21 19:30	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	10/30/21 19:30	
1,4-Dioxane	13 U	100	13	1	10/30/21 19:30	
2-Butanone (MEK)	**2.9 J**	10	0.78	1	10/30/21 19:30	
2-Hexanone	0.20 U	10	0.20	1	10/30/21 19:30	
4-Methyl-2-pentanone	**0.32 J**	10	0.20	1	10/30/21 19:30	
Acetone	**24**	10	5.0	1	10/30/21 19:30	
Benzene	0.20 U	5.0	0.20	1	10/30/21 19:30	
Bromochloromethane	0.20 U	5.0	0.20	1	10/30/21 19:30	
Bromodichloromethane	0.20 U	5.0	0.20	1	10/30/21 19:30	
Bromoform	0.25 U	5.0	0.25	1	10/30/21 19:30	
Bromomethane	0.70 U	5.0	0.70	1	10/30/21 19:30	
Carbon Disulfide	0.42 U	10	0.42	1	10/30/21 19:30	
Carbon Tetrachloride	0.34 U	5.0	0.34	1	10/30/21 19:30	
Chlorobenzene	0.20 U	5.0	0.20	1	10/30/21 19:30	
Chloroethane	0.23 U	5.0	0.23	1	10/30/21 19:30	
Chloroform	0.24 U	5.0	0.24	1	10/30/21 19:30	
Chloromethane	0.28 U	5.0	0.28	1	10/30/21 19:30	
Cyclohexane	0.26 U	10	0.26	1	10/30/21 19:30	
Dibromochloromethane	0.20 U	5.0	0.20	1	10/30/21 19:30	
Dichlorodifluoromethane (CFC 12)	0.21 U	5.0	0.21	1	10/30/21 19:30	
Dichloromethane	0.65 U	5.0	0.65	1	10/30/21 19:30	
Ethylbenzene	0.20 U	5.0	0.20	1	10/30/21 19:30	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	10/30/21 19:30	
Methyl Acetate	0.33 U	10	0.33	1	10/30/21 19:30	
Methyl tert-Butyl Ether	0.20 U	5.0	0.20	1	10/30/21 19:30	
Methylcyclohexane	0.20 U	10	0.20	1	10/30/21 19:30	
Styrene	0.20 U	5.0	0.20	1	10/30/21 19:30	
Tetrachloroethene (PCE)	0.21 U	5.0	0.21	1	10/30/21 19:30	
Toluene	0.20 U	5.0	0.20	1	10/30/21 19:30	

Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R2111358
Project:	Erie Harbor/4155R-09	**Date Collected:**	10/28/21 13:35
Sample Matrix:	Water	**Date Received:**	10/28/21 15:39
Sample Name:	160-MW-05	**Units:**	ug/L
Lab Code:	R2111358-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	0.20 U	5.0	0.20	1	10/30/21 19:30	
Trichlorofluoromethane (CFC 11)	0.24 U	5.0	0.24	1	10/30/21 19:30	
Vinyl Chloride	0.20 U	5.0	0.20	1	10/30/21 19:30	
cis-1,2-Dichloroethene	0.23 U	5.0	0.23	1	10/30/21 19:30	
cis-1,3-Dichloropropene	0.20 U	5.0	0.20	1	10/30/21 19:30	
m,p-Xylenes	0.20 U	5.0	0.20	1	10/30/21 19:30	
o-Xylene	0.20 U	5.0	0.20	1	10/30/21 19:30	
trans-1,2-Dichloroethene	0.20 U	5.0	0.20	1	10/30/21 19:30	
trans-1,3-Dichloropropene	0.23 U	5.0	0.23	1	10/30/21 19:30	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85 - 122	10/30/21 19:30	
Dibromofluoromethane	105	80 - 116	10/30/21 19:30	
Toluene-d8	109	87 - 121	10/30/21 19:30	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
000067-63-0	Isopropyl Alcohol	2.52	19.9	JN

Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R2111358
Project:	Erie Harbor/4155R-09	**Date Collected:**	10/28/21 13:43
Sample Matrix:	Water	**Date Received:**	10/28/21 15:39
Sample Name:	161-DAYMW-05a	**Units:**	ug/L
Lab Code:	R2111358-002	**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)	0.20 U	5.0	0.20	1	10/30/21 19:51	
1,1,2,2-Tetrachloroethane	0.20 U	5.0	0.20	1	10/30/21 19:51	
1,1,2-Trichloroethane	0.20 U	5.0	0.20	1	10/30/21 19:51	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20 U	5.0	0.20	1	10/30/21 19:51	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	10/30/21 19:51	
1,1-Dichloroethene (1,1-DCE)	0.20 U	5.0	0.20	1	10/30/21 19:51	
1,2,3-Trichlorobenzene	0.25 U	5.0	0.25	1	10/30/21 19:51	
1,2,4-Trichlorobenzene	0.34 U	5.0	0.34	1	10/30/21 19:51	
1,2-Dibromo-3-chloropropane (DBCP)	0.45 U	5.0	0.45	1	10/30/21 19:51	
1,2-Dibromoethane	0.20 U	5.0	0.20	1	10/30/21 19:51	
1,2-Dichlorobenzene	0.20 U	5.0	0.20	1	10/30/21 19:51	
1,2-Dichloroethane	0.20 U	5.0	0.20	1	10/30/21 19:51	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	10/30/21 19:51	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	10/30/21 19:51	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	10/30/21 19:51	
1,4-Dioxane	13 U	100	13	1	10/30/21 19:51	
2-Butanone (MEK)	**3.3 J**	10	0.78	1	10/30/21 19:51	
2-Hexanone	0.20 U	10	0.20	1	10/30/21 19:51	
4-Methyl-2-pentanone	**0.34 J**	10	0.20	1	10/30/21 19:51	
Acetone	**18**	10	5.0	1	10/30/21 19:51	
Benzene	0.20 U	5.0	0.20	1	10/30/21 19:51	
Bromochloromethane	0.20 U	5.0	0.20	1	10/30/21 19:51	
Bromodichloromethane	0.20 U	5.0	0.20	1	10/30/21 19:51	
Bromoform	0.25 U	5.0	0.25	1	10/30/21 19:51	
Bromomethane	0.70 U	5.0	0.70	1	10/30/21 19:51	
Carbon Disulfide	0.42 U	10	0.42	1	10/30/21 19:51	
Carbon Tetrachloride	0.34 U	5.0	0.34	1	10/30/21 19:51	
Chlorobenzene	0.20 U	5.0	0.20	1	10/30/21 19:51	
Chloroethane	0.23 U	5.0	0.23	1	10/30/21 19:51	
Chloroform	0.24 U	5.0	0.24	1	10/30/21 19:51	
Chloromethane	0.28 U	5.0	0.28	1	10/30/21 19:51	
Cyclohexane	0.26 U	10	0.26	1	10/30/21 19:51	
Dibromochloromethane	0.20 U	5.0	0.20	1	10/30/21 19:51	
Dichlorodifluoromethane (CFC 12)	0.21 U	5.0	0.21	1	10/30/21 19:51	
Dichloromethane	0.65 U	5.0	0.65	1	10/30/21 19:51	
Ethylbenzene	0.20 U	5.0	0.20	1	10/30/21 19:51	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	10/30/21 19:51	
Methyl Acetate	0.33 U	10	0.33	1	10/30/21 19:51	
Methyl tert-Butyl Ether	0.20 U	5.0	0.20	1	10/30/21 19:51	
Methylcyclohexane	0.20 U	10	0.20	1	10/30/21 19:51	
Styrene	0.20 U	5.0	0.20	1	10/30/21 19:51	
Tetrachloroethene (PCE)	0.21 U	5.0	0.21	1	10/30/21 19:51	
Toluene	**0.32 J**	5.0	0.20	1	10/30/21 19:51	

Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R2111358
Project:	Erie Harbor/4155R-09	**Date Collected:**	10/28/21 13:43
Sample Matrix:	Water	**Date Received:**	10/28/21 15:39
Sample Name:	161-DAYMW-05a	**Units:**	ug/L
Lab Code:	R2111358-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	**1.3 J**	5.0	0.20	1	10/30/21 19:51	
Trichlorofluoromethane (CFC 11)	0.24 U	5.0	0.24	1	10/30/21 19:51	
Vinyl Chloride	0.20 U	5.0	0.20	1	10/30/21 19:51	
cis-1,2-Dichloroethene	0.23 U	5.0	0.23	1	10/30/21 19:51	
cis-1,3-Dichloropropene	0.20 U	5.0	0.20	1	10/30/21 19:51	
m,p-Xylenes	0.20 U	5.0	0.20	1	10/30/21 19:51	
o-Xylene	0.20 U	5.0	0.20	1	10/30/21 19:51	
trans-1,2-Dichloroethene	0.20 U	5.0	0.20	1	10/30/21 19:51	
trans-1,3-Dichloropropene	0.23 U	5.0	0.23	1	10/30/21 19:51	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	85 - 122	10/30/21 19:51	
Dibromofluoromethane	105	80 - 116	10/30/21 19:51	
Toluene-d8	110	87 - 121	10/30/21 19:51	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
000067-63-0	Isopropyl Alcohol	2.54	13.7	JN

Client:	Day Environmental, Inc.	**Service Request:**	R2111358
Project:	Erie Harbor/4155R-09	**Date Collected:**	10/28/21 13:15
Sample Matrix:	Water	**Date Received:**	10/28/21 15:39
Sample Name:	162-DAYMW08	**Units:**	ug/L
Lab Code:	R2111358-003	**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)	0.20 U	5.0	0.20	1	10/30/21 20:57	
1,1,2,2-Tetrachloroethane	0.20 U	5.0	0.20	1	10/30/21 20:57	
1,1,2-Trichloroethane	0.20 U	5.0	0.20	1	10/30/21 20:57	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20 U	5.0	0.20	1	10/30/21 20:57	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	10/30/21 20:57	
1,1-Dichloroethene (1,1-DCE)	0.20 U	5.0	0.20	1	10/30/21 20:57	
1,2,3-Trichlorobenzene	0.25 U	5.0	0.25	1	10/30/21 20:57	
1,2,4-Trichlorobenzene	0.34 U	5.0	0.34	1	10/30/21 20:57	
1,2-Dibromo-3-chloropropane (DBCP)	0.45 U	5.0	0.45	1	10/30/21 20:57	
1,2-Dibromoethane	0.20 U	5.0	0.20	1	10/30/21 20:57	
1,2-Dichlorobenzene	0.20 U	5.0	0.20	1	10/30/21 20:57	
1,2-Dichloroethane	0.20 U	5.0	0.20	1	10/30/21 20:57	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	10/30/21 20:57	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	10/30/21 20:57	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	10/30/21 20:57	
1,4-Dioxane	13 U	100	13	1	10/30/21 20:57	
2-Butanone (MEK)	**3.2 J**	10	0.78	1	10/30/21 20:57	
2-Hexanone	0.20 U	10	0.20	1	10/30/21 20:57	
4-Methyl-2-pentanone	**0.36 J**	10	0.20	1	10/30/21 20:57	
Acetone	**17**	10	5.0	1	10/30/21 20:57	
Benzene	0.20 U	5.0	0.20	1	10/30/21 20:57	
Bromochloromethane	0.20 U	5.0	0.20	1	10/30/21 20:57	
Bromodichloromethane	0.20 U	5.0	0.20	1	10/30/21 20:57	
Bromoform	0.25 U	5.0	0.25	1	10/30/21 20:57	
Bromomethane	0.70 U	5.0	0.70	1	10/30/21 20:57	
Carbon Disulfide	0.42 U	10	0.42	1	10/30/21 20:57	
Carbon Tetrachloride	0.34 U	5.0	0.34	1	10/30/21 20:57	
Chlorobenzene	0.20 U	5.0	0.20	1	10/30/21 20:57	
Chloroethane	0.23 U	5.0	0.23	1	10/30/21 20:57	
Chloroform	0.24 U	5.0	0.24	1	10/30/21 20:57	
Chloromethane	0.28 U	5.0	0.28	1	10/30/21 20:57	
Cyclohexane	0.26 U	10	0.26	1	10/30/21 20:57	
Dibromochloromethane	0.20 U	5.0	0.20	1	10/30/21 20:57	
Dichlorodifluoromethane (CFC 12)	0.21 U	5.0	0.21	1	10/30/21 20:57	
Dichloromethane	0.65 U	5.0	0.65	1	10/30/21 20:57	
Ethylbenzene	0.20 U	5.0	0.20	1	10/30/21 20:57	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	10/30/21 20:57	
Methyl Acetate	**0.36 J**	10	0.33	1	10/30/21 20:57	
Methyl tert-Butyl Ether	0.20 U	5.0	0.20	1	10/30/21 20:57	
Methylcyclohexane	0.20 U	10	0.20	1	10/30/21 20:57	
Styrene	0.20 U	5.0	0.20	1	10/30/21 20:57	
Tetrachloroethene (PCE)	0.21 U	5.0	0.21	1	10/30/21 20:57	
Toluene	0.20 U	5.0	0.20	1	10/30/21 20:57	

Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R2111358
Project:	Erie Harbor/4155R-09	**Date Collected:**	10/28/21 13:15
Sample Matrix:	Water	**Date Received:**	10/28/21 15:39
Sample Name:	162-DAYMW08	**Units:**	ug/L
Lab Code:	R2111358-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	0.20 U	5.0	0.20	1	10/30/21 20:57	
Trichlorofluoromethane (CFC 11)	0.24 U	5.0	0.24	1	10/30/21 20:57	
Vinyl Chloride	0.20 U	5.0	0.20	1	10/30/21 20:57	
cis-1,2-Dichloroethene	0.23 U	5.0	0.23	1	10/30/21 20:57	
cis-1,3-Dichloropropene	0.20 U	5.0	0.20	1	10/30/21 20:57	
m,p-Xylenes	0.20 U	5.0	0.20	1	10/30/21 20:57	
o-Xylene	0.20 U	5.0	0.20	1	10/30/21 20:57	
trans-1,2-Dichloroethene	0.20 U	5.0	0.20	1	10/30/21 20:57	
trans-1,3-Dichloropropene	0.23 U	5.0	0.23	1	10/30/21 20:57	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	104	85 - 122	10/30/21 20:57	
Dibromofluoromethane	107	80 - 116	10/30/21 20:57	
Toluene-d8	112	87 - 121	10/30/21 20:57	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
000067-63-0	Isopropyl Alcohol	2.54	11.6	JN

Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R2111358
Project:	Erie Harbor/4155R-09	**Date Collected:**	10/28/21 13:28
Sample Matrix:	Water	**Date Received:**	10/28/21 15:39
Sample Name:	163-DAYMW09A	**Units:**	ug/L
Lab Code:	R2111358-004	**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)	0.20 U	5.0	0.20	1	10/30/21 20:13	
1,1,2,2-Tetrachloroethane	0.20 U	5.0	0.20	1	10/30/21 20:13	
1,1,2-Trichloroethane	0.20 U	5.0	0.20	1	10/30/21 20:13	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20 U	5.0	0.20	1	10/30/21 20:13	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	10/30/21 20:13	
1,1-Dichloroethene (1,1-DCE)	0.20 U	5.0	0.20	1	10/30/21 20:13	
1,2,3-Trichlorobenzene	0.25 U	5.0	0.25	1	10/30/21 20:13	
1,2,4-Trichlorobenzene	0.34 U	5.0	0.34	1	10/30/21 20:13	
1,2-Dibromo-3-chloropropane (DBCP)	0.45 U	5.0	0.45	1	10/30/21 20:13	
1,2-Dibromoethane	0.20 U	5.0	0.20	1	10/30/21 20:13	
1,2-Dichlorobenzene	0.20 U	5.0	0.20	1	10/30/21 20:13	
1,2-Dichloroethane	0.20 U	5.0	0.20	1	10/30/21 20:13	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	10/30/21 20:13	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	10/30/21 20:13	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	10/30/21 20:13	
1,4-Dioxane	13 U	100	13	1	10/30/21 20:13	
2-Butanone (MEK)	**3.4 J**	10	0.78	1	10/30/21 20:13	
2-Hexanone	0.20 U	10	0.20	1	10/30/21 20:13	
4-Methyl-2-pentanone	**0.31 J**	10	0.20	1	10/30/21 20:13	
Acetone	**21**	10	5.0	1	10/30/21 20:13	
Benzene	**1.2 J**	5.0	0.20	1	10/30/21 20:13	
Bromochloromethane	0.20 U	5.0	0.20	1	10/30/21 20:13	
Bromodichloromethane	0.20 U	5.0	0.20	1	10/30/21 20:13	
Bromoform	0.25 U	5.0	0.25	1	10/30/21 20:13	
Bromomethane	0.70 U	5.0	0.70	1	10/30/21 20:13	
Carbon Disulfide	0.42 U	10	0.42	1	10/30/21 20:13	
Carbon Tetrachloride	0.34 U	5.0	0.34	1	10/30/21 20:13	
Chlorobenzene	0.20 U	5.0	0.20	1	10/30/21 20:13	
Chloroethane	0.23 U	5.0	0.23	1	10/30/21 20:13	
Chloroform	0.24 U	5.0	0.24	1	10/30/21 20:13	
Chloromethane	**0.31 J**	5.0	0.28	1	10/30/21 20:13	
Cyclohexane	**5.4 J**	10	0.26	1	10/30/21 20:13	
Dibromochloromethane	0.20 U	5.0	0.20	1	10/30/21 20:13	
Dichlorodifluoromethane (CFC 12)	0.21 U	5.0	0.21	1	10/30/21 20:13	
Dichloromethane	0.65 U	5.0	0.65	1	10/30/21 20:13	
Ethylbenzene	**4.5 J**	5.0	0.20	1	10/30/21 20:13	
Isopropylbenzene (Cumene)	**1.3 J**	5.0	0.20	1	10/30/21 20:13	
Methyl Acetate	0.33 U	10	0.33	1	10/30/21 20:13	
Methyl tert-Butyl Ether	0.20 U	5.0	0.20	1	10/30/21 20:13	
Methylcyclohexane	**0.30 J**	10	0.20	1	10/30/21 20:13	
Styrene	0.20 U	5.0	0.20	1	10/30/21 20:13	
Tetrachloroethene (PCE)	0.21 U	5.0	0.21	1	10/30/21 20:13	
Toluene	**0.92 J**	5.0	0.20	1	10/30/21 20:13	

Client:	Day Environmental, Inc.	**Service Request:**	R2111358
Project:	Erie Harbor/4155R-09	**Date Collected:**	10/28/21 13:28
Sample Matrix:	Water	**Date Received:**	10/28/21 15:39
Sample Name:	163-DAYMW09A	**Units:**	ug/L
Lab Code:	R2111358-004	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	0.20 U	5.0	0.20	1	10/30/21 20:13	
Trichlorofluoromethane (CFC 11)	0.24 U	5.0	0.24	1	10/30/21 20:13	
Vinyl Chloride	0.20 U	5.0	0.20	1	10/30/21 20:13	
cis-1,2-Dichloroethene	0.23 U	5.0	0.23	1	10/30/21 20:13	
cis-1,3-Dichloropropene	0.20 U	5.0	0.20	1	10/30/21 20:13	
m,p-Xylenes	**0.59 J**	5.0	0.20	1	10/30/21 20:13	
o-Xylene	**1.0 J**	5.0	0.20	1	10/30/21 20:13	
trans-1,2-Dichloroethene	0.20 U	5.0	0.20	1	10/30/21 20:13	
trans-1,3-Dichloropropene	0.23 U	5.0	0.23	1	10/30/21 20:13	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	85 - 122	10/30/21 20:13	
Dibromofluoromethane	104	80 - 116	10/30/21 20:13	
Toluene-d8	110	87 - 121	10/30/21 20:13	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
000611-14-3	Benzene, 1-ethyl-2-methyl-	11.41	5.6	JN
000496-11-7	Indane	12.06	8.7	JN
000275-51-4	Azulene	13.63	13.6	JN
000067-63-0	Isopropyl Alcohol	2.53	22.9	JN

Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R2111358
Project:	Erie Harbor/4155R-09	**Date Collected:**	10/28/21 13:50
Sample Matrix:	Water	**Date Received:**	10/28/21 15:39
Sample Name:	164-DAYMW-10	**Units:**	ug/L
Lab Code:	R2111358-005	**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)	0.20 U	5.0	0.20	1	10/30/21 20:35	
1,1,2,2-Tetrachloroethane	0.20 U	5.0	0.20	1	10/30/21 20:35	
1,1,2-Trichloroethane	0.20 U	5.0	0.20	1	10/30/21 20:35	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20 U	5.0	0.20	1	10/30/21 20:35	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	10/30/21 20:35	
1,1-Dichloroethene (1,1-DCE)	0.20 U	5.0	0.20	1	10/30/21 20:35	
1,2,3-Trichlorobenzene	0.25 U	5.0	0.25	1	10/30/21 20:35	
1,2,4-Trichlorobenzene	0.34 U	5.0	0.34	1	10/30/21 20:35	
1,2-Dibromo-3-chloropropane (DBCP)	0.45 U	5.0	0.45	1	10/30/21 20:35	
1,2-Dibromoethane	0.20 U	5.0	0.20	1	10/30/21 20:35	
1,2-Dichlorobenzene	0.20 U	5.0	0.20	1	10/30/21 20:35	
1,2-Dichloroethane	0.20 U	5.0	0.20	1	10/30/21 20:35	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	10/30/21 20:35	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	10/30/21 20:35	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	10/30/21 20:35	
1,4-Dioxane	13 U	100	13	1	10/30/21 20:35	
2-Butanone (MEK)	**2.5 J**	10	0.78	1	10/30/21 20:35	
2-Hexanone	0.20 U	10	0.20	1	10/30/21 20:35	
4-Methyl-2-pentanone	**0.36 J**	10	0.20	1	10/30/21 20:35	
Acetone	**8.9 J**	10	5.0	1	10/30/21 20:35	
Benzene	0.20 U	5.0	0.20	1	10/30/21 20:35	
Bromochloromethane	0.20 U	5.0	0.20	1	10/30/21 20:35	
Bromodichloromethane	0.20 U	5.0	0.20	1	10/30/21 20:35	
Bromoform	0.25 U	5.0	0.25	1	10/30/21 20:35	
Bromomethane	0.70 U	5.0	0.70	1	10/30/21 20:35	
Carbon Disulfide	0.42 U	10	0.42	1	10/30/21 20:35	
Carbon Tetrachloride	0.34 U	5.0	0.34	1	10/30/21 20:35	
Chlorobenzene	0.20 U	5.0	0.20	1	10/30/21 20:35	
Chloroethane	0.23 U	5.0	0.23	1	10/30/21 20:35	
Chloroform	0.24 U	5.0	0.24	1	10/30/21 20:35	
Chloromethane	0.28 U	5.0	0.28	1	10/30/21 20:35	
Cyclohexane	0.26 U	10	0.26	1	10/30/21 20:35	
Dibromochloromethane	0.20 U	5.0	0.20	1	10/30/21 20:35	
Dichlorodifluoromethane (CFC 12)	**0.25 J**	5.0	0.21	1	10/30/21 20:35	
Dichloromethane	0.65 U	5.0	0.65	1	10/30/21 20:35	
Ethylbenzene	0.20 U	5.0	0.20	1	10/30/21 20:35	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	10/30/21 20:35	
Methyl Acetate	0.33 U	10	0.33	1	10/30/21 20:35	
Methyl tert-Butyl Ether	0.20 U	5.0	0.20	1	10/30/21 20:35	
Methylcyclohexane	0.20 U	10	0.20	1	10/30/21 20:35	
Styrene	0.20 U	5.0	0.20	1	10/30/21 20:35	
Tetrachloroethene (PCE)	0.21 U	5.0	0.21	1	10/30/21 20:35	
Toluene	0.20 U	5.0	0.20	1	10/30/21 20:35	

Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R2111358
Project:	Erie Harbor/4155R-09	**Date Collected:**	10/28/21 13:50
Sample Matrix:	Water	**Date Received:**	10/28/21 15:39
Sample Name:	164-DAYMW-10	**Units:**	ug/L
Lab Code:	R2111358-005	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	**8.8**	5.0	0.20	1	10/30/21 20:35	
Trichlorofluoromethane (CFC 11)	0.24 U	5.0	0.24	1	10/30/21 20:35	
Vinyl Chloride	0.20 U	5.0	0.20	1	10/30/21 20:35	
cis-1,2-Dichloroethene	0.23 U	5.0	0.23	1	10/30/21 20:35	
cis-1,3-Dichloropropene	0.20 U	5.0	0.20	1	10/30/21 20:35	
m,p-Xylenes	0.20 U	5.0	0.20	1	10/30/21 20:35	
o-Xylene	0.20 U	5.0	0.20	1	10/30/21 20:35	
trans-1,2-Dichloroethene	0.20 U	5.0	0.20	1	10/30/21 20:35	
trans-1,3-Dichloropropene	0.23 U	5.0	0.23	1	10/30/21 20:35	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	103	85 - 122	10/30/21 20:35	
Dibromofluoromethane	108	80 - 116	10/30/21 20:35	
Toluene-d8	111	87 - 121	10/30/21 20:35	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	No Tentatively Identified Compounds Detected			

Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R2111358
Project:	Erie Harbor/4155R-09	**Date Collected:**	10/28/21 13:45
Sample Matrix:	Water	**Date Received:**	10/28/21 15:39
Sample Name:	165-FB102821	**Units:**	ug/L
Lab Code:	R2111358-006	**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)	0.20 U	5.0	0.20	1	10/30/21 18:46	
1,1,2,2-Tetrachloroethane	0.20 U	5.0	0.20	1	10/30/21 18:46	
1,1,2-Trichloroethane	0.20 U	5.0	0.20	1	10/30/21 18:46	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20 U	5.0	0.20	1	10/30/21 18:46	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	10/30/21 18:46	
1,1-Dichloroethene (1,1-DCE)	0.20 U	5.0	0.20	1	10/30/21 18:46	
1,2,3-Trichlorobenzene	0.25 U	5.0	0.25	1	10/30/21 18:46	
1,2,4-Trichlorobenzene	0.34 U	5.0	0.34	1	10/30/21 18:46	
1,2-Dibromo-3-chloropropane (DBCP)	0.45 U	5.0	0.45	1	10/30/21 18:46	
1,2-Dibromoethane	0.20 U	5.0	0.20	1	10/30/21 18:46	
1,2-Dichlorobenzene	0.20 U	5.0	0.20	1	10/30/21 18:46	
1,2-Dichloroethane	0.20 U	5.0	0.20	1	10/30/21 18:46	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	10/30/21 18:46	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	10/30/21 18:46	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	10/30/21 18:46	
1,4-Dioxane	13 U	100	13	1	10/30/21 18:46	
2-Butanone (MEK)	**2.7 J**	10	0.78	1	10/30/21 18:46	
2-Hexanone	0.20 U	10	0.20	1	10/30/21 18:46	
4-Methyl-2-pentanone	**0.34 J**	10	0.20	1	10/30/21 18:46	
Acetone	**22**	10	5.0	1	10/30/21 18:46	
Benzene	0.20 U	5.0	0.20	1	10/30/21 18:46	
Bromochloromethane	0.20 U	5.0	0.20	1	10/30/21 18:46	
Bromodichloromethane	0.20 U	5.0	0.20	1	10/30/21 18:46	
Bromoform	0.25 U	5.0	0.25	1	10/30/21 18:46	
Bromomethane	0.70 U	5.0	0.70	1	10/30/21 18:46	
Carbon Disulfide	0.42 U	10	0.42	1	10/30/21 18:46	
Carbon Tetrachloride	0.34 U	5.0	0.34	1	10/30/21 18:46	
Chlorobenzene	0.20 U	5.0	0.20	1	10/30/21 18:46	
Chloroethane	0.23 U	5.0	0.23	1	10/30/21 18:46	
Chloroform	0.24 U	5.0	0.24	1	10/30/21 18:46	
Chloromethane	0.28 U	5.0	0.28	1	10/30/21 18:46	
Cyclohexane	0.26 U	10	0.26	1	10/30/21 18:46	
Dibromochloromethane	0.20 U	5.0	0.20	1	10/30/21 18:46	
Dichlorodifluoromethane (CFC 12)	0.21 U	5.0	0.21	1	10/30/21 18:46	
Dichloromethane	0.65 U	5.0	0.65	1	10/30/21 18:46	
Ethylbenzene	0.20 U	5.0	0.20	1	10/30/21 18:46	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	10/30/21 18:46	
Methyl Acetate	**0.35 J**	10	0.33	1	10/30/21 18:46	
Methyl tert-Butyl Ether	0.20 U	5.0	0.20	1	10/30/21 18:46	
Methylcyclohexane	0.20 U	10	0.20	1	10/30/21 18:46	
Styrene	0.20 U	5.0	0.20	1	10/30/21 18:46	
Tetrachloroethene (PCE)	0.21 U	5.0	0.21	1	10/30/21 18:46	
Toluene	**0.60 J**	5.0	0.20	1	10/30/21 18:46	

Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R2111358
Project:	Erie Harbor/4155R-09	**Date Collected:**	10/28/21 13:45
Sample Matrix:	Water	**Date Received:**	10/28/21 15:39
Sample Name:	165-FB102821	**Units:**	ug/L
Lab Code:	R2111358-006	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	0.20 U	5.0	0.20	1	10/30/21 18:46	
Trichlorofluoromethane (CFC 11)	0.24 U	5.0	0.24	1	10/30/21 18:46	
Vinyl Chloride	0.20 U	5.0	0.20	1	10/30/21 18:46	
cis-1,2-Dichloroethene	0.23 U	5.0	0.23	1	10/30/21 18:46	
cis-1,3-Dichloropropene	0.20 U	5.0	0.20	1	10/30/21 18:46	
m,p-Xylenes	0.20 U	5.0	0.20	1	10/30/21 18:46	
o-Xylene	0.20 U	5.0	0.20	1	10/30/21 18:46	
trans-1,2-Dichloroethene	0.20 U	5.0	0.20	1	10/30/21 18:46	
trans-1,3-Dichloropropene	0.23 U	5.0	0.23	1	10/30/21 18:46	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	104	85 - 122	10/30/21 18:46	
Dibromofluoromethane	107	80 - 116	10/30/21 18:46	
Toluene-d8	113	87 - 121	10/30/21 18:46	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	No Tentatively Identified Compounds Detected			

Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R2111358
Project:	Erie Harbor/4155R-09	**Date Collected:**	10/28/21
Sample Matrix:	Water	**Date Received:**	10/28/21 15:39
Sample Name:	166-TB102821	**Units:**	ug/L
Lab Code:	R2111358-007	**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)	0.20 U	5.0	0.20	1	10/30/21 19:08	
1,1,2,2-Tetrachloroethane	0.20 U	5.0	0.20	1	10/30/21 19:08	
1,1,2-Trichloroethane	0.20 U	5.0	0.20	1	10/30/21 19:08	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20 U	5.0	0.20	1	10/30/21 19:08	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	10/30/21 19:08	
1,1-Dichloroethene (1,1-DCE)	0.20 U	5.0	0.20	1	10/30/21 19:08	
1,2,3-Trichlorobenzene	0.25 U	5.0	0.25	1	10/30/21 19:08	
1,2,4-Trichlorobenzene	0.34 U	5.0	0.34	1	10/30/21 19:08	
1,2-Dibromo-3-chloropropane (DBCP)	0.45 U	5.0	0.45	1	10/30/21 19:08	
1,2-Dibromoethane	0.20 U	5.0	0.20	1	10/30/21 19:08	
1,2-Dichlorobenzene	0.20 U	5.0	0.20	1	10/30/21 19:08	
1,2-Dichloroethane	0.20 U	5.0	0.20	1	10/30/21 19:08	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	10/30/21 19:08	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	10/30/21 19:08	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	10/30/21 19:08	
1,4-Dioxane	13 U	100	13	1	10/30/21 19:08	
2-Butanone (MEK)	0.78 U	10	0.78	1	10/30/21 19:08	
2-Hexanone	0.20 U	10	0.20	1	10/30/21 19:08	
4-Methyl-2-pentanone	0.20 U	10	0.20	1	10/30/21 19:08	
Acetone	5.0 U	10	5.0	1	10/30/21 19:08	
Benzene	0.20 U	5.0	0.20	1	10/30/21 19:08	
Bromochloromethane	0.20 U	5.0	0.20	1	10/30/21 19:08	
Bromodichloromethane	0.20 U	5.0	0.20	1	10/30/21 19:08	
Bromoform	0.25 U	5.0	0.25	1	10/30/21 19:08	
Bromomethane	0.70 U	5.0	0.70	1	10/30/21 19:08	
Carbon Disulfide	0.42 U	10	0.42	1	10/30/21 19:08	
Carbon Tetrachloride	0.34 U	5.0	0.34	1	10/30/21 19:08	
Chlorobenzene	0.20 U	5.0	0.20	1	10/30/21 19:08	
Chloroethane	0.23 U	5.0	0.23	1	10/30/21 19:08	
Chloroform	0.24 U	5.0	0.24	1	10/30/21 19:08	
Chloromethane	0.28 U	5.0	0.28	1	10/30/21 19:08	
Cyclohexane	0.26 U	10	0.26	1	10/30/21 19:08	
Dibromochloromethane	0.20 U	5.0	0.20	1	10/30/21 19:08	
Dichlorodifluoromethane (CFC 12)	0.21 U	5.0	0.21	1	10/30/21 19:08	
Dichloromethane	0.65 U	5.0	0.65	1	10/30/21 19:08	
Ethylbenzene	0.20 U	5.0	0.20	1	10/30/21 19:08	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	10/30/21 19:08	
Methyl Acetate	0.33 U	10	0.33	1	10/30/21 19:08	
Methyl tert-Butyl Ether	0.20 U	5.0	0.20	1	10/30/21 19:08	
Methylcyclohexane	0.20 U	10	0.20	1	10/30/21 19:08	
Styrene	0.20 U	5.0	0.20	1	10/30/21 19:08	
Tetrachloroethene (PCE)	0.21 U	5.0	0.21	1	10/30/21 19:08	
Toluene	0.20 U	5.0	0.20	1	10/30/21 19:08	

Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R2111358
Project:	Erie Harbor/4155R-09	**Date Collected:**	10/28/21
Sample Matrix:	Water	**Date Received:**	10/28/21 15:39
Sample Name:	166-TB102821	**Units:**	ug/L
Lab Code:	R2111358-007	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	0.20 U	5.0	0.20	1	10/30/21 19:08	
Trichlorofluoromethane (CFC 11)	0.24 U	5.0	0.24	1	10/30/21 19:08	
Vinyl Chloride	0.20 U	5.0	0.20	1	10/30/21 19:08	
cis-1,2-Dichloroethene	0.23 U	5.0	0.23	1	10/30/21 19:08	
cis-1,3-Dichloropropene	0.20 U	5.0	0.20	1	10/30/21 19:08	
m,p-Xylenes	0.20 U	5.0	0.20	1	10/30/21 19:08	
o-Xylene	0.20 U	5.0	0.20	1	10/30/21 19:08	
trans-1,2-Dichloroethene	0.20 U	5.0	0.20	1	10/30/21 19:08	
trans-1,3-Dichloropropene	0.23 U	5.0	0.23	1	10/30/21 19:08	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	103	85 - 122	10/30/21 19:08	
Dibromofluoromethane	107	80 - 116	10/30/21 19:08	
Toluene-d8	112	87 - 121	10/30/21 19:08	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	No Tentatively Identified Compounds Detected			

QC Summary 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

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

Client: Day Environmental, Inc. **Service Request:** R2111358
Project: Erie Harbor/4155R-09
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
160-MW-05	R2111358-001	101	105	109
161-DAYMW-05a	R2111358-002	102	105	110
162-DAYMW08	R2111358-003	104	107	112
163-DAYMW09A	R2111358-004	102	104	110
164-DAYMW-10	R2111358-005	103	108	111
165-FB102821	R2111358-006	104	107	113
166-TB102821	R2111358-007	103	107	112
Method Blank	RQ2113923-04	101	104	110
Lab Control Sample	RQ2113923-03	103	109	111
162-DAYMW08 MS	RQ2113923-05	103	108	110
162-DAYMW08 DMS	RQ2113923-06	105	110	111

Client:	Day Environmental, Inc.	**Service Request:**	R2111358
Project:	Erie Harbor/4155R-09	**Date Collected:**	10/28/21
Sample Matrix:	Water	**Date Received:**	10/28/21
		Date Analyzed:	10/30/21
		Date Extracted:	NA

Duplicate Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name:	162-DAYMW08	**Units:**	ug/L
Lab Code:	R2111358-003	**Basis:**	NA
Analysis Method:	8260C		
Prep Method:	EPA 5030C		

		Matrix Spike			**Duplicate Matrix Spike**					
		RQ2113923-05			RQ2113923-06					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
1,1,1-Trichloroethane (TCA)	0.20 U	51.5	50.0	103	52.7	50.0	105	74-127	2	30
1,1,2,2-Tetrachloroethane	0.20 U	56.6	50.0	113	56.4	50.0	113	72-122	<1	30
1,1,2-Trichloroethane	0.20 U	51.7	50.0	103	51.8	50.0	104	82-121	<1	30
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20 U	51.5	50.0	103	52.5	50.0	105	50-147	2	30
1,1-Dichloroethane (1,1-DCA)	0.20 U	52.0	50.0	104	52.7	50.0	105	74-132	1	30
1,1-Dichloroethene (1,1-DCE)	0.20 U	54.8	50.0	110	55.5	50.0	111	71-118	1	30
1,2,3-Trichlorobenzene	0.25 U	54.7	50.0	109	53.9	50.0	108	59-129	2	30
1,2,4-Trichlorobenzene	0.34 U	54.1	50.0	108	54.7	50.0	109	69-122	1	30
1,2-Dibromo-3-chloropropane (DBCP)	0.45 U	58.8	50.0	118	61.6	50.0	123	37-150	5	30
1,2-Dibromoethane	0.20 U	52.3	50.0	105	52.8	50.0	106	67-127	<1	30
1,2-Dichlorobenzene	0.20 U	52.0	50.0	104	51.9	50.0	104	77-120	<1	30
1,2-Dichloroethane	0.20 U	46.7	50.0	93	46.0	50.0	92	68-130	1	30
1,2-Dichloropropane	0.20 U	51.9	50.0	104	52.5	50.0	105	79-124	1	30
1,3-Dichlorobenzene	0.20 U	52.4	50.0	105	52.0	50.0	104	83-121	<1	30
1,4-Dichlorobenzene	0.20 U	49.2	50.0	98	49.0	50.0	98	82-120	<1	30
1,4-Dioxane	13 U	998	1000	100	1070	1000	107	44-154	7	30
2-Butanone (MEK)	3.2 J	48.2	50.0	90	51.3	50.0	96	61-137	6	30
2-Hexanone	0.20 U	51.0	50.0	102	55.1	50.0	110	56-132	8	30
4-Methyl-2-pentanone	0.36 J	50.0	50.0	99	52.5	50.0	104	60-141	5	30
Acetone	17	68.1	50.0	102	73.3	50.0	112	35-183	7	30
Benzene	0.20 U	54.2	50.0	108	54.4	50.0	109	76-129	<1	30
Bromochloromethane	0.20 U	54.1	50.0	108	53.6	50.0	107	80-122	1	30
Bromodichloromethane	0.20 U	48.8	50.0	98	48.8	50.0	98	78-133	<1	30
Bromoform	0.25 U	52.8	50.0	106	54.1	50.0	108	58-133	2	30
Bromomethane	0.70 U	44.1	50.0	88	45.7	50.0	91	10-184	4	30
Carbon Disulfide	0.42 U	61.1	50.0	122	64.1	50.0	128	59-140	5	30
Carbon Tetrachloride	0.34 U	48.9	50.0	98	50.6	50.0	101	65-135	3	30
Chlorobenzene	0.20 U	54.6	50.0	109	54.6	50.0	109	76-125	<1	30
Chloroethane	0.23 U	58.0	50.0	116	60.0	50.0	120	48-146	3	30
Chloroform	0.24 U	49.5	50.0	99	50.3	50.0	101	75-130	2	30
Chloromethane	0.28 U	67.5	50.0	135	69.6	50.0	139	55-160	3	30
Cyclohexane	0.26 U	50.1	50.0	100	49.6	50.0	99	52-145	1	30
Dibromochloromethane	0.20 U	51.5	50.0	103	53.5	50.0	107	72-128	4	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

Client:	Day Environmental, Inc.	**Service Request:**	R2111358
Project:	Erie Harbor/4155R-09	**Date Collected:**	10/28/21
Sample Matrix:	Water	**Date Received:**	10/28/21
		Date Analyzed:	10/30/21
		Date Extracted:	NA

Duplicate Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name:	162-DAYMW08	**Units:**	ug/L
Lab Code:	R2111358-003	**Basis:**	NA
Analysis Method:	8260C		
Prep Method:	EPA 5030C		

		Matrix Spike			Duplicate Matrix Spike					
		RQ2113923-05			RQ2113923-06					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Dichlorodifluoromethane (CFC 12)	0.21 U	54.9	50.0	110	55.4	50.0	111	49-154	<1	30
Dichloromethane	0.65 U	50.7	50.0	101	50.8	50.0	102	73-122	<1	30
Ethylbenzene	0.20 U	54.9	50.0	110	55.4	50.0	111	72-134	<1	30
Isopropylbenzene (Cumene)	0.20 U	58.4	50.0	117	56.1	50.0	112	77-128	4	30
Methyl Acetate	0.36 J	50.6	50.0	101	51.1	50.0	101	26-121	<1	30
Methyl tert-Butyl Ether	0.20 U	50.1	50.0	100	51.5	50.0	103	75-119	3	30
Methylcyclohexane	0.20 U	53.3	50.0	107	53.2	50.0	106	45-146	<1	30
Styrene	0.20 U	56.2	50.0	112	56.9	50.0	114	74-136	1	30
Tetrachloroethene (PCE)	0.21 U	52.9	50.0	106	52.7	50.0	105	72-125	<1	30
Toluene	0.20 U	55.4	50.0	111	56.0	50.0	112	79-119	1	30
Trichloroethene (TCE)	0.20 U	51.7	50.0	103	52.7	50.0	105	74-122	2	30
Trichlorofluoromethane (CFC 11)	0.24 U	48.4	50.0	97	49.7	50.0	99	71-136	3	30
Vinyl Chloride	0.20 U	61.2	50.0	122	61.8	50.0	124	74-159	1	30
cis-1,2-Dichloroethene	0.23 U	52.3	50.0	105	53.4	50.0	107	77-127	2	30
cis-1,3-Dichloropropene	0.20 U	54.0	50.0	108	55.2	50.0	110	52-134	2	30
m,p-Xylenes	0.20 U	113	100	113	114	100	114	80-126	1	30
o-Xylene	0.20 U	55.7	50.0	111	56.6	50.0	113	79-123	2	30
trans-1,2-Dichloroethene	0.20 U	53.6	50.0	107	55.6	50.0	111	73-118	4	30
trans-1,3-Dichloropropene	0.23 U	53.5	50.0	107	54.9	50.0	110	71-133	2	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

Client:	Day Environmental, Inc.	**Service Request:**	R2111358
Project:	Erie Harbor/4155R-09	**Date Analyzed:**	10/30/21 13:40
Sample Matrix:	Water	**Date Extracted:**	

Method Blank Summary
Volatile Organic Compounds by GC/MS

Sample Name: Method Blank **Instrument ID:** R-MS-12
Lab Code: RQ2113923-04 **File ID:** I:\ACQUDATA\msvoa12\Data\103021\K8376.D\

Analysis Method: 8260C **Analysis Lot:** 744443
Prep Method: EPA 5030C

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	RQ2113923-03	I:\ACQUDATA\msvoa12\Data\103021\K8373.D\	10/30/21 12:22
165-FB102821	R2111358-006	I:\ACQUDATA\msvoa12\Data\103021\K8390.D\	10/30/21 18:46
166-TB102821	R2111358-007	I:\ACQUDATA\msvoa12\Data\103021\K8391.D\	10/30/21 19:08
160-MW-05	R2111358-001	I:\ACQUDATA\msvoa12\Data\103021\K8392.D\	10/30/21 19:30
161-DAYMW-05a	R2111358-002	I:\ACQUDATA\msvoa12\Data\103021\K8393.D\	10/30/21 19:51
163-DAYMW09A	R2111358-004	I:\ACQUDATA\msvoa12\Data\103021\K8394.D\	10/30/21 20:13
164-DAYMW-10	R2111358-005	I:\ACQUDATA\msvoa12\Data\103021\K8395.D\	10/30/21 20:35
162-DAYMW08	R2111358-003	I:\ACQUDATA\msvoa12\Data\103021\K8396.D\	10/30/21 20:57
162-DAYMW08MS	RQ2113923-05	I:\ACQUDATA\msvoa12\Data\103021\K8397.D\	10/30/21 21:19
162-DAYMW08DMS	RQ2113923-06	I:\ACQUDATA\msvoa12\Data\103021\K8398.D\	10/30/21 21:41

Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R2111358
Project:	Erie Harbor/4155R-09	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2113923-04	**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)	0.20 U	5.0	0.20	1	10/30/21 13:40	
1,1,2,2-Tetrachloroethane	0.20 U	5.0	0.20	1	10/30/21 13:40	
1,1,2-Trichloroethane	0.20 U	5.0	0.20	1	10/30/21 13:40	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20 U	5.0	0.20	1	10/30/21 13:40	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	10/30/21 13:40	
1,1-Dichloroethene (1,1-DCE)	0.20 U	5.0	0.20	1	10/30/21 13:40	
1,2,3-Trichlorobenzene	0.25 U	5.0	0.25	1	10/30/21 13:40	
1,2,4-Trichlorobenzene	0.34 U	5.0	0.34	1	10/30/21 13:40	
1,2-Dibromo-3-chloropropane (DBCP)	0.45 U	5.0	0.45	1	10/30/21 13:40	
1,2-Dibromoethane	0.20 U	5.0	0.20	1	10/30/21 13:40	
1,2-Dichlorobenzene	0.20 U	5.0	0.20	1	10/30/21 13:40	
1,2-Dichloroethane	0.20 U	5.0	0.20	1	10/30/21 13:40	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	10/30/21 13:40	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	10/30/21 13:40	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	10/30/21 13:40	
1,4-Dioxane	13 U	100	13	1	10/30/21 13:40	
2-Butanone (MEK)	0.78 U	10	0.78	1	10/30/21 13:40	
2-Hexanone	0.20 U	10	0.20	1	10/30/21 13:40	
4-Methyl-2-pentanone	0.20 U	10	0.20	1	10/30/21 13:40	
Acetone	5.0 U	10	5.0	1	10/30/21 13:40	
Benzene	0.20 U	5.0	0.20	1	10/30/21 13:40	
Bromochloromethane	0.20 U	5.0	0.20	1	10/30/21 13:40	
Bromodichloromethane	0.20 U	5.0	0.20	1	10/30/21 13:40	
Bromoform	0.25 U	5.0	0.25	1	10/30/21 13:40	
Bromomethane	0.70 U	5.0	0.70	1	10/30/21 13:40	
Carbon Disulfide	0.42 U	10	0.42	1	10/30/21 13:40	
Carbon Tetrachloride	0.34 U	5.0	0.34	1	10/30/21 13:40	
Chlorobenzene	0.20 U	5.0	0.20	1	10/30/21 13:40	
Chloroethane	0.23 U	5.0	0.23	1	10/30/21 13:40	
Chloroform	0.24 U	5.0	0.24	1	10/30/21 13:40	
Chloromethane	0.28 U	5.0	0.28	1	10/30/21 13:40	
Cyclohexane	0.26 U	10	0.26	1	10/30/21 13:40	
Dibromochloromethane	0.20 U	5.0	0.20	1	10/30/21 13:40	
Dichlorodifluoromethane (CFC 12)	0.21 U	5.0	0.21	1	10/30/21 13:40	
Dichloromethane	0.65 U	5.0	0.65	1	10/30/21 13:40	
Ethylbenzene	0.20 U	5.0	0.20	1	10/30/21 13:40	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	10/30/21 13:40	
Methyl Acetate	0.33 U	10	0.33	1	10/30/21 13:40	
Methyl tert-Butyl Ether	0.20 U	5.0	0.20	1	10/30/21 13:40	
Methylcyclohexane	0.20 U	10	0.20	1	10/30/21 13:40	
Styrene	0.20 U	5.0	0.20	1	10/30/21 13:40	
Tetrachloroethene (PCE)	0.21 U	5.0	0.21	1	10/30/21 13:40	
Toluene	0.20 U	5.0	0.20	1	10/30/21 13:40	

Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R2111358
Project:	Erie Harbor/4155R-09	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2113923-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	0.20 U	5.0	0.20	1	10/30/21 13:40	
Trichlorofluoromethane (CFC 11)	0.24 U	5.0	0.24	1	10/30/21 13:40	
Vinyl Chloride	0.20 U	5.0	0.20	1	10/30/21 13:40	
cis-1,2-Dichloroethene	0.23 U	5.0	0.23	1	10/30/21 13:40	
cis-1,3-Dichloropropene	0.20 U	5.0	0.20	1	10/30/21 13:40	
m,p-Xylenes	0.20 U	5.0	0.20	1	10/30/21 13:40	
o-Xylene	0.20 U	5.0	0.20	1	10/30/21 13:40	
trans-1,2-Dichloroethene	0.20 U	5.0	0.20	1	10/30/21 13:40	
trans-1,3-Dichloropropene	0.23 U	5.0	0.23	1	10/30/21 13:40	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85 - 122	10/30/21 13:40	
Dibromofluoromethane	104	80 - 116	10/30/21 13:40	
Toluene-d8	110	87 - 121	10/30/21 13:40	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	No Tentatively Identified Compounds Detected			

Client:	Day Environmental, Inc.	**Service Request:**	R2111358
Project:	Erie Harbor/4155R-09	**Date Analyzed:**	10/30/21 12:22
Sample Matrix:	Water	**Date Extracted:**	

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Sample Name:	Lab Control Sample	**Instrument ID:**	R-MS-12
Lab Code:	RQ2113923-03	**File ID:**	I:\ACQUDATA\msvoa12\Data\103021\K8373.D\
Analysis Method:	8260C	**Analysis Lot:**	744443
Prep Method:	EPA 5030C		

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	RQ2113923-04	I:\ACQUDATA\msvoa12\Data\103021\K8376.D\	10/30/21 13:40
165-FB102821	R2111358-006	I:\ACQUDATA\msvoa12\Data\103021\K8390.D\	10/30/21 18:46
166-TB102821	R2111358-007	I:\ACQUDATA\msvoa12\Data\103021\K8391.D\	10/30/21 19:08
160-MW-05	R2111358-001	I:\ACQUDATA\msvoa12\Data\103021\K8392.D\	10/30/21 19:30
161-DAYMW-05a	R2111358-002	I:\ACQUDATA\msvoa12\Data\103021\K8393.D\	10/30/21 19:51
163-DAYMW09A	R2111358-004	I:\ACQUDATA\msvoa12\Data\103021\K8394.D\	10/30/21 20:13
164-DAYMW-10	R2111358-005	I:\ACQUDATA\msvoa12\Data\103021\K8395.D\	10/30/21 20:35
162-DAYMW08	R2111358-003	I:\ACQUDATA\msvoa12\Data\103021\K8396.D\	10/30/21 20:57
162-DAYMW08MS	RQ2113923-05	I:\ACQUDATA\msvoa12\Data\103021\K8397.D\	10/30/21 21:19
162-DAYMW08DMS	RQ2113923-06	I:\ACQUDATA\msvoa12\Data\103021\K8398.D\	10/30/21 21:41

Client: Day Environmental, Inc. **Service Request:** R2111358
Project: Erie Harbor/4155R-09 **Date Analyzed:** 10/30/21
Sample Matrix: Water

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2113923-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	18.4	20.0	92	75-125
1,1,2,2-Tetrachloroethane	8260C	22.2	20.0	111	78-126
1,1,2-Trichloroethane	8260C	20.6	20.0	103	82-121
1,1,2-Trichloro-1,2,2-trifluoroethane	8260C	17.8	20.0	89	67-124
1,1-Dichloroethane (1,1-DCA)	8260C	19.2	20.0	96	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	19.8	20.0	99	71-118
1,2,3-Trichlorobenzene	8260C	21.7	20.0	109	67-136
1,2,4-Trichlorobenzene	8260C	21.6	20.0	108	75-132
1,2-Dibromo-3-chloropropane (DBCP)	8260C	24.4	20.0	122	55-136
1,2-Dibromoethane	8260C	21.3	20.0	106	82-127
1,2-Dichlorobenzene	8260C	20.6	20.0	103	80-119
1,2-Dichloroethane	8260C	18.0	20.0	90	71-127
1,2-Dichloropropane	8260C	20.0	20.0	100	80-119
1,3-Dichlorobenzene	8260C	20.0	20.0	100	83-121
1,4-Dichlorobenzene	8260C	19.2	20.0	96	79-119
1,4-Dioxane	8260C	404	400	101	44-154
2-Butanone (MEK)	8260C	18.2	20.0	91	61-137
2-Hexanone	8260C	19.9	20.0	99	63-124
4-Methyl-2-pentanone	8260C	19.6	20.0	98	66-124
Acetone	8260C	17.3	20.0	86	40-161
Benzene	8260C	20.0	20.0	100	79-119
Bromochloromethane	8260C	20.9	20.0	105	81-126
Bromodichloromethane	8260C	19.4	20.0	97	81-123
Bromoform	8260C	22.6	20.0	113	65-146
Bromomethane	8260C	21.4	20.0	107	42-166
Carbon Disulfide	8260C	23.9	20.0	119	66-128
Carbon Tetrachloride	8260C	17.2	20.0	86	70-127
Chlorobenzene	8260C	20.4	20.0	102	80-121
Chloroethane	8260C	20.6	20.0	103	62-131
Chloroform	8260C	18.9	20.0	95	79-120
Chloromethane	8260C	26.4	20.0	132	65-135
Cyclohexane	8260C	17.9	20.0	90	69-120
Dibromochloromethane	8260C	21.0	20.0	105	72-128

Client: Day Environmental, Inc. **Service Request:** R2111358
Project: Erie Harbor/4155R-09 **Date Analyzed:** 10/30/21
Sample Matrix: Water

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2113923-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Dichlorodifluoromethane (CFC 12)	8260C	19.8	20.0	99	59-155
Dichloromethane	8260C	19.7	20.0	98	73-122
Ethylbenzene	8260C	19.1	20.0	96	76-120
Isopropylbenzene (Cumene)	8260C	20.1	20.0	101	77-128
Methyl Acetate	8260C	22.1	20.0	110	61-133
Methyl tert-Butyl Ether	8260C	20.4	20.0	102	75-118
Methylcyclohexane	8260C	19.4	20.0	97	51-129
Styrene	8260C	20.8	20.0	104	80-124
Tetrachloroethene (PCE)	8260C	18.3	20.0	91	72-125
Toluene	8260C	20.2	20.0	101	79-119
Trichloroethene (TCE)	8260C	19.5	20.0	98	74-122
Trichlorofluoromethane (CFC 11)	8260C	16.8	20.0	84	71-136
Vinyl Chloride	8260C	21.5	20.0	107	74-159
cis-1,2-Dichloroethene	8260C	20.0	20.0	100	80-121
cis-1,3-Dichloropropene	8260C	22.0	20.0	110	77-122
m,p-Xylenes	8260C	39.6	40.0	99	80-126
o-Xylene	8260C	19.9	20.0	100	79-123
trans-1,2-Dichloroethene	8260C	19.5	20.0	97	73-118
trans-1,3-Dichloropropene	8260C	22.3	20.0	111	71-133

Client: Day Environmental, Inc. **Service Request:**R2111358
Project: Erie Harbor/4155R-09 **Date Analyzed:**10/30/21 11:24

Tune Summary
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\msvoa12\Data\103021\K8371.D\ **Analytical Method:** 8260C
Instrument ID: R-MS-12 **Analysis Lot:** 744443

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	18.68	37389	Pass
75	95	30	60	49.71	99496	Pass
95	95	100	100	100.00	200149	Pass
96	95	5	9	6.93	13864	Pass
173	174	0	2	0.88	1242	Pass
174	95	50	120	70.73	141571	Pass
175	174	5	9	7.57	10721	Pass
176	174	95	101	96.91	137195	Pass
177	176	5	9	6.57	9012	Pass

Sample Name	Lab Code	File ID:	Date Analyzed:	Q
Continuing Calibration Verification	RQ2113923-02	I:\ACQUDATA\msvoa12\Data\103021\K8372.D\	10/30/21 11:53	
Lab Control Sample	RQ2113923-03	I:\ACQUDATA\msvoa12\Data\103021\K8373.D\	10/30/21 12:22	
Method Blank	RQ2113923-04	I:\ACQUDATA\msvoa12\Data\103021\K8376.D\	10/30/21 13:40	
165-FB102821	R2111358-006	I:\ACQUDATA\msvoa12\Data\103021\K8390.D\	10/30/21 18:46	
166-TB102821	R2111358-007	I:\ACQUDATA\msvoa12\Data\103021\K8391.D\	10/30/21 19:08	
160-MW-05	R2111358-001	I:\ACQUDATA\msvoa12\Data\103021\K8392.D\	10/30/21 19:30	
161-DAYMW-05a	R2111358-002	I:\ACQUDATA\msvoa12\Data\103021\K8393.D\	10/30/21 19:51	
163-DAYMW09A	R2111358-004	I:\ACQUDATA\msvoa12\Data\103021\K8394.D\	10/30/21 20:13	
164-DAYMW-10	R2111358-005	I:\ACQUDATA\msvoa12\Data\103021\K8395.D\	10/30/21 20:35	
162-DAYMW08	R2111358-003	I:\ACQUDATA\msvoa12\Data\103021\K8396.D\	10/30/21 20:57	
162-DAYMW08	RQ2113923-05	I:\ACQUDATA\msvoa12\Data\103021\K8397.D\	10/30/21 21:19	
162-DAYMW08	RQ2113923-06	I:\ACQUDATA\msvoa12\Data\103021\K8398.D\	10/30/21 21:41	

Client: Day Environmental, Inc. **Service Request:** R2111358
Project: Erie Harbor/4155R-09 **Date Analyzed:** 10/30/21 11:53

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

File ID: I:\ACQUDATA\msvoa12\Data\103021\K8372.D\ **Lab Code:** RQ2113923-02
Instrument ID: R-MS-12 **Analysis Lot:** 744443
Analysis Method: 8260C **Signal ID:** 1

		1,4-Dichlorobenzene-d4		1,4-Difluorobenzene		Chlorobenzene-d5	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	Result ==>	269,262	11.84	592,314	6.52	531,912	9.80
	Upper Limit ==>	538,524	12.01	1,184,628	6.69	1,063,824	9.97
	Lower Limit ==>	134,631	11.67	296,157	6.35	265,956	9.63
Associated Analyses							
Lab Control Sample	RQ2113923-03	246508	11.83	563979	6.52	508663	9.80
Method Blank	RQ2113923-04	242710	11.83	577910	6.52	515701	9.80
165-FB102821	R2111358-006	247333	11.83	570889	6.52	518806	9.80
166-TB102821	R2111358-007	239994	11.84	558064	6.52	499807	9.80
160-MW-05	R2111358-001	246650	11.83	581958	6.52	515597	9.80
161-DAYMW-05a	R2111358-002	241983	11.83	559635	6.52	497433	9.80
163-DAYMW09A	R2111358-004	243598	11.83	557712	6.52	504843	9.80
164-DAYMW-10	R2111358-005	249744	11.83	573264	6.52	510912	9.80
162-DAYMW08	R2111358-003	245207	11.83	558513	6.53	493684	9.80
162-DAYMW08MS	RQ2113923-05	254595	11.83	566557	6.53	504986	9.80
162-DAYMW08DMS	RQ2113923-06	261335	11.83	563646	6.53	505365	9.80

Client: Day Environmental, Inc. **Service Request:** R2111358
Project: Erie Harbor/4155R-09 **Date Analyzed:** 10/30/21 11:53

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

File ID: I:\ACQUDATA\msvoa12\Data\103021\K8372.D\ **Lab Code:** RQ2113923-02
Instrument ID: R-MS-12 **Analysis Lot:** 744443
Analysis Method: 8260C **Signal ID:** 1

		Pentafluorobenzene	
		Area	**RT**
	Result ==>	353,474	5.44
	Upper Limit ==>	706,948	5.61
	Lower Limit ==>	176,737	5.27
Associated Analyses			
Lab Control Sample	RQ2113923-03	348399	5.45
Method Blank	RQ2113923-04	347630	5.44
165-FB102821	R2111358-006	353673	5.44
166-TB102821	R2111358-007	336143	5.46
160-MW-05	R2111358-001	358367	5.44
161-DAYMW-05a	R2111358-002	337972	5.46
163-DAYMW09A	R2111358-004	340546	5.45
164-DAYMW-10	R2111358-005	343976	5.44
162-DAYMW08	R2111358-003	338638	5.46
162-DAYMW08MS	RQ2113923-05	346021	5.46
162-DAYMW08DMS	RQ2113923-06	343096	5.46

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

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

Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R2111358
Project:	Erie Harbor/4155R-09	**Date Collected:**	10/28/21 13:35
Sample Matrix:	Water	**Date Received:**	10/28/21 15:39
Sample Name:	160-MW-05	**Units:**	ug/L
Lab Code:	R2111358-001	**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)	0.20 U	5.0	0.20	1	10/30/21 19:30	
1,1,2,2-Tetrachloroethane	0.20 U	5.0	0.20	1	10/30/21 19:30	
1,1,2-Trichloroethane	0.20 U	5.0	0.20	1	10/30/21 19:30	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20 U	5.0	0.20	1	10/30/21 19:30	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	10/30/21 19:30	
1,1-Dichloroethene (1,1-DCE)	0.20 U	5.0	0.20	1	10/30/21 19:30	
1,2,3-Trichlorobenzene	0.25 U	5.0	0.25	1	10/30/21 19:30	
1,2,4-Trichlorobenzene	0.34 U	5.0	0.34	1	10/30/21 19:30	
1,2-Dibromo-3-chloropropane (DBCP)	0.45 U	5.0	0.45	1	10/30/21 19:30	
1,2-Dibromoethane	0.20 U	5.0	0.20	1	10/30/21 19:30	
1,2-Dichlorobenzene	0.20 U	5.0	0.20	1	10/30/21 19:30	
1,2-Dichloroethane	0.20 U	5.0	0.20	1	10/30/21 19:30	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	10/30/21 19:30	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	10/30/21 19:30	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	10/30/21 19:30	
1,4-Dioxane	13 U	100	13	1	10/30/21 19:30	
2-Butanone (MEK)	**2.9 J**	10	0.78	1	10/30/21 19:30	
2-Hexanone	0.20 U	10	0.20	1	10/30/21 19:30	
4-Methyl-2-pentanone	**0.32 J**	10	0.20	1	10/30/21 19:30	
Acetone	**24**	10	5.0	1	10/30/21 19:30	
Benzene	0.20 U	5.0	0.20	1	10/30/21 19:30	
Bromochloromethane	0.20 U	5.0	0.20	1	10/30/21 19:30	
Bromodichloromethane	0.20 U	5.0	0.20	1	10/30/21 19:30	
Bromoform	0.25 U	5.0	0.25	1	10/30/21 19:30	
Bromomethane	0.70 U	5.0	0.70	1	10/30/21 19:30	
Carbon Disulfide	0.42 U	10	0.42	1	10/30/21 19:30	
Carbon Tetrachloride	0.34 U	5.0	0.34	1	10/30/21 19:30	
Chlorobenzene	0.20 U	5.0	0.20	1	10/30/21 19:30	
Chloroethane	0.23 U	5.0	0.23	1	10/30/21 19:30	
Chloroform	0.24 U	5.0	0.24	1	10/30/21 19:30	
Chloromethane	0.28 U	5.0	0.28	1	10/30/21 19:30	
Cyclohexane	0.26 U	10	0.26	1	10/30/21 19:30	
Dibromochloromethane	0.20 U	5.0	0.20	1	10/30/21 19:30	
Dichlorodifluoromethane (CFC 12)	0.21 U	5.0	0.21	1	10/30/21 19:30	
Dichloromethane	0.65 U	5.0	0.65	1	10/30/21 19:30	
Ethylbenzene	0.20 U	5.0	0.20	1	10/30/21 19:30	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	10/30/21 19:30	
Methyl Acetate	0.33 U	10	0.33	1	10/30/21 19:30	
Methyl tert-Butyl Ether	0.20 U	5.0	0.20	1	10/30/21 19:30	
Methylcyclohexane	0.20 U	10	0.20	1	10/30/21 19:30	
Styrene	0.20 U	5.0	0.20	1	10/30/21 19:30	
Tetrachloroethene (PCE)	0.21 U	5.0	0.21	1	10/30/21 19:30	
Toluene	0.20 U	5.0	0.20	1	10/30/21 19:30	

Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R2111358
Project:	Erie Harbor/4155R-09	**Date Collected:**	10/28/21 13:35
Sample Matrix:	Water	**Date Received:**	10/28/21 15:39
Sample Name:	160-MW-05	**Units:**	ug/L
Lab Code:	R2111358-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	0.20 U	5.0	0.20	1	10/30/21 19:30	
Trichlorofluoromethane (CFC 11)	0.24 U	5.0	0.24	1	10/30/21 19:30	
Vinyl Chloride	0.20 U	5.0	0.20	1	10/30/21 19:30	
cis-1,2-Dichloroethene	0.23 U	5.0	0.23	1	10/30/21 19:30	
cis-1,3-Dichloropropene	0.20 U	5.0	0.20	1	10/30/21 19:30	
m,p-Xylenes	0.20 U	5.0	0.20	1	10/30/21 19:30	
o-Xylene	0.20 U	5.0	0.20	1	10/30/21 19:30	
trans-1,2-Dichloroethene	0.20 U	5.0	0.20	1	10/30/21 19:30	
trans-1,3-Dichloropropene	0.23 U	5.0	0.23	1	10/30/21 19:30	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85 - 122	10/30/21 19:30	
Dibromofluoromethane	105	80 - 116	10/30/21 19:30	
Toluene-d8	109	87 - 121	10/30/21 19:30	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
000067-63-0	Isopropyl Alcohol	2.52	19.9	JN

Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R2111358
Project:	Erie Harbor/4155R-09	**Date Collected:**	10/28/21 13:43
Sample Matrix:	Water	**Date Received:**	10/28/21 15:39
Sample Name:	161-DAYMW-05a	**Units:**	ug/L
Lab Code:	R2111358-002	**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)	0.20 U	5.0	0.20	1	10/30/21 19:51	
1,1,2,2-Tetrachloroethane	0.20 U	5.0	0.20	1	10/30/21 19:51	
1,1,2-Trichloroethane	0.20 U	5.0	0.20	1	10/30/21 19:51	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20 U	5.0	0.20	1	10/30/21 19:51	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	10/30/21 19:51	
1,1-Dichloroethene (1,1-DCE)	0.20 U	5.0	0.20	1	10/30/21 19:51	
1,2,3-Trichlorobenzene	0.25 U	5.0	0.25	1	10/30/21 19:51	
1,2,4-Trichlorobenzene	0.34 U	5.0	0.34	1	10/30/21 19:51	
1,2-Dibromo-3-chloropropane (DBCP)	0.45 U	5.0	0.45	1	10/30/21 19:51	
1,2-Dibromoethane	0.20 U	5.0	0.20	1	10/30/21 19:51	
1,2-Dichlorobenzene	0.20 U	5.0	0.20	1	10/30/21 19:51	
1,2-Dichloroethane	0.20 U	5.0	0.20	1	10/30/21 19:51	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	10/30/21 19:51	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	10/30/21 19:51	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	10/30/21 19:51	
1,4-Dioxane	13 U	100	13	1	10/30/21 19:51	
2-Butanone (MEK)	**3.3 J**	10	0.78	1	10/30/21 19:51	
2-Hexanone	0.20 U	10	0.20	1	10/30/21 19:51	
4-Methyl-2-pentanone	**0.34 J**	10	0.20	1	10/30/21 19:51	
Acetone	**18**	10	5.0	1	10/30/21 19:51	
Benzene	0.20 U	5.0	0.20	1	10/30/21 19:51	
Bromochloromethane	0.20 U	5.0	0.20	1	10/30/21 19:51	
Bromodichloromethane	0.20 U	5.0	0.20	1	10/30/21 19:51	
Bromoform	0.25 U	5.0	0.25	1	10/30/21 19:51	
Bromomethane	0.70 U	5.0	0.70	1	10/30/21 19:51	
Carbon Disulfide	0.42 U	10	0.42	1	10/30/21 19:51	
Carbon Tetrachloride	0.34 U	5.0	0.34	1	10/30/21 19:51	
Chlorobenzene	0.20 U	5.0	0.20	1	10/30/21 19:51	
Chloroethane	0.23 U	5.0	0.23	1	10/30/21 19:51	
Chloroform	0.24 U	5.0	0.24	1	10/30/21 19:51	
Chloromethane	0.28 U	5.0	0.28	1	10/30/21 19:51	
Cyclohexane	0.26 U	10	0.26	1	10/30/21 19:51	
Dibromochloromethane	0.20 U	5.0	0.20	1	10/30/21 19:51	
Dichlorodifluoromethane (CFC 12)	0.21 U	5.0	0.21	1	10/30/21 19:51	
Dichloromethane	0.65 U	5.0	0.65	1	10/30/21 19:51	
Ethylbenzene	0.20 U	5.0	0.20	1	10/30/21 19:51	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	10/30/21 19:51	
Methyl Acetate	0.33 U	10	0.33	1	10/30/21 19:51	
Methyl tert-Butyl Ether	0.20 U	5.0	0.20	1	10/30/21 19:51	
Methylcyclohexane	0.20 U	10	0.20	1	10/30/21 19:51	
Styrene	0.20 U	5.0	0.20	1	10/30/21 19:51	
Tetrachloroethene (PCE)	0.21 U	5.0	0.21	1	10/30/21 19:51	
Toluene	**0.32 J**	5.0	0.20	1	10/30/21 19:51	

Client:	Day Environmental, Inc.	**Service Request:**	R2111358
Project:	Erie Harbor/4155R-09	**Date Collected:**	10/28/21 13:43
Sample Matrix:	Water	**Date Received:**	10/28/21 15:39
Sample Name:	161-DAYMW-05a	**Units:**	ug/L
Lab Code:	R2111358-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	**1.3 J**	5.0	0.20	1	10/30/21 19:51	
Trichlorofluoromethane (CFC 11)	0.24 U	5.0	0.24	1	10/30/21 19:51	
Vinyl Chloride	0.20 U	5.0	0.20	1	10/30/21 19:51	
cis-1,2-Dichloroethene	0.23 U	5.0	0.23	1	10/30/21 19:51	
cis-1,3-Dichloropropene	0.20 U	5.0	0.20	1	10/30/21 19:51	
m,p-Xylenes	0.20 U	5.0	0.20	1	10/30/21 19:51	
o-Xylene	0.20 U	5.0	0.20	1	10/30/21 19:51	
trans-1,2-Dichloroethene	0.20 U	5.0	0.20	1	10/30/21 19:51	
trans-1,3-Dichloropropene	0.23 U	5.0	0.23	1	10/30/21 19:51	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	85 - 122	10/30/21 19:51	
Dibromofluoromethane	105	80 - 116	10/30/21 19:51	
Toluene-d8	110	87 - 121	10/30/21 19:51	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
000067-63-0	Isopropyl Alcohol	2.54	13.7	JN

Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R2111358
Project:	Erie Harbor/4155R-09	**Date Collected:**	10/28/21 13:15
Sample Matrix:	Water	**Date Received:**	10/28/21 15:39
Sample Name:	162-DAYMW08	**Units:**	ug/L
Lab Code:	R2111358-003	**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)	0.20 U	5.0	0.20	1	10/30/21 20:57	
1,1,2,2-Tetrachloroethane	0.20 U	5.0	0.20	1	10/30/21 20:57	
1,1,2-Trichloroethane	0.20 U	5.0	0.20	1	10/30/21 20:57	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20 U	5.0	0.20	1	10/30/21 20:57	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	10/30/21 20:57	
1,1-Dichloroethene (1,1-DCE)	0.20 U	5.0	0.20	1	10/30/21 20:57	
1,2,3-Trichlorobenzene	0.25 U	5.0	0.25	1	10/30/21 20:57	
1,2,4-Trichlorobenzene	0.34 U	5.0	0.34	1	10/30/21 20:57	
1,2-Dibromo-3-chloropropane (DBCP)	0.45 U	5.0	0.45	1	10/30/21 20:57	
1,2-Dibromoethane	0.20 U	5.0	0.20	1	10/30/21 20:57	
1,2-Dichlorobenzene	0.20 U	5.0	0.20	1	10/30/21 20:57	
1,2-Dichloroethane	0.20 U	5.0	0.20	1	10/30/21 20:57	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	10/30/21 20:57	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	10/30/21 20:57	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	10/30/21 20:57	
1,4-Dioxane	13 U	100	13	1	10/30/21 20:57	
2-Butanone (MEK)	**3.2 J**	10	0.78	1	10/30/21 20:57	
2-Hexanone	0.20 U	10	0.20	1	10/30/21 20:57	
4-Methyl-2-pentanone	**0.36 J**	10	0.20	1	10/30/21 20:57	
Acetone	**17**	10	5.0	1	10/30/21 20:57	
Benzene	0.20 U	5.0	0.20	1	10/30/21 20:57	
Bromochloromethane	0.20 U	5.0	0.20	1	10/30/21 20:57	
Bromodichloromethane	0.20 U	5.0	0.20	1	10/30/21 20:57	
Bromoform	0.25 U	5.0	0.25	1	10/30/21 20:57	
Bromomethane	0.70 U	5.0	0.70	1	10/30/21 20:57	
Carbon Disulfide	0.42 U	10	0.42	1	10/30/21 20:57	
Carbon Tetrachloride	0.34 U	5.0	0.34	1	10/30/21 20:57	
Chlorobenzene	0.20 U	5.0	0.20	1	10/30/21 20:57	
Chloroethane	0.23 U	5.0	0.23	1	10/30/21 20:57	
Chloroform	0.24 U	5.0	0.24	1	10/30/21 20:57	
Chloromethane	0.28 U	5.0	0.28	1	10/30/21 20:57	
Cyclohexane	0.26 U	10	0.26	1	10/30/21 20:57	
Dibromochloromethane	0.20 U	5.0	0.20	1	10/30/21 20:57	
Dichlorodifluoromethane (CFC 12)	0.21 U	5.0	0.21	1	10/30/21 20:57	
Dichloromethane	0.65 U	5.0	0.65	1	10/30/21 20:57	
Ethylbenzene	0.20 U	5.0	0.20	1	10/30/21 20:57	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	10/30/21 20:57	
Methyl Acetate	**0.36 J**	10	0.33	1	10/30/21 20:57	
Methyl tert-Butyl Ether	0.20 U	5.0	0.20	1	10/30/21 20:57	
Methylcyclohexane	0.20 U	10	0.20	1	10/30/21 20:57	
Styrene	0.20 U	5.0	0.20	1	10/30/21 20:57	
Tetrachloroethene (PCE)	0.21 U	5.0	0.21	1	10/30/21 20:57	
Toluene	0.20 U	5.0	0.20	1	10/30/21 20:57	

Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R2111358
Project:	Erie Harbor/4155R-09	**Date Collected:**	10/28/21 13:15
Sample Matrix:	Water	**Date Received:**	10/28/21 15:39
Sample Name:	162-DAYMW08	**Units:**	ug/L
Lab Code:	R2111358-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	0.20 U	5.0	0.20	1	10/30/21 20:57	
Trichlorofluoromethane (CFC 11)	0.24 U	5.0	0.24	1	10/30/21 20:57	
Vinyl Chloride	0.20 U	5.0	0.20	1	10/30/21 20:57	
cis-1,2-Dichloroethene	0.23 U	5.0	0.23	1	10/30/21 20:57	
cis-1,3-Dichloropropene	0.20 U	5.0	0.20	1	10/30/21 20:57	
m,p-Xylenes	0.20 U	5.0	0.20	1	10/30/21 20:57	
o-Xylene	0.20 U	5.0	0.20	1	10/30/21 20:57	
trans-1,2-Dichloroethene	0.20 U	5.0	0.20	1	10/30/21 20:57	
trans-1,3-Dichloropropene	0.23 U	5.0	0.23	1	10/30/21 20:57	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	104	85 - 122	10/30/21 20:57	
Dibromofluoromethane	107	80 - 116	10/30/21 20:57	
Toluene-d8	112	87 - 121	10/30/21 20:57	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
000067-63-0	Isopropyl Alcohol	2.54	11.6	JN

Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R2111358
Project:	Erie Harbor/4155R-09	**Date Collected:**	10/28/21 13:28
Sample Matrix:	Water	**Date Received:**	10/28/21 15:39
Sample Name:	163-DAYMW09A	**Units:**	ug/L
Lab Code:	R2111358-004	**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)	0.20 U	5.0	0.20	1	10/30/21 20:13	
1,1,2,2-Tetrachloroethane	0.20 U	5.0	0.20	1	10/30/21 20:13	
1,1,2-Trichloroethane	0.20 U	5.0	0.20	1	10/30/21 20:13	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20 U	5.0	0.20	1	10/30/21 20:13	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	10/30/21 20:13	
1,1-Dichloroethene (1,1-DCE)	0.20 U	5.0	0.20	1	10/30/21 20:13	
1,2,3-Trichlorobenzene	0.25 U	5.0	0.25	1	10/30/21 20:13	
1,2,4-Trichlorobenzene	0.34 U	5.0	0.34	1	10/30/21 20:13	
1,2-Dibromo-3-chloropropane (DBCP)	0.45 U	5.0	0.45	1	10/30/21 20:13	
1,2-Dibromoethane	0.20 U	5.0	0.20	1	10/30/21 20:13	
1,2-Dichlorobenzene	0.20 U	5.0	0.20	1	10/30/21 20:13	
1,2-Dichloroethane	0.20 U	5.0	0.20	1	10/30/21 20:13	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	10/30/21 20:13	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	10/30/21 20:13	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	10/30/21 20:13	
1,4-Dioxane	13 U	100	13	1	10/30/21 20:13	
2-Butanone (MEK)	**3.4 J**	10	0.78	1	10/30/21 20:13	
2-Hexanone	0.20 U	10	0.20	1	10/30/21 20:13	
4-Methyl-2-pentanone	**0.31 J**	10	0.20	1	10/30/21 20:13	
Acetone	**21**	10	5.0	1	10/30/21 20:13	
Benzene	**1.2 J**	5.0	0.20	1	10/30/21 20:13	
Bromochloromethane	0.20 U	5.0	0.20	1	10/30/21 20:13	
Bromodichloromethane	0.20 U	5.0	0.20	1	10/30/21 20:13	
Bromoform	0.25 U	5.0	0.25	1	10/30/21 20:13	
Bromomethane	0.70 U	5.0	0.70	1	10/30/21 20:13	
Carbon Disulfide	0.42 U	10	0.42	1	10/30/21 20:13	
Carbon Tetrachloride	0.34 U	5.0	0.34	1	10/30/21 20:13	
Chlorobenzene	0.20 U	5.0	0.20	1	10/30/21 20:13	
Chloroethane	0.23 U	5.0	0.23	1	10/30/21 20:13	
Chloroform	0.24 U	5.0	0.24	1	10/30/21 20:13	
Chloromethane	**0.31 J**	5.0	0.28	1	10/30/21 20:13	
Cyclohexane	**5.4 J**	10	0.26	1	10/30/21 20:13	
Dibromochloromethane	0.20 U	5.0	0.20	1	10/30/21 20:13	
Dichlorodifluoromethane (CFC 12)	0.21 U	5.0	0.21	1	10/30/21 20:13	
Dichloromethane	0.65 U	5.0	0.65	1	10/30/21 20:13	
Ethylbenzene	**4.5 J**	5.0	0.20	1	10/30/21 20:13	
Isopropylbenzene (Cumene)	**1.3 J**	5.0	0.20	1	10/30/21 20:13	
Methyl Acetate	0.33 U	10	0.33	1	10/30/21 20:13	
Methyl tert-Butyl Ether	0.20 U	5.0	0.20	1	10/30/21 20:13	
Methylcyclohexane	**0.30 J**	10	0.20	1	10/30/21 20:13	
Styrene	0.20 U	5.0	0.20	1	10/30/21 20:13	
Tetrachloroethene (PCE)	0.21 U	5.0	0.21	1	10/30/21 20:13	
Toluene	**0.92 J**	5.0	0.20	1	10/30/21 20:13	

Client:	Day Environmental, Inc.	**Service Request:**	R2111358
Project:	Erie Harbor/4155R-09	**Date Collected:**	10/28/21 13:28
Sample Matrix:	Water	**Date Received:**	10/28/21 15:39
Sample Name:	163-DAYMW09A	**Units:**	ug/L
Lab Code:	R2111358-004	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	0.20 U	5.0	0.20	1	10/30/21 20:13	
Trichlorofluoromethane (CFC 11)	0.24 U	5.0	0.24	1	10/30/21 20:13	
Vinyl Chloride	0.20 U	5.0	0.20	1	10/30/21 20:13	
cis-1,2-Dichloroethene	0.23 U	5.0	0.23	1	10/30/21 20:13	
cis-1,3-Dichloropropene	0.20 U	5.0	0.20	1	10/30/21 20:13	
m,p-Xylenes	**0.59 J**	5.0	0.20	1	10/30/21 20:13	
o-Xylene	**1.0 J**	5.0	0.20	1	10/30/21 20:13	
trans-1,2-Dichloroethene	0.20 U	5.0	0.20	1	10/30/21 20:13	
trans-1,3-Dichloropropene	0.23 U	5.0	0.23	1	10/30/21 20:13	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	85 - 122	10/30/21 20:13	
Dibromofluoromethane	104	80 - 116	10/30/21 20:13	
Toluene-d8	110	87 - 121	10/30/21 20:13	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
000611-14-3	Benzene, 1-ethyl-2-methyl-	11.41	5.6	JN
000496-11-7	Indane	12.06	8.7	JN
000275-51-4	Azulene	13.63	13.6	JN
000067-63-0	Isopropyl Alcohol	2.53	22.9	JN

Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R2111358
Project:	Erie Harbor/4155R-09	**Date Collected:**	10/28/21 13:50
Sample Matrix:	Water	**Date Received:**	10/28/21 15:39
Sample Name:	164-DAYMW-10	**Units:**	ug/L
Lab Code:	R2111358-005	**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)	0.20 U	5.0	0.20	1	10/30/21 20:35	
1,1,2,2-Tetrachloroethane	0.20 U	5.0	0.20	1	10/30/21 20:35	
1,1,2-Trichloroethane	0.20 U	5.0	0.20	1	10/30/21 20:35	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20 U	5.0	0.20	1	10/30/21 20:35	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	10/30/21 20:35	
1,1-Dichloroethene (1,1-DCE)	0.20 U	5.0	0.20	1	10/30/21 20:35	
1,2,3-Trichlorobenzene	0.25 U	5.0	0.25	1	10/30/21 20:35	
1,2,4-Trichlorobenzene	0.34 U	5.0	0.34	1	10/30/21 20:35	
1,2-Dibromo-3-chloropropane (DBCP)	0.45 U	5.0	0.45	1	10/30/21 20:35	
1,2-Dibromoethane	0.20 U	5.0	0.20	1	10/30/21 20:35	
1,2-Dichlorobenzene	0.20 U	5.0	0.20	1	10/30/21 20:35	
1,2-Dichloroethane	0.20 U	5.0	0.20	1	10/30/21 20:35	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	10/30/21 20:35	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	10/30/21 20:35	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	10/30/21 20:35	
1,4-Dioxane	13 U	100	13	1	10/30/21 20:35	
2-Butanone (MEK)	**2.5 J**	10	0.78	1	10/30/21 20:35	
2-Hexanone	0.20 U	10	0.20	1	10/30/21 20:35	
4-Methyl-2-pentanone	**0.36 J**	10	0.20	1	10/30/21 20:35	
Acetone	**8.9 J**	10	5.0	1	10/30/21 20:35	
Benzene	0.20 U	5.0	0.20	1	10/30/21 20:35	
Bromochloromethane	0.20 U	5.0	0.20	1	10/30/21 20:35	
Bromodichloromethane	0.20 U	5.0	0.20	1	10/30/21 20:35	
Bromoform	0.25 U	5.0	0.25	1	10/30/21 20:35	
Bromomethane	0.70 U	5.0	0.70	1	10/30/21 20:35	
Carbon Disulfide	0.42 U	10	0.42	1	10/30/21 20:35	
Carbon Tetrachloride	0.34 U	5.0	0.34	1	10/30/21 20:35	
Chlorobenzene	0.20 U	5.0	0.20	1	10/30/21 20:35	
Chloroethane	0.23 U	5.0	0.23	1	10/30/21 20:35	
Chloroform	0.24 U	5.0	0.24	1	10/30/21 20:35	
Chloromethane	0.28 U	5.0	0.28	1	10/30/21 20:35	
Cyclohexane	0.26 U	10	0.26	1	10/30/21 20:35	
Dibromochloromethane	0.20 U	5.0	0.20	1	10/30/21 20:35	
Dichlorodifluoromethane (CFC 12)	**0.25 J**	5.0	0.21	1	10/30/21 20:35	
Dichloromethane	0.65 U	5.0	0.65	1	10/30/21 20:35	
Ethylbenzene	0.20 U	5.0	0.20	1	10/30/21 20:35	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	10/30/21 20:35	
Methyl Acetate	0.33 U	10	0.33	1	10/30/21 20:35	
Methyl tert-Butyl Ether	0.20 U	5.0	0.20	1	10/30/21 20:35	
Methylcyclohexane	0.20 U	10	0.20	1	10/30/21 20:35	
Styrene	0.20 U	5.0	0.20	1	10/30/21 20:35	
Tetrachloroethene (PCE)	0.21 U	5.0	0.21	1	10/30/21 20:35	
Toluene	0.20 U	5.0	0.20	1	10/30/21 20:35	

Client:	Day Environmental, Inc.	**Service Request:**	R2111358
Project:	Erie Harbor/4155R-09	**Date Collected:**	10/28/21 13:50
Sample Matrix:	Water	**Date Received:**	10/28/21 15:39
Sample Name:	164-DAYMW-10	**Units:**	ug/L
Lab Code:	R2111358-005	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	**8.8**	5.0	0.20	1	10/30/21 20:35	
Trichlorofluoromethane (CFC 11)	0.24 U	5.0	0.24	1	10/30/21 20:35	
Vinyl Chloride	0.20 U	5.0	0.20	1	10/30/21 20:35	
cis-1,2-Dichloroethene	0.23 U	5.0	0.23	1	10/30/21 20:35	
cis-1,3-Dichloropropene	0.20 U	5.0	0.20	1	10/30/21 20:35	
m,p-Xylenes	0.20 U	5.0	0.20	1	10/30/21 20:35	
o-Xylene	0.20 U	5.0	0.20	1	10/30/21 20:35	
trans-1,2-Dichloroethene	0.20 U	5.0	0.20	1	10/30/21 20:35	
trans-1,3-Dichloropropene	0.23 U	5.0	0.23	1	10/30/21 20:35	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	103	85 - 122	10/30/21 20:35	
Dibromofluoromethane	108	80 - 116	10/30/21 20:35	
Toluene-d8	111	87 - 121	10/30/21 20:35	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	No Tentatively Identified Compounds Detected			

Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R2111358
Project:	Erie Harbor/4155R-09	**Date Collected:**	10/28/21 13:45
Sample Matrix:	Water	**Date Received:**	10/28/21 15:39
Sample Name:	165-FB102821	**Units:**	ug/L
Lab Code:	R2111358-006	**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)	0.20 U	5.0	0.20	1	10/30/21 18:46	
1,1,2,2-Tetrachloroethane	0.20 U	5.0	0.20	1	10/30/21 18:46	
1,1,2-Trichloroethane	0.20 U	5.0	0.20	1	10/30/21 18:46	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20 U	5.0	0.20	1	10/30/21 18:46	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	10/30/21 18:46	
1,1-Dichloroethene (1,1-DCE)	0.20 U	5.0	0.20	1	10/30/21 18:46	
1,2,3-Trichlorobenzene	0.25 U	5.0	0.25	1	10/30/21 18:46	
1,2,4-Trichlorobenzene	0.34 U	5.0	0.34	1	10/30/21 18:46	
1,2-Dibromo-3-chloropropane (DBCP)	0.45 U	5.0	0.45	1	10/30/21 18:46	
1,2-Dibromoethane	0.20 U	5.0	0.20	1	10/30/21 18:46	
1,2-Dichlorobenzene	0.20 U	5.0	0.20	1	10/30/21 18:46	
1,2-Dichloroethane	0.20 U	5.0	0.20	1	10/30/21 18:46	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	10/30/21 18:46	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	10/30/21 18:46	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	10/30/21 18:46	
1,4-Dioxane	13 U	100	13	1	10/30/21 18:46	
2-Butanone (MEK)	**2.7 J**	10	0.78	1	10/30/21 18:46	
2-Hexanone	0.20 U	10	0.20	1	10/30/21 18:46	
4-Methyl-2-pentanone	**0.34 J**	10	0.20	1	10/30/21 18:46	
Acetone	**22**	10	5.0	1	10/30/21 18:46	
Benzene	0.20 U	5.0	0.20	1	10/30/21 18:46	
Bromochloromethane	0.20 U	5.0	0.20	1	10/30/21 18:46	
Bromodichloromethane	0.20 U	5.0	0.20	1	10/30/21 18:46	
Bromoform	0.25 U	5.0	0.25	1	10/30/21 18:46	
Bromomethane	0.70 U	5.0	0.70	1	10/30/21 18:46	
Carbon Disulfide	0.42 U	10	0.42	1	10/30/21 18:46	
Carbon Tetrachloride	0.34 U	5.0	0.34	1	10/30/21 18:46	
Chlorobenzene	0.20 U	5.0	0.20	1	10/30/21 18:46	
Chloroethane	0.23 U	5.0	0.23	1	10/30/21 18:46	
Chloroform	0.24 U	5.0	0.24	1	10/30/21 18:46	
Chloromethane	0.28 U	5.0	0.28	1	10/30/21 18:46	
Cyclohexane	0.26 U	10	0.26	1	10/30/21 18:46	
Dibromochloromethane	0.20 U	5.0	0.20	1	10/30/21 18:46	
Dichlorodifluoromethane (CFC 12)	0.21 U	5.0	0.21	1	10/30/21 18:46	
Dichloromethane	0.65 U	5.0	0.65	1	10/30/21 18:46	
Ethylbenzene	0.20 U	5.0	0.20	1	10/30/21 18:46	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	10/30/21 18:46	
Methyl Acetate	**0.35 J**	10	0.33	1	10/30/21 18:46	
Methyl tert-Butyl Ether	0.20 U	5.0	0.20	1	10/30/21 18:46	
Methylcyclohexane	0.20 U	10	0.20	1	10/30/21 18:46	
Styrene	0.20 U	5.0	0.20	1	10/30/21 18:46	
Tetrachloroethene (PCE)	0.21 U	5.0	0.21	1	10/30/21 18:46	
Toluene	**0.60 J**	5.0	0.20	1	10/30/21 18:46	

Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R2111358
Project:	Erie Harbor/4155R-09	**Date Collected:**	10/28/21 13:45
Sample Matrix:	Water	**Date Received:**	10/28/21 15:39
Sample Name:	165-FB102821	**Units:**	ug/L
Lab Code:	R2111358-006	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	0.20 U	5.0	0.20	1	10/30/21 18:46	
Trichlorofluoromethane (CFC 11)	0.24 U	5.0	0.24	1	10/30/21 18:46	
Vinyl Chloride	0.20 U	5.0	0.20	1	10/30/21 18:46	
cis-1,2-Dichloroethene	0.23 U	5.0	0.23	1	10/30/21 18:46	
cis-1,3-Dichloropropene	0.20 U	5.0	0.20	1	10/30/21 18:46	
m,p-Xylenes	0.20 U	5.0	0.20	1	10/30/21 18:46	
o-Xylene	0.20 U	5.0	0.20	1	10/30/21 18:46	
trans-1,2-Dichloroethene	0.20 U	5.0	0.20	1	10/30/21 18:46	
trans-1,3-Dichloropropene	0.23 U	5.0	0.23	1	10/30/21 18:46	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	104	85 - 122	10/30/21 18:46	
Dibromofluoromethane	107	80 - 116	10/30/21 18:46	
Toluene-d8	113	87 - 121	10/30/21 18:46	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	No Tentatively Identified Compounds Detected			

Client:	Day Environmental, Inc.	**Service Request:**	R2111358
Project:	Erie Harbor/4155R-09	**Date Collected:**	10/28/21
Sample Matrix:	Water	**Date Received:**	10/28/21 15:39
Sample Name:	166-TB102821	**Units:**	ug/L
Lab Code:	R2111358-007	**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)	0.20 U	5.0	0.20	1	10/30/21 19:08	
1,1,2,2-Tetrachloroethane	0.20 U	5.0	0.20	1	10/30/21 19:08	
1,1,2-Trichloroethane	0.20 U	5.0	0.20	1	10/30/21 19:08	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20 U	5.0	0.20	1	10/30/21 19:08	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	10/30/21 19:08	
1,1-Dichloroethene (1,1-DCE)	0.20 U	5.0	0.20	1	10/30/21 19:08	
1,2,3-Trichlorobenzene	0.25 U	5.0	0.25	1	10/30/21 19:08	
1,2,4-Trichlorobenzene	0.34 U	5.0	0.34	1	10/30/21 19:08	
1,2-Dibromo-3-chloropropane (DBCP)	0.45 U	5.0	0.45	1	10/30/21 19:08	
1,2-Dibromoethane	0.20 U	5.0	0.20	1	10/30/21 19:08	
1,2-Dichlorobenzene	0.20 U	5.0	0.20	1	10/30/21 19:08	
1,2-Dichloroethane	0.20 U	5.0	0.20	1	10/30/21 19:08	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	10/30/21 19:08	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	10/30/21 19:08	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	10/30/21 19:08	
1,4-Dioxane	13 U	100	13	1	10/30/21 19:08	
2-Butanone (MEK)	0.78 U	10	0.78	1	10/30/21 19:08	
2-Hexanone	0.20 U	10	0.20	1	10/30/21 19:08	
4-Methyl-2-pentanone	0.20 U	10	0.20	1	10/30/21 19:08	
Acetone	5.0 U	10	5.0	1	10/30/21 19:08	
Benzene	0.20 U	5.0	0.20	1	10/30/21 19:08	
Bromochloromethane	0.20 U	5.0	0.20	1	10/30/21 19:08	
Bromodichloromethane	0.20 U	5.0	0.20	1	10/30/21 19:08	
Bromoform	0.25 U	5.0	0.25	1	10/30/21 19:08	
Bromomethane	0.70 U	5.0	0.70	1	10/30/21 19:08	
Carbon Disulfide	0.42 U	10	0.42	1	10/30/21 19:08	
Carbon Tetrachloride	0.34 U	5.0	0.34	1	10/30/21 19:08	
Chlorobenzene	0.20 U	5.0	0.20	1	10/30/21 19:08	
Chloroethane	0.23 U	5.0	0.23	1	10/30/21 19:08	
Chloroform	0.24 U	5.0	0.24	1	10/30/21 19:08	
Chloromethane	0.28 U	5.0	0.28	1	10/30/21 19:08	
Cyclohexane	0.26 U	10	0.26	1	10/30/21 19:08	
Dibromochloromethane	0.20 U	5.0	0.20	1	10/30/21 19:08	
Dichlorodifluoromethane (CFC 12)	0.21 U	5.0	0.21	1	10/30/21 19:08	
Dichloromethane	0.65 U	5.0	0.65	1	10/30/21 19:08	
Ethylbenzene	0.20 U	5.0	0.20	1	10/30/21 19:08	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	10/30/21 19:08	
Methyl Acetate	0.33 U	10	0.33	1	10/30/21 19:08	
Methyl tert-Butyl Ether	0.20 U	5.0	0.20	1	10/30/21 19:08	
Methylcyclohexane	0.20 U	10	0.20	1	10/30/21 19:08	
Styrene	0.20 U	5.0	0.20	1	10/30/21 19:08	
Tetrachloroethene (PCE)	0.21 U	5.0	0.21	1	10/30/21 19:08	
Toluene	0.20 U	5.0	0.20	1	10/30/21 19:08	

Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R2111358
Project:	Erie Harbor/4155R-09	**Date Collected:**	10/28/21
Sample Matrix:	Water	**Date Received:**	10/28/21 15:39
Sample Name:	166-TB102821	**Units:**	ug/L
Lab Code:	R2111358-007	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	0.20 U	5.0	0.20	1	10/30/21 19:08	
Trichlorofluoromethane (CFC 11)	0.24 U	5.0	0.24	1	10/30/21 19:08	
Vinyl Chloride	0.20 U	5.0	0.20	1	10/30/21 19:08	
cis-1,2-Dichloroethene	0.23 U	5.0	0.23	1	10/30/21 19:08	
cis-1,3-Dichloropropene	0.20 U	5.0	0.20	1	10/30/21 19:08	
m,p-Xylenes	0.20 U	5.0	0.20	1	10/30/21 19:08	
o-Xylene	0.20 U	5.0	0.20	1	10/30/21 19:08	
trans-1,2-Dichloroethene	0.20 U	5.0	0.20	1	10/30/21 19:08	
trans-1,3-Dichloropropene	0.23 U	5.0	0.23	1	10/30/21 19:08	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	103	85 - 122	10/30/21 19:08	
Dibromofluoromethane	107	80 - 116	10/30/21 19:08	
Toluene-d8	112	87 - 121	10/30/21 19:08	

Tentatively Identified Compounds

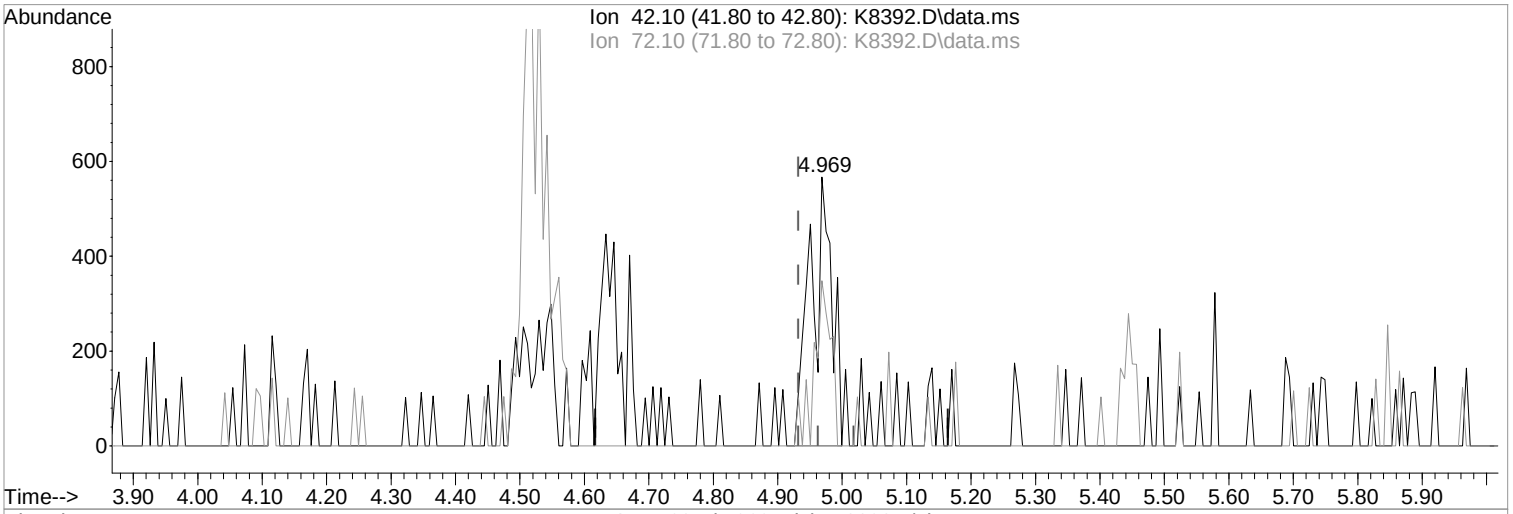
CAS#	Compound Identification	RT	Result ug/L	Q
	No Tentatively Identified Compounds Detected			

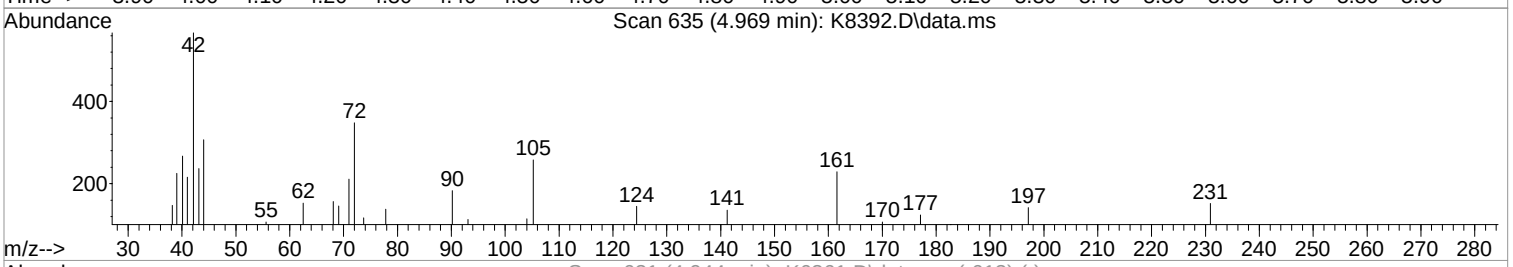
1st 11/02/21
2nd 11/02/21

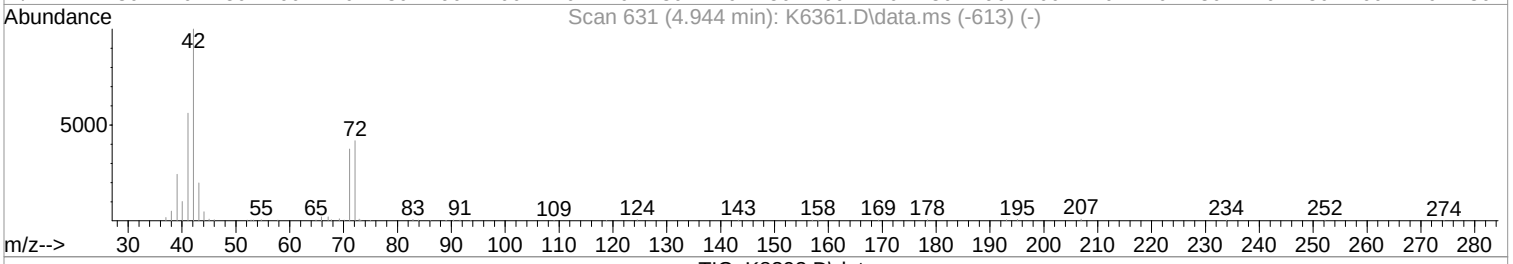
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\103021\
Data File : K8392.D
Acq On : 30 Oct 2021 7:30 pm
Operator : K.Ruest
Sample : R2111358-001|1.0 Inst : MSVOA-12
Misc : DAY 8260 T4
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Nov 01 11:11:34 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration







TIC: K8392.D\data.ms

(39) Tetrahydrofuran

4.969min (+0.037) 0.63 ppb m

response 1295

Ion	Exp%	Act%
42.10	100	100
72.10	41.80	61.38
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

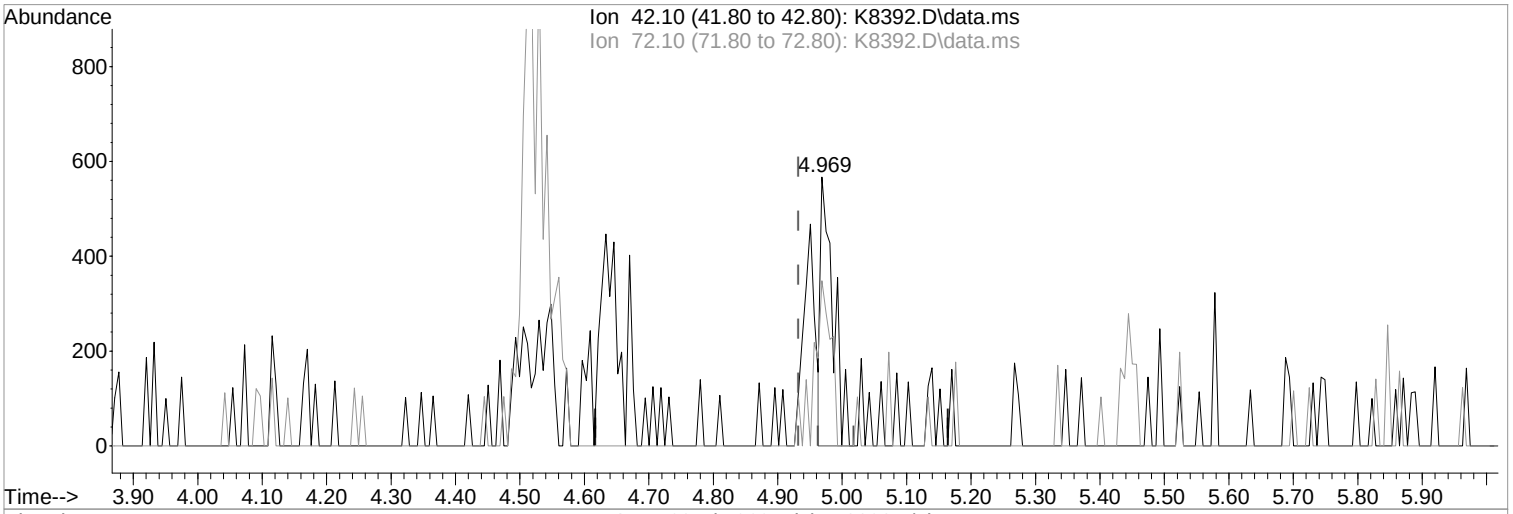
Split Peak

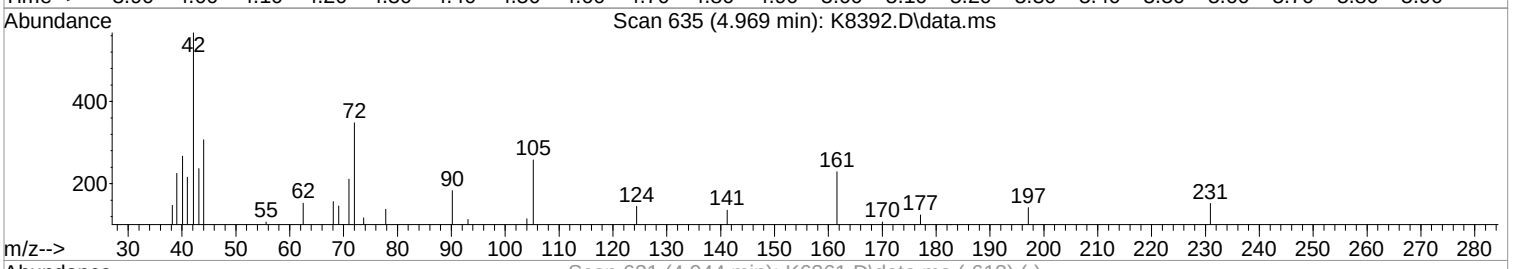
11/02/21

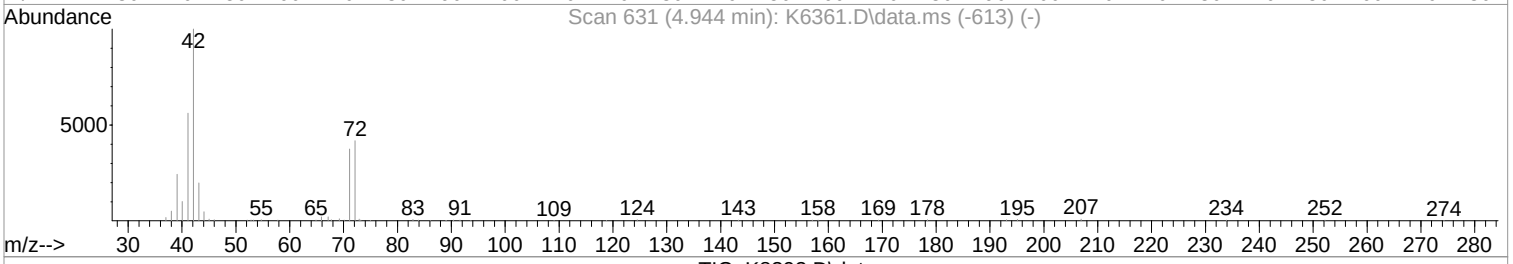
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\103021\
Data File : K8392.D
Acq On : 30 Oct 2021 7:30 pm
Operator : K.Ruest
Sample : R2111358-001|1.0 Inst : MSVOA-12
Misc : DAY 8260 T4
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Nov 01 11:11:34 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration







TIC: K8392.D\data.ms

(39) Tetrahydrofuran

4.969min (+0.037) 0.37 ppb

response 774

Ion	Exp%	Act%
42.10	100	100
72.10	41.80	61.38
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

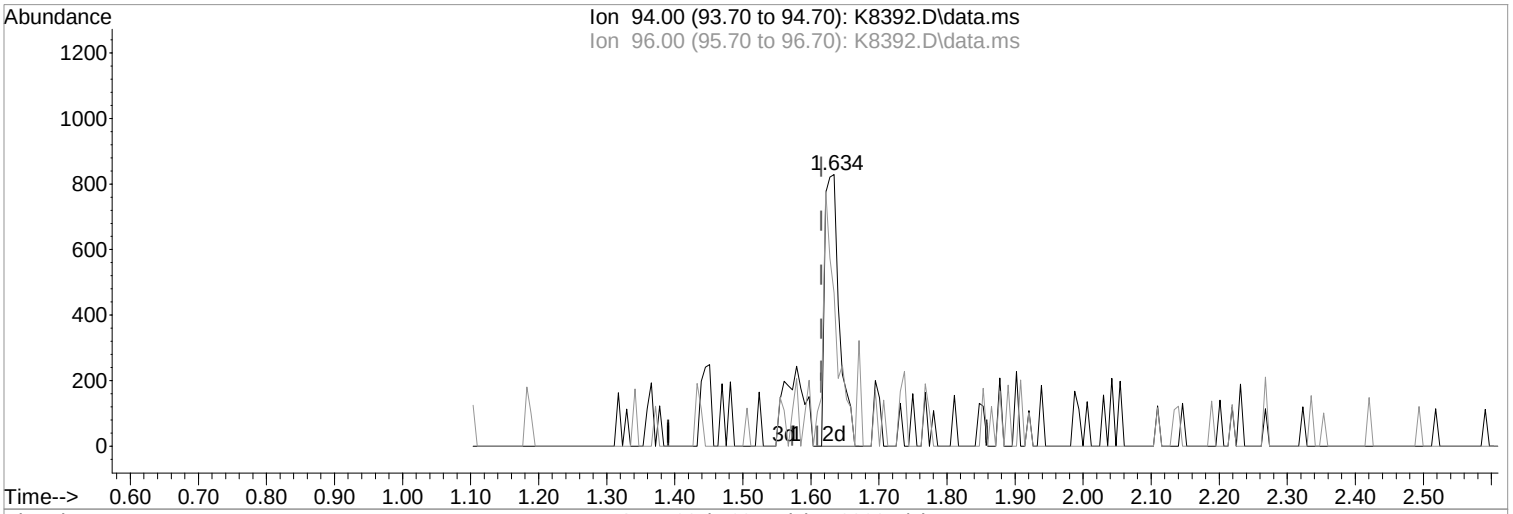
11/02/21

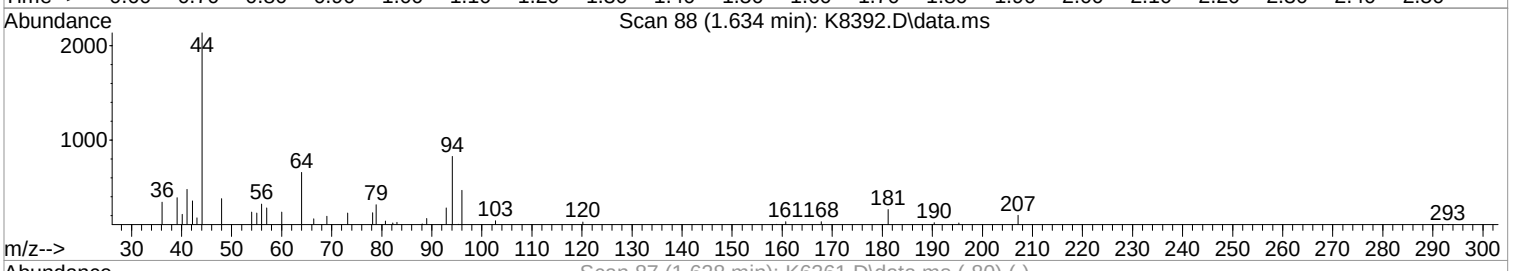
1st 11/02/21
2nd 11/02/21

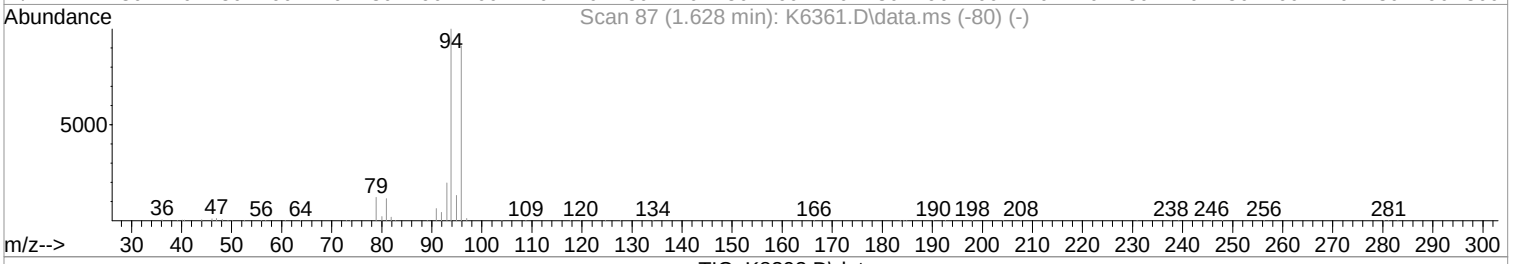
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\103021\
Data File : K8392.D
Acq On : 30 Oct 2021 7:30 pm
Operator : K.Ruest
Sample : R2111358-001|1.0 Inst : MSVOA-12
Misc : DAY 8260 T4
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Nov 01 11:11:34 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration







TIC: K8392.D\data.ms

(5) Bromomethane (P)

1.634min (+0.018) 0.39 ppb m

response 1229

Ion	Exp%	Act%
94.00	100	100
96.00	91.00	56.45#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Peak not found.

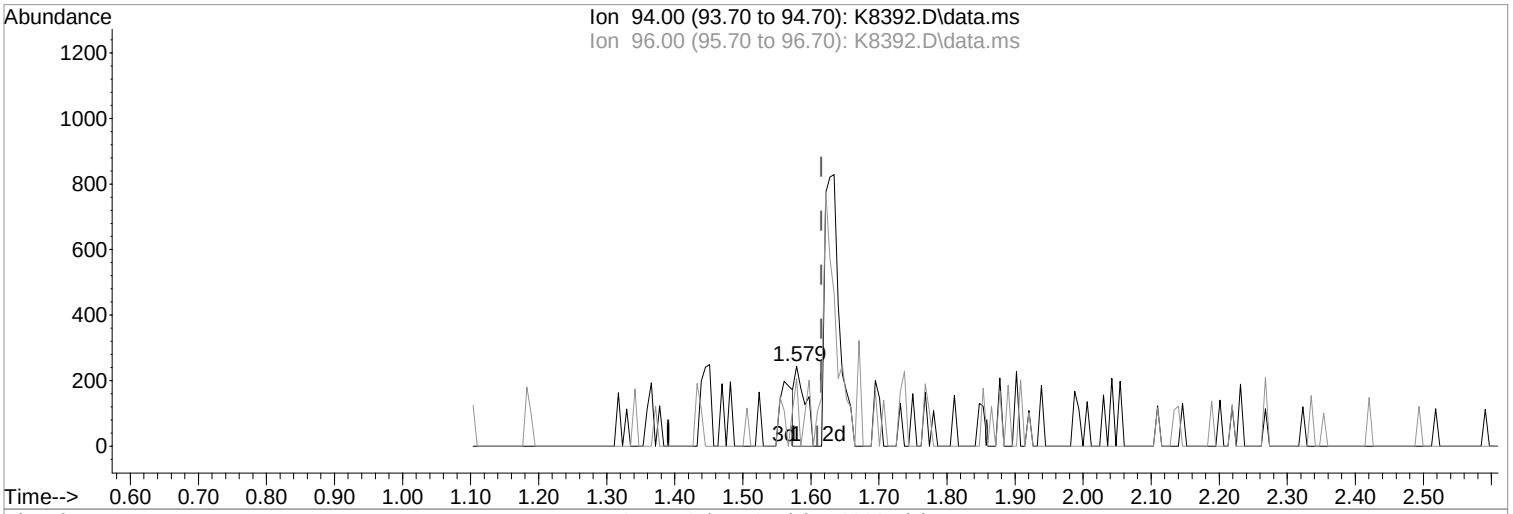
11/02/21

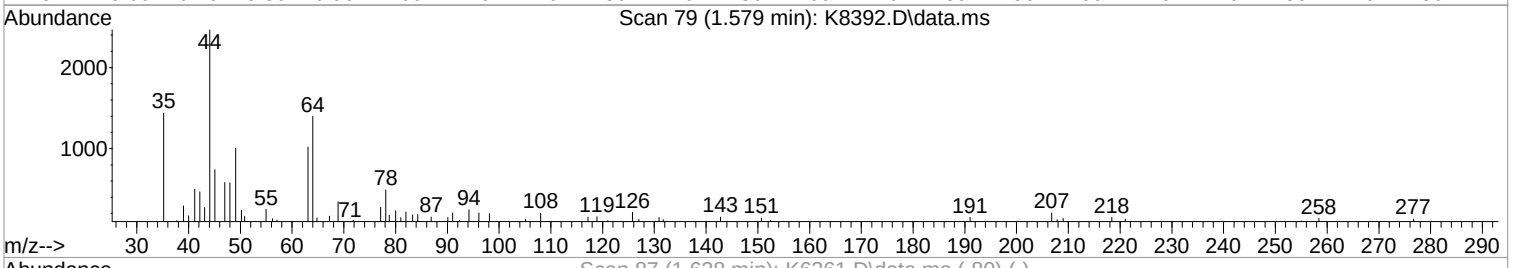
1st 11/02/21
2nd 11/02/21

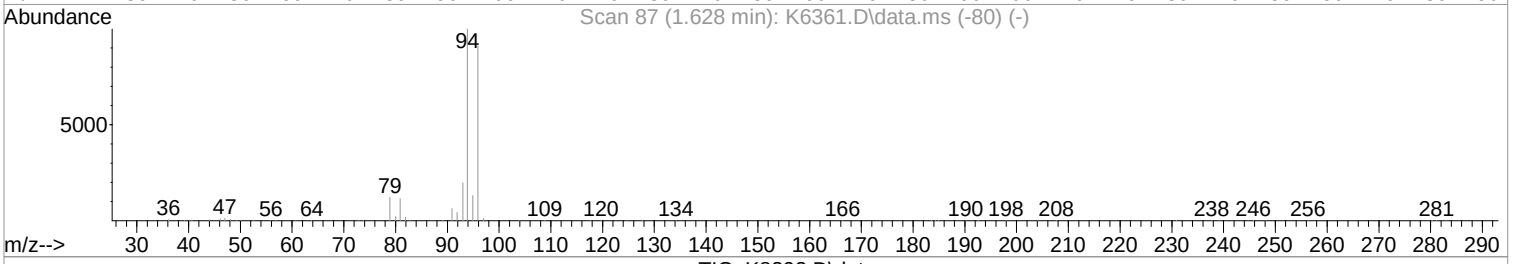
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\103021\
Data File : K8392.D
Acq On : 30 Oct 2021 7:30 pm
Operator : K.Ruest
Sample : R2111358-001|1.0 Inst : MSVOA-12
Misc : DAY 8260 T4
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Nov 01 11:11:34 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration







TIC: K8392.D\data.ms

(5) Bromomethane (P)

1.579min (-0.036) 0.08 ppb

response 255

Ion	Exp%	Act%
94.00	100	100
96.00	91.00	84.43
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

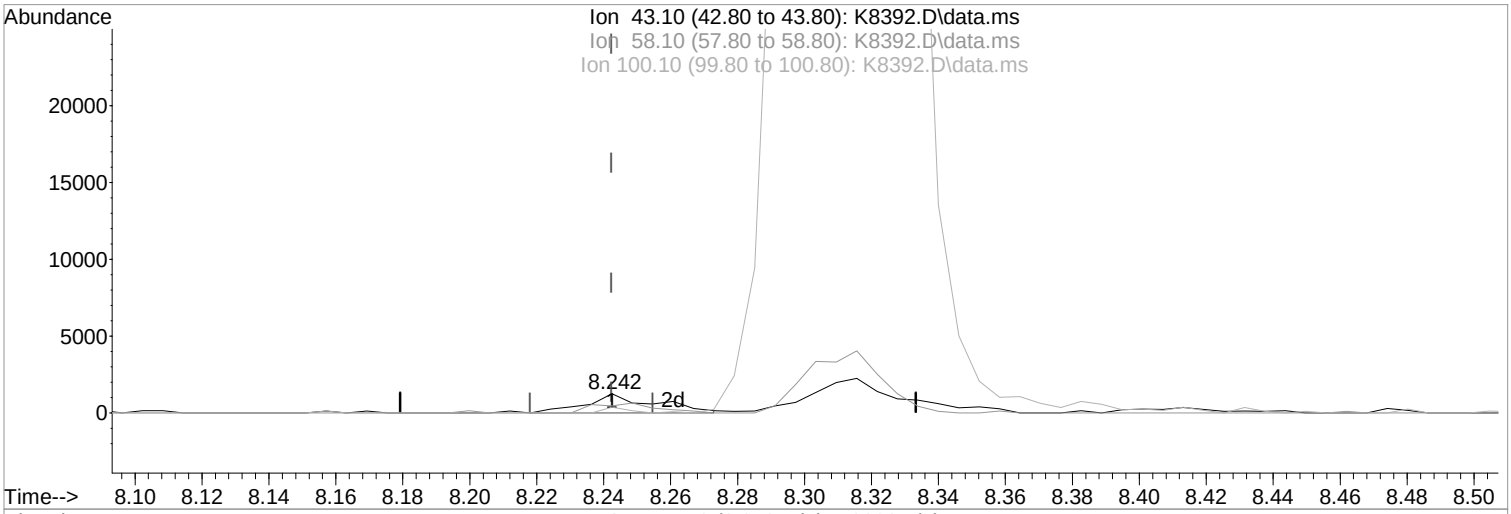
Before

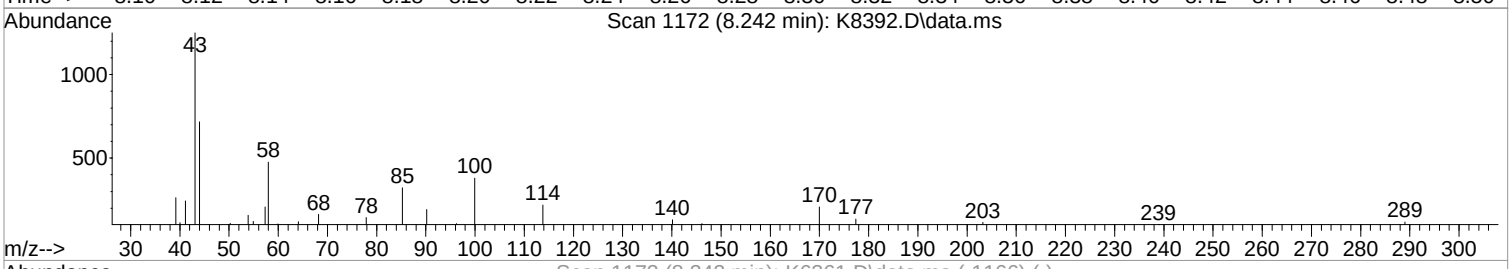
11/02/21

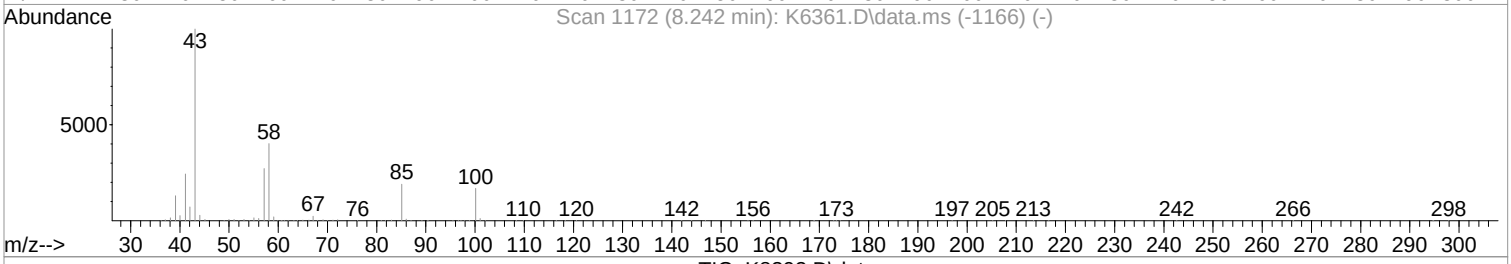
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\103021\
Data File : K8392.D
Acq On : 30 Oct 2021 7:30 pm
Operator : K.Ruest
Sample : R2111358-001|1.0 Inst : MSVOA-12
Misc : DAY 8260 T4
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Nov 01 11:11:34 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration







TIC: K8392.D\data.ms

(64) 4-Methyl-2-pentanone (P)

8.242min (+0.000) 0.32 ppb m

response 1803

Ion	Exp%	Act%
43.10	100	100
58.10	40.20	38.00
100.10	16.80	30.40
0.00	0.00	0.00

Manual Integration:

After

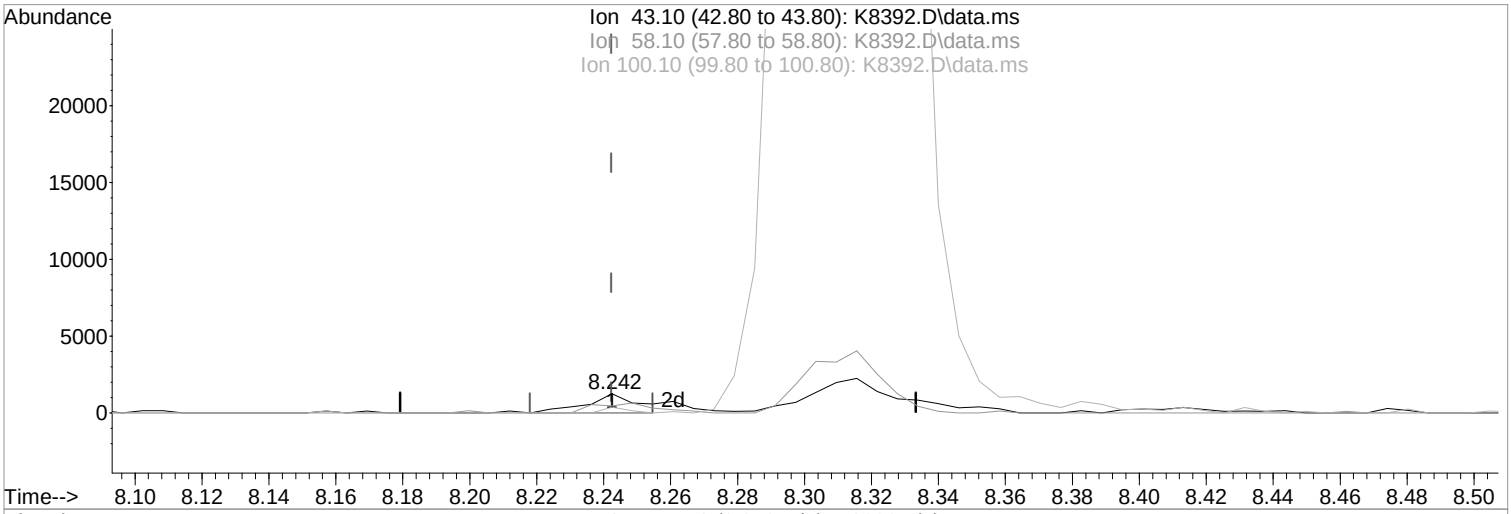
Poor integration.

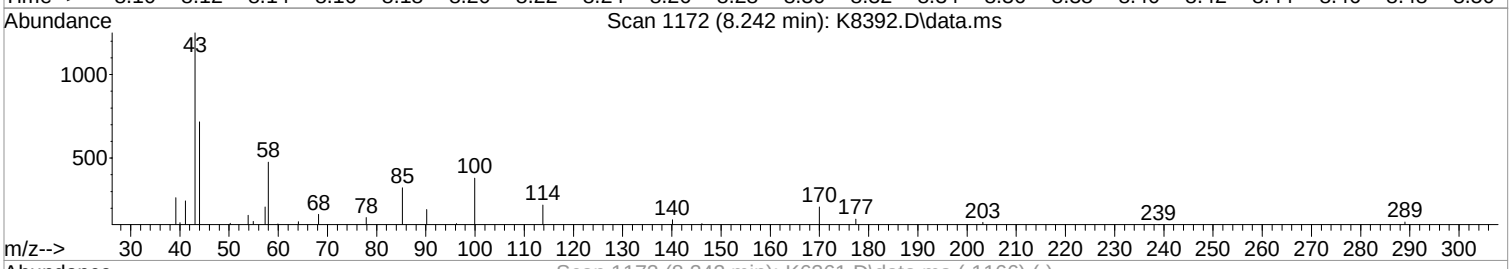
11/02/21

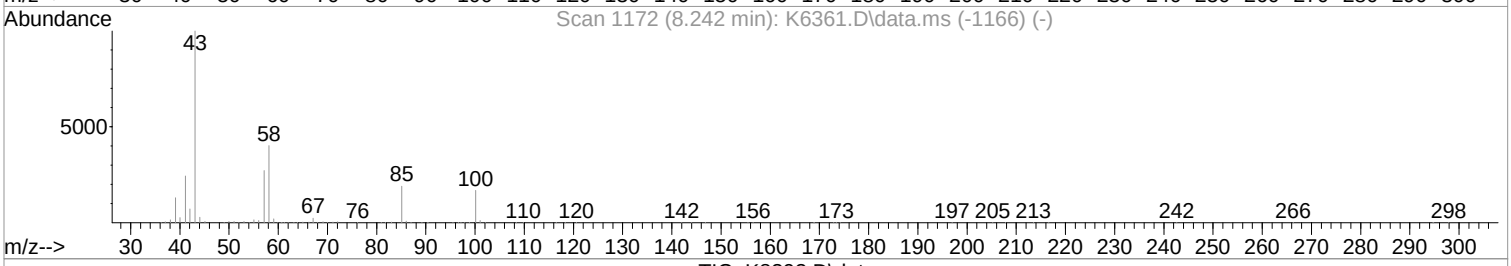
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\103021\
Data File : K8392.D
Acq On : 30 Oct 2021 7:30 pm
Operator : K.Ruest
Sample : R2111358-001|1.0 Inst : MSVOA-12
Misc : DAY 8260 T4
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Nov 01 11:11:34 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration







TIC: K8392.D\data.ms

(64) 4-Methyl-2-pentanone (P)

8.242min (+0.000) 0.24 ppb

response 1363

Ion	Exp%	Act%
43.10	100	100
58.10	40.20	38.00
100.10	16.80	30.40
0.00	0.00	0.00

Manual Integration:

Before

11/02/21

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\103021\
Data File : K8392.D
Acq On : 30 Oct 2021 7:30 pm
Operator : K.Ruest
Sample : R2111358-001|1.0 Inst : MSVOA-12
Misc : DAY 8260 T4
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Nov 04 10:09:52 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration

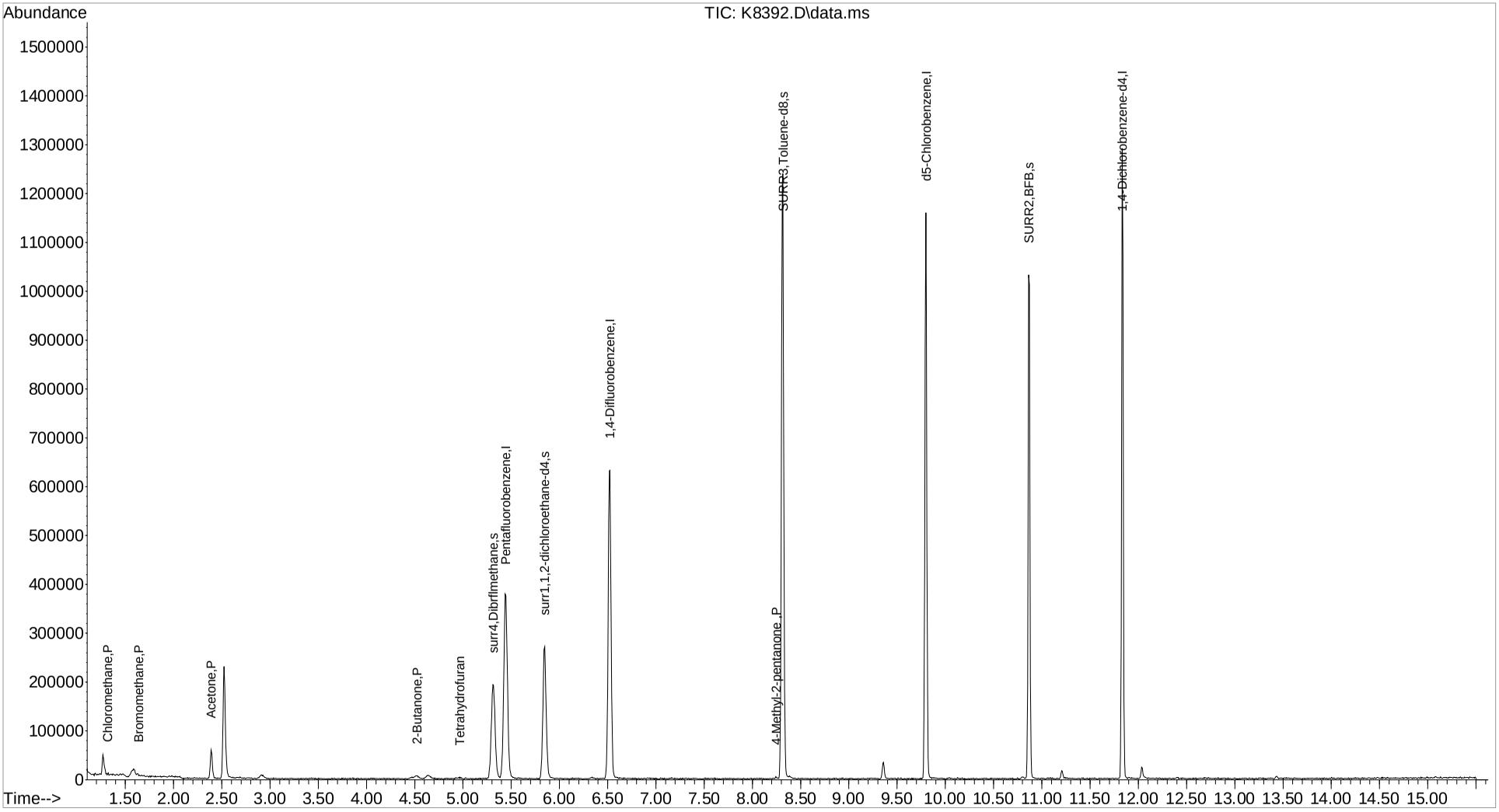
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.444	168	358367	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.523	114	581958	50.00	ppb	0.00
71) d5-Chlorobenzene	9.797	117	515597	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	11.833	152	246650	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.310	113	165645	52.29	ppb	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 104.58%			
48) surr1,1,2-dichloroetha...	5.847	65	225396	48.93	ppb	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 97.86%			
65) SURR3,Toluene-d8	8.316	98	809125	54.33	ppb	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 108.66%			
70) SURR2,BFB	10.864	95	299047	50.59	ppb	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 101.18%			
Target Compounds						Qvalue
3) Chloromethane	1.317	50	970	0.23	ppb	98
5) Bromomethane	1.634	94	1229m	0.39	ppb	
15) Acetone	2.390	43	51859	23.83	ppb	87
35) 2-Butanone	4.524	43	8864	2.86	ppb	91
39) Tetrahydrofuran	4.969	42	1295m	0.63	ppb	
64) 4-Methyl-2-pentanone	8.242	43	1803m	0.32	ppb	

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

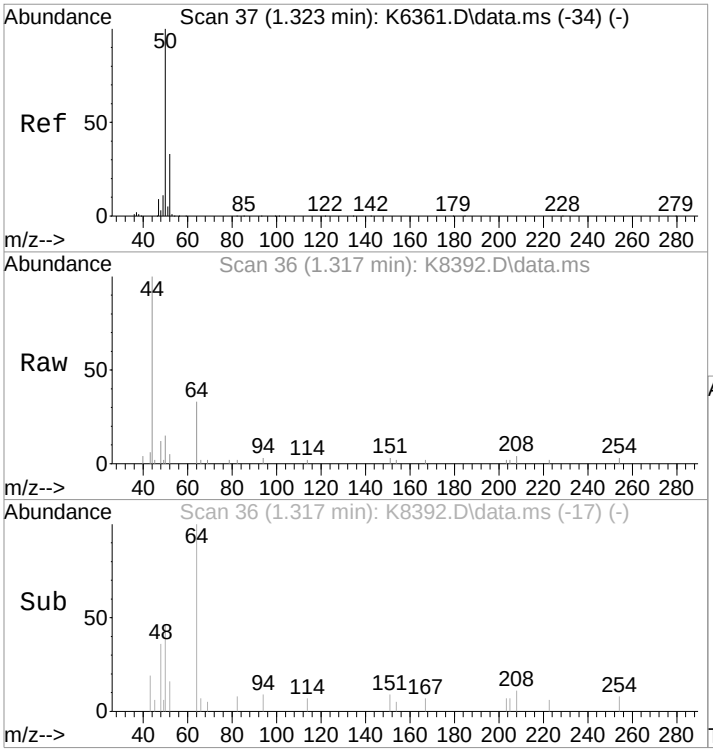
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\103021\
Data File : K8392.D
Acq On : 30 Oct 2021 7:30 pm
Operator : K.Ruest
Sample : R2111358-001|1.0 Inst : MSVOA-12
Misc : DAY 8260 T4
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Nov 04 10:09:52 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration



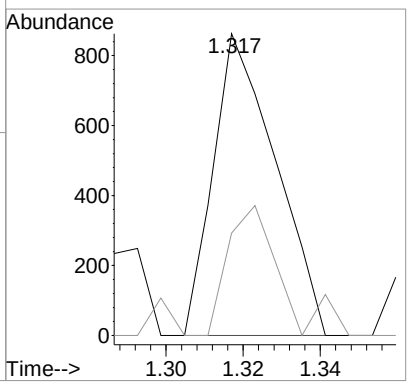
1st 11/02/21
2nd 11/02/21

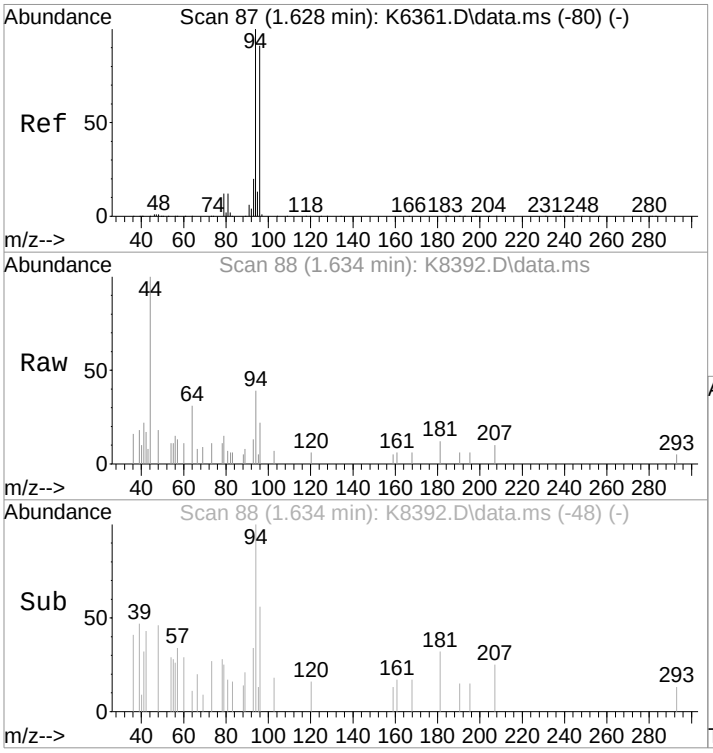


#3
Chloromethane
Concen: 0.23 ppb
RT: 1.317 min Scan# 36
Delta R.T. 0.000 min
Lab File: K8392.D
Acq: 30 Oct 2021 7:30 pm

Tgt Ion: 50 Resp: 970

Ion	Ratio	Lower	Upper
50	100		
52	34.0	12.7	52.7

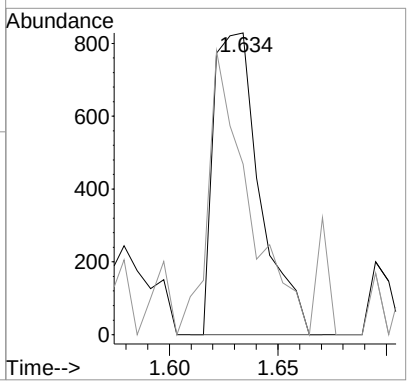


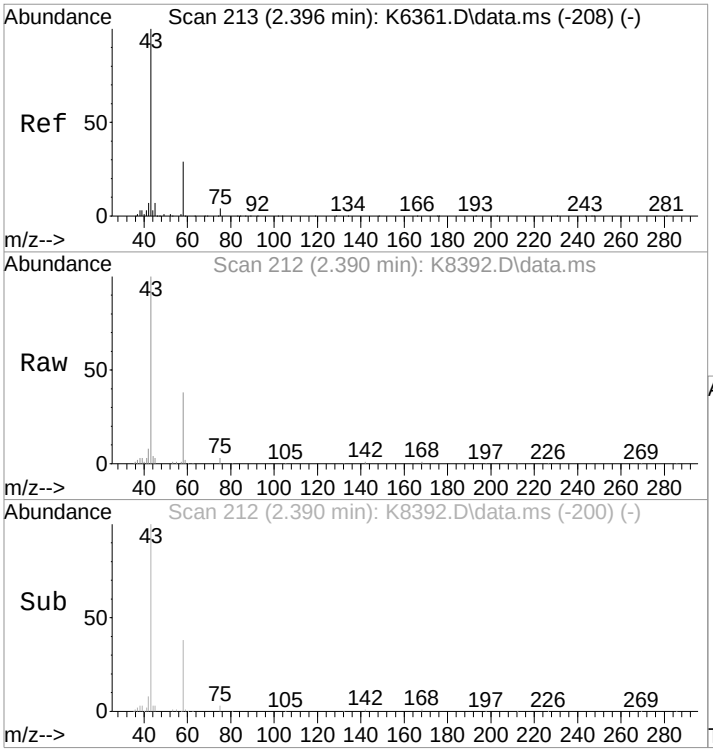


#5
Bromomethane
Concen: 0.39 ppb m
RT: 1.634 min Scan# 88
Delta R.T. 0.018 min
Lab File: K8392.D
Acq: 30 Oct 2021 7:30 pm

Tgt Ion: 94 Resp: 1229

Ion	Ratio	Lower	Upper
94	100		
96	56.5	71.0	111.0#

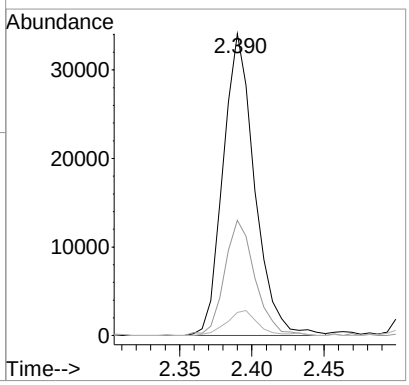


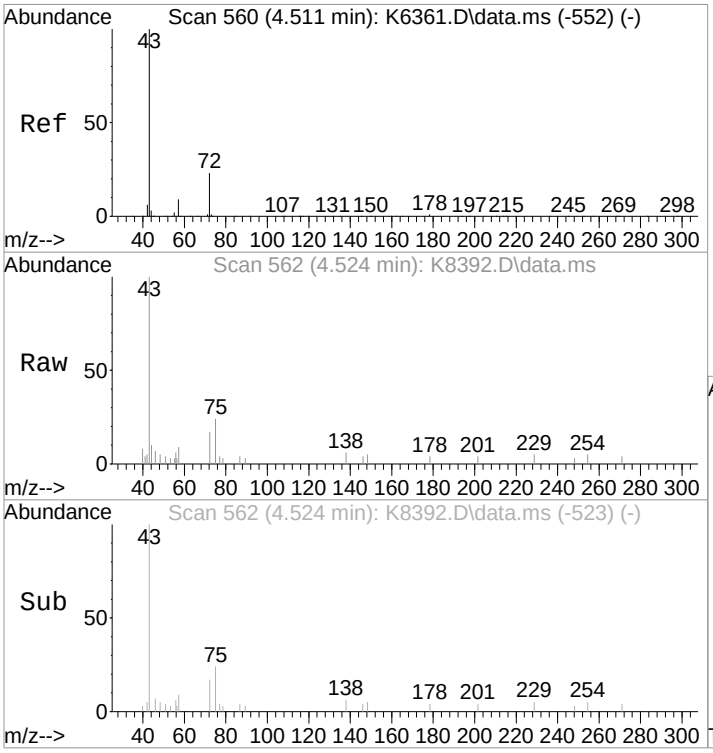


#15
Acetone
Concen: 23.83 ppb
RT: 2.390 min Scan# 212
Delta R.T. 0.001 min
Lab File: K8392.D
Acq: 30 Oct 2021 7:30 pm

Tgt Ion: 43 Resp: 51859

Ion	Ratio	Lower	Upper
43	100		
58	38.2	9.6	49.6
42	7.6	0.0	27.7

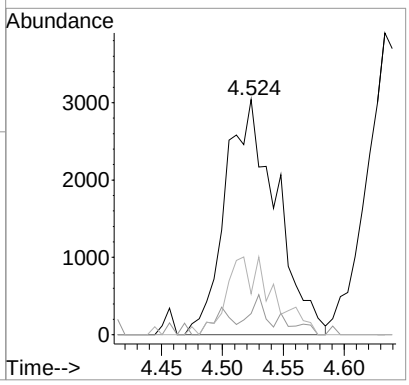


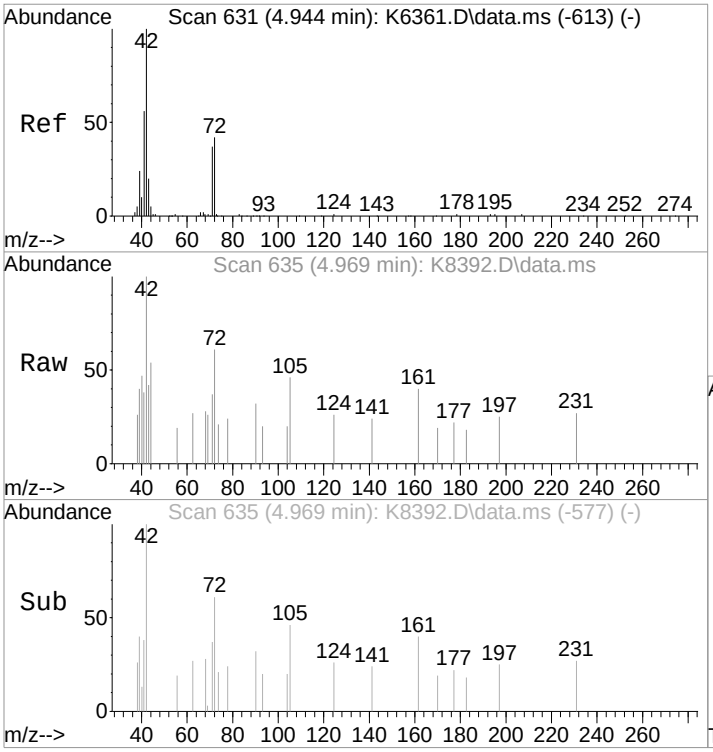


#35
2-Butanone
Concen: 2.86 ppb
RT: 4.524 min Scan# 562
Delta R.T. 0.012 min
Lab File: K8392.D
Acq: 30 Oct 2021 7:30 pm

Tgt Ion: 43 Resp: 8864

Ion	Ratio	Lower	Upper
43	100		
57	8.9	0.0	28.6
72	17.5	3.4	43.4

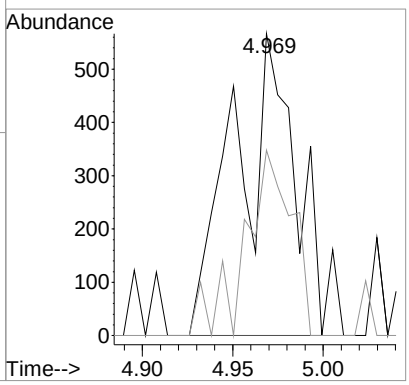


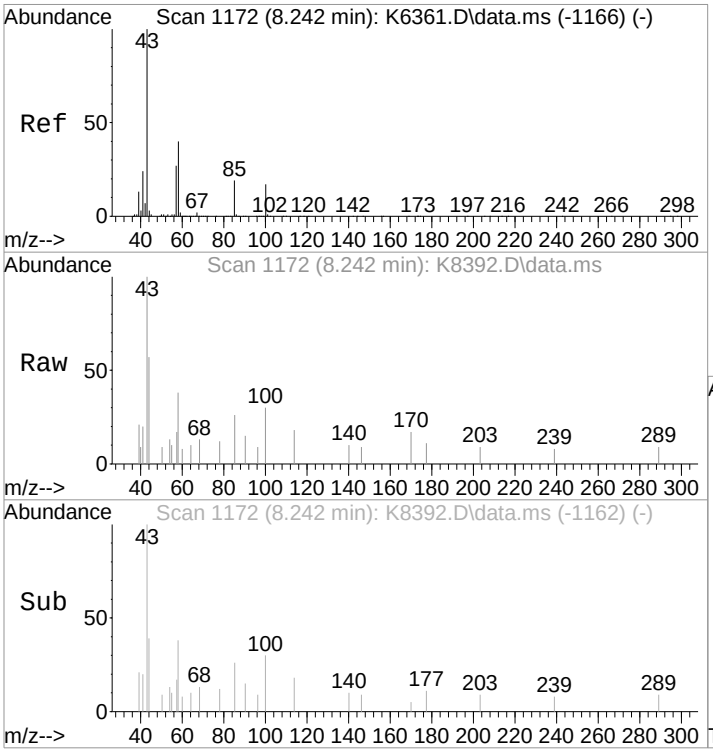


#39
Tetrahydrofuran
Concen: 0.63 ppb m
RT: 4.969 min Scan# 635
Delta R.T. 0.037 min
Lab File: K8392.D
Acq: 30 Oct 2021 7:30 pm

Tgt Ion: 42 Resp: 1295

Ion	Ratio	Lower	Upper
42	100		
72	61.4	21.8	61.8

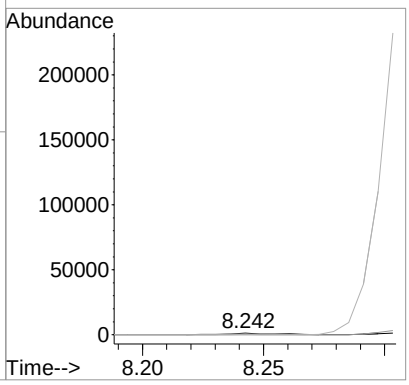




#64
4-Methyl-2-pentanone
Concen: 0.32 ppb m
RT: 8.242 min Scan# 1172
Delta R.T. 0.000 min
Lab File: K8392.D
Acq: 30 Oct 2021 7:30 pm

Tgt Ion: 43 Resp: 1803

Ion	Ratio	Lower	Upper
43	100		
58	38.0	20.2	60.2
100	30.4	0.0	36.8



LSC Area Percent Report

Data Path : I:\ACQUDATA\msvoa12\Data\103021\
Data File : K8392.D
Acq On : 30 Oct 2021 7:30 pm
Operator : K.Ruest
Sample : R2111358-001|1.0 Inst : MSVOA-12
Misc : DAY 8260 T4
ALS Vial : 19 Sample Multiplier: 1

Integration Parameters: INTP90.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 500 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0.1 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Title : MS#12 - 8260B WATERS 10mL Purge

Signal : TIC: K8392.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.268	25	28	35	rVB2	40877	58803	2.85%	0.547%
2	1.585	71	80	85	rBV8	16213	46441	2.25%	0.432%
3	2.390	205	212	218	rBV	58499	89807	4.35%	0.835%
4	2.524	228	234	248	rBV	229493	397297	19.23%	3.693%
5	2.914	288	298	304	rBV2	8272	25105	1.22%	0.233%
6	4.639	574	581	588	rBV4	6948	20855	1.01%	0.194%
7	5.310	680	691	703	rBV	192590	534460	25.88%	4.968%
8	5.438	703	712	725	rVV	376269	997945	48.31%	9.276%
9	5.847	770	779	790	rBV2	270407	639270	30.95%	5.942%
10	6.523	881	890	899	rBV	630946	1303398	63.10%	12.115%
11	8.316	1177	1184	1194	rBV	1237987	2065512	100.00%	19.199%
12	9.358	1348	1355	1361	rBV	33861	54027	2.62%	0.502%
13	9.797	1421	1427	1437	rVB	1158892	1568147	75.92%	14.576%
14	10.864	1597	1602	1612	rBV	1030466	1350837	65.40%	12.556%
15	11.205	1654	1658	1662	rBV3	16545	23893	1.16%	0.222%
16	11.833	1756	1761	1770	rVB	1290154	1546799	74.89%	14.377%
17	12.034	1789	1794	1804	rBV	23515	36076	1.75%	0.335%

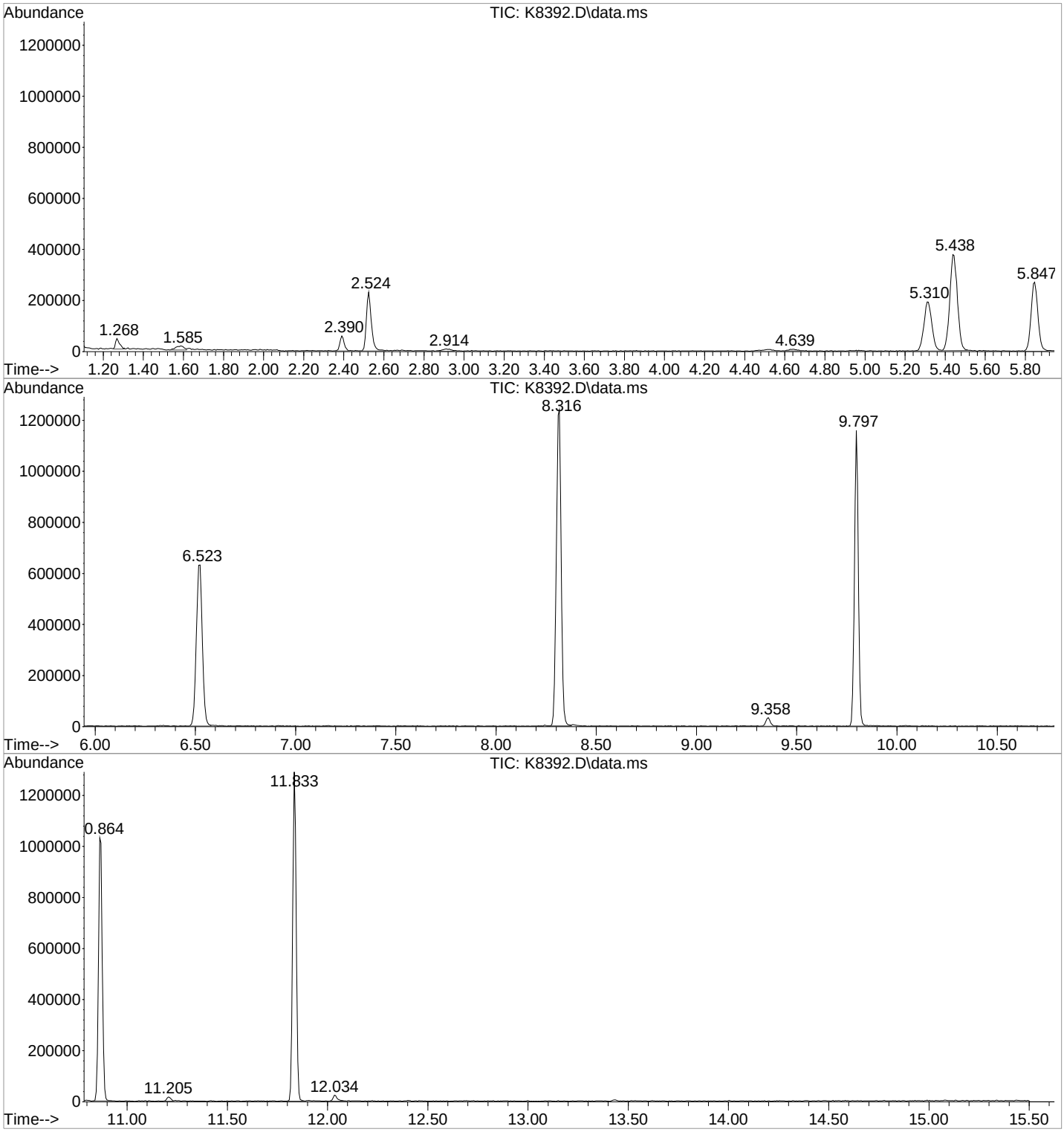
Sum of corrected areas: 10758672

LSC Report - Integrated Chromatogram

Data Path : I:\ACQUDATA\msvoa12\Data\103021\
Data File : K8392.D
Acq On : 30 Oct 2021 7:30 pm
Operator : K.Ruest
Sample : R2111358-001|1.0 Inst : MSVOA-12
Misc : DAY 8260 T4
ALS Vial : 19 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa12\Data\103021\
Data File : K8392.D
Acq On : 30 Oct 2021 7:30 pm
Operator : K.Ruest
Sample : R2111358-001|1.0 Inst : MSVOA-12
Misc : DAY 8260 T4
ALS Vial : 19 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge

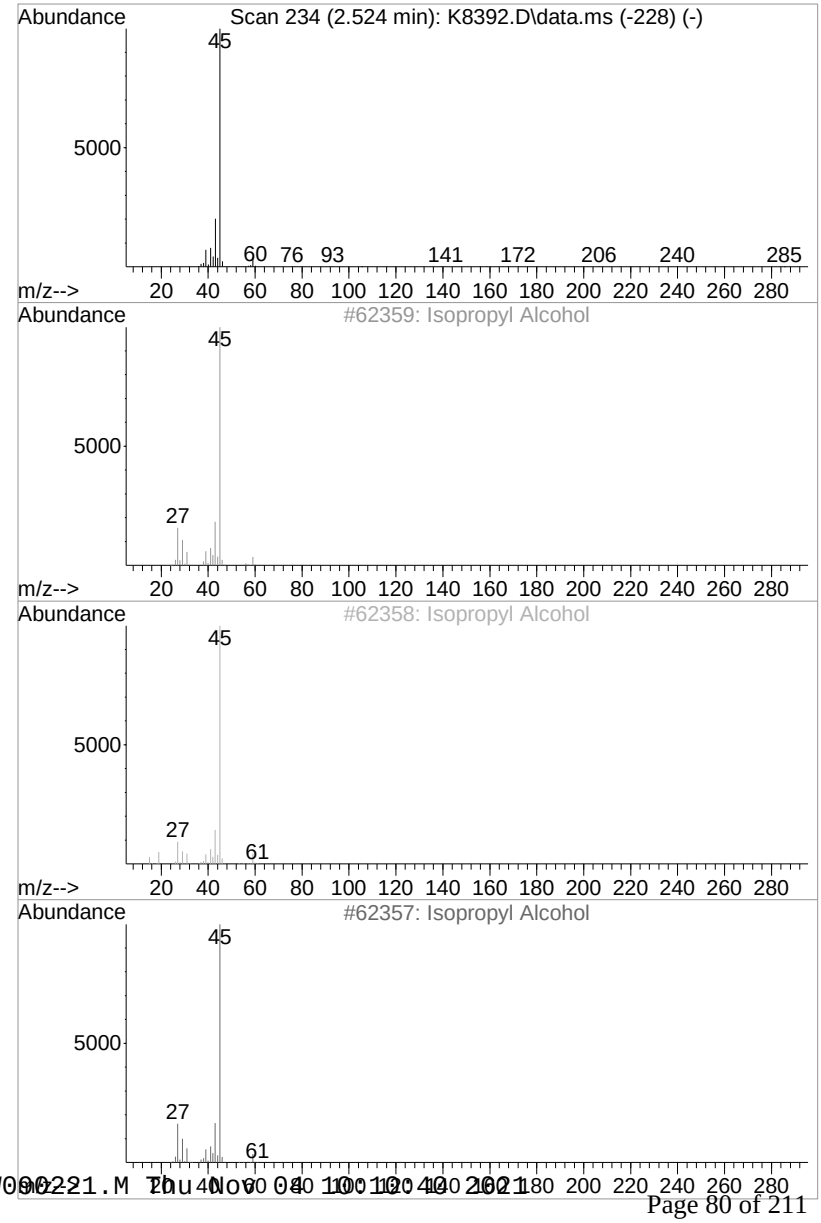
TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P

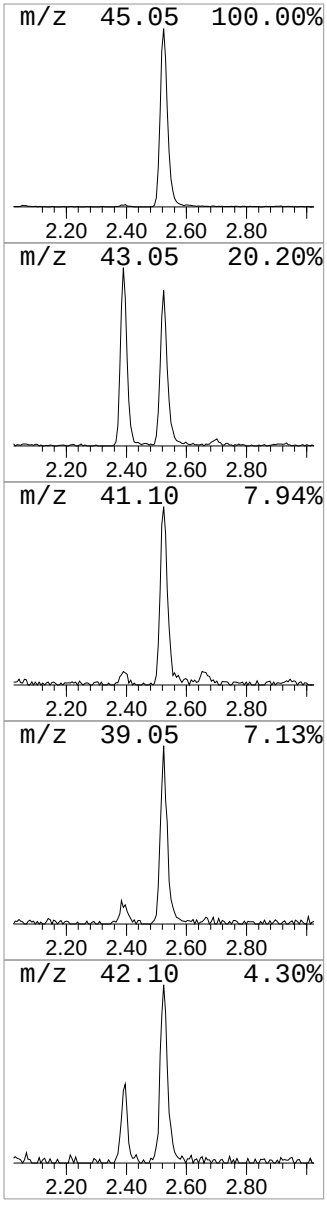
****

Peak Number 1 Isopropyl Alcohol Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.524	19.91 ppb	397297	Pentafluorobenzene	5.444

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Isopropyl Alcohol	60	C3H8O	000067-63-0	86
2	Isopropyl Alcohol	60	C3H8O	000067-63-0	78
3	Isopropyl Alcohol	60	C3H8O	000067-63-0	64
4	Isopropyl Alcohol	60	C3H8O	000067-63-0	64
5	2,3-Butanediol	90	C4H10O2	000513-85-9	4





1st 11/04/21
2nd 11/04/21

Tentatively Identified Compound (LSC) summary

Data Path : I:\ACQUDATA\msvoa12\Data\103021\
Data File : K8392.D
Acq On : 30 Oct 2021 7:30 pm
Operator : K.Ruest
Sample : R2111358-001|1.0 Inst : MSVOA-12
Misc : DAY 8260 T4
ALS Vial : 19 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P

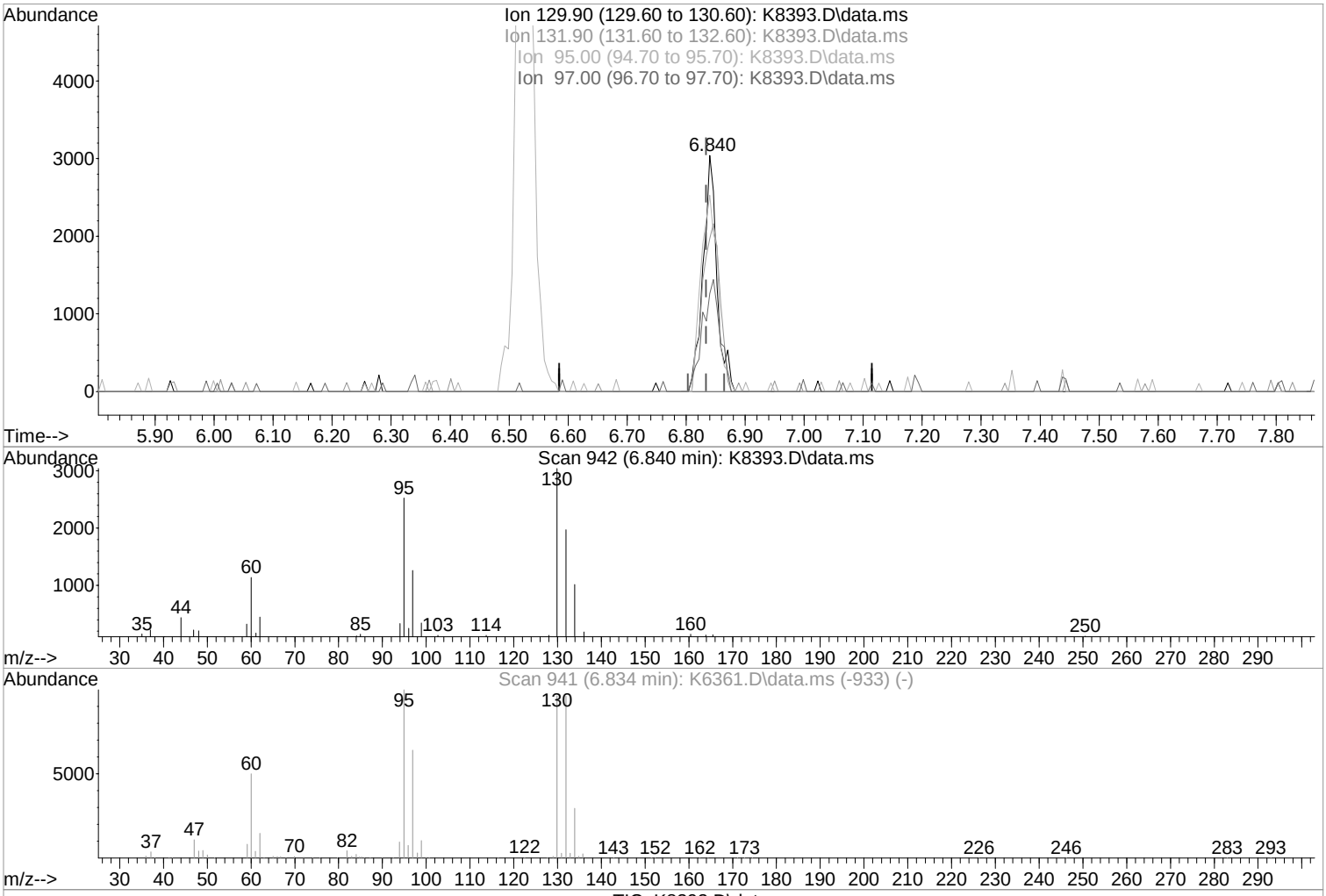
					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Isopropyl Alcohol	2.524	19.9	ppb	397297	1	5.444	997945	50.0

1st 11/02/21
2nd 11/02/21

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\103021\
Data File : K8393.D
Acq On : 30 Oct 2021 7:51 pm
Operator : K.Ruest
Sample : R2111358-002|1.0 Inst : MSVOA-12
Misc : DAY 8260 T4
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Nov 01 11:12:02 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration



TIC: K8393.D\data.ms

(54) Trichloroethene (P)

6.840min (+0.006) 1.27 ppb m

response 5011

Ion	Exp%	Act%
129.90	100	100
131.90	99.70	64.73#
95.00	103.80	83.04#
97.00	66.50	41.49#

Manual Integration:

After

Poor integration.

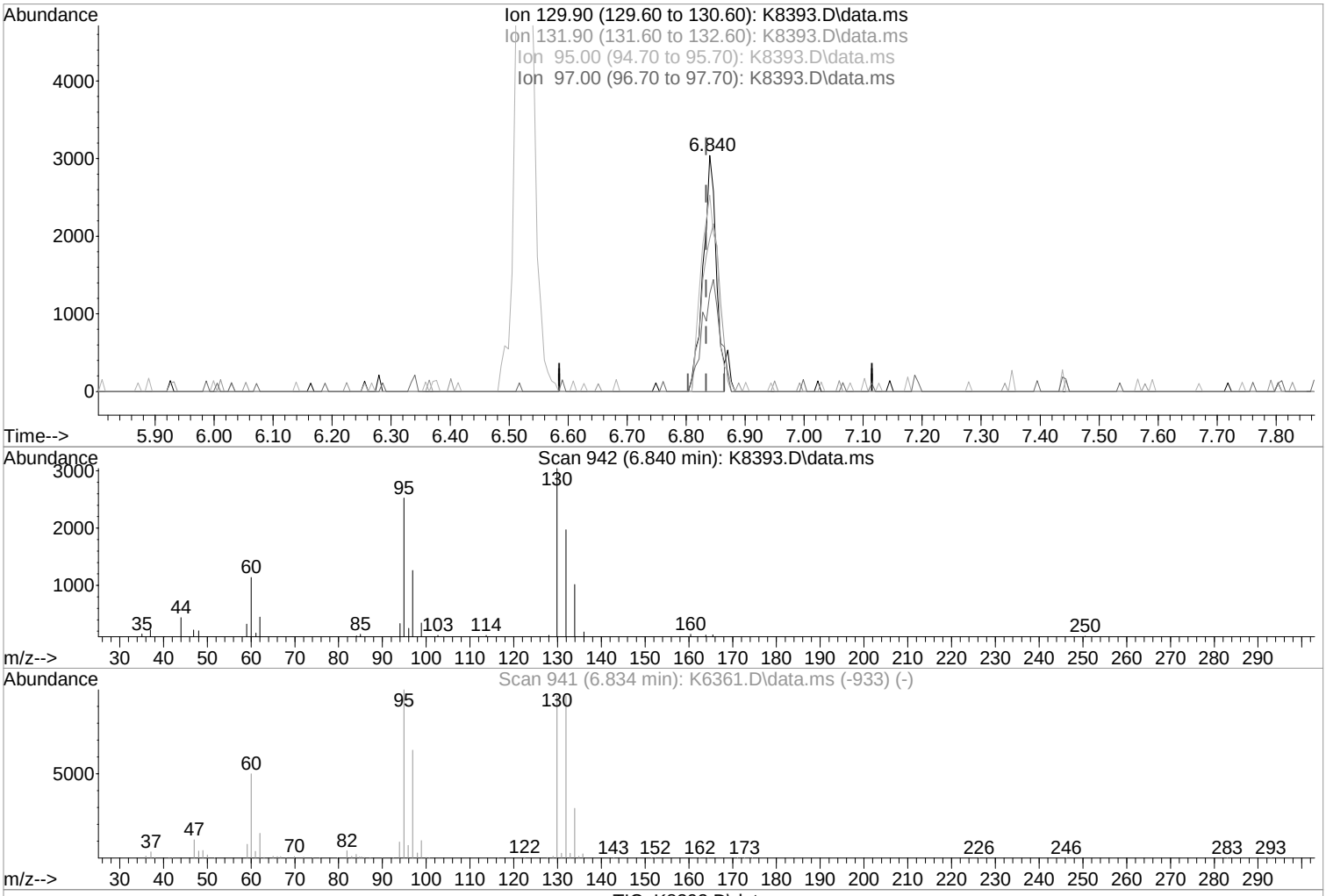
11/02/21

1st 11/02/21
2nd 11/02/21

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\103021\
Data File : K8393.D
Acq On : 30 Oct 2021 7:51 pm
Operator : K.Ruest
Sample : R2111358-002|1.0 Inst : MSVOA-12
Misc : DAY 8260 T4
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Nov 01 11:12:02 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration



TIC: K8393.D\data.ms

(54) Trichloroethene (P)

6.840min (+0.006) 1.21 ppb

response 4770

Ion	Exp%	Act%
129.90	100	100
131.90	99.70	64.73#
95.00	103.80	83.04#
97.00	66.50	41.49#

Manual Integration:

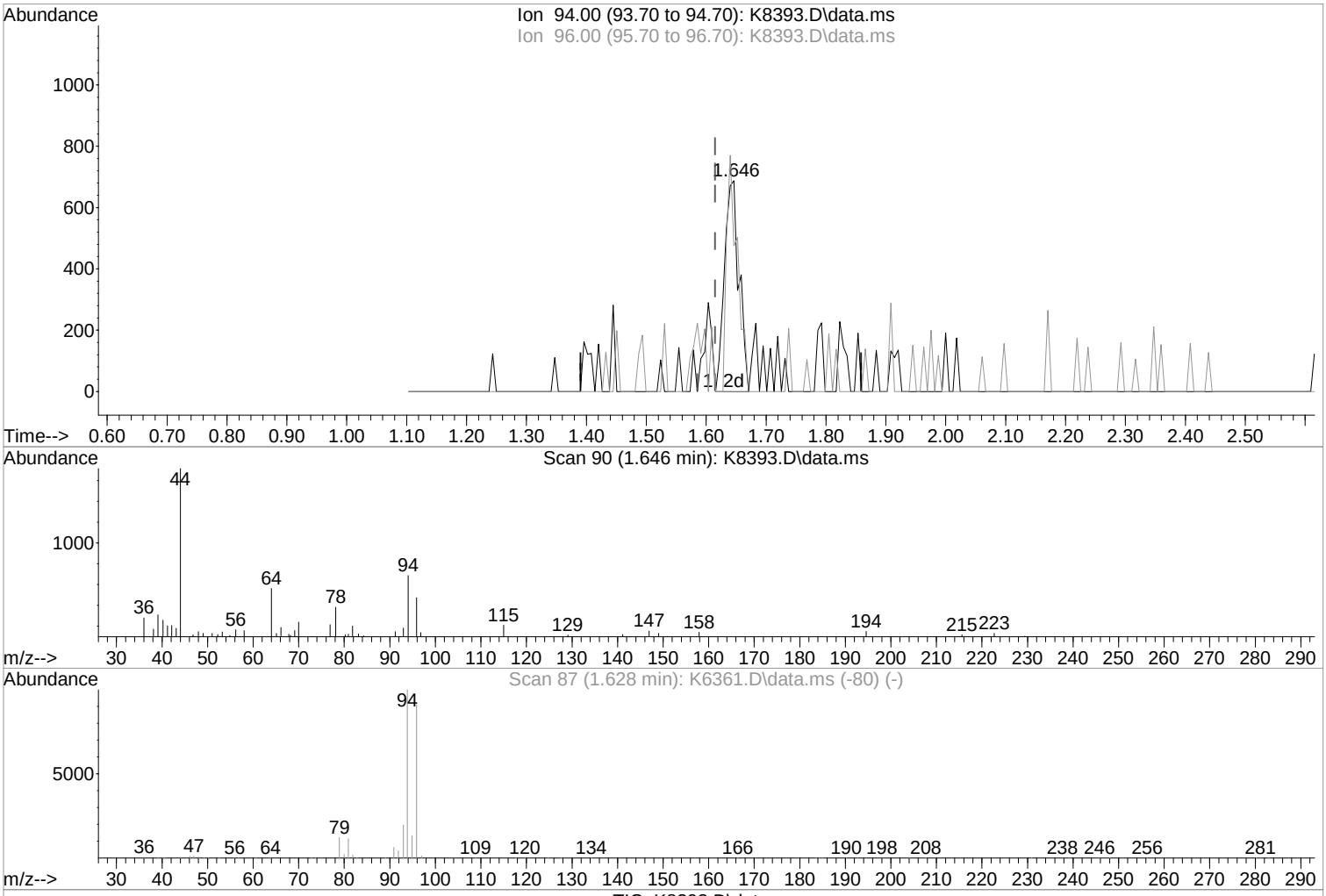
Before

11/02/21

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\103021\
Data File : K8393.D
Acq On : 30 Oct 2021 7:51 pm
Operator : K.Ruest
Sample : R2111358-002|1.0 Inst : MSVOA-12
Misc : DAY 8260 T4
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Nov 01 11:12:02 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration



TIC: K8393.D\data.ms

(5) Bromomethane (P)

1.646min (+0.031) 0.39 ppb m

response 1155

Ion	Exp%	Act%
94.00	100	100
96.00	91.00	69.04#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

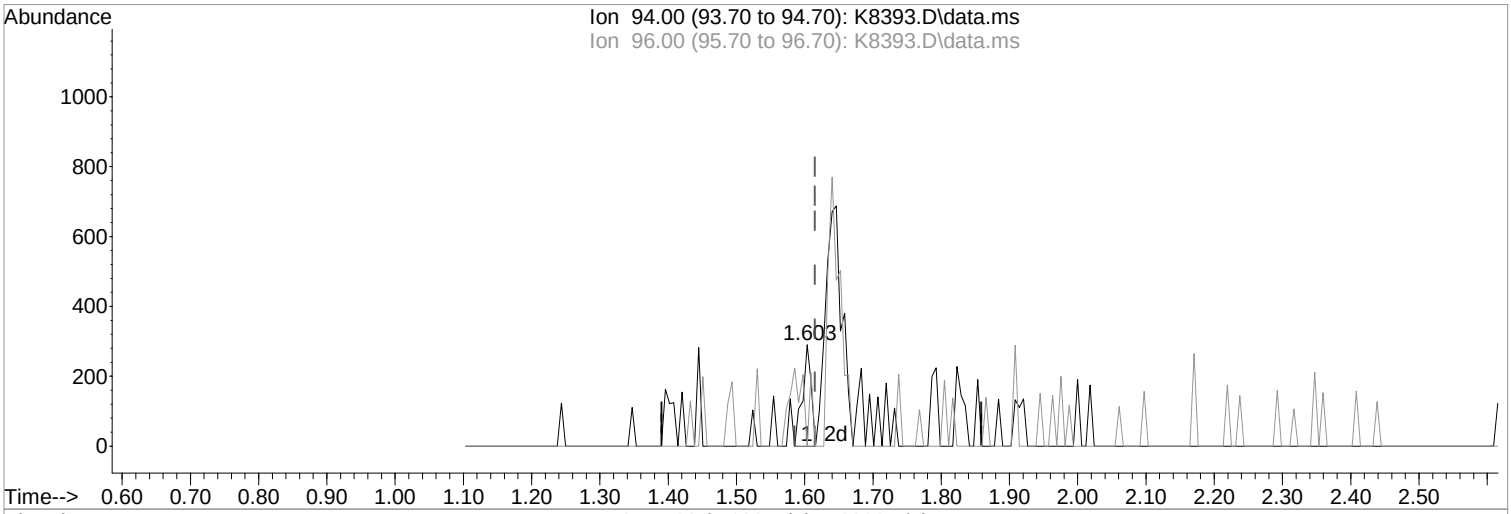
Peak not found.

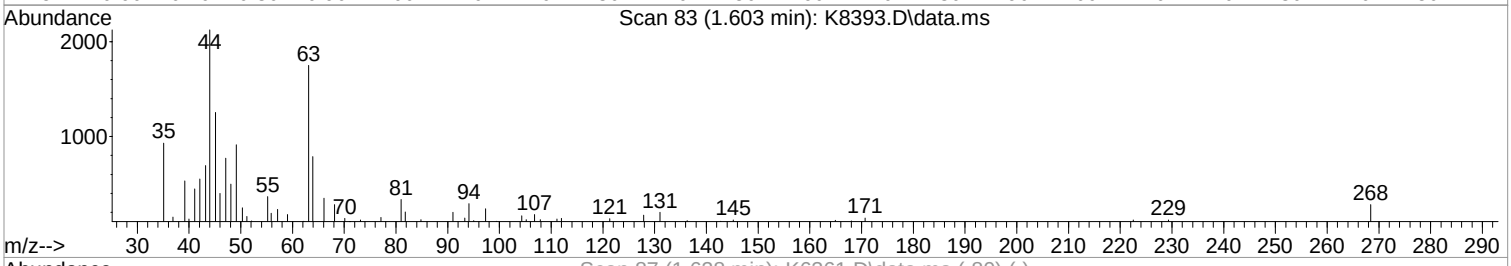
11/02/21

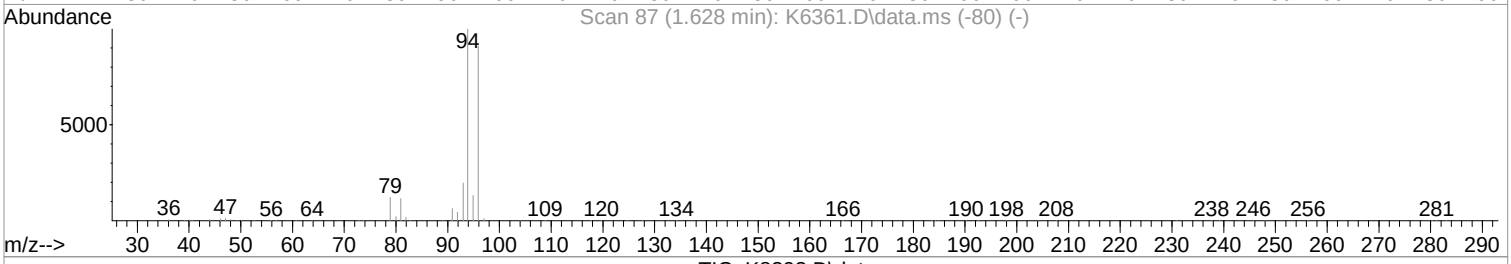
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\103021\
Data File : K8393.D
Acq On : 30 Oct 2021 7:51 pm
Operator : K.Ruest
Sample : R2111358-002|1.0 Inst : MSVOA-12
Misc : DAY 8260 T4
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Nov 01 11:12:02 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration







TIC: K8393.D\data.ms

(5) Bromomethane (P)

1.603min (-0.012) 0.09 ppb

response 260

Ion	Exp%	Act%
94.00	100	100
96.00	91.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

11/02/21

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\103021\
Data File : K8393.D
Acq On : 30 Oct 2021 7:51 pm
Operator : K.Ruest
Sample : R2111358-002|1.0 Inst : MSVOA-12
Misc : DAY 8260 T4
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Nov 04 10:11:04 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration

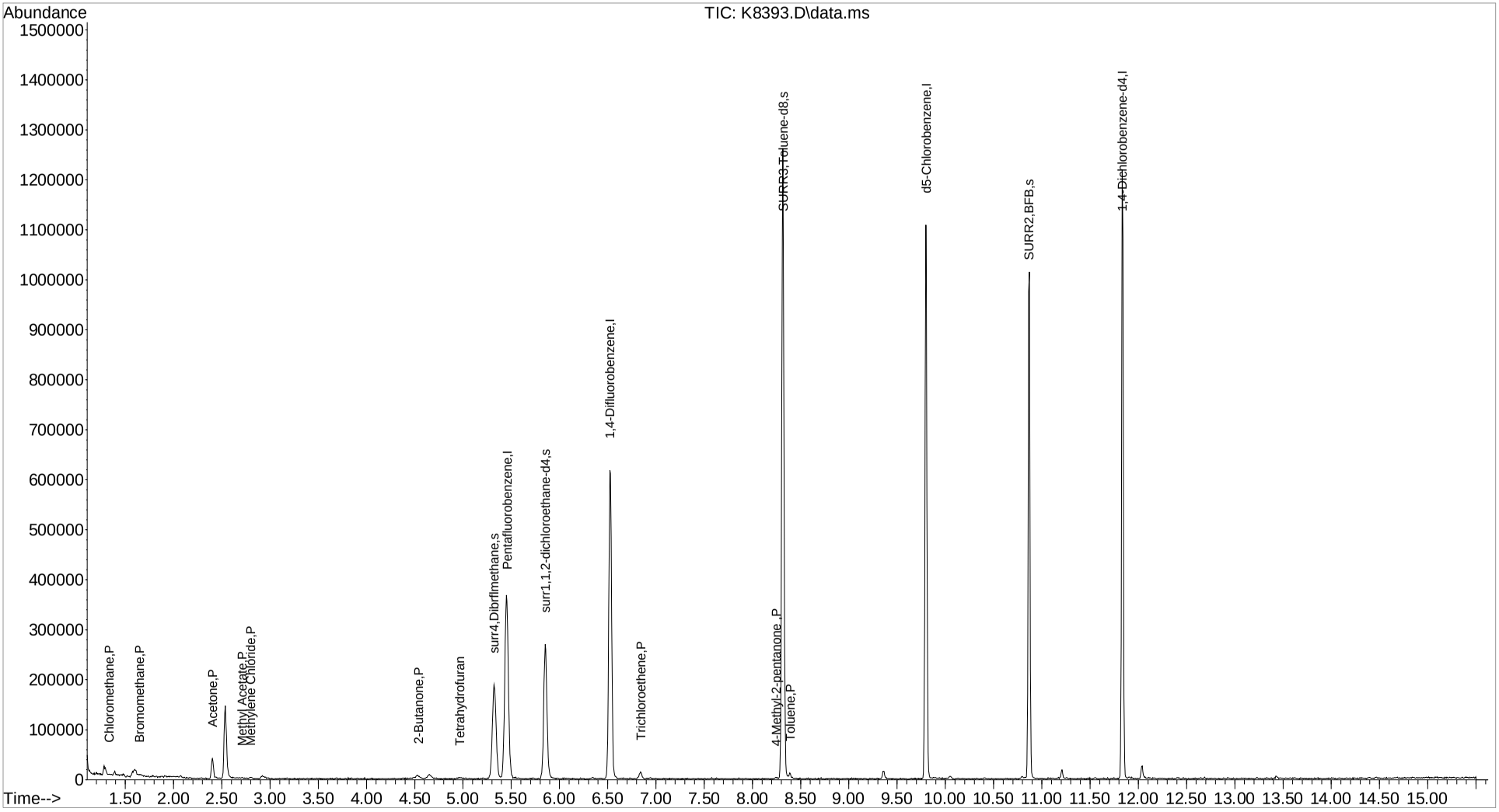
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.456	168	337972	50.00	ppb		0.01
43) 1,4-Difluorobenzene	6.523	114	559635	50.00	ppb		0.00
71) d5-Chlorobenzene	9.797	117	497433	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	11.833	152	241983	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.322	113	160479	52.68	ppb		0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 105.36%				
48) surr1,1,2-dichloroetha...	5.853	65	221987	50.11	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 100.22%				
65) SURR3,Toluene-d8	8.316	98	789703	55.15	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 110.30%				
70) SURR2,BFB	10.864	95	291304	51.25	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 102.50%				
Target Compounds							Qvalue
3) Chloromethane	1.329	50	896	0.23	ppb		95
5) Bromomethane	1.646	94	1155m	0.39	ppb		
15) Acetone	2.402	43	37702	17.82	ppb		94
21) Methyl Acetate	2.707	43	1183	0.27	ppb		90
22) Methylene Chloride	2.798	84	1190	0.30	ppb	#	83
35) 2-Butanone	4.536	43	9703	3.32	ppb		99
39) Tetrahydrofuran	4.969	42	1939	1.00	ppb		68
54) Trichloroethene	6.840	130	5011m	1.27	ppb		
64) 4-Methyl-2-pentanone	8.248	43	1868	0.34	ppb	#	65
66) Toluene	8.389	91	5412	0.32	ppb		95

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

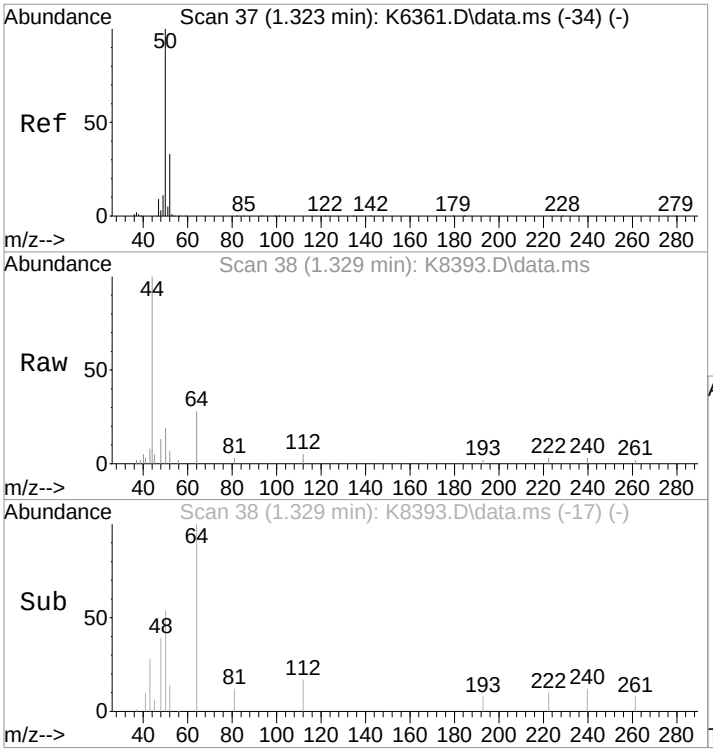
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\103021\
Data File : K8393.D
Acq On : 30 Oct 2021 7:51 pm
Operator : K.Ruest
Sample : R2111358-002|1.0 Inst : MSVOA-12
Misc : DAY 8260 T4
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Nov 04 10:11:04 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration



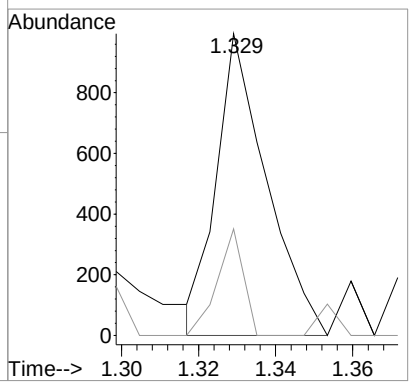
1st 11/02/21
2nd 11/02/21

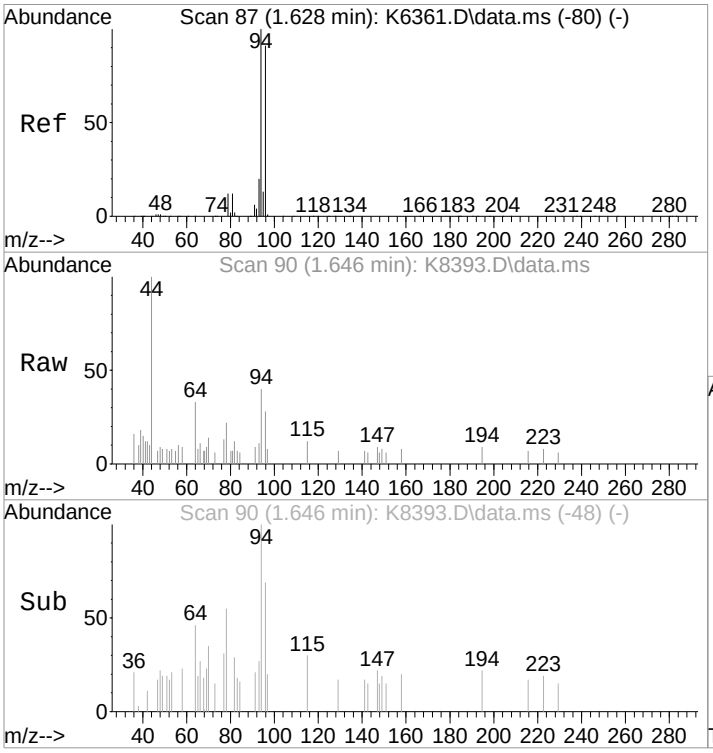


#3
Chloromethane
Concen: 0.23 ppb
RT: 1.329 min Scan# 38
Delta R.T. 0.012 min
Lab File: K8393.D
Acq: 30 Oct 2021 7:51 pm

Tgt Ion: 50 Resp: 896

Ion	Ratio	Lower	Upper
50	100		
52	35.3	12.7	52.7

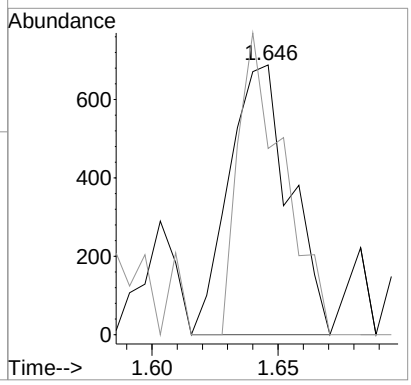


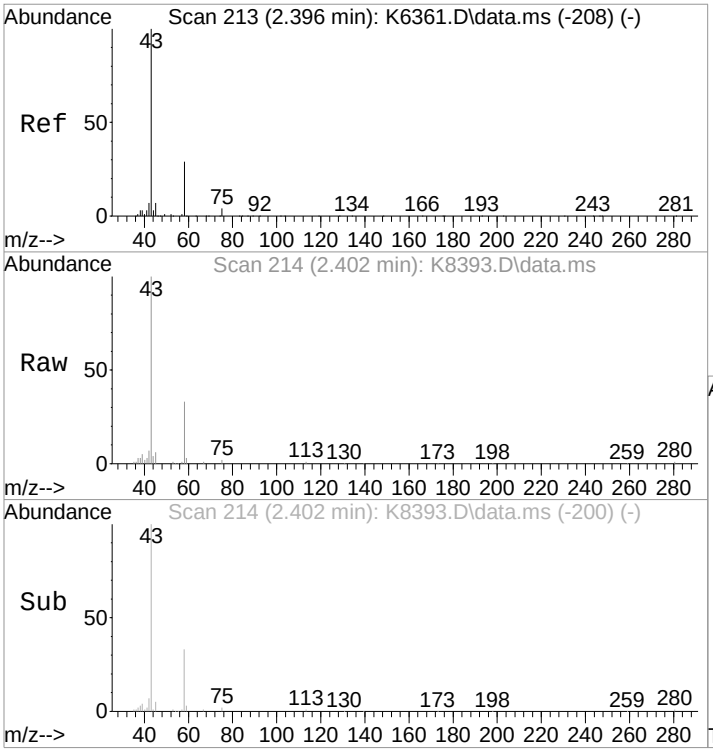


#5
Bromomethane
Concen: 0.39 ppb m
RT: 1.646 min Scan# 90
Delta R.T. 0.031 min
Lab File: K8393.D
Acq: 30 Oct 2021 7:51 pm

Tgt Ion: 94 Resp: 1155

Ion	Ratio	Lower	Upper
94	100		
96	69.0	71.0	111.0#

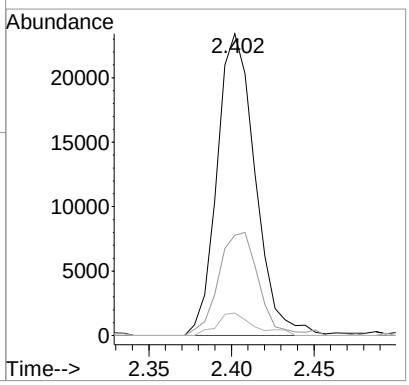


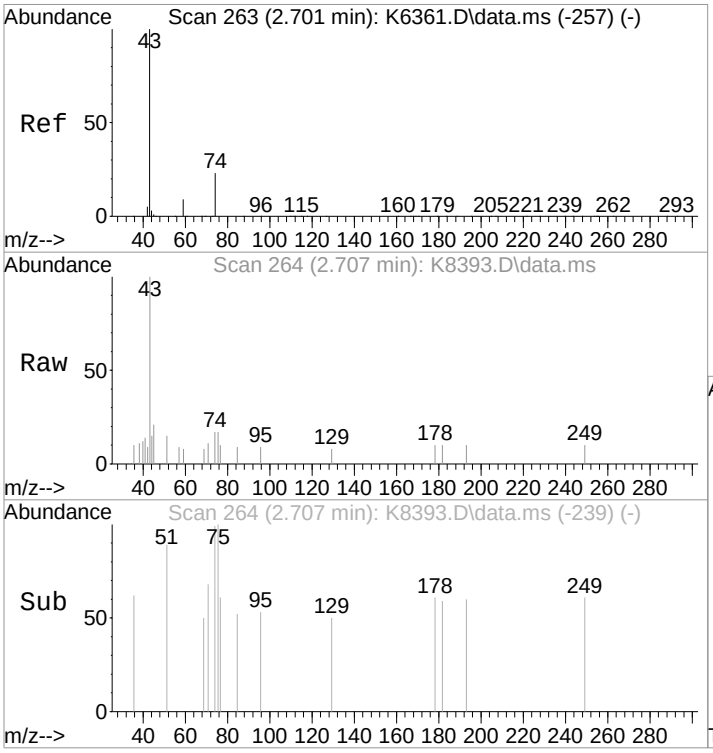


#15
Acetone
Concen: 17.82 ppb
RT: 2.402 min Scan# 214
Delta R.T. 0.013 min
Lab File: K8393.D
Acq: 30 Oct 2021 7:51 pm

Tgt Ion: 43 Resp: 37702

Ion	Ratio	Lower	Upper
43	100		
58	33.2	9.6	49.6
42	7.4	0.0	27.7

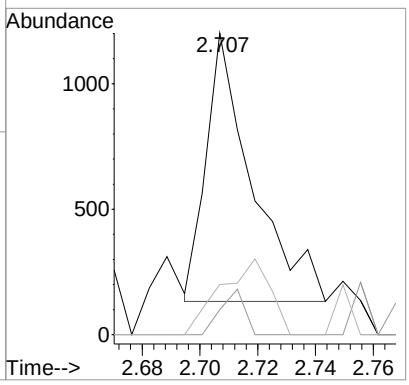


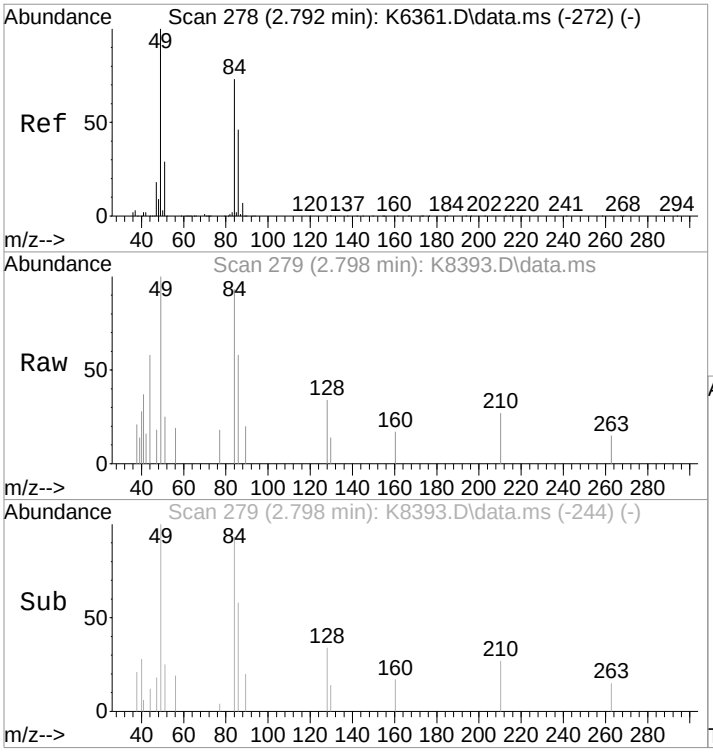


#21
Methyl Acetate
Concen: 0.27 ppb
RT: 2.707 min Scan# 264
Delta R.T. 0.012 min
Lab File: K8393.D
Acq: 30 Oct 2021 7:51 pm

Tgt Ion: 43 Resp: 1183

Ion	Ratio	Lower	Upper
43	100		
59	8.3	0.0	28.9
74	16.6	3.3	43.3

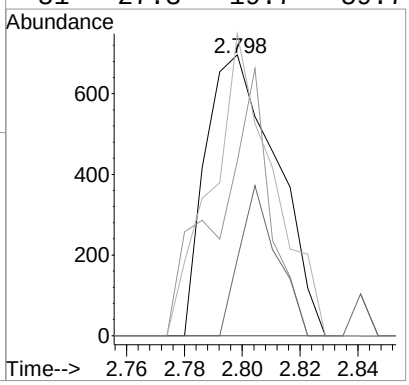


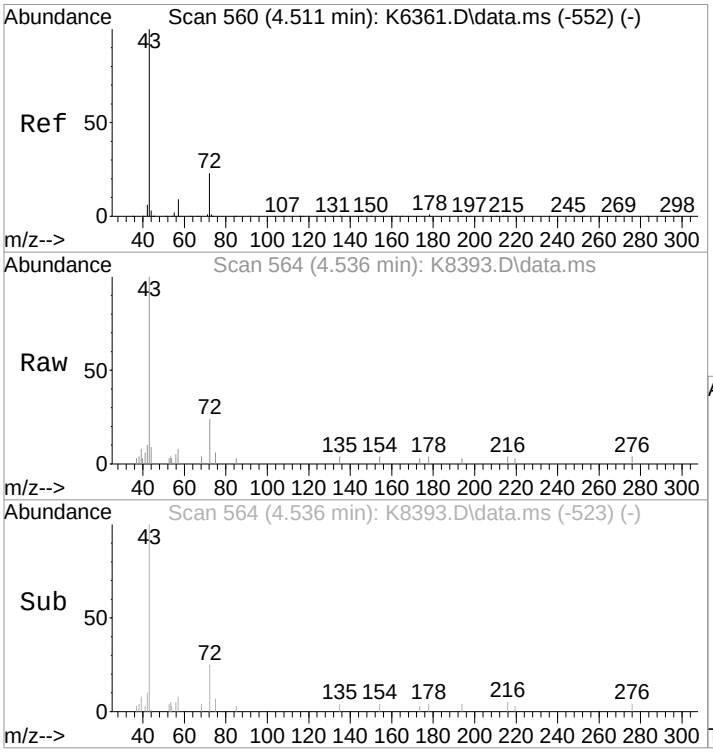


#22
Methylene Chloride
Concen: 0.30 ppb
RT: 2.798 min Scan# 279
Delta R.T. 0.012 min
Lab File: K8393.D
Acq: 30 Oct 2021 7:51 pm

Tgt Ion: 84 Resp: 1190

Ion	Ratio	Lower	Upper
84	100		
86	62.2	42.7	82.7
49	107.6	116.5	156.5#
51	27.3	19.7	59.7

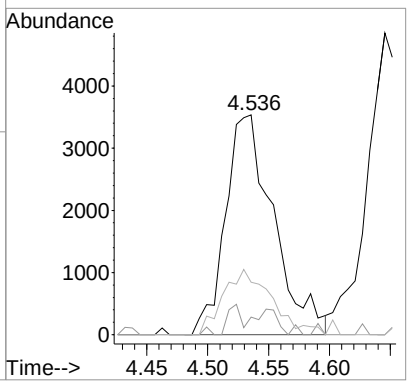


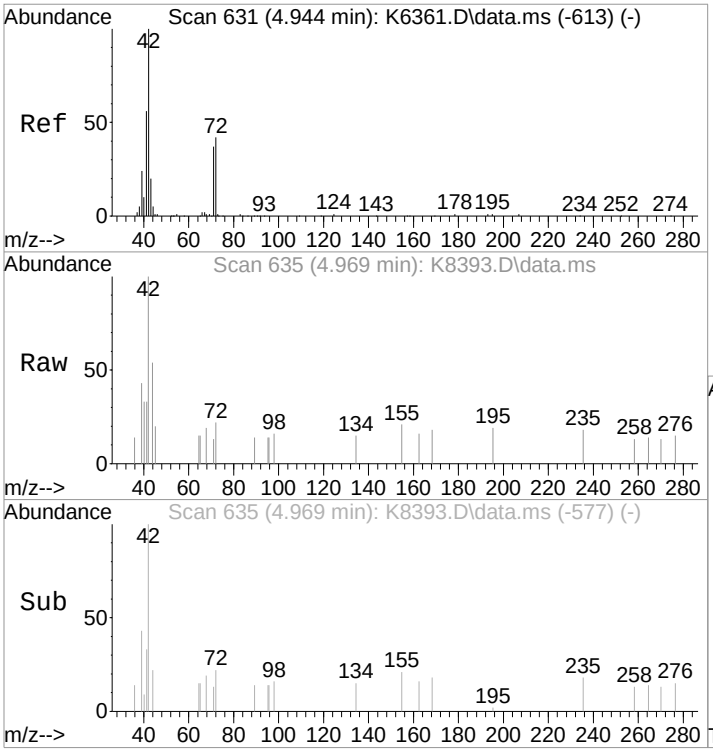


#35
2-Butanone
Concen: 3.32 ppb
RT: 4.536 min Scan# 564
Delta R.T. 0.024 min
Lab File: K8393.D
Acq: 30 Oct 2021 7:51 pm

Tgt Ion: 43 Resp: 9703

Ion	Ratio	Lower	Upper
43	100		
57	8.0	0.0	28.6
72	24.0	3.4	43.4

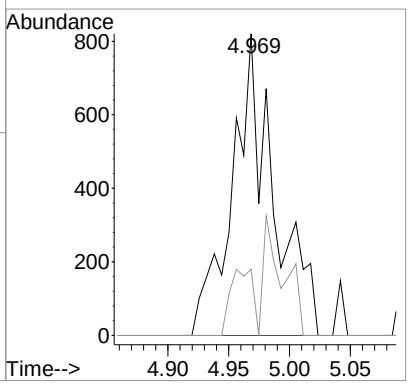


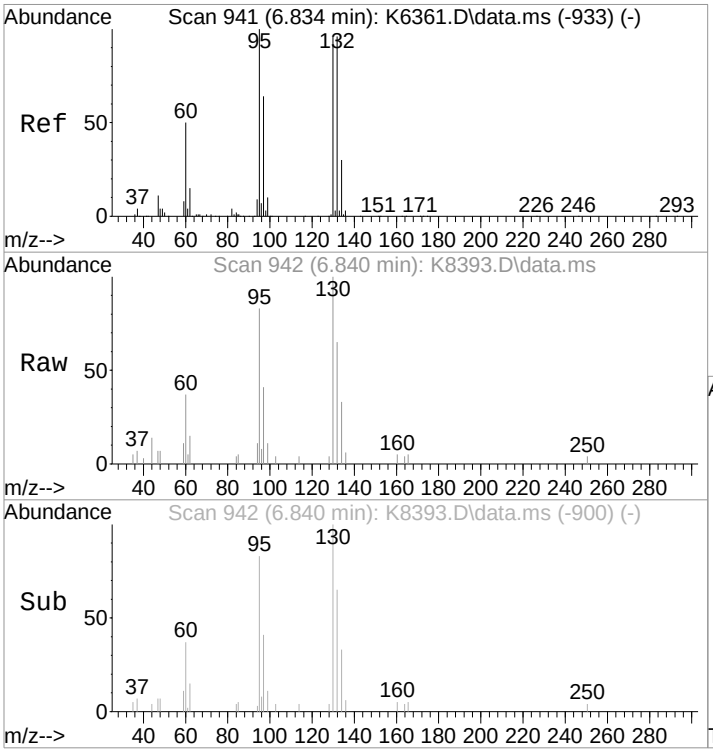


#39
Tetrahydrofuran
Concen: 1.00 ppb
RT: 4.969 min Scan# 635
Delta R.T. 0.037 min
Lab File: K8393.D
Acq: 30 Oct 2021 7:51 pm

Tgt Ion: 42 Resp: 1939

Ion	Ratio	Lower	Upper
42	100		
72	21.9	21.8	61.8

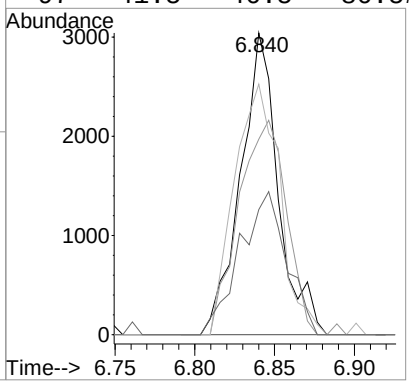


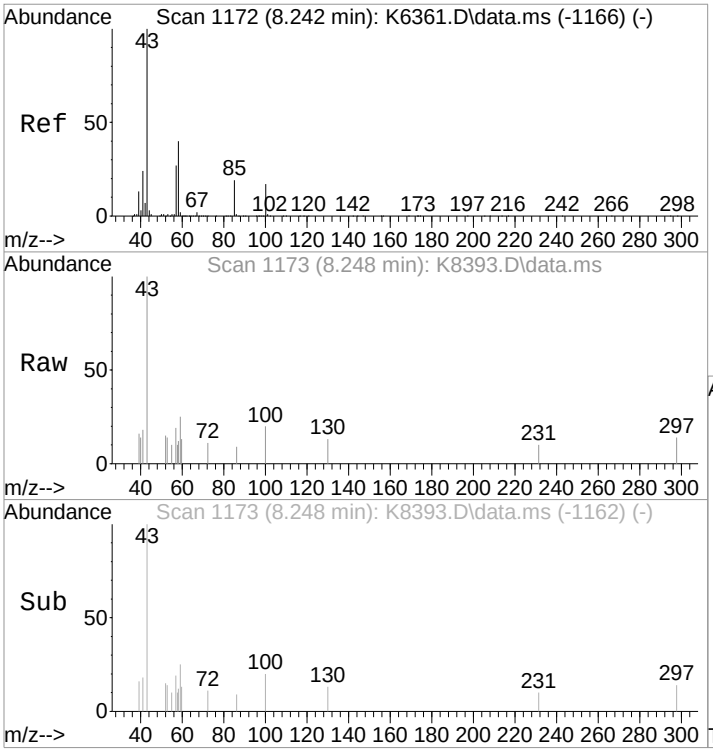


#54
Trichloroethene
Concen: 1.27 ppb m
RT: 6.840 min Scan# 942
Delta R.T. 0.006 min
Lab File: K8393.D
Acq: 30 Oct 2021 7:51 pm

Tgt Ion:130 Resp: 5011

Ion	Ratio	Lower	Upper
130	100		
132	64.7	79.7	119.7#
95	83.0	83.8	123.8#
97	41.5	46.5	86.5#

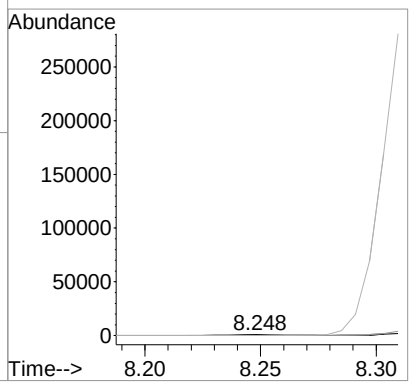


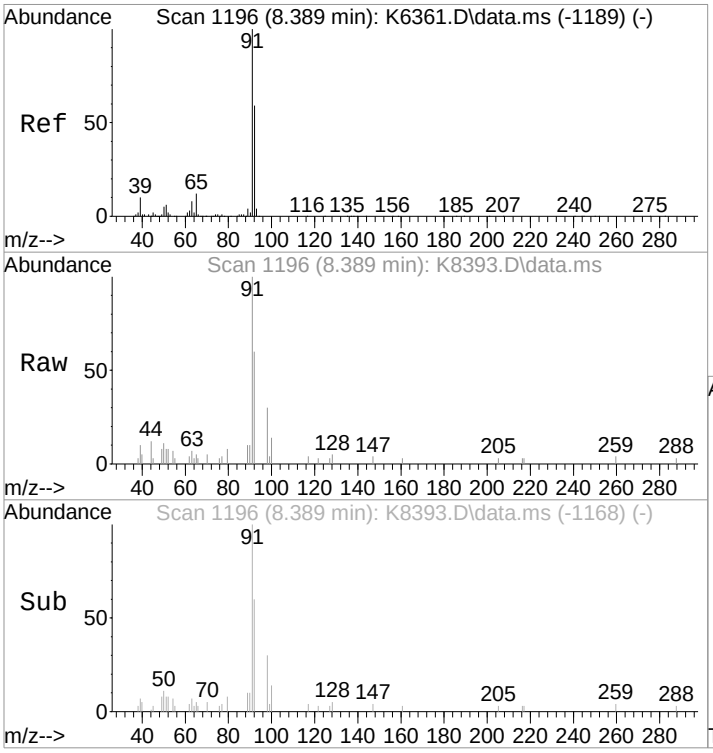


#64
4-Methyl-2-pentanone
Concen: 0.34 ppb
RT: 8.248 min Scan# 1173
Delta R.T. 0.006 min
Lab File: K8393.D
Acq: 30 Oct 2021 7:51 pm

Tgt Ion: 43 Resp: 1868

Ion	Ratio	Lower	Upper
43	100		
58	11.6	20.2	60.2#
100	20.4	0.0	36.8

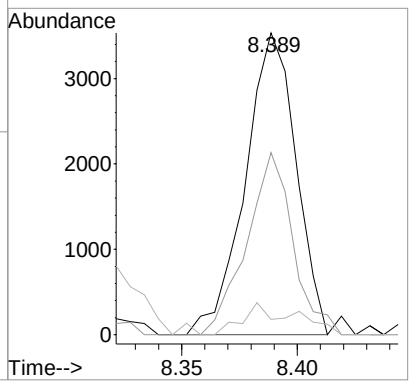




#66
Toluene
Concen: 0.32 ppb
RT: 8.389 min Scan# 1196
Delta R.T. 0.000 min
Lab File: K8393.D
Acq: 30 Oct 2021 7:51 pm

Tgt Ion: 91 Resp: 5412

Ion	Ratio	Lower	Upper
91	100		
92	60.3	38.7	78.7
65	5.1	0.0	31.8



LSC Area Percent Report

Data Path : I:\ACQUDATA\msvoa12\Data\103021\
Data File : K8393.D
Acq On : 30 Oct 2021 7:51 pm
Operator : K.Ruest
Sample : R2111358-002|1.0 Inst : MSVOA-12
Misc : DAY 8260 T4
ALS Vial : 20 Sample Multiplier: 1

Integration Parameters: INTP90.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 500 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0.1 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Title : MS#12 - 8260B WATERS 10mL Purge

Signal : TIC: K8393.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.280	27	30	36	rBV3	17829	29527	1.46%	0.288%
2	1.597	74	82	86	rBV8	14991	42081	2.08%	0.410%
3	2.402	208	214	219	rBV2	40012	64134	3.18%	0.625%
4	2.536	229	236	248	rBV	145042	263670	13.06%	2.571%
5	5.322	683	693	705	rBV2	186910	512021	25.35%	4.992%
6	5.450	705	714	725	rVB	366087	963944	47.73%	9.398%
7	5.853	771	780	790	rBV	268919	626179	31.01%	6.105%
8	6.523	881	890	902	rBV	616869	1263552	62.57%	12.319%
9	6.840	935	942	949	rBV2	13799	29018	1.44%	0.283%
10	8.316	1176	1184	1192	rBV	1260934	2019560	100.00%	19.690%
11	9.358	1351	1355	1361	rVB3	14586	24204	1.20%	0.236%
12	9.797	1420	1427	1439	rBV	1108666	1517060	75.12%	14.791%
13	10.870	1597	1603	1614	rVB	1013185	1318838	65.30%	12.858%
14	11.205	1654	1658	1663	rBV2	17389	24024	1.19%	0.234%
15	11.833	1756	1761	1770	rVB	1217926	1524472	75.49%	14.863%
16	12.040	1791	1795	1799	rBV	24974	34555	1.71%	0.337%

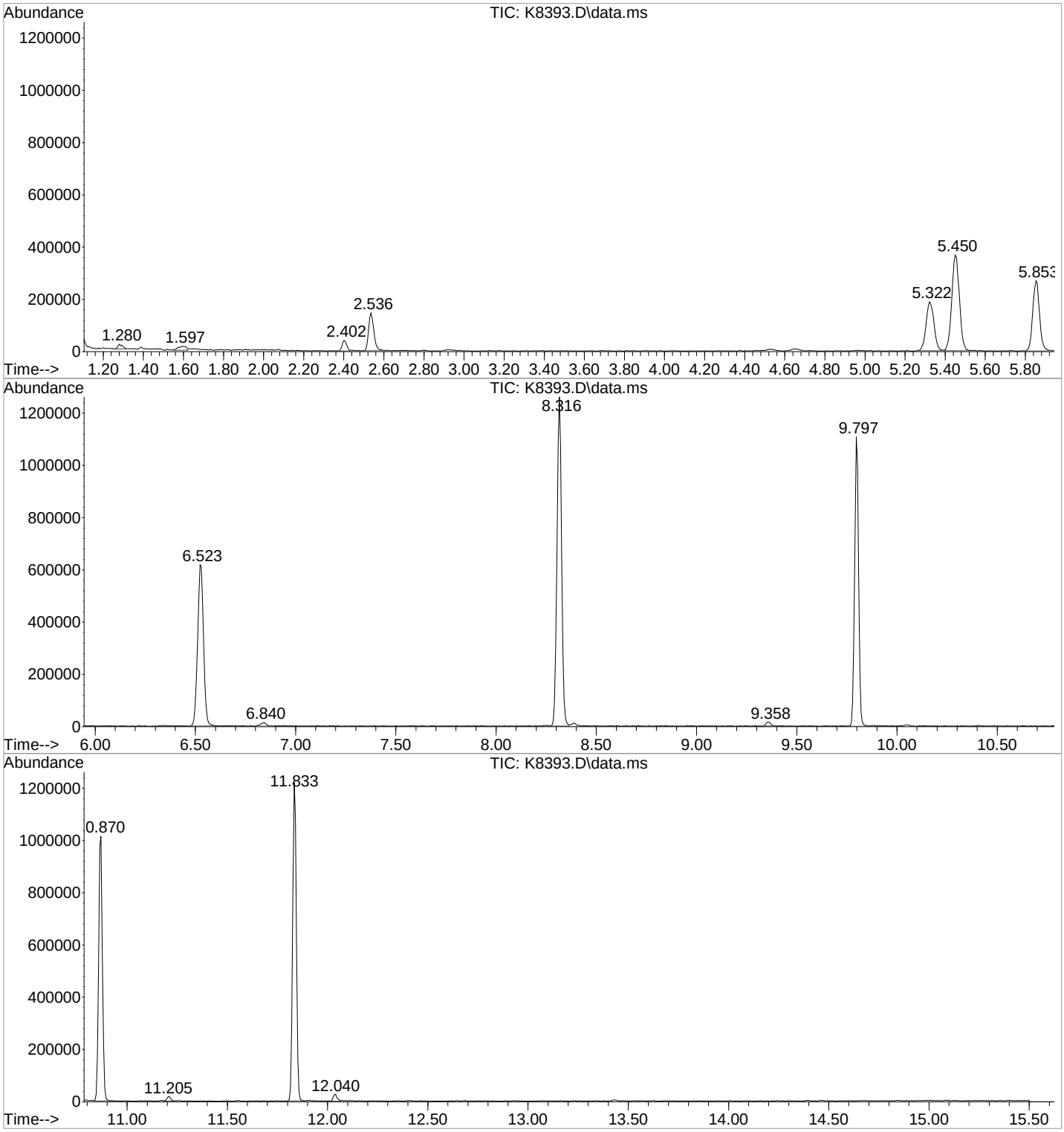
Sum of corrected areas: 10256839

LSC Report - Integrated Chromatogram

Data Path : I:\ACQUDATA\msvoa12\Data\103021\
Data File : K8393.D
Acq On : 30 Oct 2021 7:51 pm
Operator : K.Ruest
Sample : R2111358-002|1.0 Inst : MSVOA-12
Misc : DAY 8260 T4
ALS Vial : 20 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa12\Data\103021\
Data File : K8393.D
Acq On : 30 Oct 2021 7:51 pm
Operator : K.Ruest
Sample : R2111358-002|1.0 Inst : MSVOA-12
Misc : DAY 8260 T4
ALS Vial : 20 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge

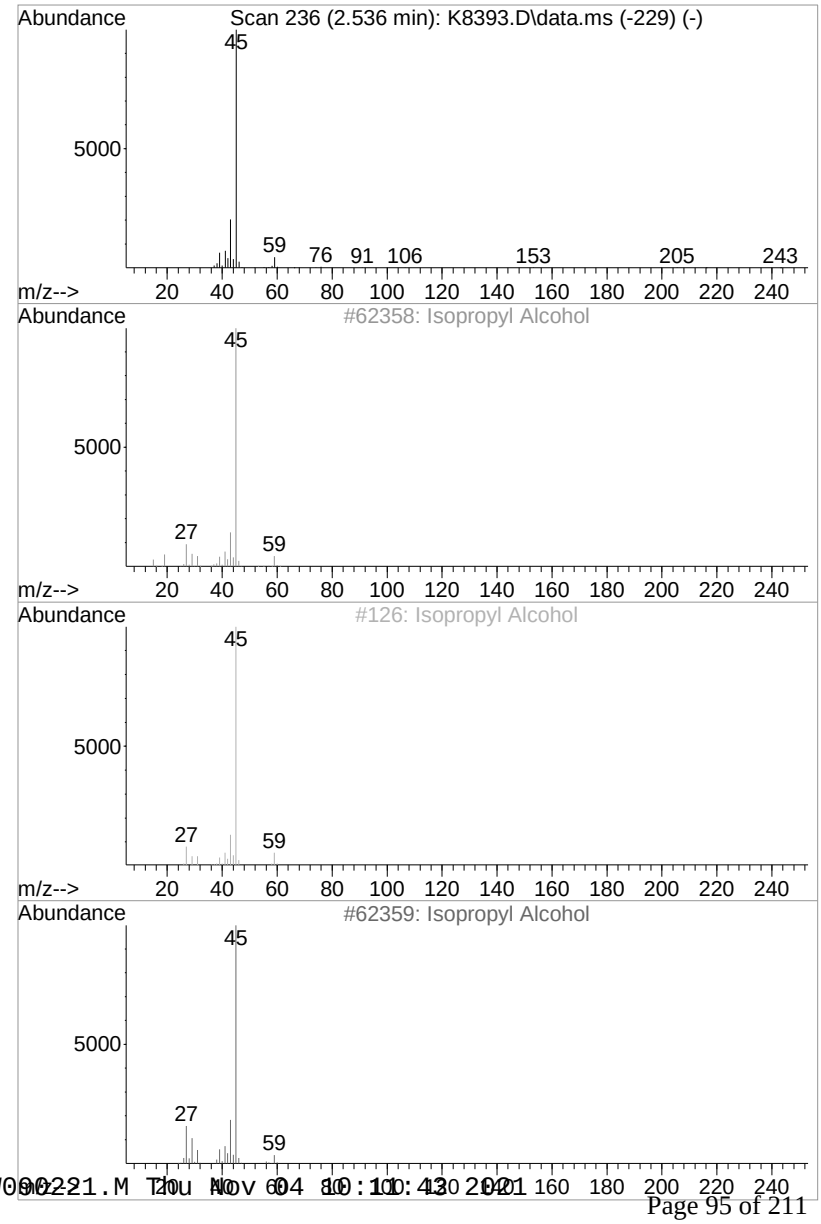
TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P

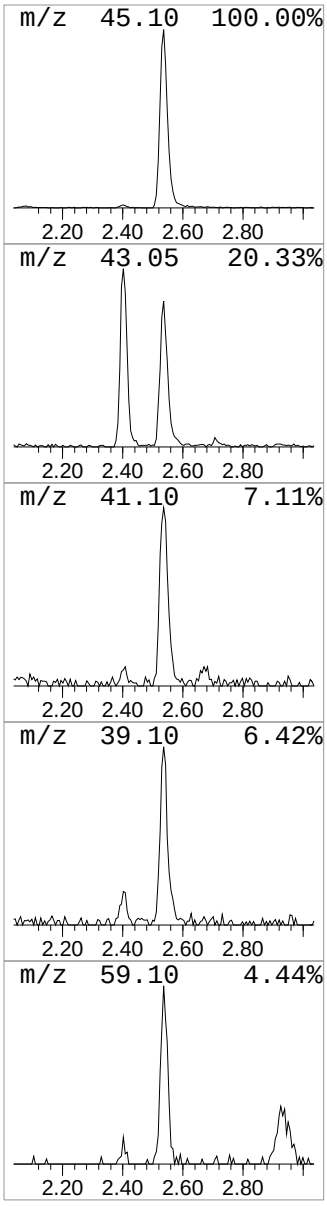
****

Peak Number 1 Isopropyl Alcohol Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.536	13.68 ppb	263670	Pentafluorobenzene	5.456

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Isopropyl Alcohol	60	C3H8O	000067-63-0	86
2	Isopropyl Alcohol	60	C3H8O	000067-63-0	80
3	Isopropyl Alcohol	60	C3H8O	000067-63-0	78
4	Propane, 2-ethoxy-	88	C5H12O	000625-54-7	64
5	Isopropyl Alcohol	60	C3H8O	000067-63-0	64





Tentatively Identified Compound (LSC) summary

Data Path : I:\ACQUDATA\msvoa12\Data\103021\
Data File : K8393.D
Acq On : 30 Oct 2021 7:51 pm
Operator : K.Ruest
Sample : R2111358-002|1.0 Inst : MSVOA-12
Misc : DAY 8260 T4
ALS Vial : 20 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P

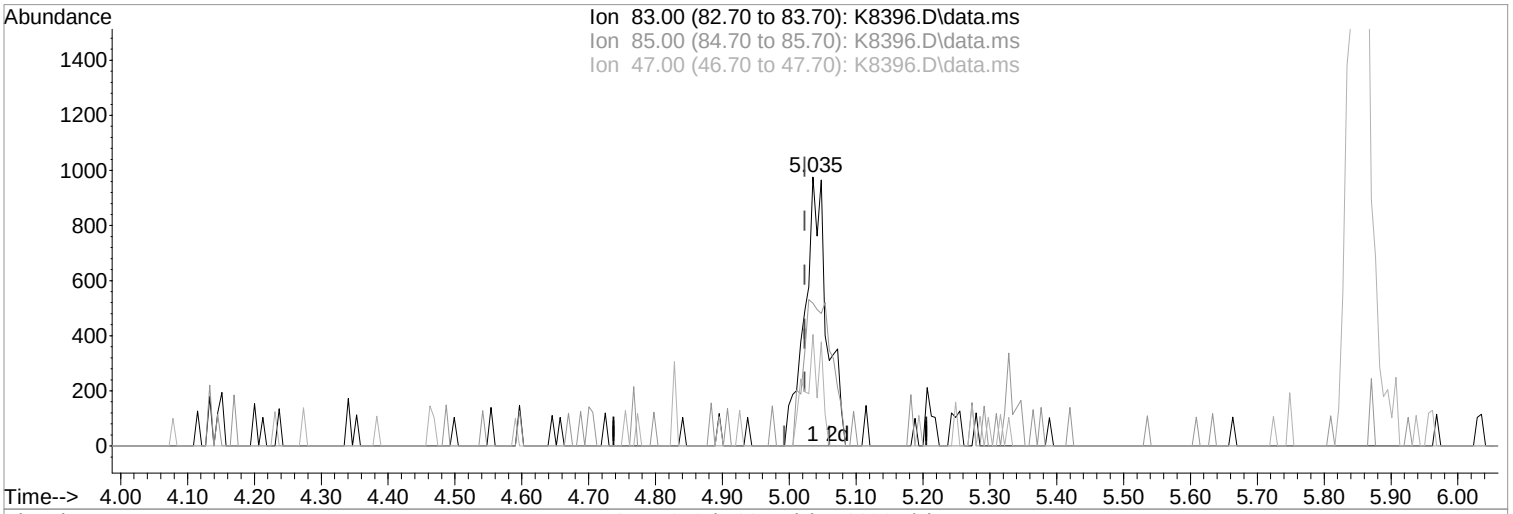
					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Isopropyl Alcohol	2.536	13.7	ppb	263670	1	5.456	963944	50.0

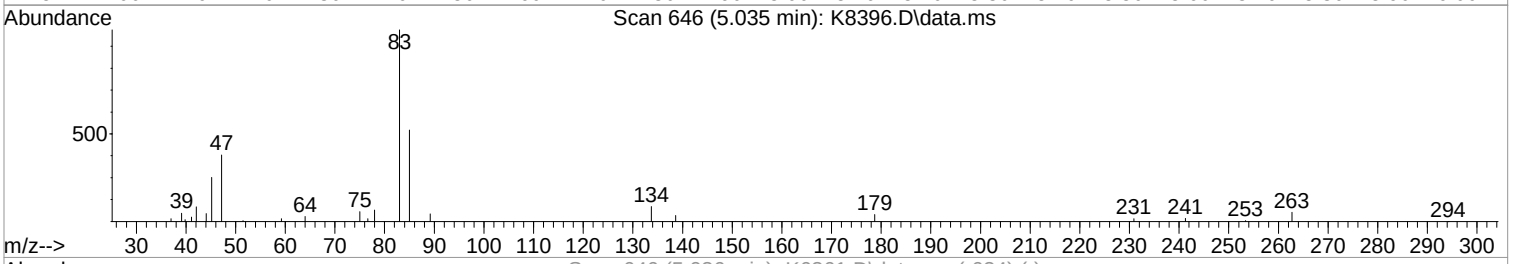
1st 11/02/21
2nd 11/02/21

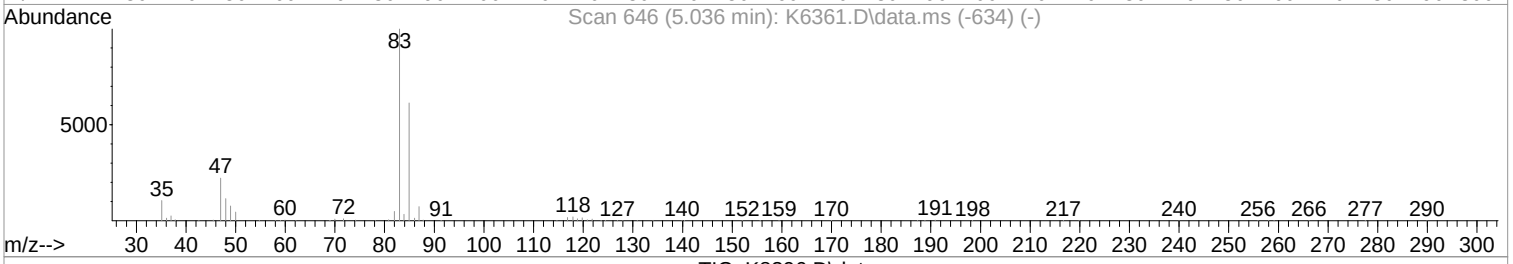
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\103021\
Data File : K8396.D
Acq On : 30 Oct 2021 8:57 pm
Operator : K.Ruest
Sample : R2111358-003|1.0 Inst : MSVOA-12
Misc : DAY 8260 T4
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Nov 01 11:13:18 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration







TIC: K8396.D\data.ms

(40) Chloroform (P)

5.035min (+0.013) -0.15 ppb m

response 2273

Ion	Exp%	Act%
83.00	100	100
85.00	61.50	53.07
47.00	22.10	41.39
0.00	0.00	0.00

Manual Integration:

After

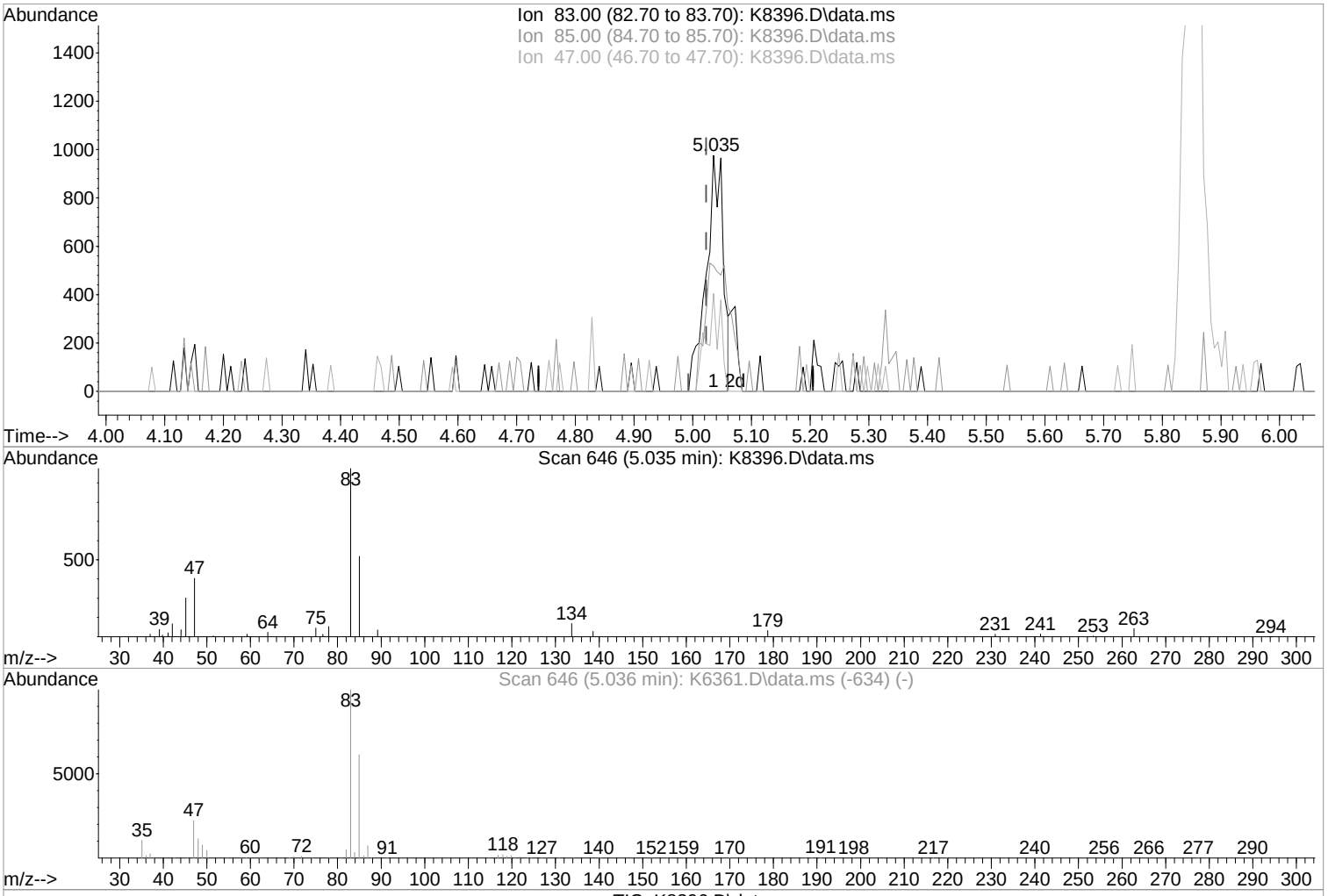
Split Peak

11/02/21

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\103021\
Data File : K8396.D
Acq On : 30 Oct 2021 8:57 pm
Operator : K.Ruest
Sample : R2111358-003|1.0 Inst : MSVOA-12
Misc : DAY 8260 T4
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Nov 01 11:13:18 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration



TIC: K8396.D\data.ms

(40) Chloroform (P)

5.035min (+0.013) -0.20 ppb

response 1975

Ion	Exp%	Act%
83.00	100	100
85.00	61.50	53.07
47.00	22.10	41.39
0.00	0.00	0.00

Manual Integration:

Before

11/02/21

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\103021\
Data File : K8396.D
Acq On : 30 Oct 2021 8:57 pm
Operator : K.Ruest
Sample : R2111358-003|1.0 Inst : MSVOA-12
Misc : DAY 8260 T4
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Nov 04 10:15:15 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration

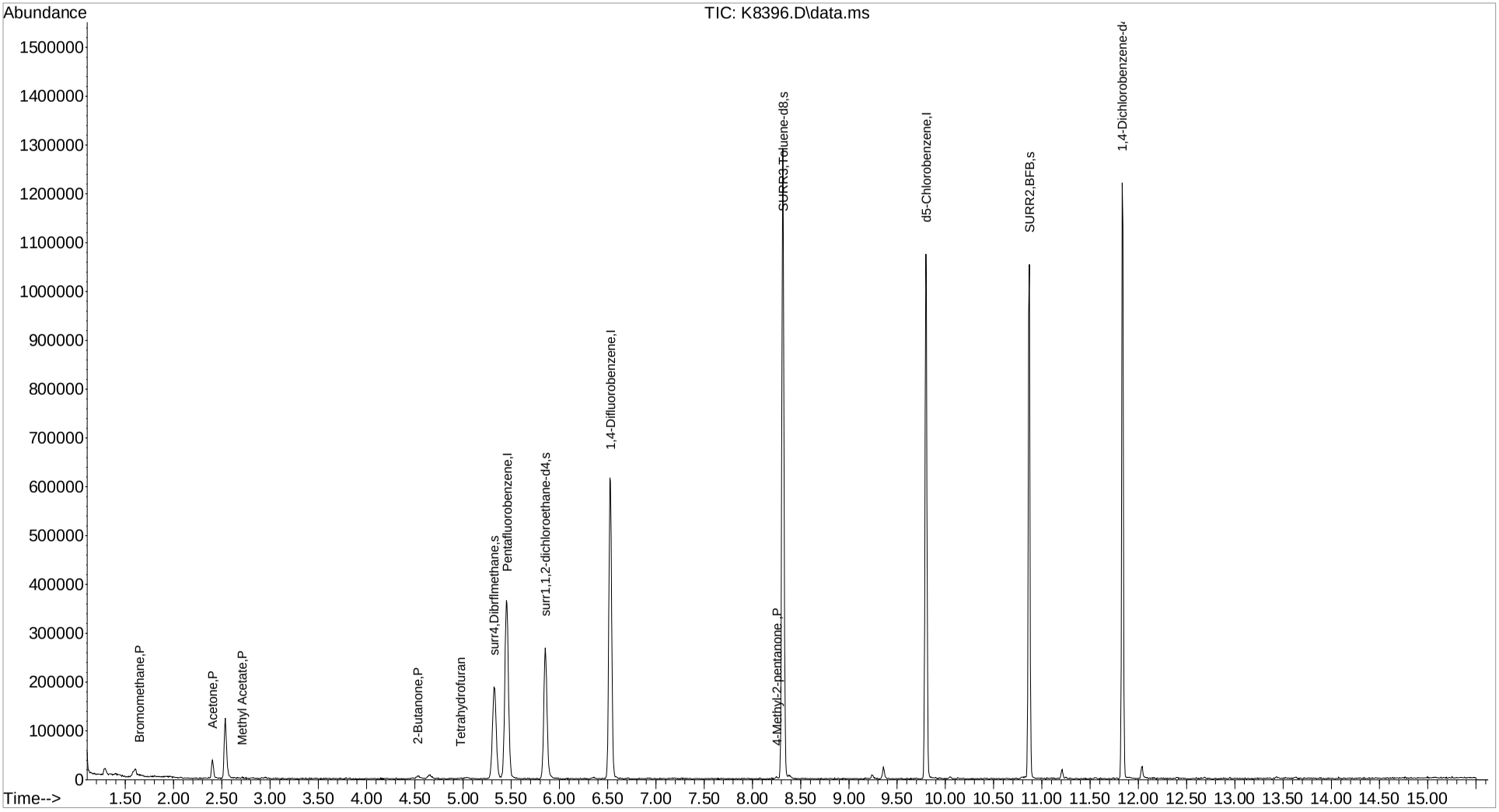
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.456	168	338638	50.00	ppb	0.01
43) 1,4-Difluorobenzene	6.529	114	558513	50.00	ppb	0.00
71) d5-Chlorobenzene	9.797	117	493684	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	11.833	152	245207	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.322	113	162042	53.30	ppb	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 106.60%			
48) surr1,1,2-dichloroetha...	5.852	65	217014	49.09	ppb	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 98.18%			
65) SURR3,Toluene-d8	8.315	98	797373	55.79	ppb	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 111.58%			
70) SURR2,BFB	10.870	95	295454	52.08	ppb	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 104.16%			
Target Compounds						Qvalue
5) Bromomethane	1.646	94	797	0.27	ppb	81
15) Acetone	2.402	43	36438	17.10	ppb	97
21) Methyl Acetate	2.713	43	1570	0.36	ppb	83
35) 2-Butanone	4.529	43	9378	3.21	ppb	92
39) Tetrahydrofuran	4.975	42	1226	0.63	ppb	100
40) Chloroform	5.035	83	2273m	Below Cal		
64) 4-Methyl-2-pentanone	8.254	43	1995	0.36	ppb	94

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

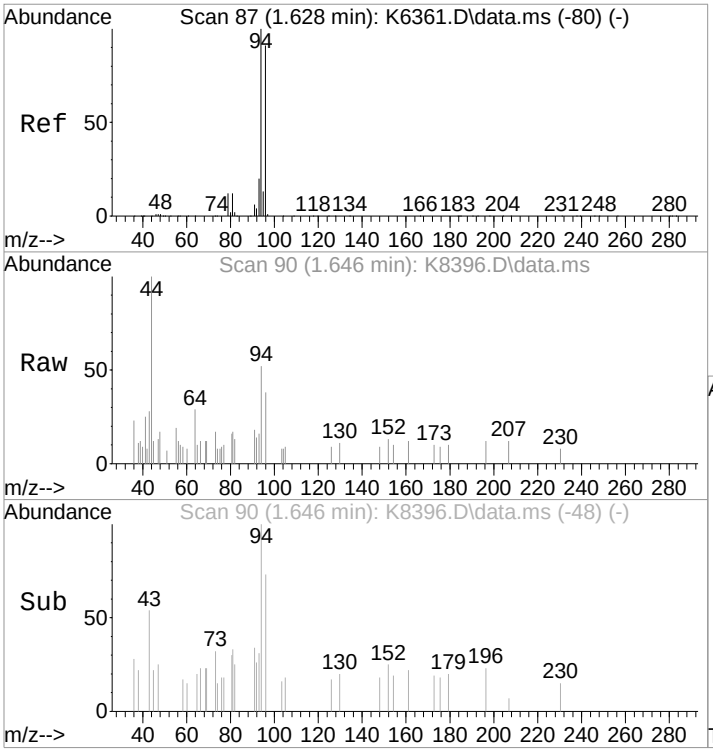
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\103021\
Data File : K8396.D
Acq On : 30 Oct 2021 8:57 pm
Operator : K.Ruest
Sample : R2111358-003|1.0 Inst : MSVOA-12
Misc : DAY 8260 T4
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Nov 04 10:15:15 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration



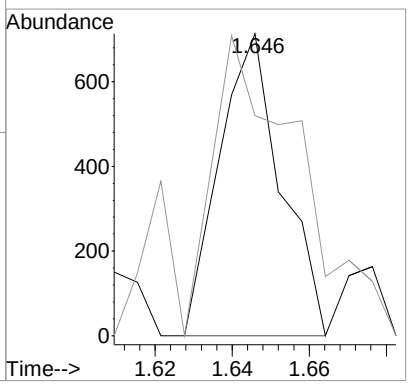
1st 11/02/21
2nd 11/02/21

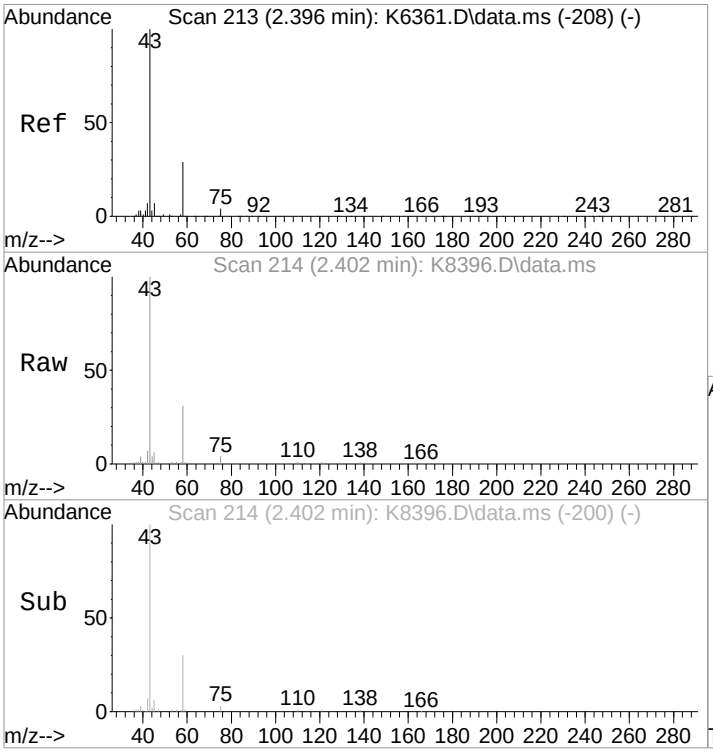


#5
Bromomethane
Concen: 0.27 ppb
RT: 1.646 min Scan# 90
Delta R.T. 0.030 min
Lab File: K8396.D
Acq: 30 Oct 2021 8:57 pm

Tgt Ion: 94 Resp: 797

Ion	Ratio	Lower	Upper
94	100		
96	72.8	71.0	111.0

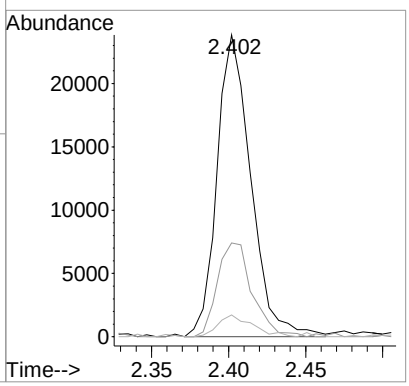


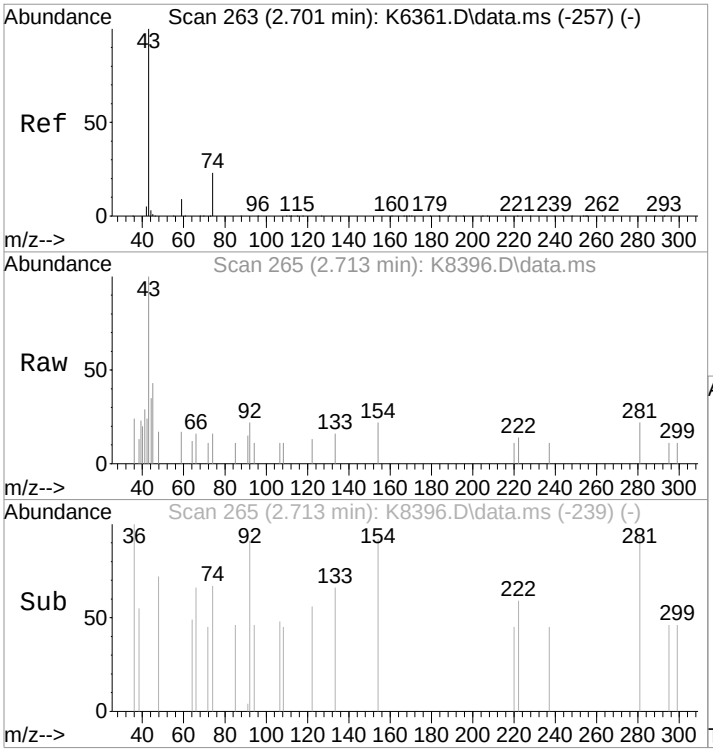


#15
Acetone
Concen: 17.10 ppb
RT: 2.402 min Scan# 214
Delta R.T. 0.013 min
Lab File: K8396.D
Acq: 30 Oct 2021 8:57 pm

Tgt Ion: 43 Resp: 36438

Ion	Ratio	Lower	Upper
43	100		
58	31.1	9.6	49.6
42	7.2	0.0	27.7

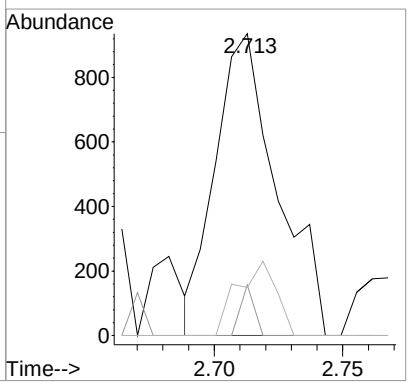


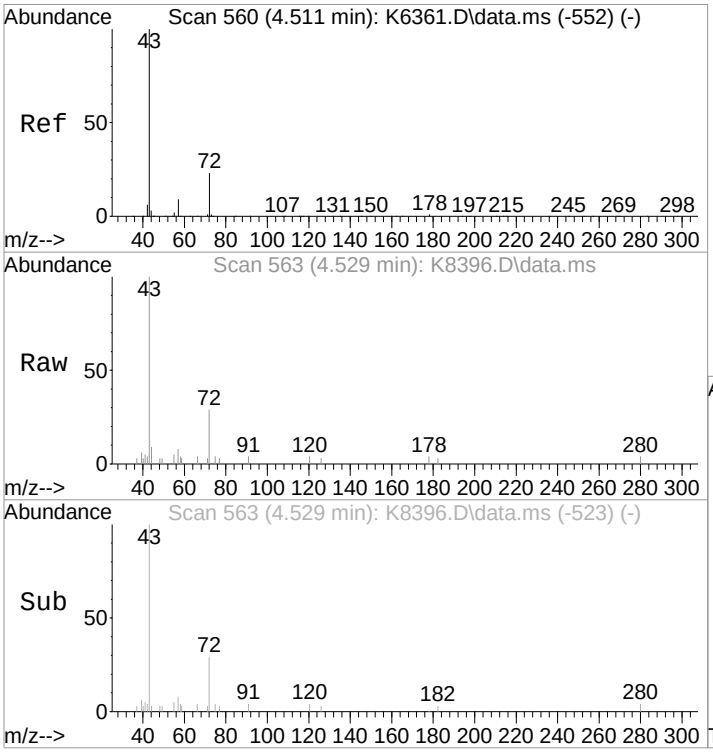


#21
Methyl Acetate
Concen: 0.36 ppb
RT: 2.713 min Scan# 265
Delta R.T. 0.018 min
Lab File: K8396.D
Acq: 30 Oct 2021 8:57 pm

Tgt Ion: 43 Resp: 1570

Ion	Ratio	Lower	Upper
43	100		
59	16.8	0.0	28.9
74	15.9	3.3	43.3

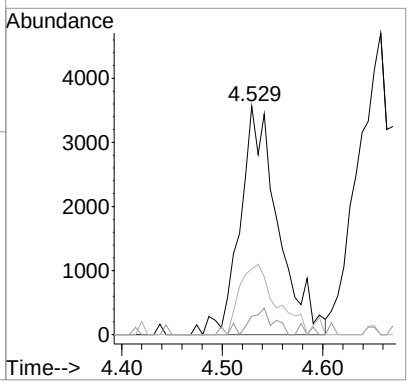


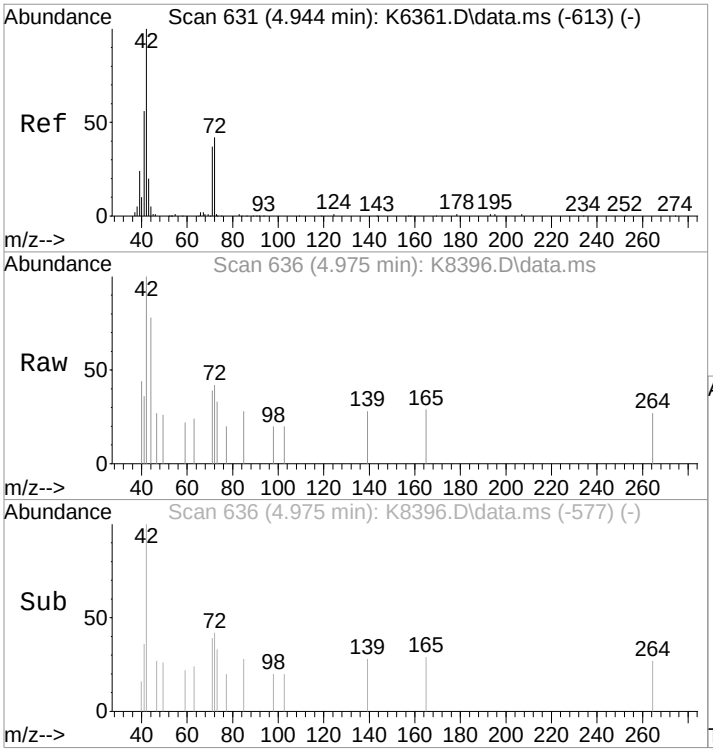


#35
2-Butanone
Concen: 3.21 ppb
RT: 4.529 min Scan# 563
Delta R.T. 0.018 min
Lab File: K8396.D
Acq: 30 Oct 2021 8:57 pm

Tgt Ion: 43 Resp: 9378

Ion	Ratio	Lower	Upper
43	100		
57	8.2	0.0	28.6
72	28.7	3.4	43.4

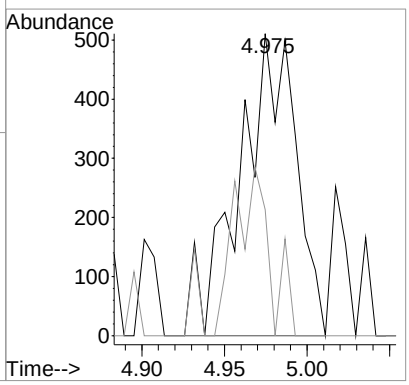


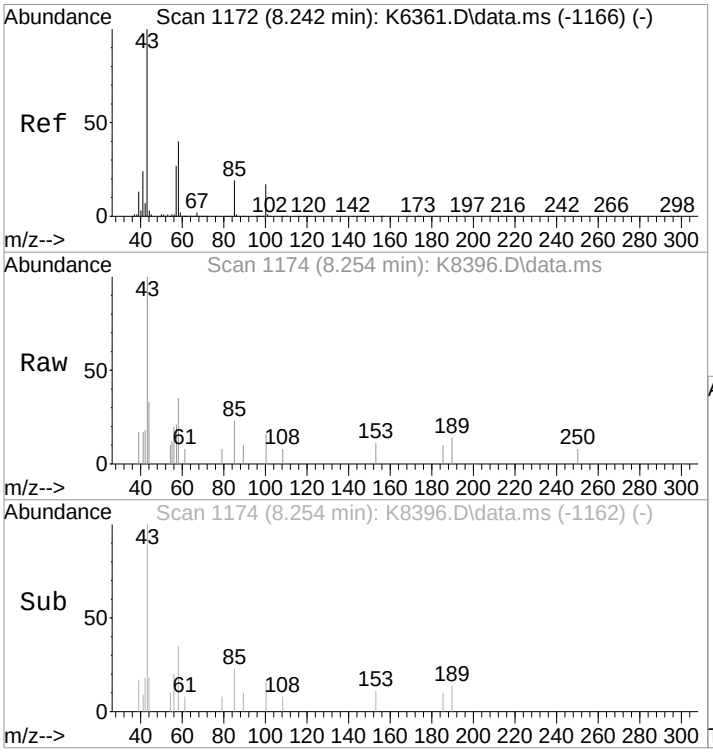


#39
Tetrahydrofuran
Concen: 0.63 ppb
RT: 4.975 min Scan# 636
Delta R.T. 0.043 min
Lab File: K8396.D
Acq: 30 Oct 2021 8:57 pm

Tgt Ion: 42 Resp: 1226

Ion	Ratio	Lower	Upper
42	100		
72	41.7	21.8	61.8

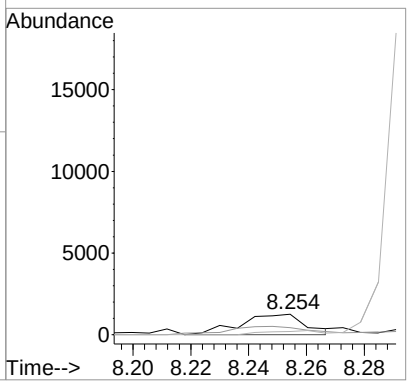




#64
4-Methyl-2-pentanone
Concen: 0.36 ppb
RT: 8.254 min Scan# 1174
Delta R.T. 0.012 min
Lab File: K8396.D
Acq: 30 Oct 2021 8:57 pm

Tgt Ion: 43 Resp: 1995

Ion	Ratio	Lower	Upper
43	100		
58	34.9	20.2	60.2
100	16.3	0.0	36.8



LSC Area Percent Report

Data Path : I:\ACQUDATA\msvoa12\Data\103021\
Data File : K8396.D
Acq On : 30 Oct 2021 8:57 pm
Operator : K.Ruest
Sample : R2111358-003|1.0 Inst : MSVOA-12
Misc : DAY 8260 T4
ALS Vial : 23 Sample Multiplier: 1

Integration Parameters: INTP90.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 500 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0.1 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Title : MS#12 - 8260B WATERS 10mL Purge

Signal : TIC: K8396.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.292	28	32	37	rVB3	13247	25262	1.24%	0.246%
2	1.603	74	83	86	rBV7	16510	39950	1.96%	0.390%
3	2.402	209	214	220	rBV	36950	56879	2.79%	0.555%
4	2.536	230	236	247	rBV	124072	222600	10.94%	2.172%
5	4.658	576	584	593	rVB2	8743	24130	1.19%	0.235%
6	5.322	683	693	705	rBV	187079	512866	25.20%	5.004%
7	5.450	705	714	727	rVB	363612	958059	47.07%	9.347%
8	5.852	770	780	794	rBV	268869	636538	31.27%	6.210%
9	6.523	882	890	899	rBV	615995	1264570	62.13%	12.337%
10	8.315	1177	1184	1192	rBV	1289964	2035496	100.00%	19.858%
11	9.358	1348	1355	1361	rBV	24255	37999	1.87%	0.371%
12	9.797	1421	1427	1435	rBV	1074827	1510416	74.20%	14.736%
13	10.870	1597	1603	1613	rVB	1052808	1339054	65.79%	13.064%
14	11.211	1654	1659	1663	rBV	18392	24933	1.22%	0.243%
15	11.833	1756	1761	1768	rBV	1219988	1524686	74.90%	14.875%
16	12.040	1791	1795	1802	rBV	24369	36696	1.80%	0.358%

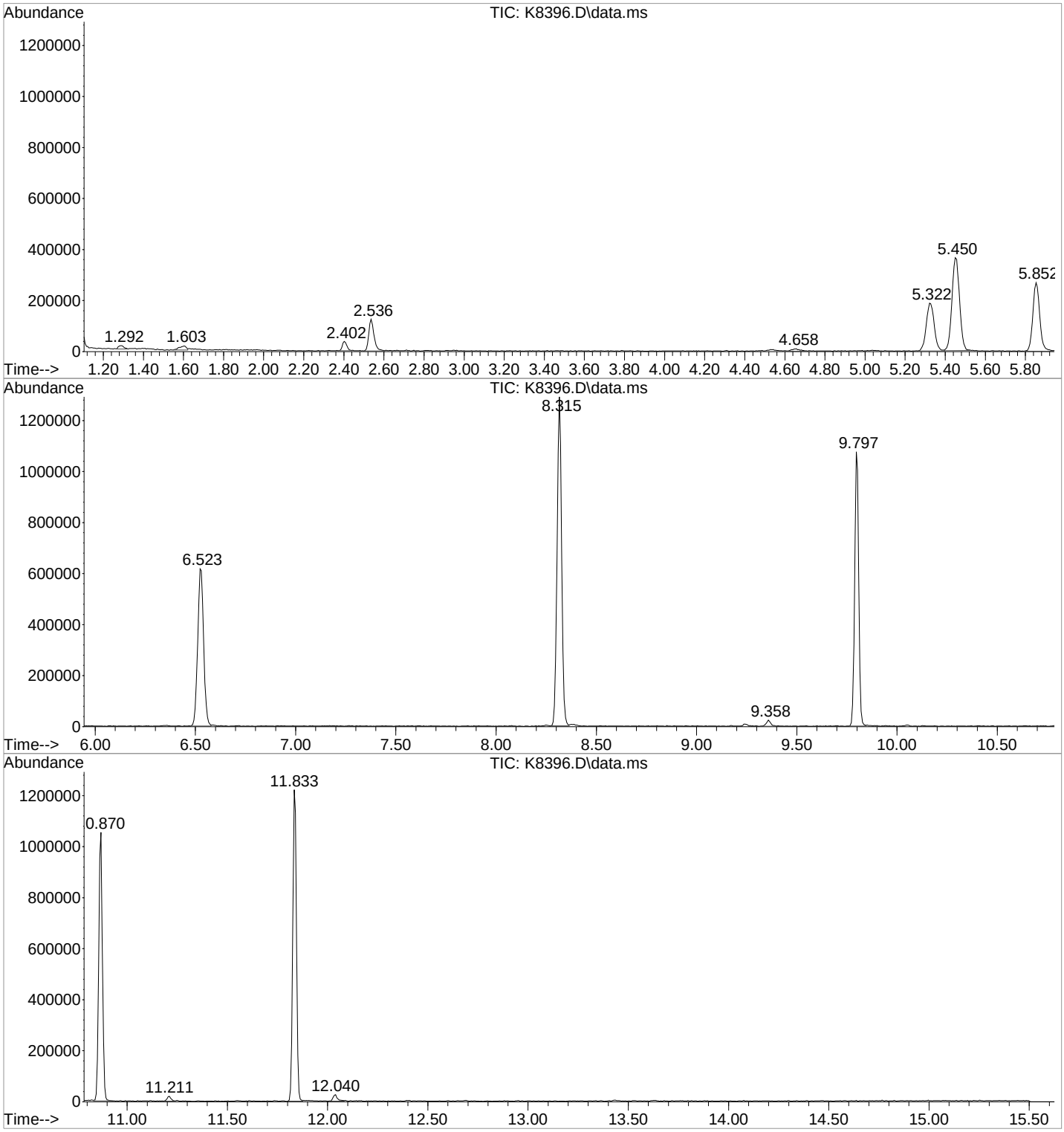
Sum of corrected areas: 10250134

LSC Report - Integrated Chromatogram

Data Path : I:\ACQUDATA\msvoa12\Data\103021\
Data File : K8396.D
Acq On : 30 Oct 2021 8:57 pm
Operator : K.Ruest
Sample : R2111358-003|1.0 Inst : MSVOA-12
Misc : DAY 8260 T4
ALS Vial : 23 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa12\Data\103021\
Data File : K8396.D
Acq On : 30 Oct 2021 8:57 pm
Operator : K.Ruest
Sample : R2111358-003|1.0 Inst : MSVOA-12
Misc : DAY 8260 T4
ALS Vial : 23 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge

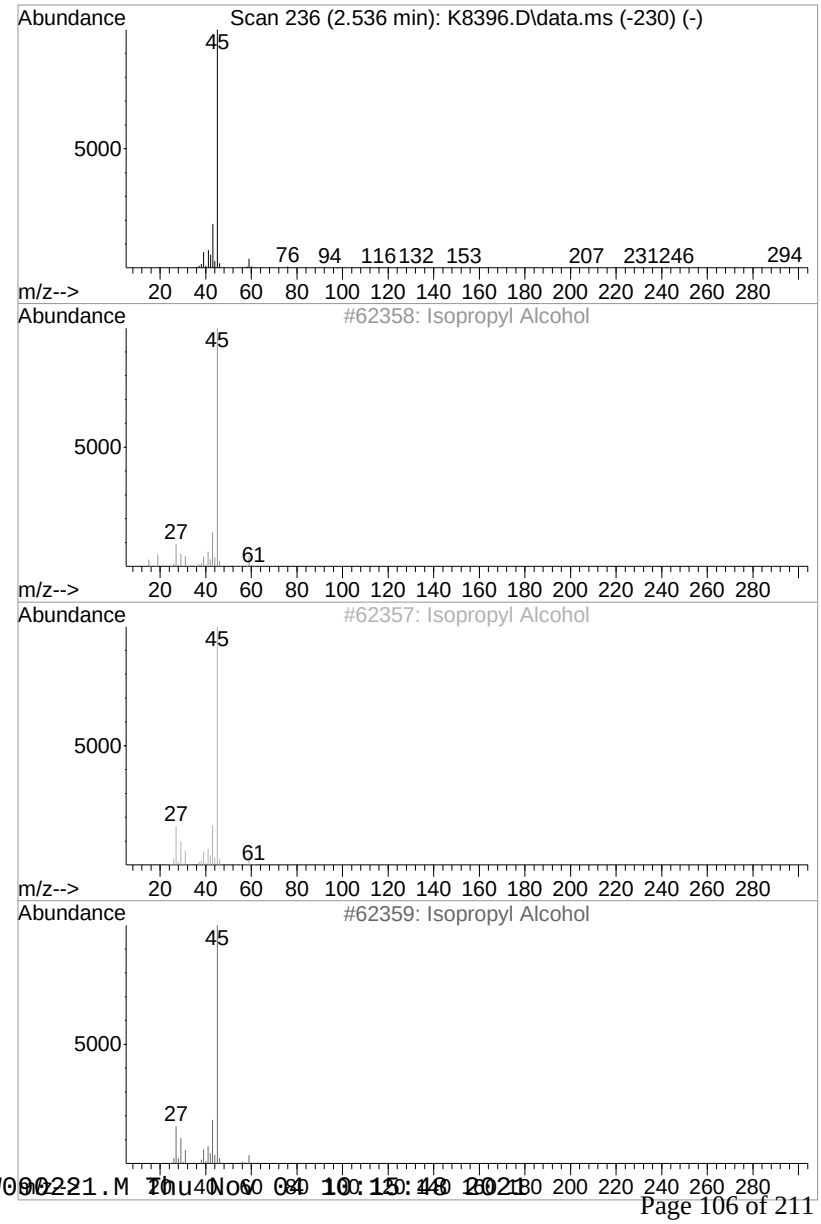
TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P

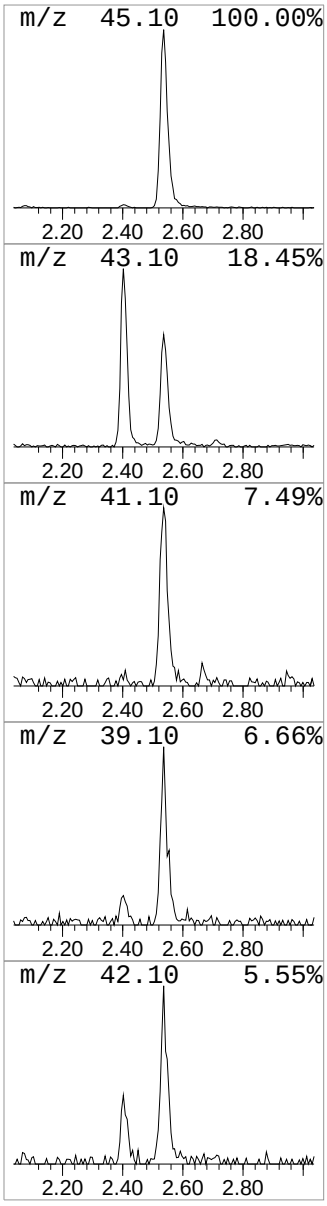
****

Peak Number 1 Isopropyl Alcohol Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.536	11.62 ppb	222600	Pentafluorobenzene	5.456

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Isopropyl Alcohol	60	C3H8O	000067-63-0	78
2	Isopropyl Alcohol	60	C3H8O	000067-63-0	64
3	Isopropyl Alcohol	60	C3H8O	000067-63-0	40
4	Propane, 2-ethoxy-	88	C5H12O	000625-54-7	40
5	Isopropyl Alcohol	60	C3H8O	000067-63-0	9





Tentatively Identified Compound (LSC) summary

Data Path : I:\ACQUDATA\msvoa12\Data\103021\
Data File : K8396.D
Acq On : 30 Oct 2021 8:57 pm
Operator : K.Ruest
Sample : R2111358-003|1.0 Inst : MSVOA-12
Misc : DAY 8260 T4
ALS Vial : 23 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge

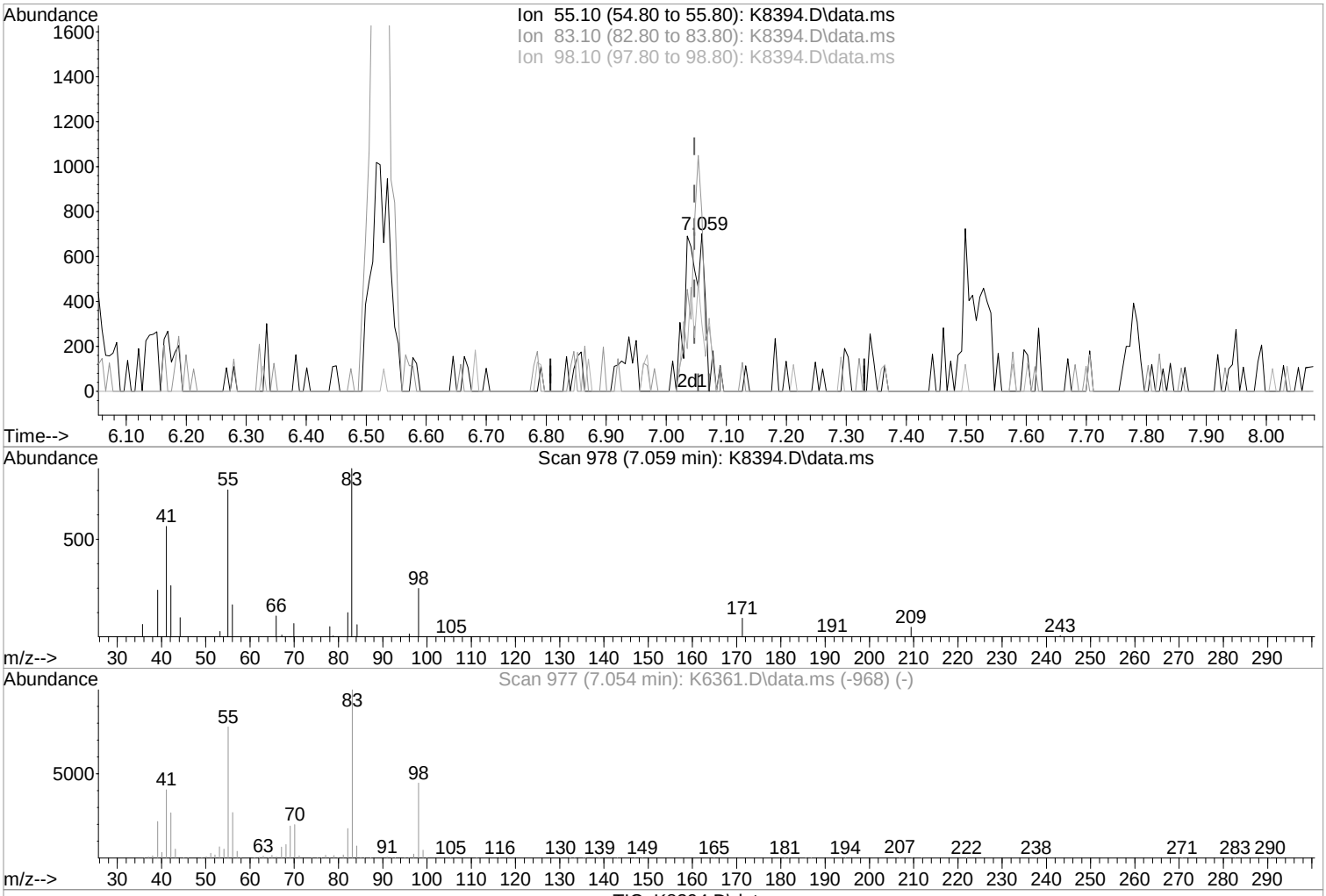
TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Isopropyl Alcohol	2.536	11.6	ppb	222600	1	5.456	958059	50.0

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\103021\
Data File : K8394.D
Acq On : 30 Oct 2021 8:13 pm
Operator : K.Ruest
Sample : R2111358-004|1.0 Inst : MSVOA-12
Misc : DAY 8260 T4
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Nov 01 11:12:15 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration



TIC: K8394.D\data.ms

(55) Methylcyclohexane (P)

7.059min (+0.012) 0.30 ppb m

response 1532

Ion	Exp%	Act%
55.10	100	100
83.10	128.10	112.54
98.10	57.00	42.59
0.00	0.00	0.00

Manual Integration:

After

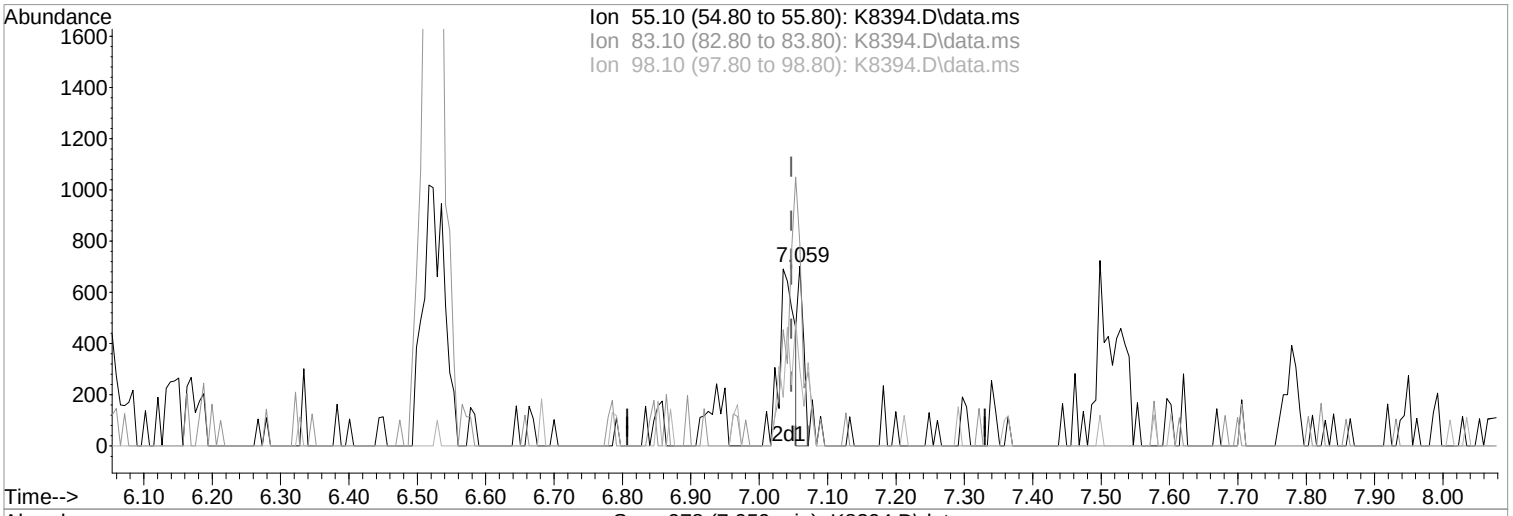
Split Peak

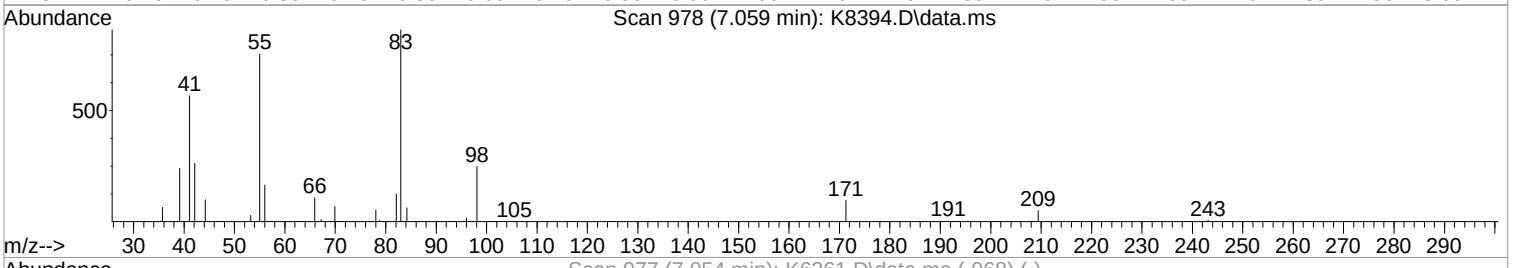
11/02/21

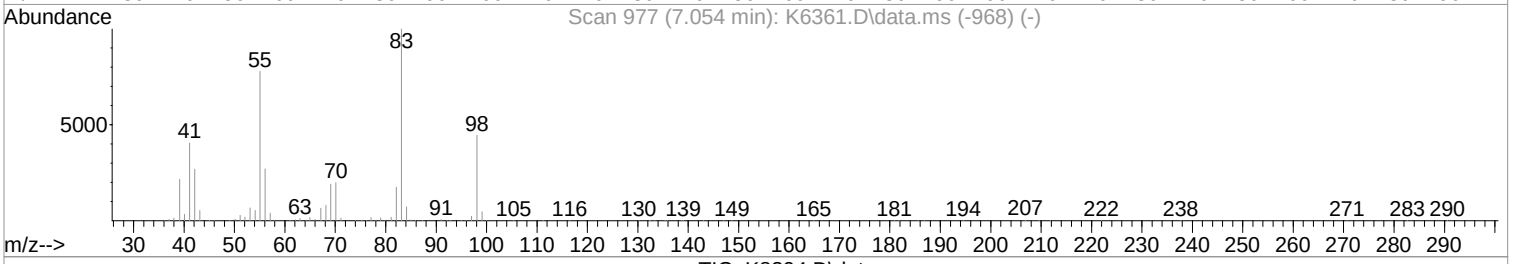
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\103021\
Data File : K8394.D
Acq On : 30 Oct 2021 8:13 pm
Operator : K.Ruest
Sample : R2111358-004|1.0 Inst : MSVOA-12
Misc : DAY 8260 T4
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Nov 01 11:12:15 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration







TIC: K8394.D\data.ms

(55) Methylcyclohexane (P)

7.059min (+0.012) 0.08 ppb

response 401

Ion	Exp%	Act%
55.10	100	100
83.10	128.10	112.54
98.10	57.00	42.59
0.00	0.00	0.00

Manual Integration:

Before

11/02/21

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\103021\
Data File : K8394.D
Acq On : 30 Oct 2021 8:13 pm
Operator : K.Ruest
Sample : R2111358-004|1.0 Inst : MSVOA-12
Misc : DAY 8260 T4
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Nov 04 10:12:48 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration

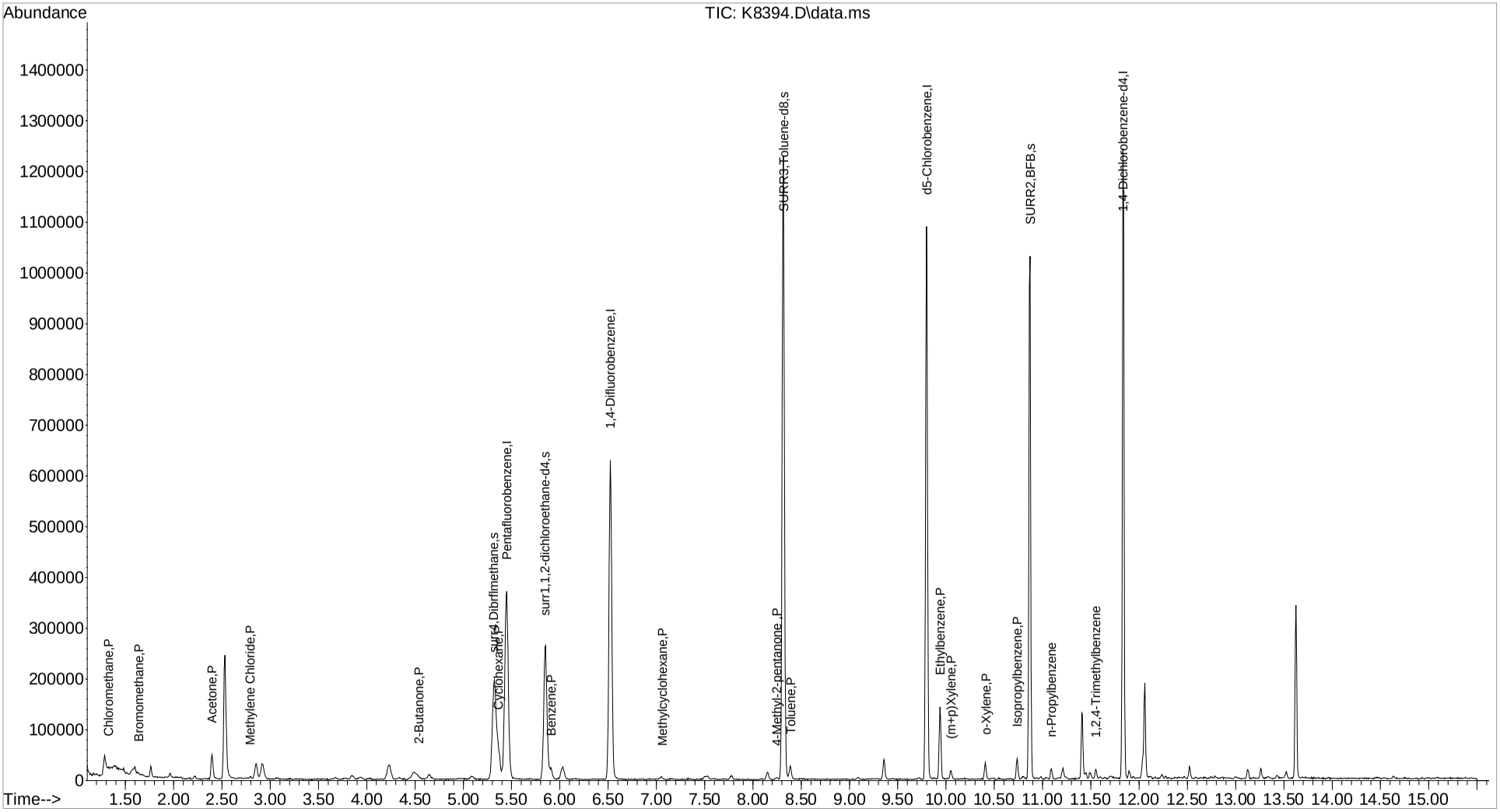
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.450	168	340546	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.523	114	557712	50.00	ppb		0.00
71) d5-Chlorobenzene	9.797	117	504843	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	11.833	152	243598	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.316	113	157396	51.84	ppb		0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 103.68%				
48) surr1,1,2-dichloroetha...	5.846	65	221739	50.23	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 100.46%				
65) SURR3,Toluene-d8	8.315	98	784499	54.97	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 109.94%				
70) SURR2,BFB	10.870	95	289103	51.03	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 102.06%				
Target Compounds							Qvalue
3) Chloromethane	1.323	50	1215	0.31	ppb		67
5) Bromomethane	1.634	94	1364	0.45	ppb	#	73
15) Acetone	2.396	43	44253	21.15	ppb		94
22) Methylene Chloride	2.792	84	1222	0.31	ppb	#	56
35) 2-Butanone	4.536	43	10049	3.42	ppb		92
44) Cyclohexane	5.359	41	19870	5.38	ppb		99
49) Benzene	5.907	78	18838	1.19	ppb		89
55) Methylcyclohexane	7.059	55	1532m	0.30	ppb		
64) 4-Methyl-2-pentanone	8.242	43	1671	0.31	ppb		73
66) Toluene	8.389	91	15548	0.92	ppb		93
82) Ethylbenzene	9.937	106	26898	4.54	ppb	#	91
83) (m+p)Xylene	10.053	106	4189	0.59	ppb	#	77
84) o-Xylene	10.413	106	7223	1.02	ppb	#	72
89) Isopropylbenzene	10.736	105	20762	1.26	ppb		96
95) n-Propylbenzene	11.089	91	12036	0.58	ppb		97
101) 1,2,4-Trimethylbenzene	11.553	105	7963	0.52	ppb		94

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

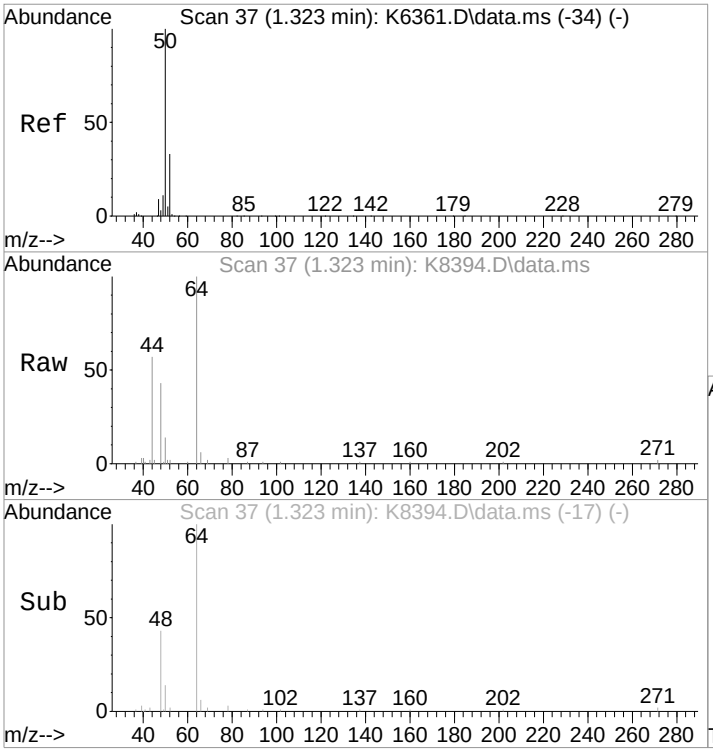
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\103021\
Data File : K8394.D
Acq On : 30 Oct 2021 8:13 pm
Operator : K.Ruest
Sample : R2111358-004|1.0 Inst : MSVOA-12
Misc : DAY 8260 T4
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Nov 04 10:12:48 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration



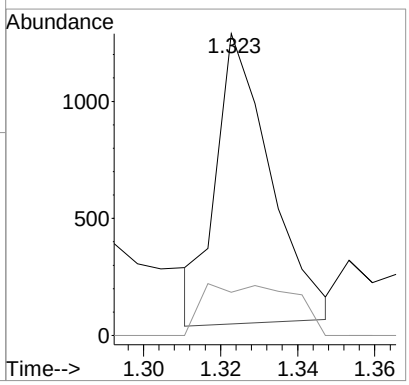
1st 11/02/21
2nd 11/02/21

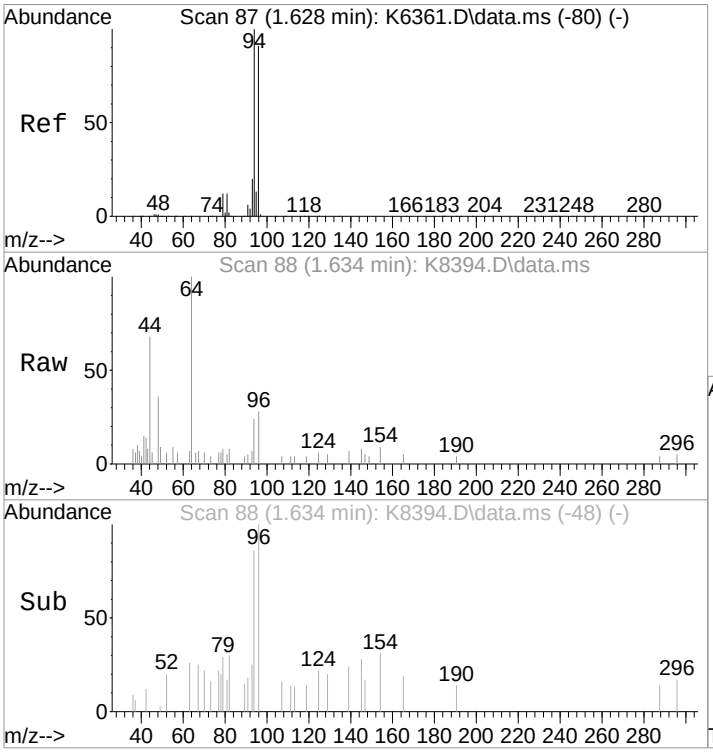


#3
Chloromethane
Concen: 0.31 ppb
RT: 1.323 min Scan# 37
Delta R.T. 0.006 min
Lab File: K8394.D
Acq: 30 Oct 2021 8:13 pm

Tgt Ion: 50 Resp: 1215

Ion	Ratio	Lower	Upper
50	100		
52	14.3	12.7	52.7

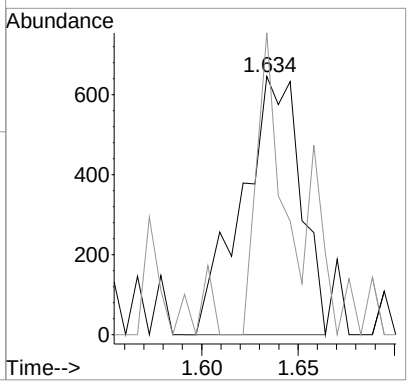


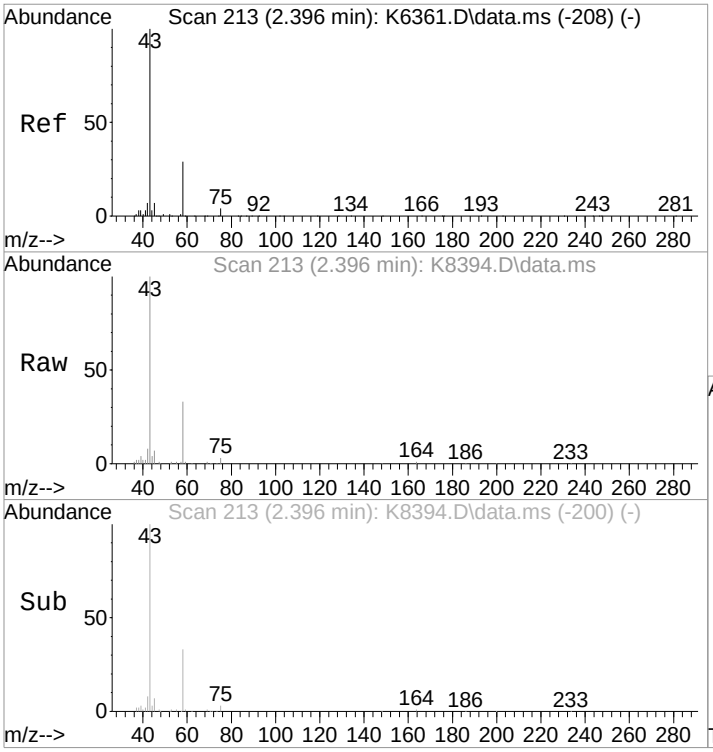


#5
Bromomethane
Concen: 0.45 ppb
RT: 1.634 min Scan# 88
Delta R.T. 0.018 min
Lab File: K8394.D
Acq: 30 Oct 2021 8:13 pm

Tgt Ion: 94 Resp: 1364

Ion	Ratio	Lower	Upper
94	100		
96	116.9	71.0	111.0#

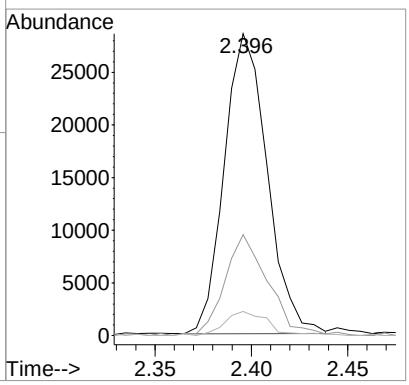


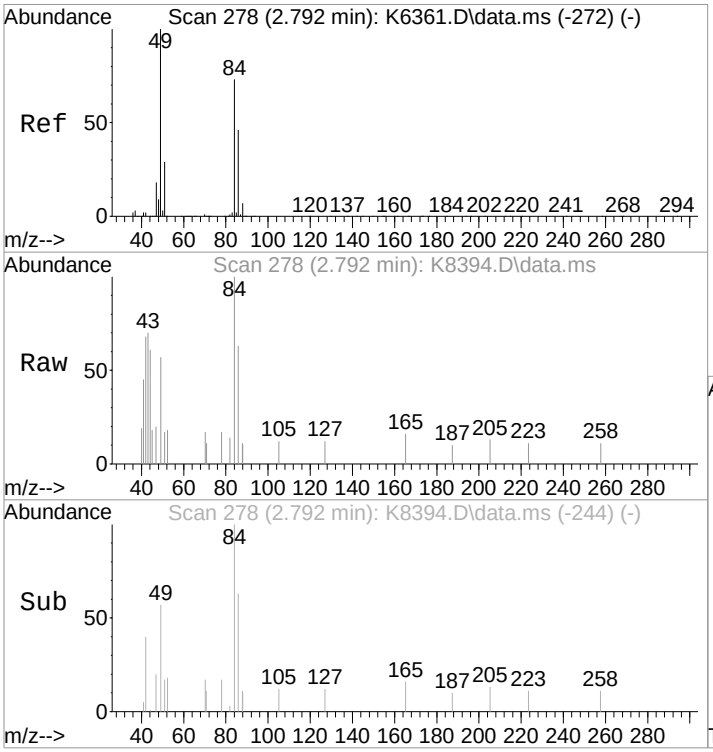


#15
Acetone
Concen: 21.15 ppb
RT: 2.396 min Scan# 213
Delta R.T. 0.007 min
Lab File: K8394.D
Acq: 30 Oct 2021 8:13 pm

Tgt Ion: 43 Resp: 44253

Ion	Ratio	Lower	Upper
43	100		
58	33.4	9.6	49.6
42	8.0	0.0	27.7

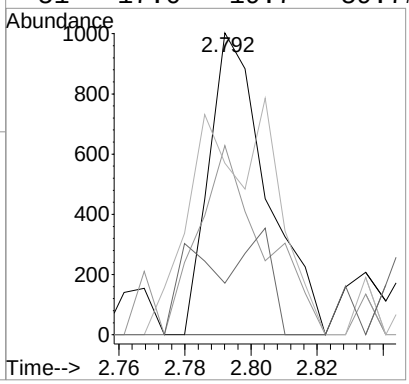


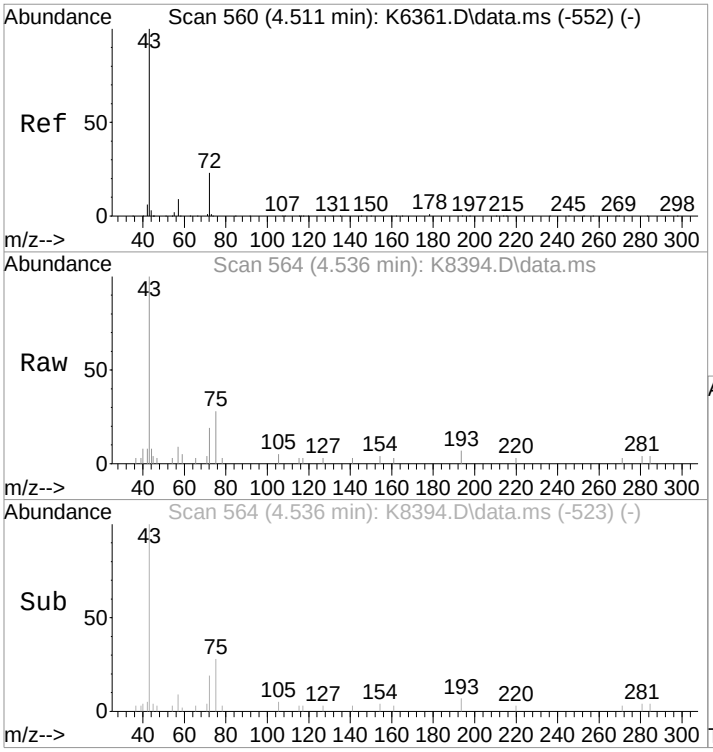


#22
Methylene Chloride
Concen: 0.31 ppb
RT: 2.792 min Scan# 278
Delta R.T. 0.006 min
Lab File: K8394.D
Acq: 30 Oct 2021 8:13 pm

Tgt Ion: 84 Resp: 1222

Ion	Ratio	Lower	Upper
84	100		
86	62.6	42.7	82.7
49	56.8	116.5	156.5#
51	17.0	19.7	59.7#

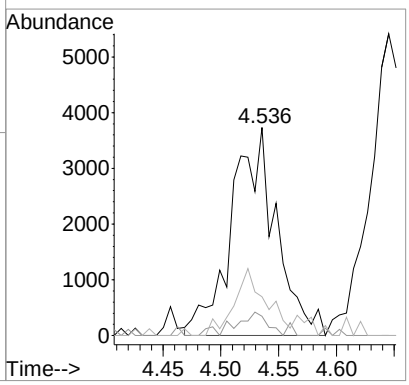


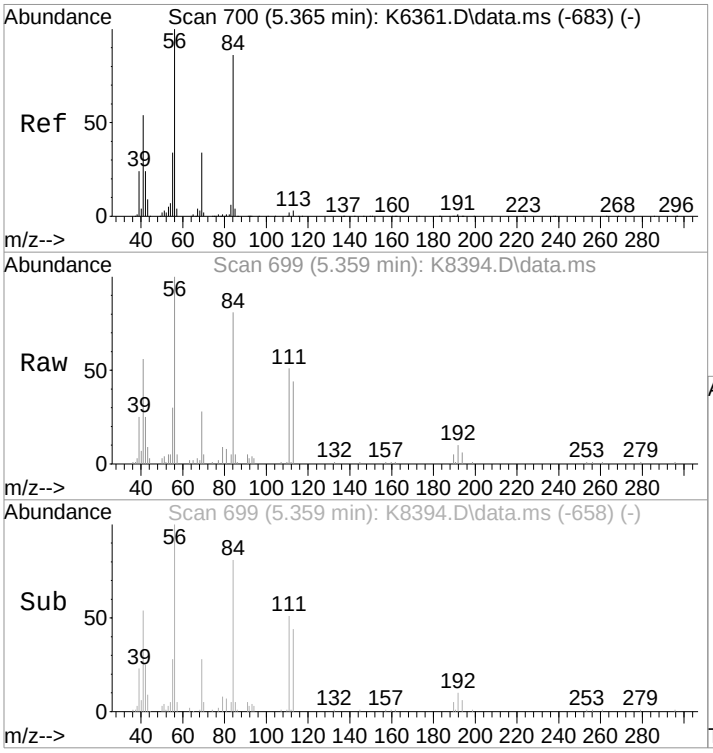


#35
2-Butanone
Concen: 3.42 ppb
RT: 4.536 min Scan# 564
Delta R.T. 0.024 min
Lab File: K8394.D
Acq: 30 Oct 2021 8:13 pm

Tgt Ion: 43 Resp: 10049

Ion	Ratio	Lower	Upper
43	100		
57	9.3	0.0	28.6
72	18.6	3.4	43.4

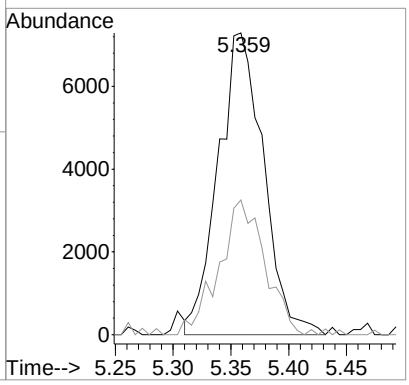


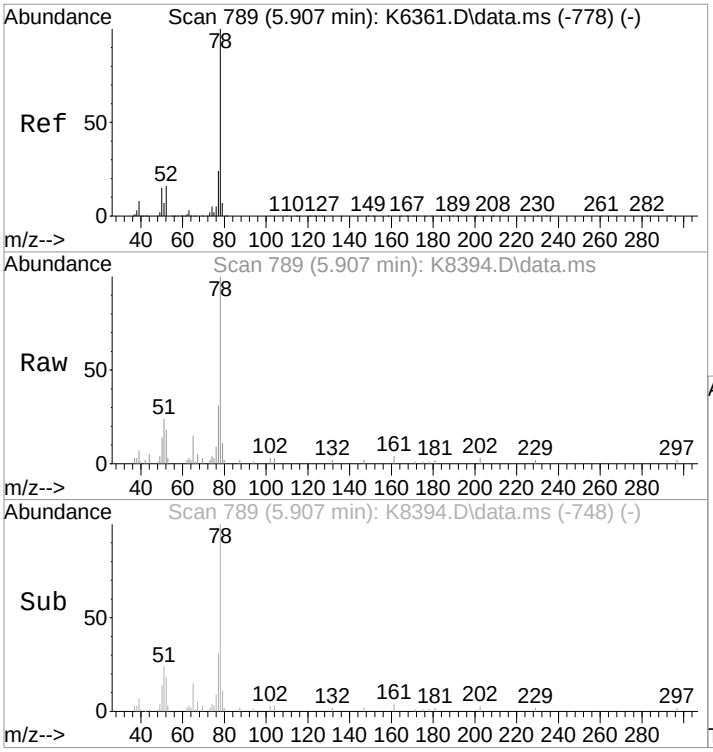


#44
Cyclohexane
Concen: 5.38 ppb
RT: 5.359 min Scan# 699
Delta R.T. -0.000 min
Lab File: K8394.D
Acq: 30 Oct 2021 8:13 pm

Tgt Ion: 41 Resp: 19870

Ion	Ratio	Lower	Upper
41	100		
39	44.6	25.2	65.2

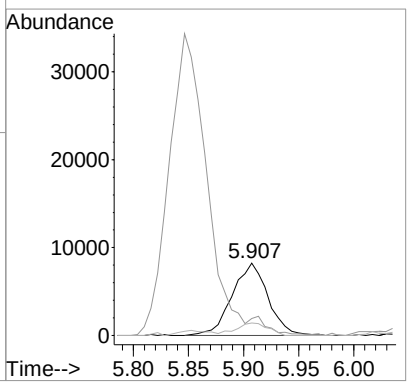


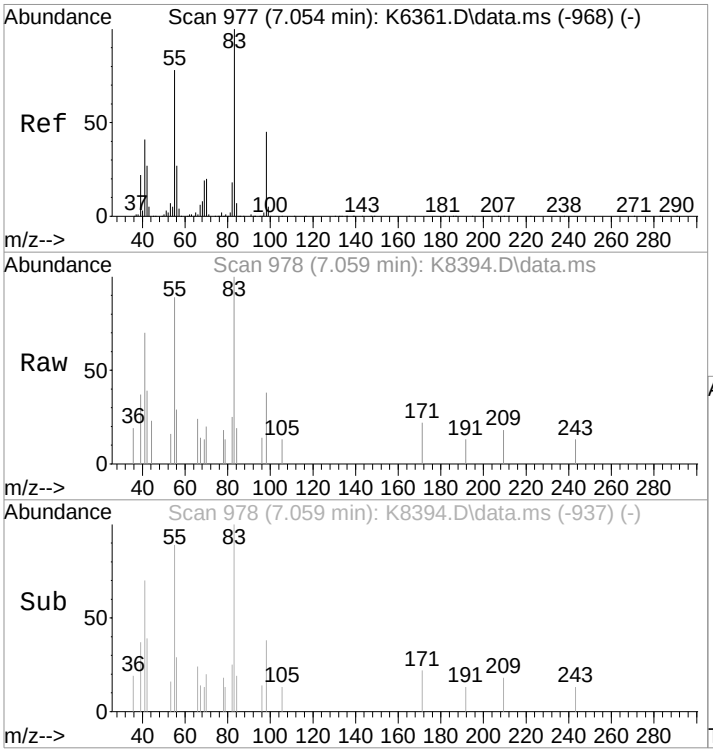


#49
Benzene
Concen: 1.19 ppb
RT: 5.907 min Scan# 789
Delta R.T. 0.006 min
Lab File: K8394.D
Acq: 30 Oct 2021 8:13 pm

Tgt Ion: 78 Resp: 18838

Ion	Ratio	Lower	Upper
78	100		
51	23.6	0.0	35.9
52	17.5	0.0	36.2

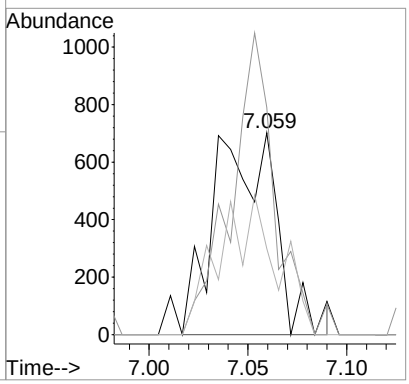


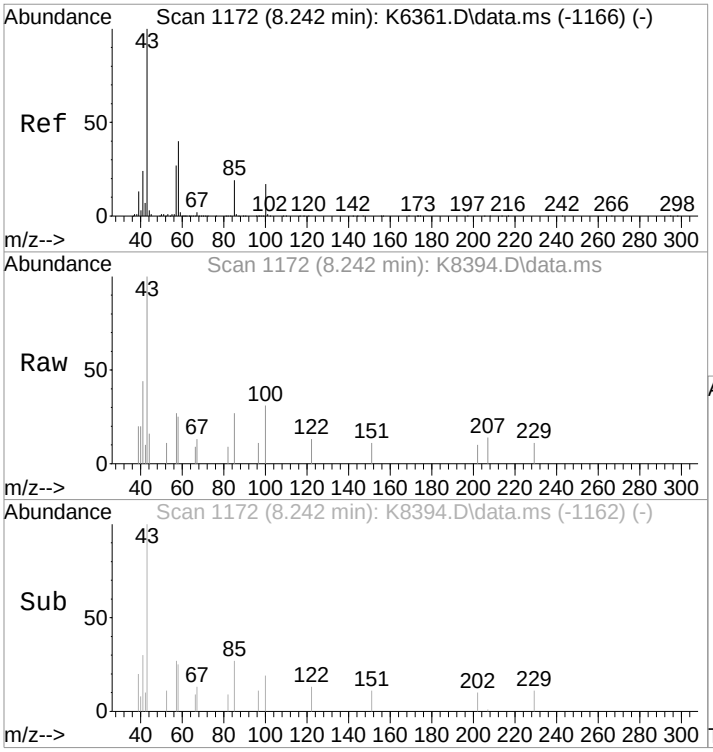


#55
Methylcyclohexane
Concen: 0.30 ppb m
RT: 7.059 min Scan# 978
Delta R.T. 0.012 min
Lab File: K8394.D
Acq: 30 Oct 2021 8:13 pm

Tgt Ion: 55 Resp: 1532

Ion	Ratio	Lower	Upper
55	100		
83	112.5	108.1	148.1
98	42.6	37.0	77.0

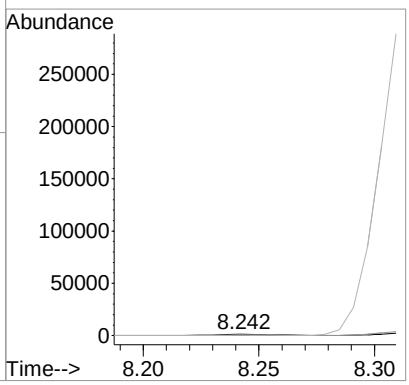


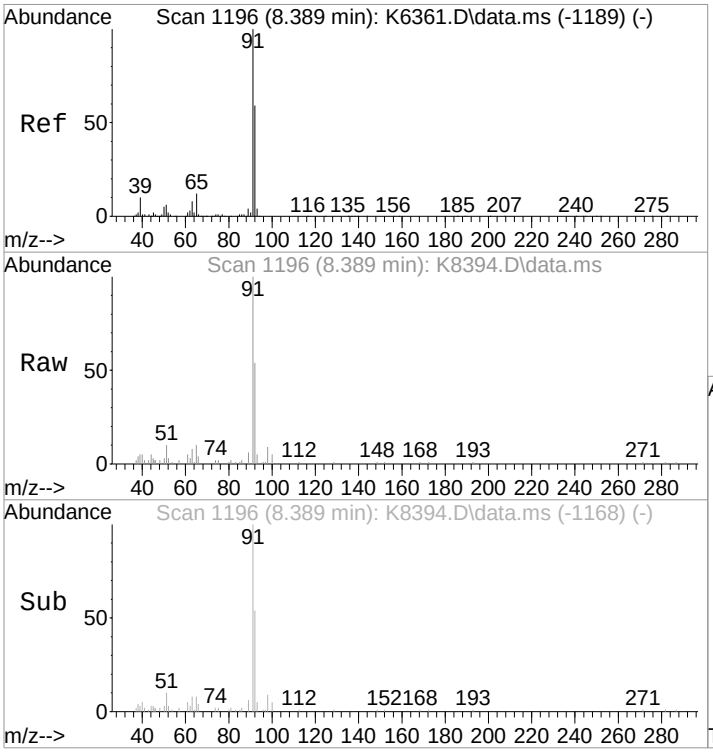


#64
4-Methyl-2-pentanone
Concen: 0.31 ppb
RT: 8.242 min Scan# 1172
Delta R.T. -0.000 min
Lab File: K8394.D
Acq: 30 Oct 2021 8:13 pm

Tgt Ion: 43 Resp: 1671

Ion	Ratio	Lower	Upper
43	100		
58	24.8	20.2	60.2
100	30.5	0.0	36.8

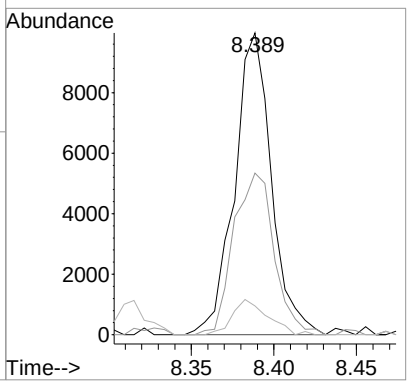


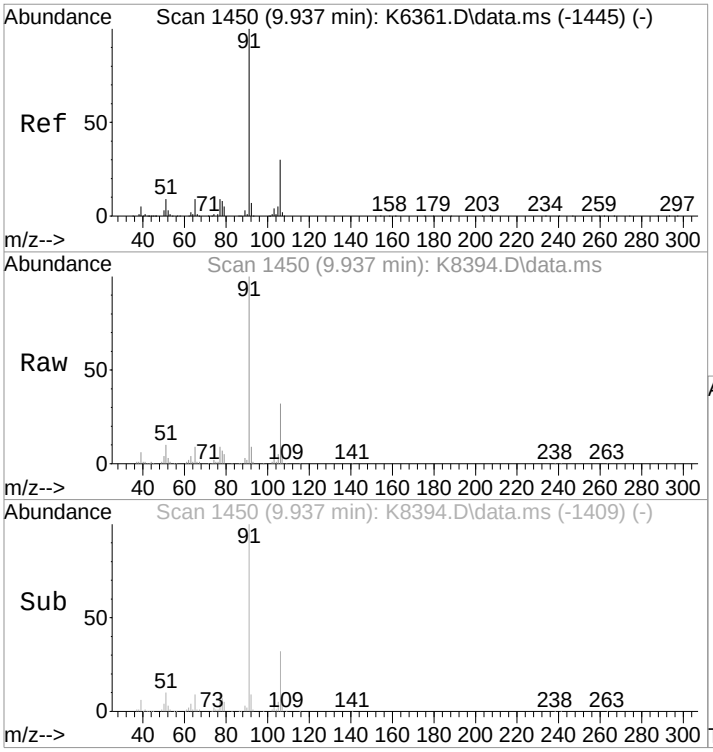


#66
Toluene
Concen: 0.92 ppb
RT: 8.389 min Scan# 1196
Delta R.T. -0.000 min
Lab File: K8394.D
Acq: 30 Oct 2021 8:13 pm

Tgt Ion: 91 Resp: 15548

Ion	Ratio	Lower	Upper
91	100		
92	53.6	38.7	78.7
65	9.5	0.0	31.8

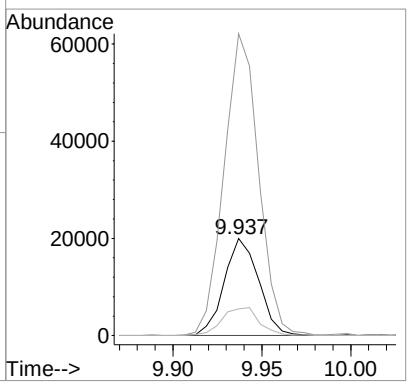


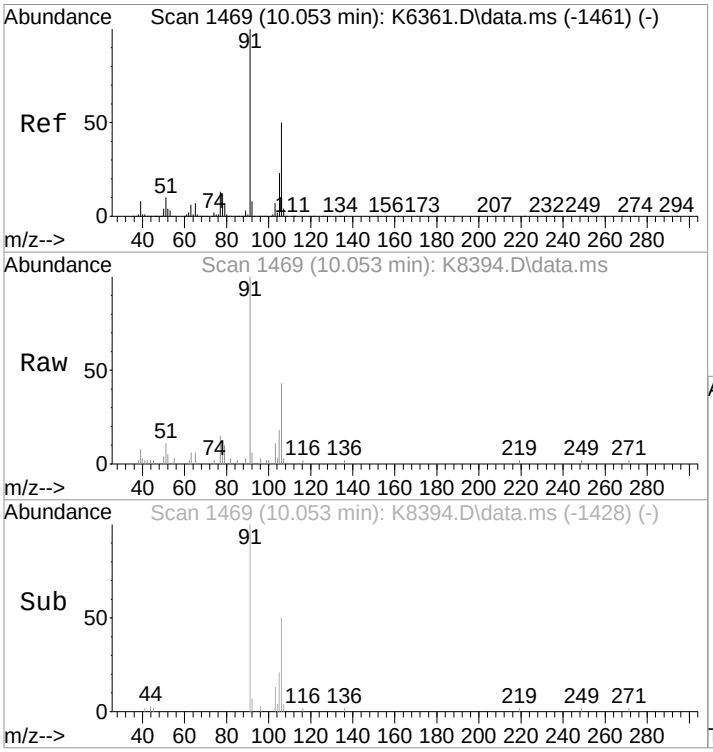


#82
Ethylbenzene
Concen: 4.54 ppb
RT: 9.937 min Scan# 1450
Delta R.T. -0.000 min
Lab File: K8394.D
Acq: 30 Oct 2021 8:13 pm

Tgt Ion:106 Resp: 26898

Ion	Ratio	Lower	Upper
106	100		
91	311.2	311.3	351.3#
65	27.5	9.9	49.9

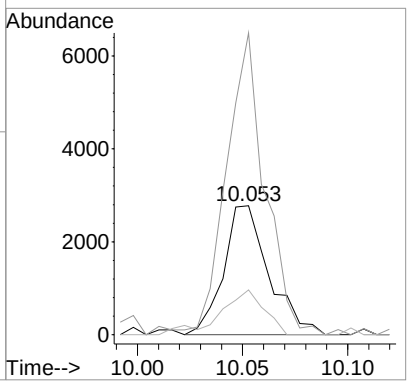


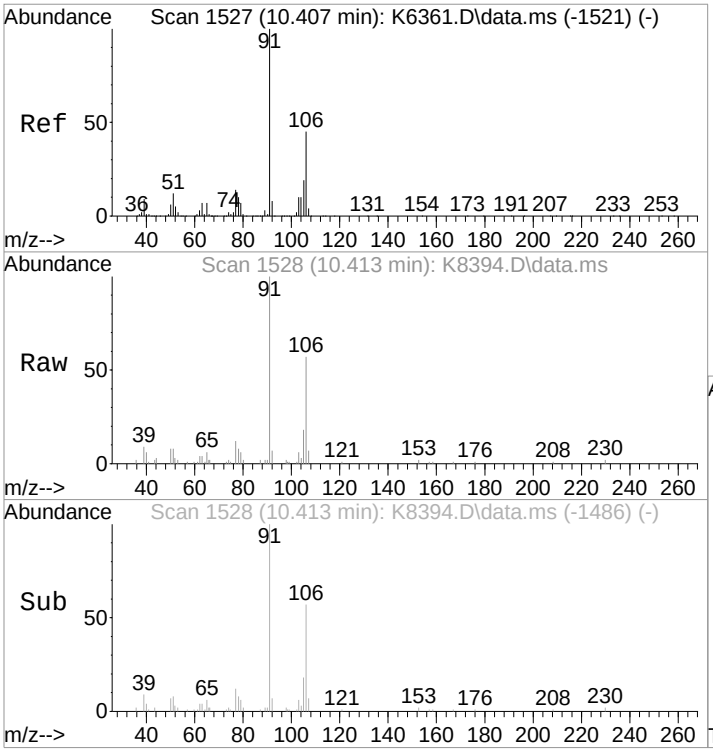


#83
(m+p)Xylene
Concen: 0.59 ppb
RT: 10.053 min Scan# 1469
Delta R.T. -0.000 min
Lab File: K8394.D
Acq: 30 Oct 2021 8:13 pm

Tgt Ion:106 Resp: 4189

Ion	Ratio	Lower	Upper
106	100		
91	234.0	178.8	218.8#
77	34.7	5.9	45.9

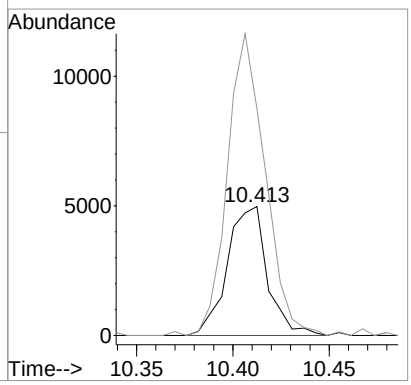


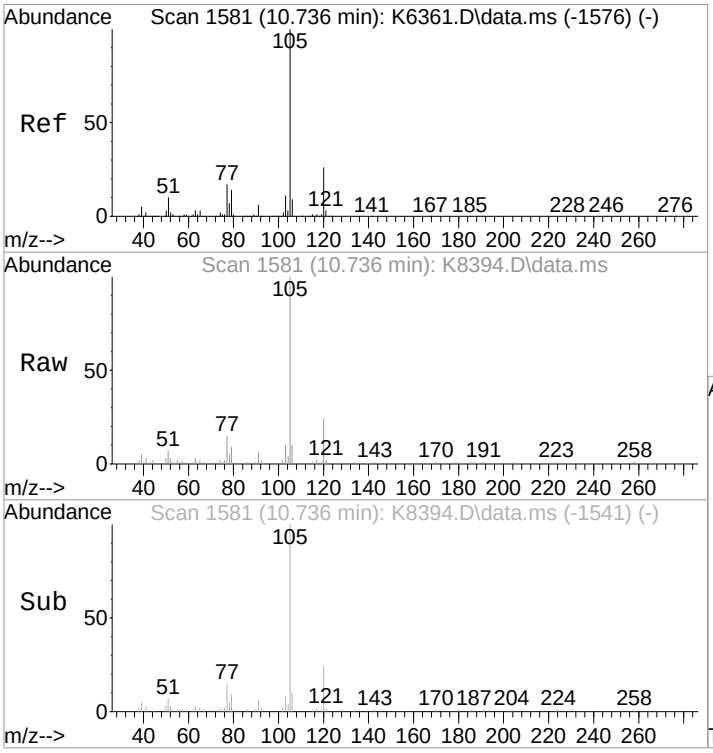


#84
o-Xylene
Concen: 1.02 ppb
RT: 10.413 min Scan# 1528
Delta R.T. 0.006 min
Lab File: K8394.D
Acq: 30 Oct 2021 8:13 pm

Tgt Ion:106 Resp: 7223

Ion	Ratio	Lower	Upper
106	100		
91	175.6	200.6	240.6#

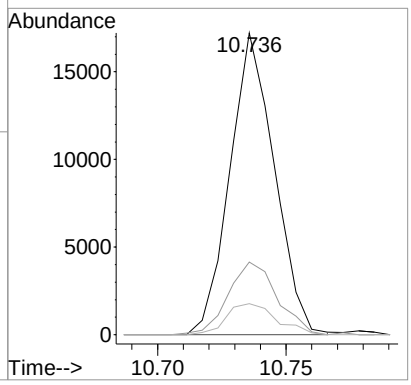


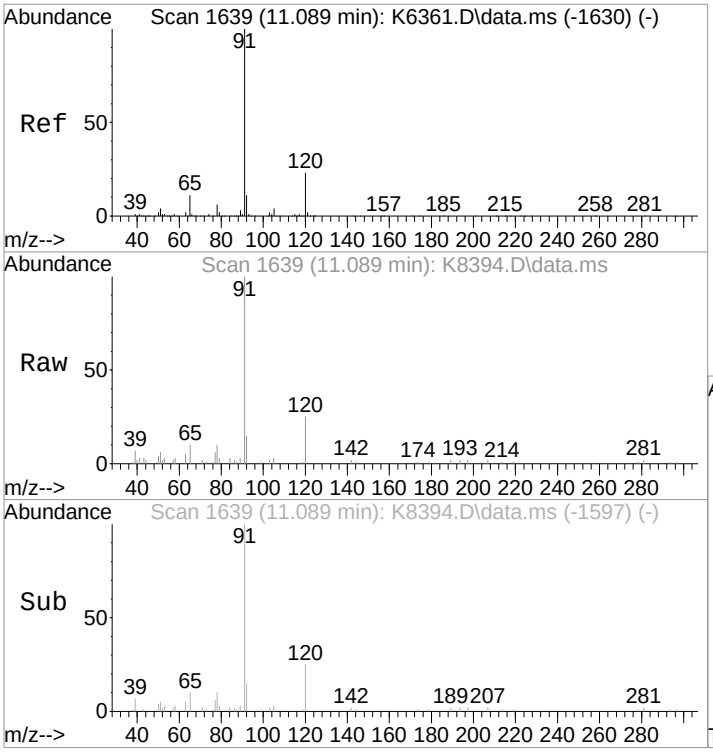


#89
Isopropylbenzene
Concen: 1.26 ppb
RT: 10.736 min Scan# 1581
Delta R.T. -0.000 min
Lab File: K8394.D
Acq: 30 Oct 2021 8:13 pm

Tgt Ion:105 Resp: 20762

Ion	Ratio	Lower	Upper
105	100		
120	24.1	6.5	46.5
106	10.3	0.0	29.3

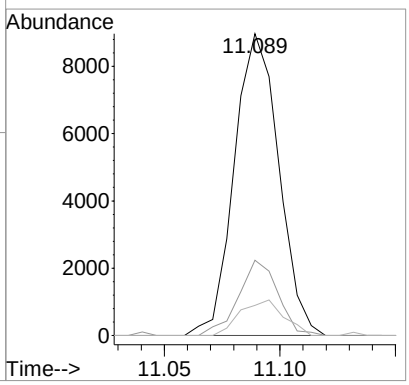


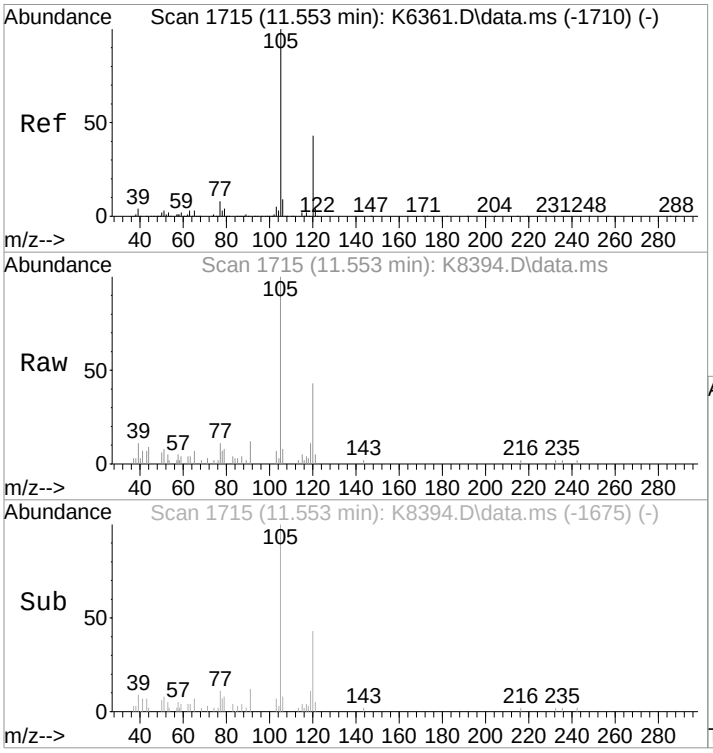


#95
n-Propylbenzene
Concen: 0.58 ppb
RT: 11.089 min Scan# 1639
Delta R.T. -0.006 min
Lab File: K8394.D
Acq: 30 Oct 2021 8:13 pm

Tgt Ion: 91 Resp: 12036

Ion	Ratio	Lower	Upper
91	100		
120	24.9	3.5	43.5
65	10.0	0.0	30.8

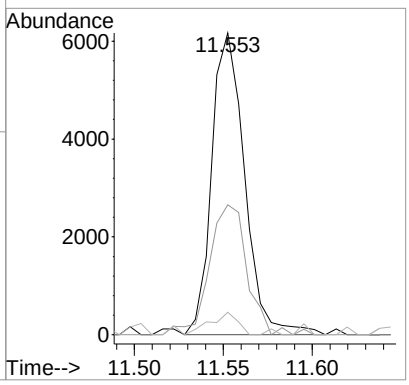




#101
1,2,4-Trimethylbenzene
Concen: 0.52 ppb
RT: 11.553 min Scan# 1715
Delta R.T. -0.000 min
Lab File: K8394.D
Acq: 30 Oct 2021 8:13 pm

Tgt Ion:105 Resp: 7963

Ion	Ratio	Lower	Upper
105	100		
120	43.1	26.7	66.7
65	7.5	0.0	24.7



1st 11/04/21
2nd 11/04/21

LSC Area Percent Report

Data Path : I:\ACQUDATA\msvoa12\Data\103021\
Data File : K8394.D
Acq On : 30 Oct 2021 8:13 pm
Operator : K.Ruest
Sample : R2111358-004|1.0 Inst : MSVOA-12
Misc : DAY 8260 T4
ALS Vial : 21 Sample Multiplier: 1

Integration Parameters: INTP90.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 500 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0.1 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Title : MS#12 - 8260B WATERS 10mL Purge

Signal : TIC: K8394.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.286	24	31	35	rBV3	39466	73692	3.67%	0.594%
2	1.597	73	82	85	rBV10	13863	31287	1.56%	0.252%
3	1.762	105	109	115	rVB2	21832	25949	1.29%	0.209%
4	2.396	209	213	224	rBV	48025	77409	3.86%	0.624%
5	2.530	226	235	247	rBV	244233	437963	21.84%	3.533%
6	2.853	282	288	293	rBV3	28880	54144	2.70%	0.437%
7	2.914	293	298	307	rVB2	29968	70837	3.53%	0.571%
8	4.237	504	515	522	rBV2	28543	83236	4.15%	0.671%
9	4.487	545	556	565	rBV3	14609	61254	3.05%	0.494%
10	4.645	574	582	592	rBV3	9677	25437	1.27%	0.205%
11	5.322	681	693	705	rBV3	196903	677190	33.76%	5.463%
12	5.450	705	714	724	rVB	368899	958332	47.78%	7.730%
13	5.852	771	780	788	rBV	263003	628840	31.35%	5.073%
14	6.029	803	809	821	rVB3	24906	62109	3.10%	0.501%
15	6.523	880	890	902	rBV	629477	1274434	63.54%	10.280%
16	8.151	1151	1157	1167	rVB4	14777	27519	1.37%	0.222%
17	8.315	1176	1184	1192	rBV	1228660	2005611	100.00%	16.178%
18	8.389	1192	1196	1203	rVB	25910	40843	2.04%	0.329%
19	9.358	1348	1355	1365	rBV2	39251	62725	3.13%	0.506%
20	9.797	1421	1427	1437	rBV	1089983	1515008	75.54%	12.221%
21	9.937	1446	1450	1459	rVB	142386	196005	9.77%	1.581%
22	10.053	1463	1469	1476	rVB	17755	29592	1.48%	0.239%
23	10.406	1523	1527	1534	rBV2	32903	45468	2.27%	0.367%
24	10.736	1575	1581	1586	rBV	41361	56218	2.80%	0.453%
25	10.870	1597	1603	1611	rBV	1029714	1323836	66.01%	10.679%
26	11.089	1635	1639	1643	rBV	20033	26439	1.32%	0.213%
27	11.211	1655	1659	1670	rVB5	22185	40716	2.03%	0.328%
28	11.406	1687	1691	1696	rBV	128814	170918	8.52%	1.379%
29	11.553	1711	1715	1719	rBV2	18007	22822	1.14%	0.184%
30	11.833	1755	1761	1768	rBV	1242101	1530276	76.30%	12.344%
31	12.059	1790	1798	1804	rBV2	187967	264905	13.21%	2.137%
32	12.522	1870	1874	1880	rBV2	23470	29357	1.46%	0.237%
33	13.125	1968	1973	1977	rVB2	17926	27003	1.35%	0.218%
34	13.260	1991	1995	2000	rBV4	19743	24457	1.22%	0.197%
35	13.625	2049	2055	2063	rBV	341587	414956	20.69%	3.347%

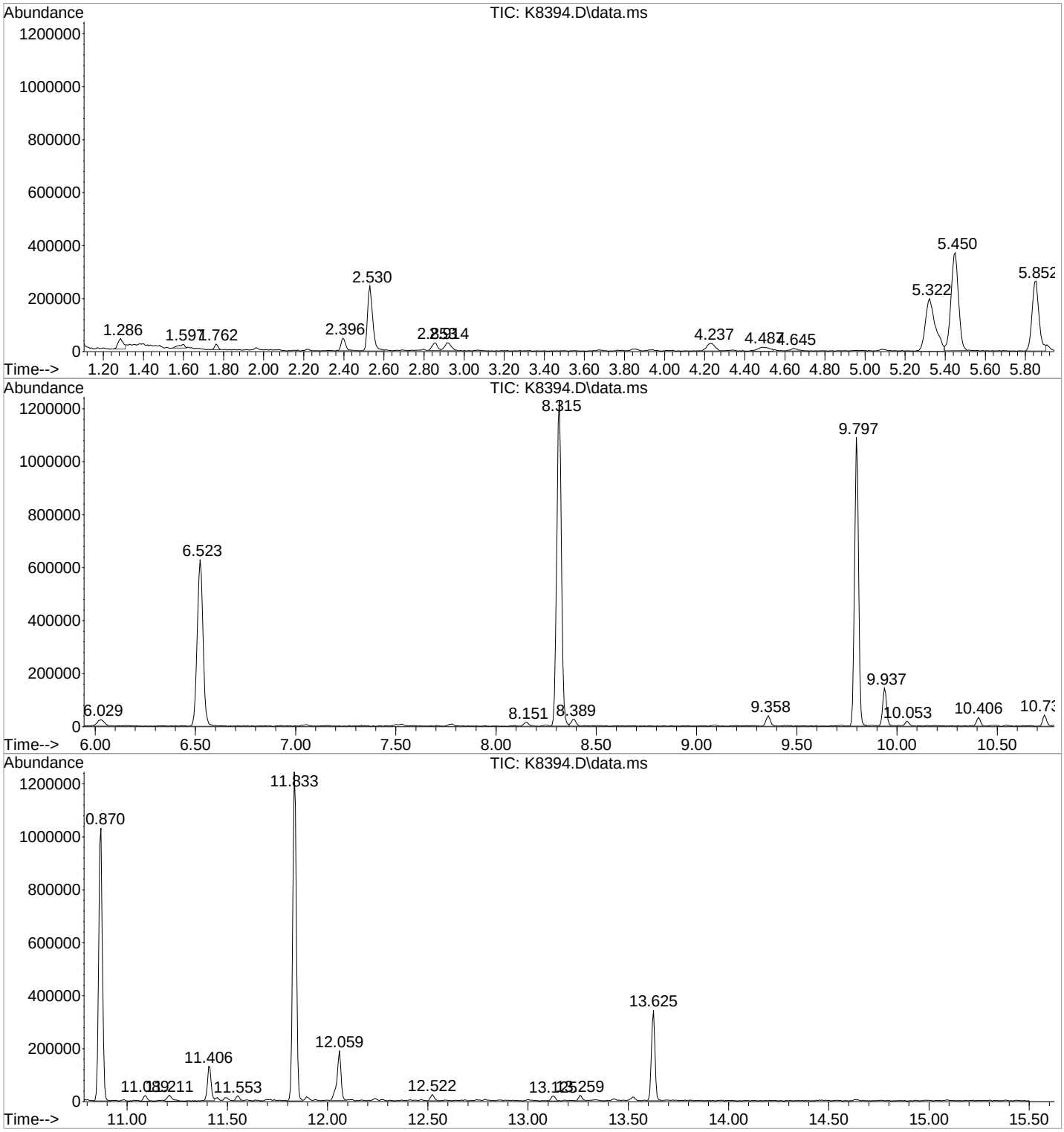
Sum of corrected areas: 12396787

LSC Report - Integrated Chromatogram

Data Path : I:\ACQUDATA\msvoa12\Data\103021\
Data File : K8394.D
Acq On : 30 Oct 2021 8:13 pm
Operator : K.Ruest
Sample : R2111358-004|1.0 Inst : MSVOA-12
Misc : DAY 8260 T4
ALS Vial : 21 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa12\Data\103021\
Data File : K8394.D
Acq On : 30 Oct 2021 8:13 pm
Operator : K.Ruest
Sample : R2111358-004|1.0 Inst : MSVOA-12
Misc : DAY 8260 T4
ALS Vial : 21 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge

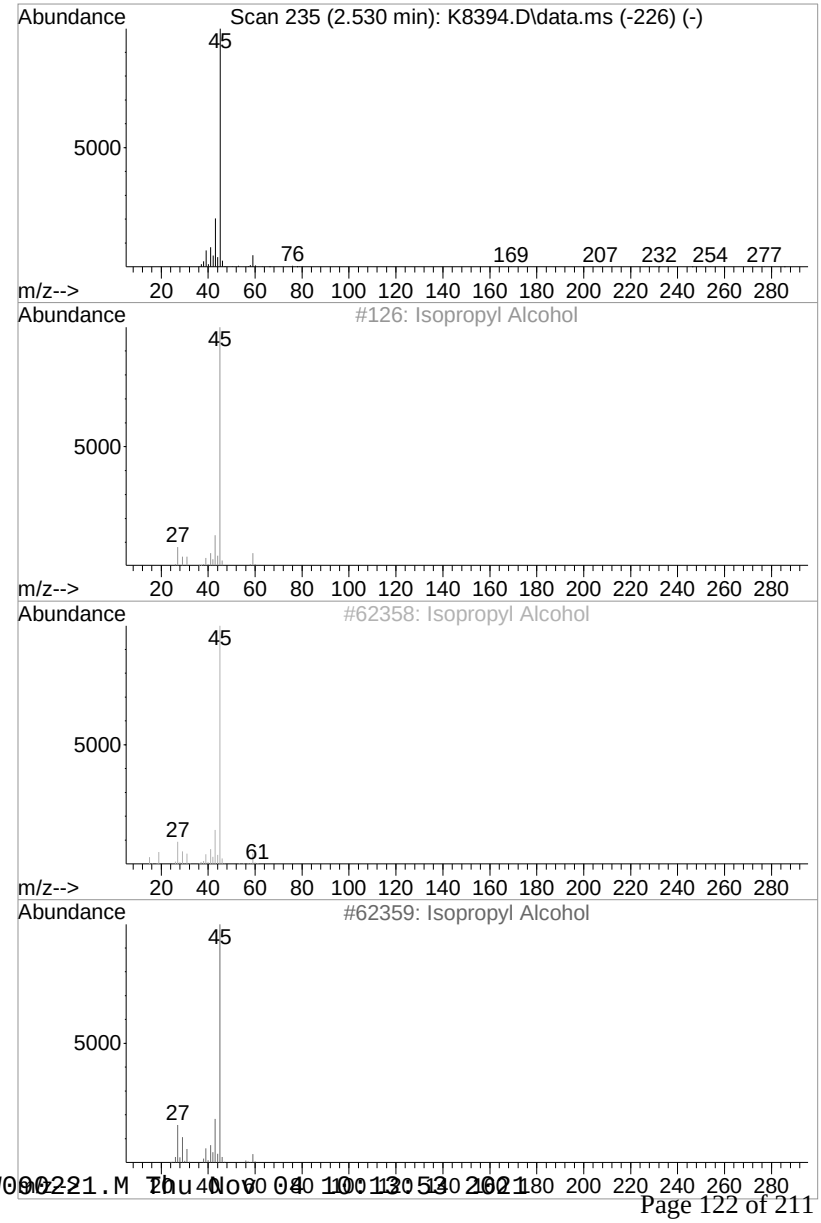
TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P

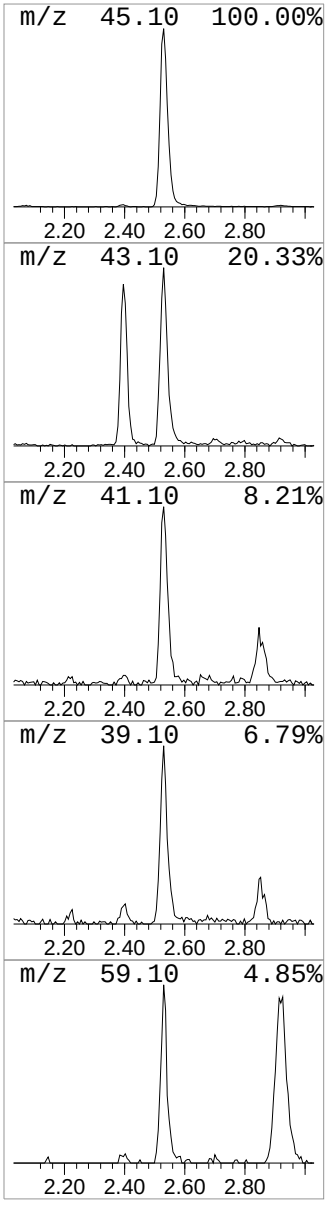
****

Peak Number 1 Isopropyl Alcohol Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.530	22.85 ppb	437963	Pentafluorobenzene	5.450

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Isopropyl Alcohol	60	C3H8O	000067-63-0	86
2	Isopropyl Alcohol	60	C3H8O	000067-63-0	86
3	Isopropyl Alcohol	60	C3H8O	000067-63-0	78
4	Isopropyl Alcohol	60	C3H8O	000067-63-0	64
5	Isopropyl Alcohol	60	C3H8O	000067-63-0	64





Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa12\Data\103021\
Data File : K8394.D
Acq On : 30 Oct 2021 8:13 pm
Operator : K.Ruest
Sample : R2111358-004|1.0 Inst : MSVOA-12
Misc : DAY 8260 T4
ALS Vial : 21 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge

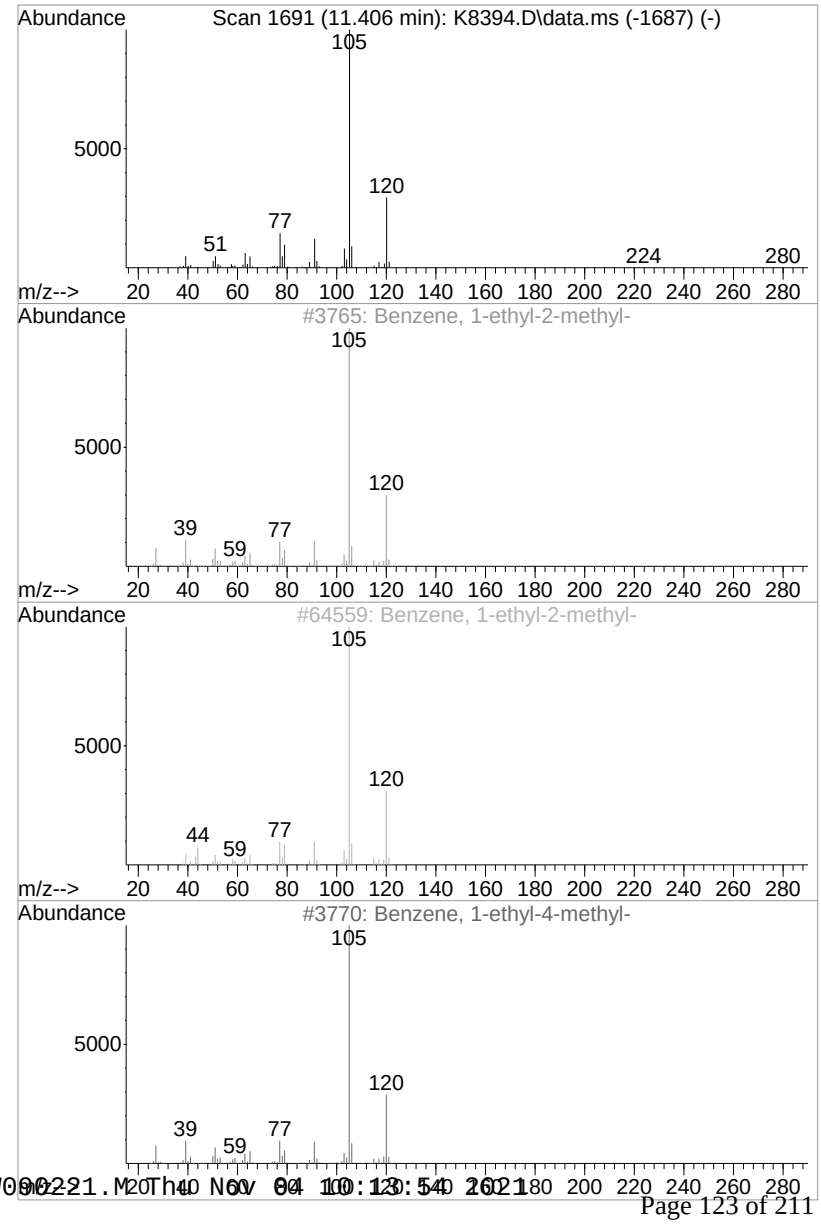
TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P

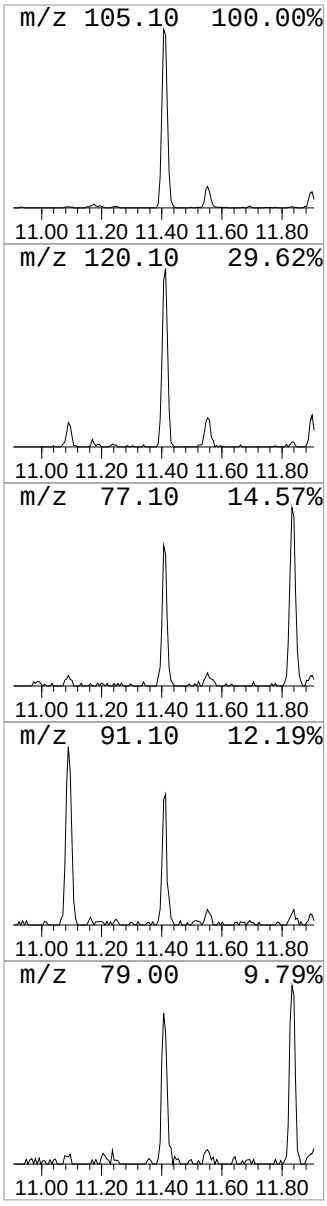
****

Peak Number 2 Benzene, 1-ethyl-2-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.406	5.58 ppb	170918	1,4-Dichlorobenzene-d4	11.833

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	95
2	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	95
3	Benzene, 1-ethyl-4-methyl-	120	C9H12	000622-96-8	94
4	Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	91
5	Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	91





Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa12\Data\103021\
Data File : K8394.D
Acq On : 30 Oct 2021 8:13 pm
Operator : K.Ruest
Sample : R2111358-004|1.0 Inst : MSVOA-12
Misc : DAY 8260 T4
ALS Vial : 21 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge

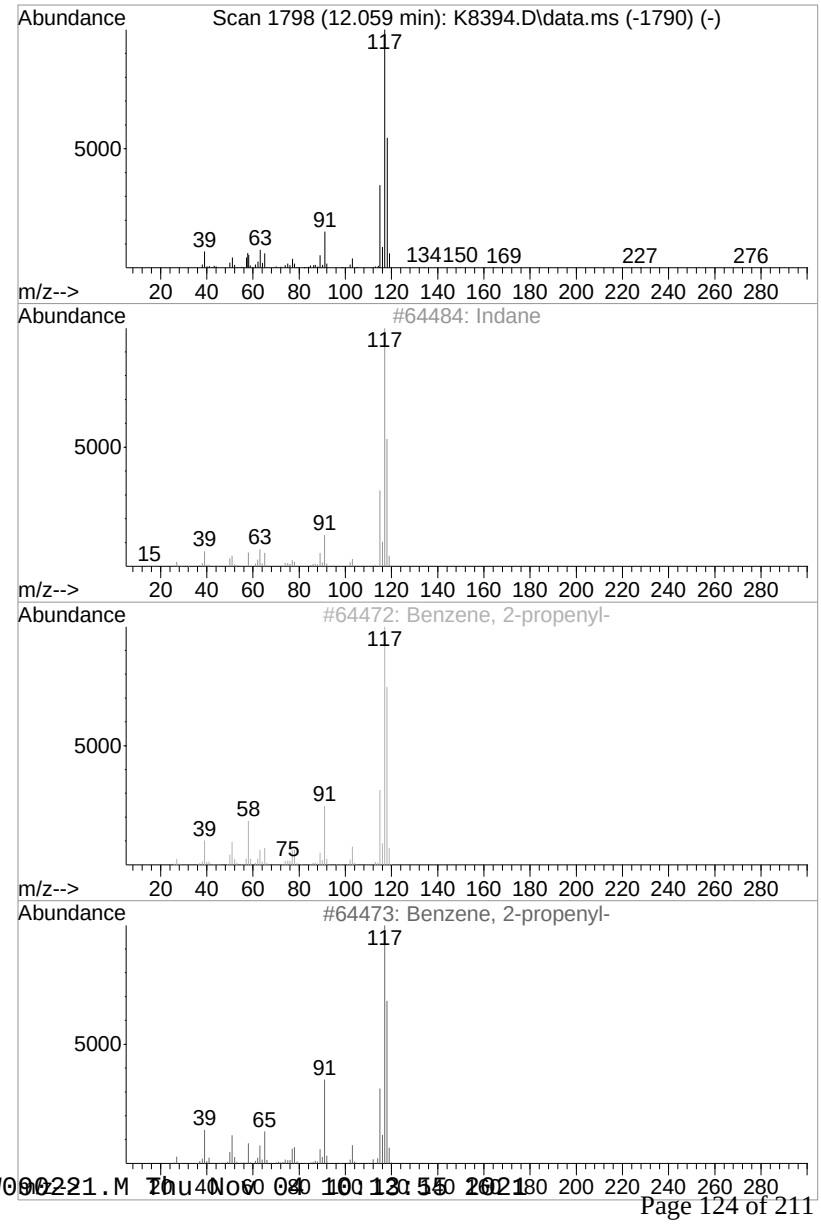
TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P

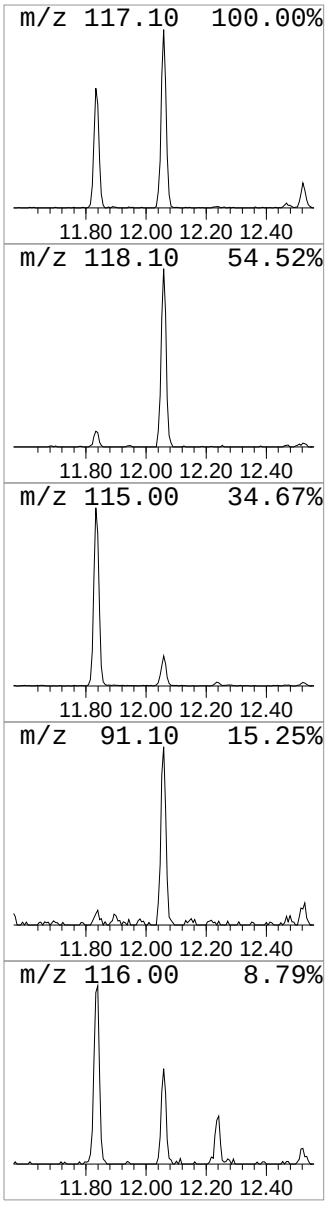
****

Peak Number 3 Indane Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.059	8.66 ppb	264905	1,4-Dichlorobenzene-d4	11.833

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indane	118	C9H10	000496-11-7	95
2	Benzene, 2-propenyl-	118	C9H10	000300-57-2	87
3	Benzene, 2-propenyl-	118	C9H10	000300-57-2	81
4	Benzene, 1-ethenyl-2-methyl-	118	C9H10	000611-15-4	74
5	Benzene, 1-propenyl-	118	C9H10	000637-50-3	72





Library Search Compound Report

Data Path : I:\ACQUDATA\msvoa12\Data\103021\
Data File : K8394.D
Acq On : 30 Oct 2021 8:13 pm
Operator : K.Ruest
Sample : R2111358-004|1.0 Inst : MSVOA-12
Misc : DAY 8260 T4
ALS Vial : 21 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge

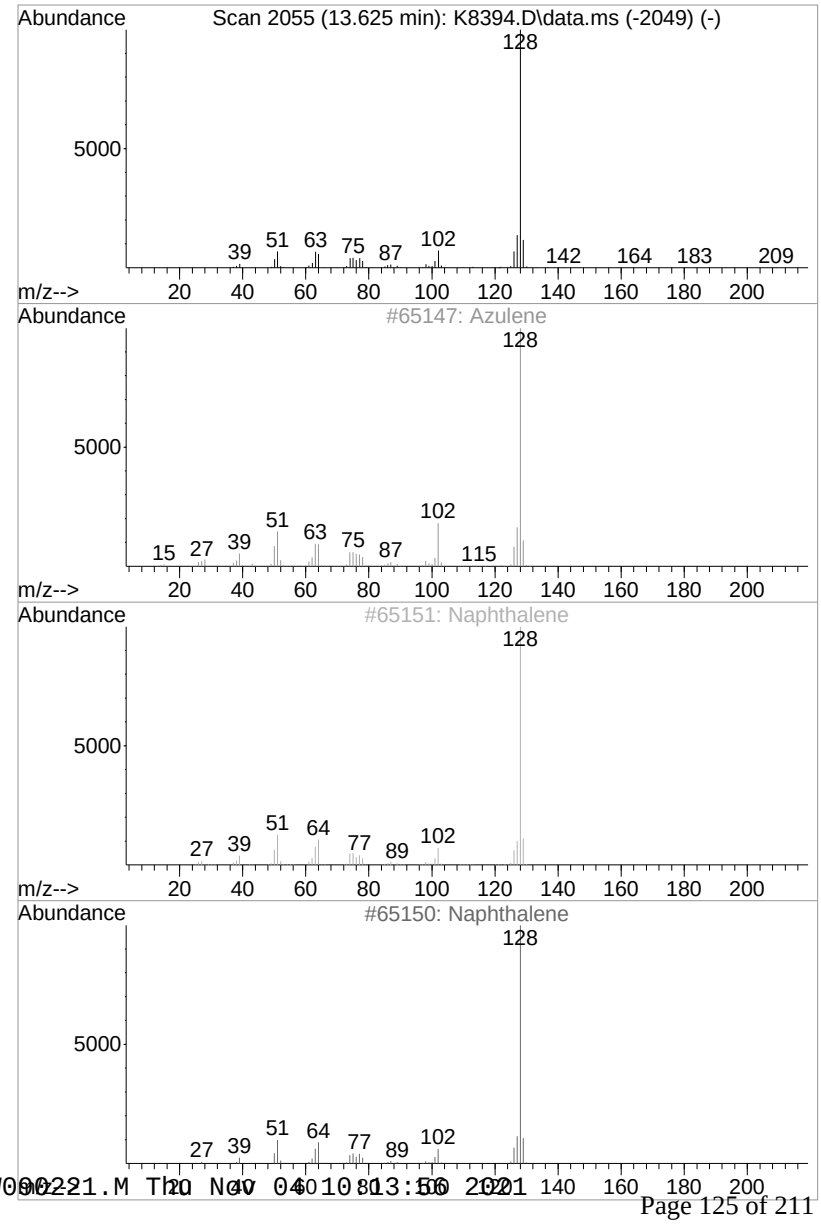
TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P

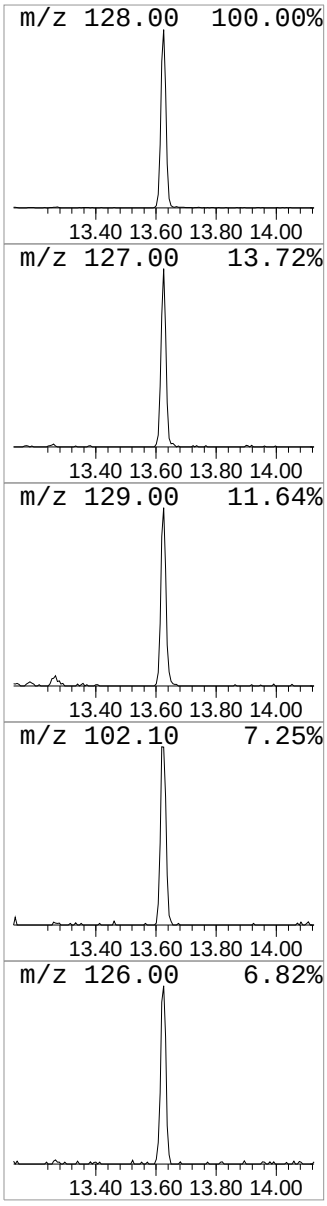
****

Peak Number 4 Azulene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.625	13.56 ppb	414956	1,4-Dichlorobenzene-d4	11.833

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Azulene	128	C10H8	000275-51-4	91
2	Naphthalene	128	C10H8	000091-20-3	91
3	Naphthalene	128	C10H8	000091-20-3	91
4	Naphthalene	128	C10H8	000091-20-3	91
5	Naphthalene	128	C10H8	000091-20-3	91





Tentatively Identified Compound (LSC) summary

Data Path : I:\ACQUDATA\msvoa12\Data\103021\
Data File : K8394.D
Acq On : 30 Oct 2021 8:13 pm
Operator : K.Ruest
Sample : R2111358-004|1.0 Inst : MSVOA-12
Misc : DAY 8260 T4
ALS Vial : 21 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P

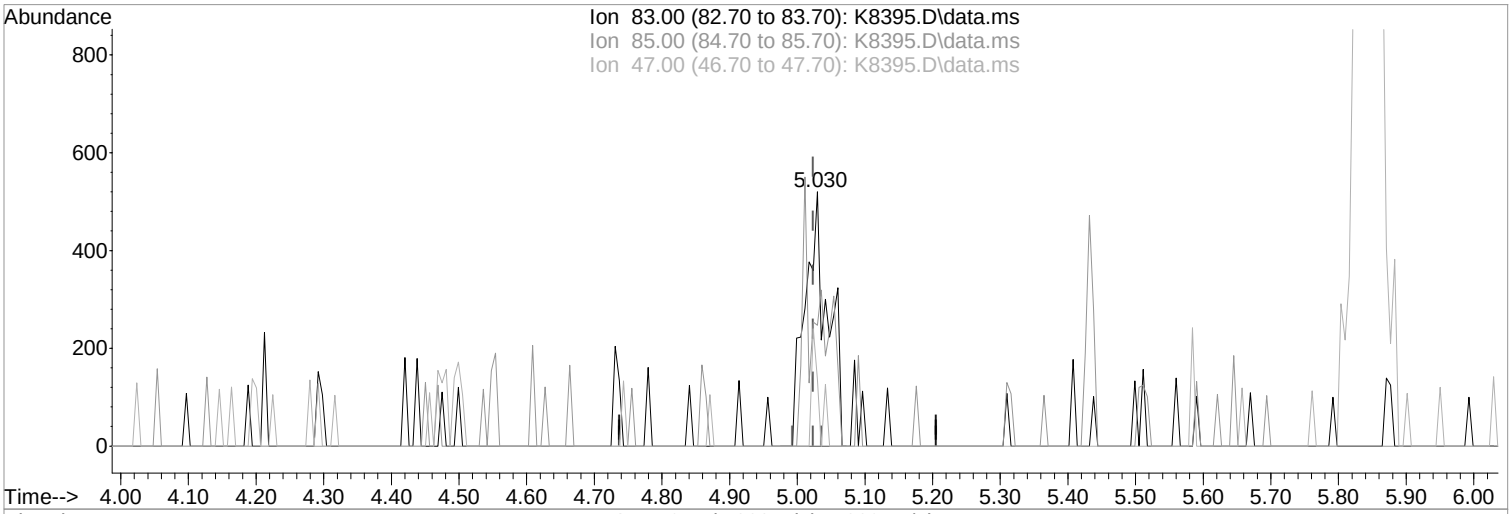
					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Isopropyl Alcohol	2.530	22.9	ppb	437963	1	5.450	958332	50.0
Benzene, 1-ethy...	11.406	5.6	ppb	170918	4	11.833	1530280	50.0
Indane	12.059	8.7	ppb	264905	4	11.833	1530280	50.0
Azulene	13.625	13.6	ppb	414956	4	11.833	1530280	50.0

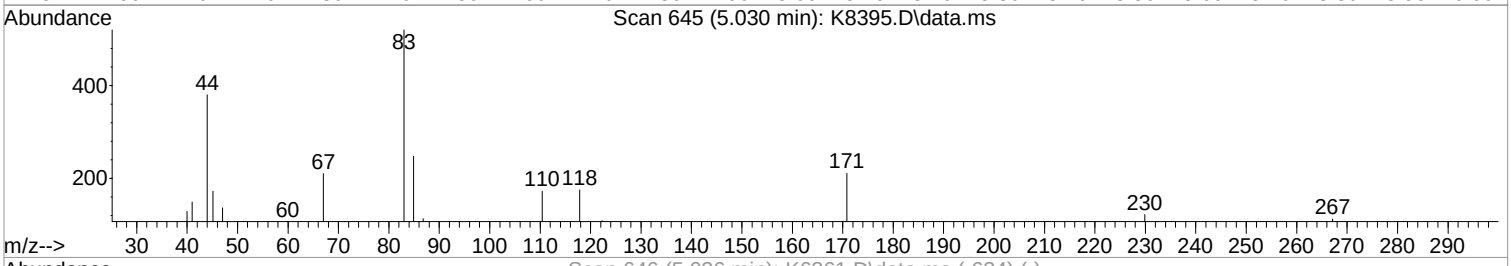
1st 11/02/21
2nd 11/02/21

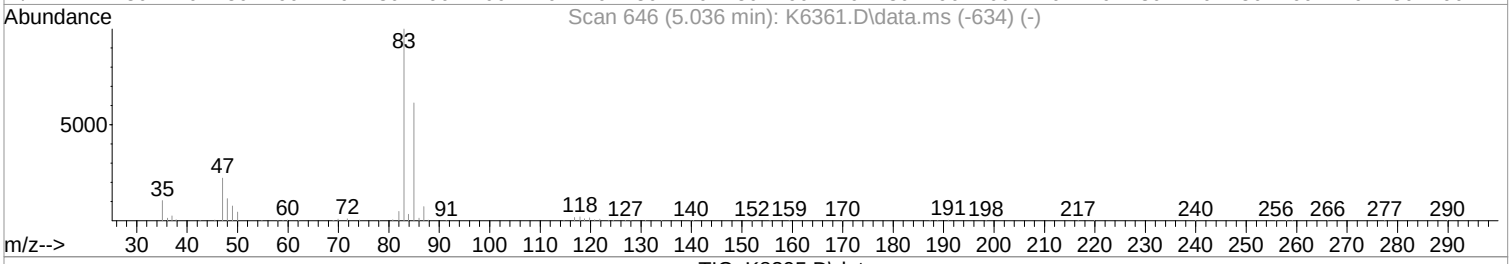
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\103021\
Data File : K8395.D
Acq On : 30 Oct 2021 8:35 pm
Operator : K.Ruest
Sample : R2111358-005|1.0 Inst : MSVOA-12
Misc : DAY 8260 T4
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Nov 01 11:12:29 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration







TIC: K8395.D\data.ms

(40) Chloroform (P)

5.030min (+0.007) -0.32 ppb m

response 1211

Ion	Exp%	Act%
83.00	100	100
85.00	61.50	47.50
47.00	22.10	26.15
0.00	0.00	0.00

Manual Integration:

After

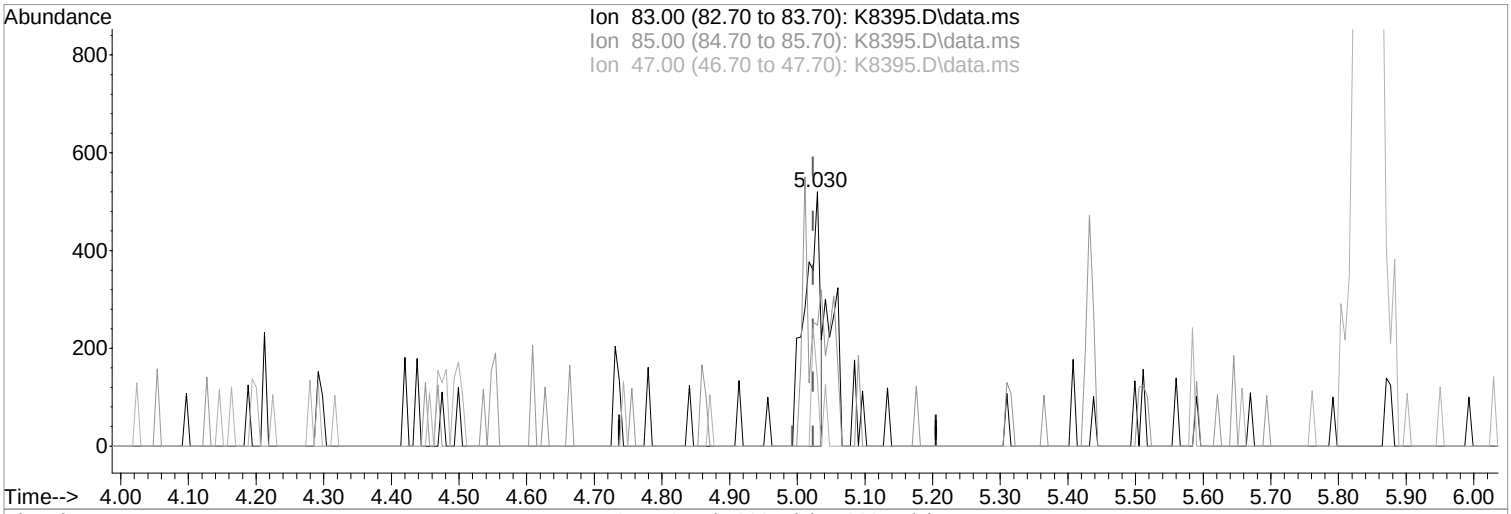
Split Peak

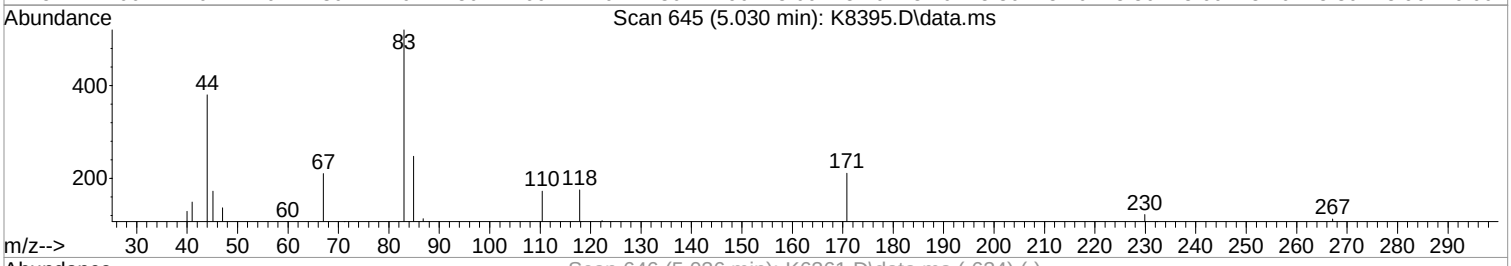
11/02/21

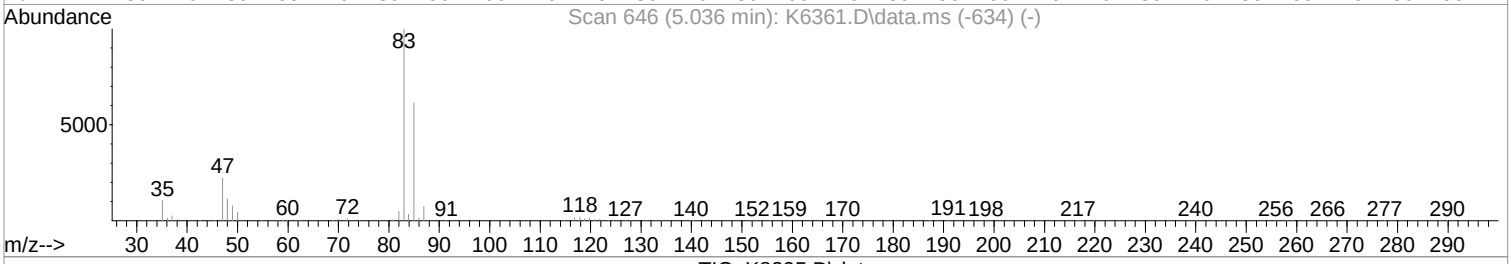
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\103021\
Data File : K8395.D
Acq On : 30 Oct 2021 8:35 pm
Operator : K.Ruest
Sample : R2111358-005|1.0 Inst : MSVOA-12
Misc : DAY 8260 T4
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Nov 01 11:12:29 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration







TIC: K8395.D\data.ms

(40) Chloroform (P)

5.030min (+0.007) -0.38 ppb

response 804

Ion	Exp%	Act%
83.00	100	100
85.00	61.50	47.50
47.00	22.10	26.15
0.00	0.00	0.00

Manual Integration:

Before

11/02/21

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\103021\
Data File : K8395.D
Acq On : 30 Oct 2021 8:35 pm
Operator : K.Ruest
Sample : R2111358-005|1.0 Inst : MSVOA-12
Misc : DAY 8260 T4
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Nov 04 10:14:19 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration

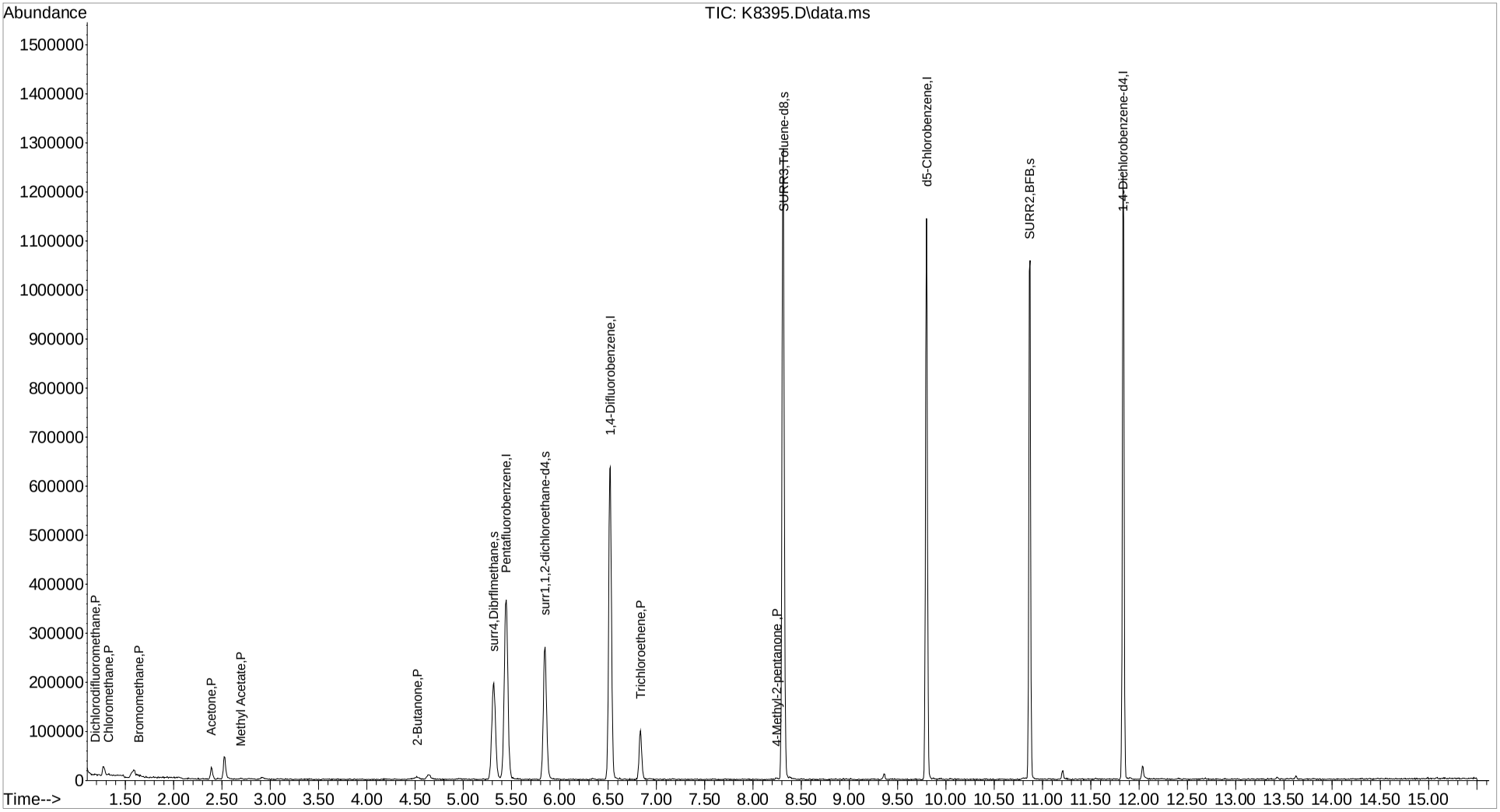
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.438	168	343976	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.523	114	573264	50.00	ppb	0.00
71) d5-Chlorobenzene	9.797	117	510912	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	11.833	152	249744	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.316	113	167951	53.82	ppb	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 107.64%			
48) surr1,1,2-dichloroetha...	5.846	65	223143	49.17	ppb	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 98.34%			
65) SURR3,Toluene-d8	8.315	98	817049	55.70	ppb	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 111.40%			
70) SURR2,BFB	10.864	95	300426	51.59	ppb	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 103.18%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.189	85	1158	0.25	ppb	94
3) Chloromethane	1.323	50	1094	0.27	ppb	74
5) Bromomethane	1.634	94	1118	0.37	ppb	89
15) Acetone	2.390	43	21380	8.94	ppb	90
21) Methyl Acetate	2.695	43	1123	0.26	ppb	90
35) 2-Butanone	4.524	43	7319	2.46	ppb	99
40) Chloroform	5.030	83	1211m	Below Cal		
54) Trichloroethene	6.834	130	35519	8.80	ppb	93
64) 4-Methyl-2-pentanone	8.248	43	2016	0.36	ppb	79

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

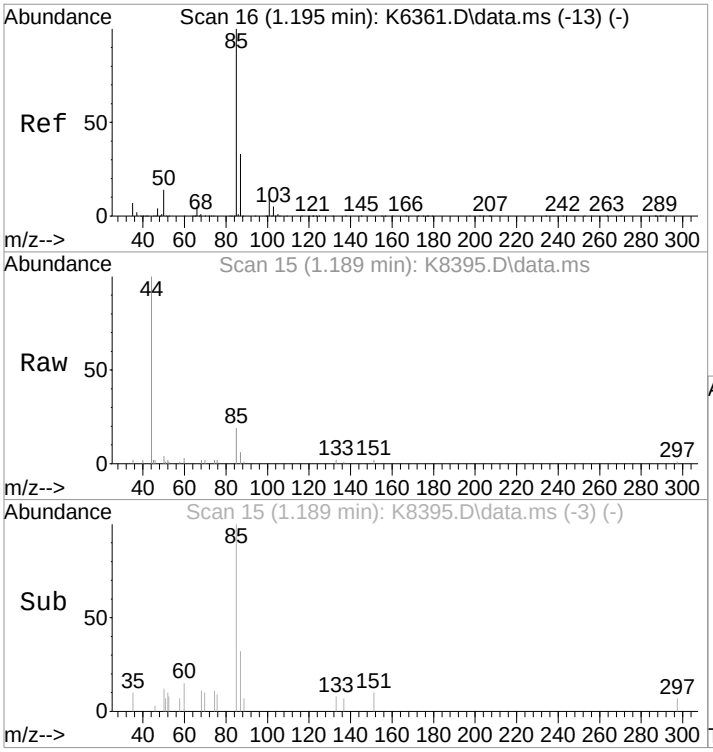
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\103021\
Data File : K8395.D
Acq On : 30 Oct 2021 8:35 pm
Operator : K.Ruest
Sample : R2111358-005|1.0 Inst : MSVOA-12
Misc : DAY 8260 T4
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Nov 04 10:14:19 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration



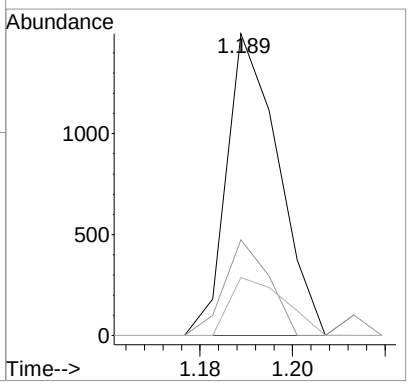
1st 11/02/21
2nd 11/02/21

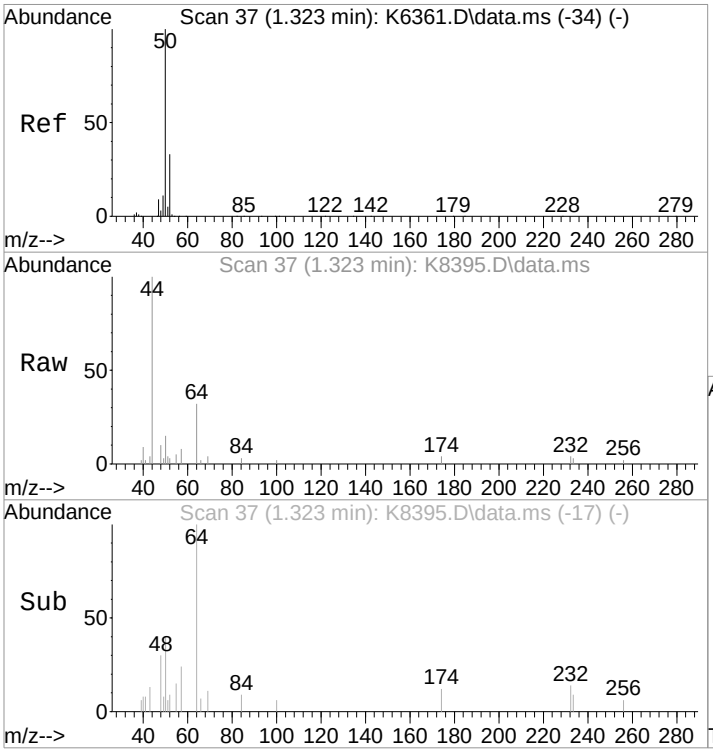


#2
Dichlorodifluoromethane
Concen: 0.25 ppb
RT: 1.189 min Scan# 15
Delta R.T. 0.000 min
Lab File: K8395.D
Acq: 30 Oct 2021 8:35 pm

Tgt Ion: 85 Resp: 1158

Ion	Ratio	Lower	Upper
85	100		
87	31.8	13.1	53.1
50	19.2	0.0	33.6

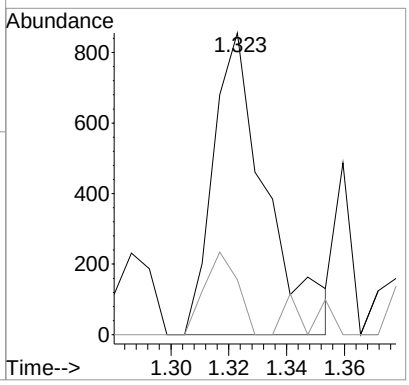


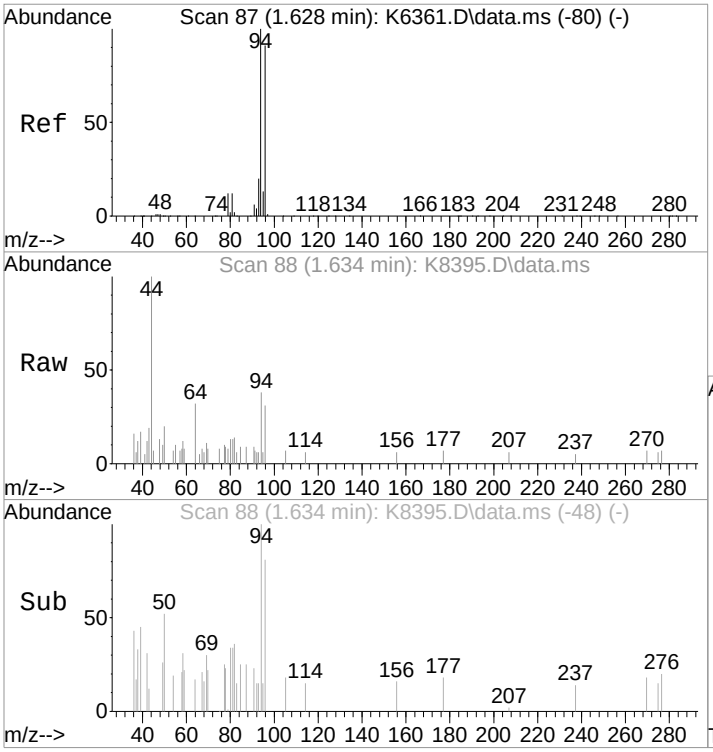


#3
Chloromethane
Concen: 0.27 ppb
RT: 1.323 min Scan# 37
Delta R.T. 0.006 min
Lab File: K8395.D
Acq: 30 Oct 2021 8:35 pm

Tgt Ion: 50 Resp: 1094

Ion	Ratio	Lower	Upper
50	100		
52	18.2	12.7	52.7

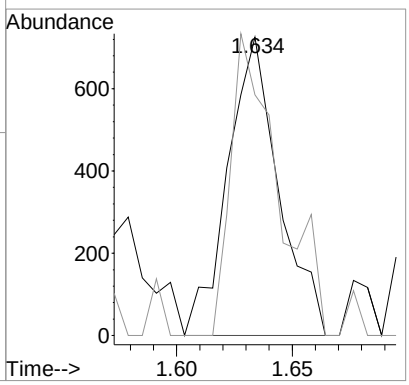


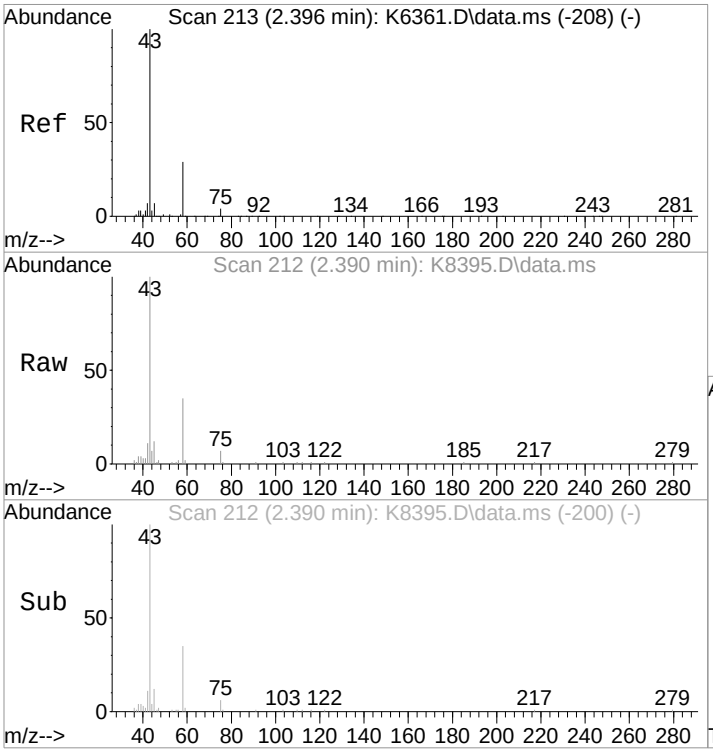


#5
Bromomethane
Concen: 0.37 ppb
RT: 1.634 min Scan# 88
Delta R.T. 0.018 min
Lab File: K8395.D
Acq: 30 Oct 2021 8:35 pm

Tgt Ion: 94 Resp: 1118

Ion	Ratio	Lower	Upper
94	100		
96	80.7	71.0	111.0

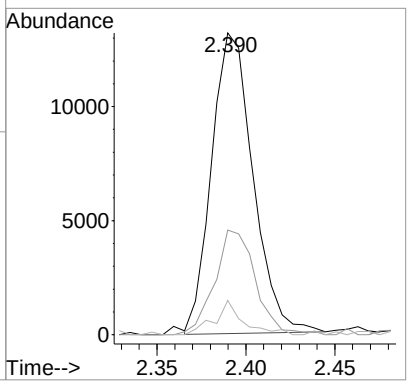


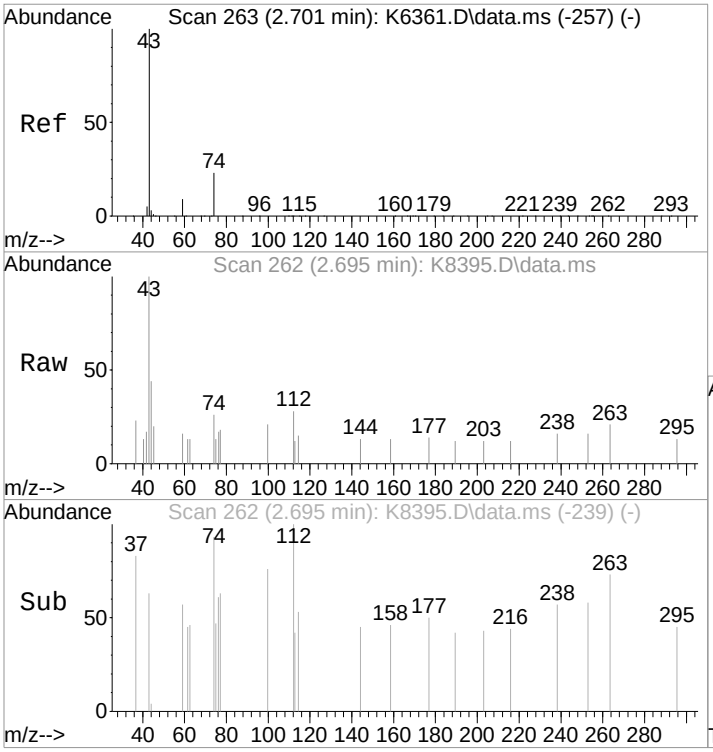


#15
Acetone
Concen: 8.94 ppb
RT: 2.390 min Scan# 212
Delta R.T. 0.001 min
Lab File: K8395.D
Acq: 30 Oct 2021 8:35 pm

Tgt Ion: 43 Resp: 21380

Ion	Ratio	Lower	Upper
43	100		
58	34.7	9.6	49.6
42	11.4	0.0	27.7

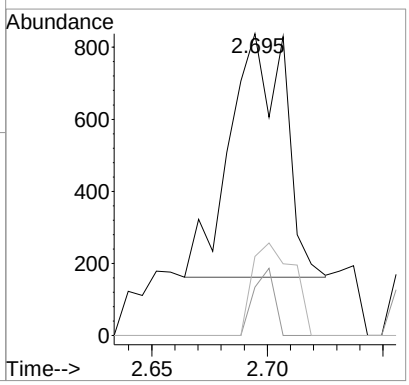


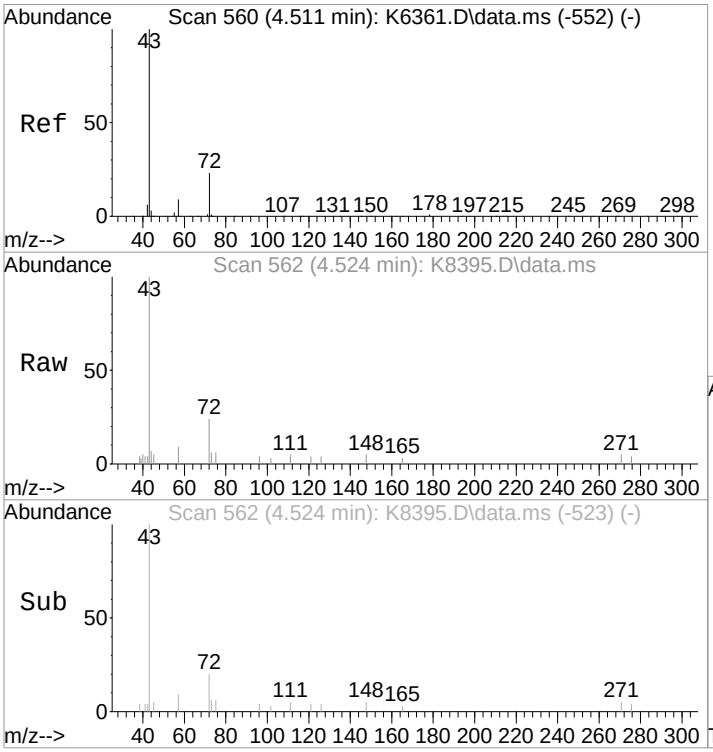


#21
Methyl Acetate
Concen: 0.26 ppb
RT: 2.695 min Scan# 262
Delta R.T. 0.000 min
Lab File: K8395.D
Acq: 30 Oct 2021 8:35 pm

Tgt Ion: 43 Resp: 1123

Ion	Ratio	Lower	Upper
43	100		
59	16.0	0.0	28.9
74	26.3	3.3	43.3

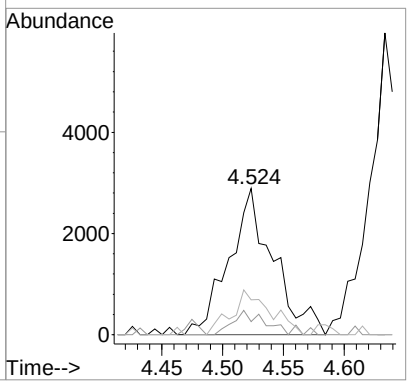


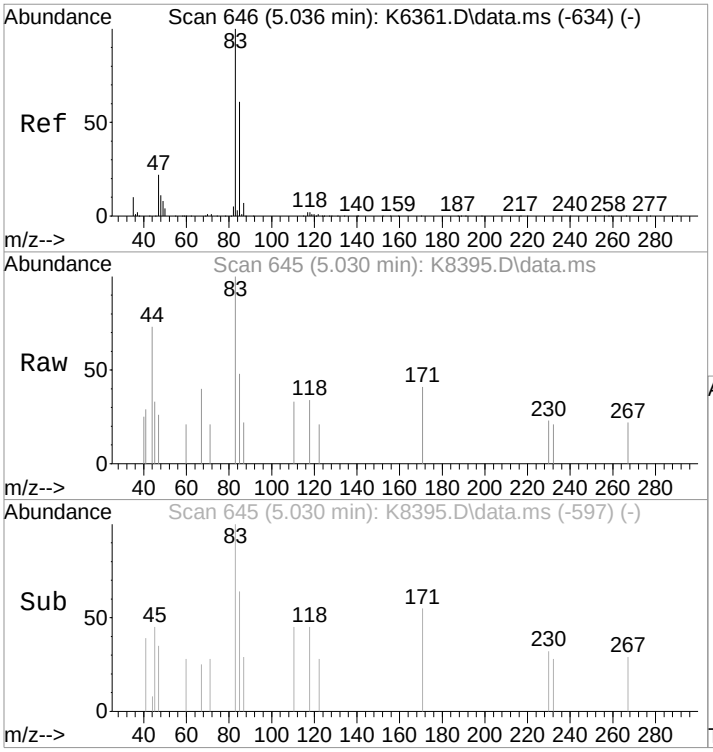


#35
2-Butanone
Concen: 2.46 ppb
RT: 4.524 min Scan# 562
Delta R.T. 0.012 min
Lab File: K8395.D
Acq: 30 Oct 2021 8:35 pm

Tgt Ion: 43 Resp: 7319

Ion	Ratio	Lower	Upper
43	100		
57	9.0	0.0	28.6
72	23.9	3.4	43.4

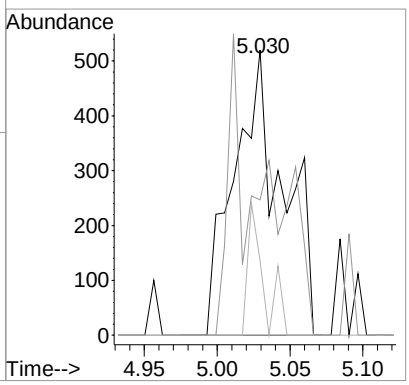


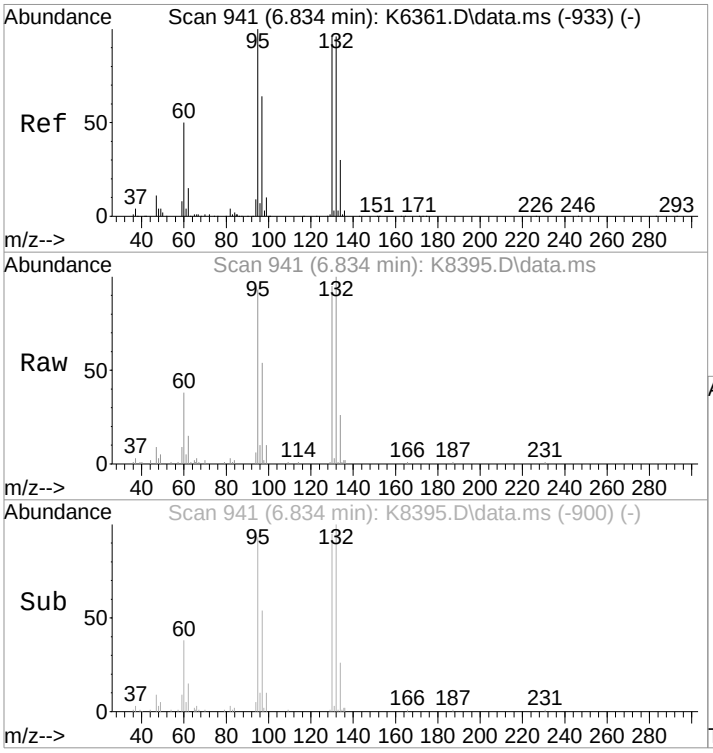


#40
Chloroform
Concen: Below Cal m
RT: 5.030 min Scan# 645
Delta R.T. 0.007 min
Lab File: K8395.D
Acq: 30 Oct 2021 8:35 pm

Tgt Ion: 83 Resp: 1211

Ion	Ratio	Lower	Upper
83	100		
85	47.5	41.5	81.5
47	26.2	2.1	42.1

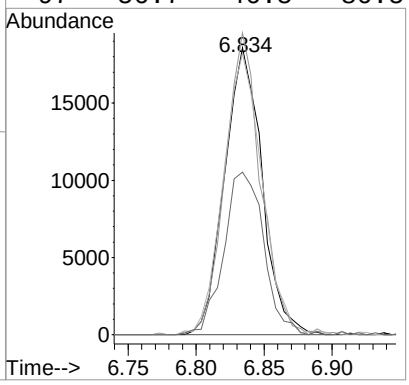


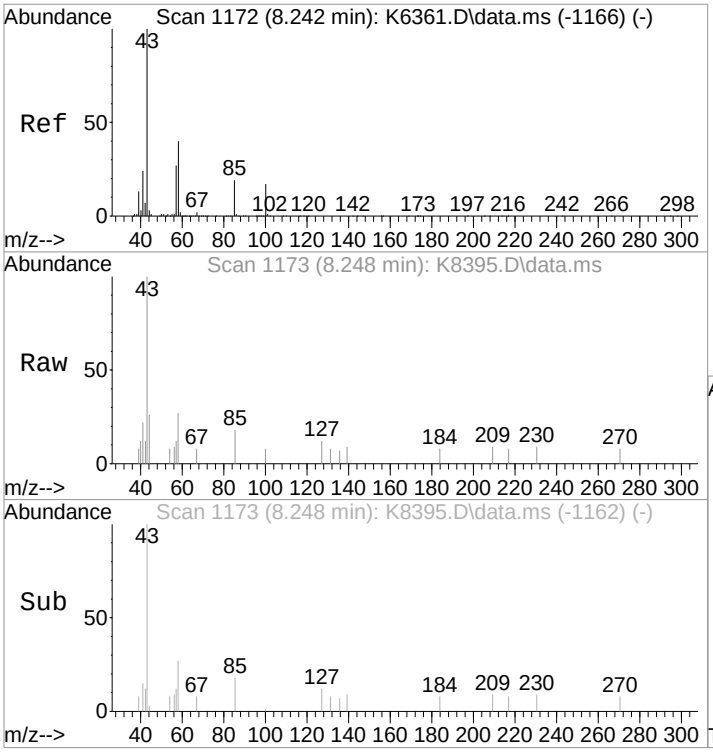


#54
Trichloroethene
Concen: 8.80 ppb
RT: 6.834 min Scan# 941
Delta R.T. 0.000 min
Lab File: K8395.D
Acq: 30 Oct 2021 8:35 pm

Tgt Ion:130 Resp: 35519

Ion	Ratio	Lower	Upper
130	100		
132	105.2	79.7	119.7
95	97.9	83.8	123.8
97	56.7	46.5	86.5

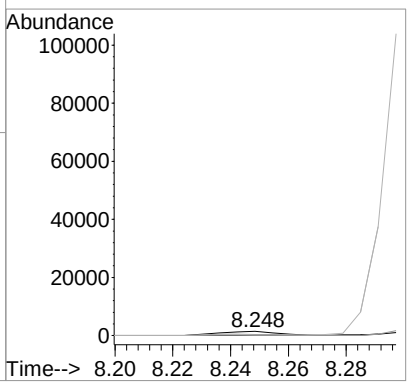




#64
4-Methyl-2-pentanone
Concen: 0.36 ppb
RT: 8.248 min Scan# 1173
Delta R.T. 0.006 min
Lab File: K8395.D
Acq: 30 Oct 2021 8:35 pm

Tgt Ion: 43 Resp: 2016

Ion	Ratio	Lower	Upper
43	100		
58	26.7	20.2	60.2
100	8.3	0.0	36.8



LSC Area Percent Report

Data Path : I:\ACQUDATA\msvoa12\Data\103021\
Data File : K8395.D
Acq On : 30 Oct 2021 8:35 pm
Operator : K.Ruest
Sample : R2111358-005|1.0 Inst : MSVOA-12
Misc : DAY 8260 T4
ALS Vial : 22 Sample Multiplier: 1

Integration Parameters: INTP90.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 500 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0.1 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Title : MS#12 - 8260B WATERS 10mL Purge

Signal : TIC: K8395.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.274	25	29	34	rBV3	18197	31925	1.52%	0.303%
2	1.585	72	80	84	rBV9	16027	42366	2.02%	0.402%
3	2.390	207	212	220	rBV	25223	40765	1.94%	0.387%
4	2.524	229	234	244	rBV	45914	84047	4.01%	0.798%
5	4.645	575	582	591	rVB4	8525	24482	1.17%	0.233%
6	5.316	682	692	702	rBV2	195937	536491	25.58%	5.096%
7	5.444	702	713	727	rVB	365026	987074	47.06%	9.376%
8	5.846	770	779	793	rBV	270059	643016	30.65%	6.108%
9	6.523	880	890	898	rBV	636977	1300086	61.98%	12.349%
10	6.834	932	941	949	rBV	99680	197658	9.42%	1.878%
11	8.315	1177	1184	1193	rBV	1285016	2097666	100.00%	19.926%
12	9.797	1421	1427	1436	rBV	1144207	1550244	73.90%	14.726%
13	10.870	1597	1603	1611	rVB	1057139	1371812	65.40%	13.031%
14	11.211	1654	1659	1663	rBV2	17587	23807	1.13%	0.226%
15	11.833	1756	1761	1767	rBV	1236890	1553295	74.05%	14.755%
16	12.034	1790	1794	1804	rVB	26680	42708	2.04%	0.406%

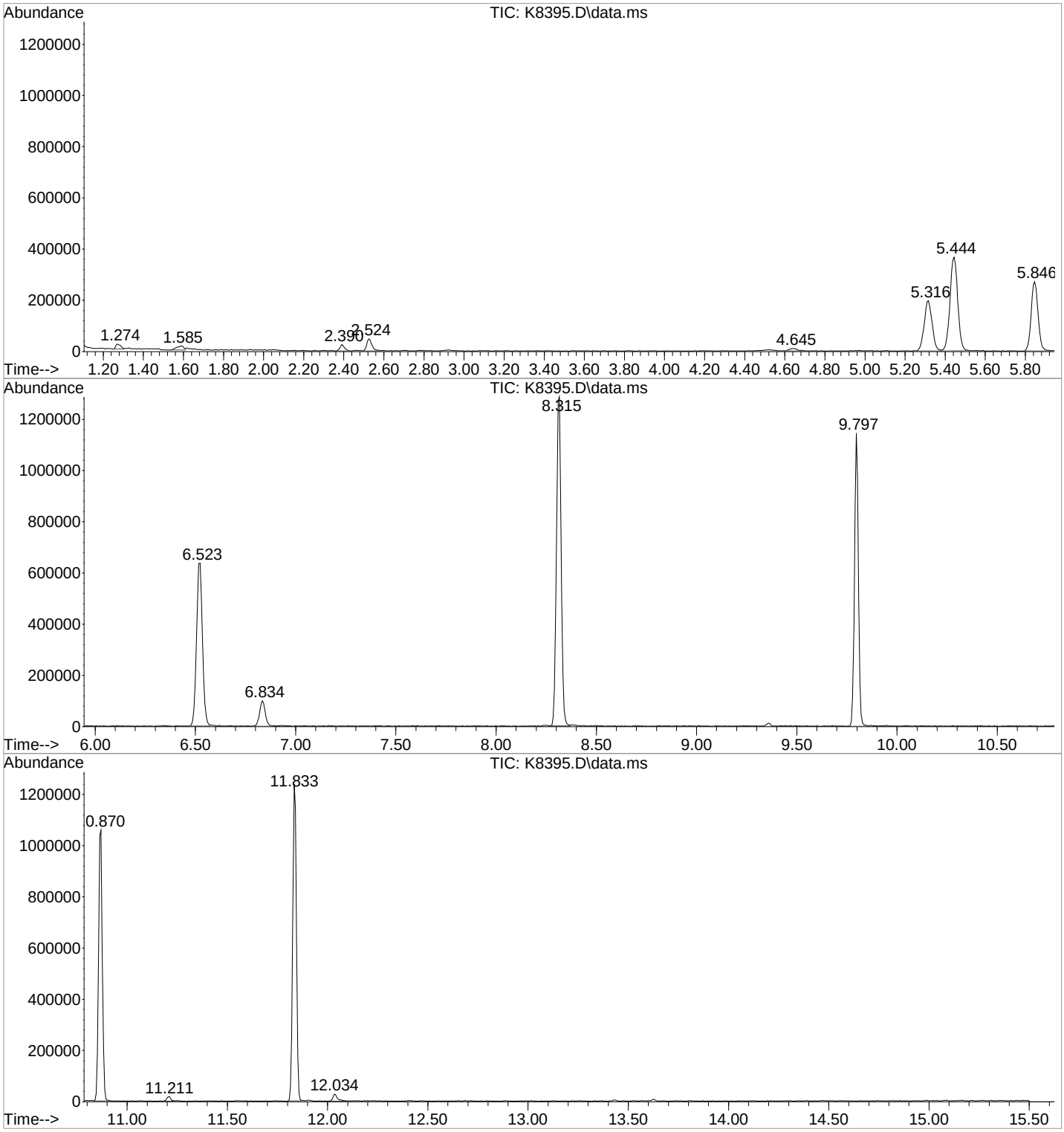
Sum of corrected areas: 10527442

LSC Report - Integrated Chromatogram

Data Path : I:\ACQUDATA\msvoa12\Data\103021\
Data File : K8395.D
Acq On : 30 Oct 2021 8:35 pm
Operator : K.Ruest
Sample : R2111358-005|1.0 Inst : MSVOA-12
Misc : DAY 8260 T4
ALS Vial : 22 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P



Tentatively Identified Compound (LSC) summary

Data Path : I:\ACQUDATA\msvoa12\Data\103021\\
Data File : K8395.D
Acq On : 30 Oct 2021 8:35 pmm
Operator : K.Ruestt
Sample : R2111358-005|1.0 Inst : MSVOA-122
Misc : DAY 8260 T44
ALS Vial : 22 Sample Multiplier: 11

Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.MM
Quant Title : MS#12 - 8260B WATERS 10mL Purgee

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.LL
TIC Integration Parameters: LSCINT.PP

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

No Library Search Compounds Detected
****

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\103021\
Data File : K8390.D
Acq On : 30 Oct 2021 6:46 pm
Operator : K.Ruest
Sample : R2111358-006|1.0 Inst : MSVOA-12
Misc : DAY 8260 T4
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Nov 02 15:55:16 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration

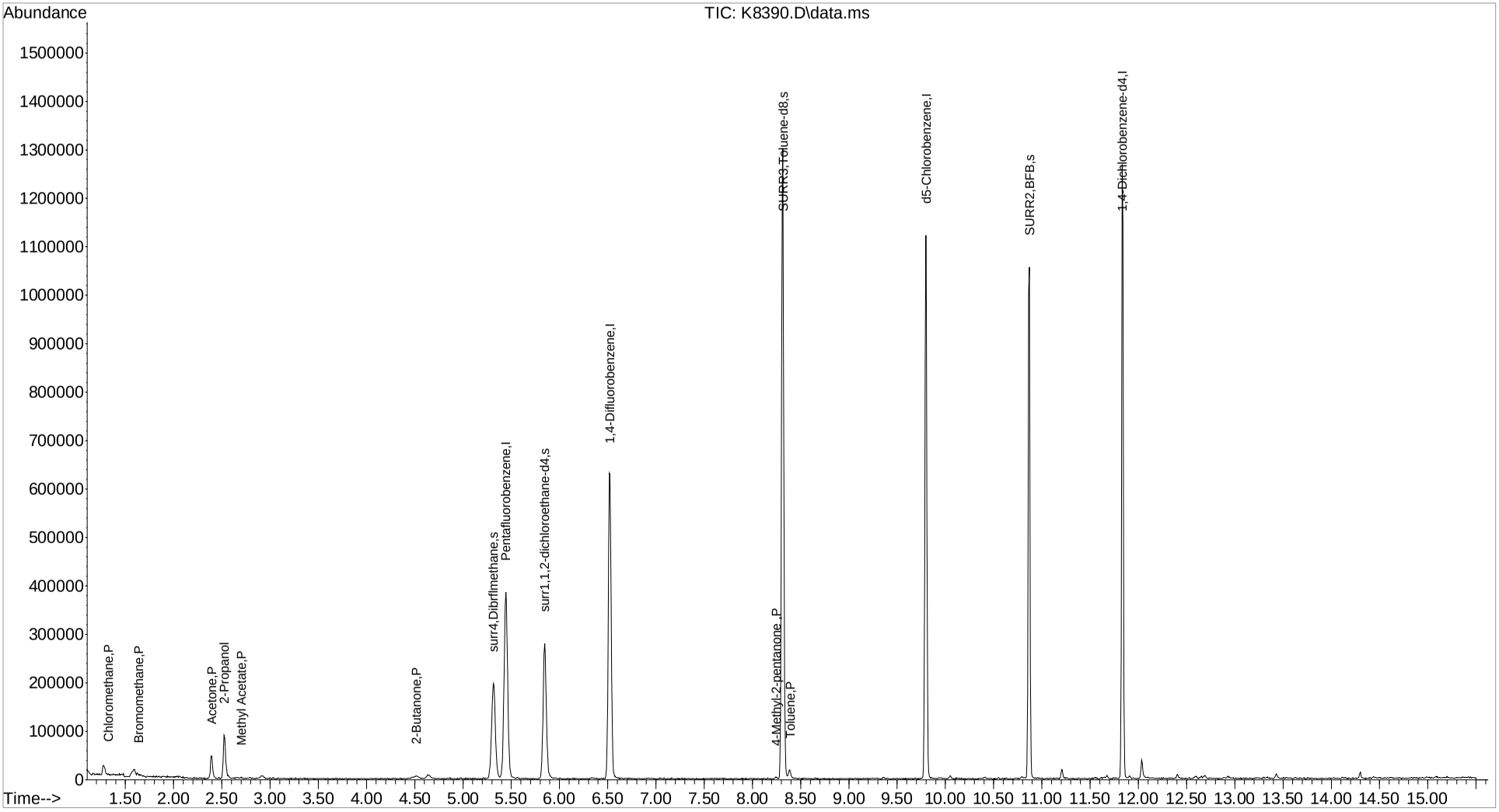
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.444	168	353673	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.523	114	570889	50.00	ppb	0.00
71) d5-Chlorobenzene	9.797	117	518806	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	11.833	152	247333	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.316	113	166138	53.46	ppb	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 106.92%			
48) surr1,1,2-dichloroetha...	5.846	65	229659	50.82	ppb	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 101.64%			
65) SURR3,Toluene-d8	8.315	98	821945	56.27	ppb	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 112.54%			
70) SURR2,BFB	10.870	95	300462	51.81	ppb	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 103.62%			
Target Compounds						Qvalue
3) Chloromethane	1.323	50	969	0.24	ppb	# 64
5) Bromomethane	1.634	94	1021	0.33	ppb	86
15) Acetone	2.396	43	47275	21.82	ppb	97
16) 2-Propanol	2.524	45	101387	220.83	ppb	99
21) Methyl Acetate	2.701	43	1560	0.35	ppb	77
35) 2-Butanone	4.517	43	8303	2.72	ppb	97
64) 4-Methyl-2-pentanone	8.248	43	1904	0.34	ppb	85
66) Toluene	8.389	91	10420	0.60	ppb	96

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

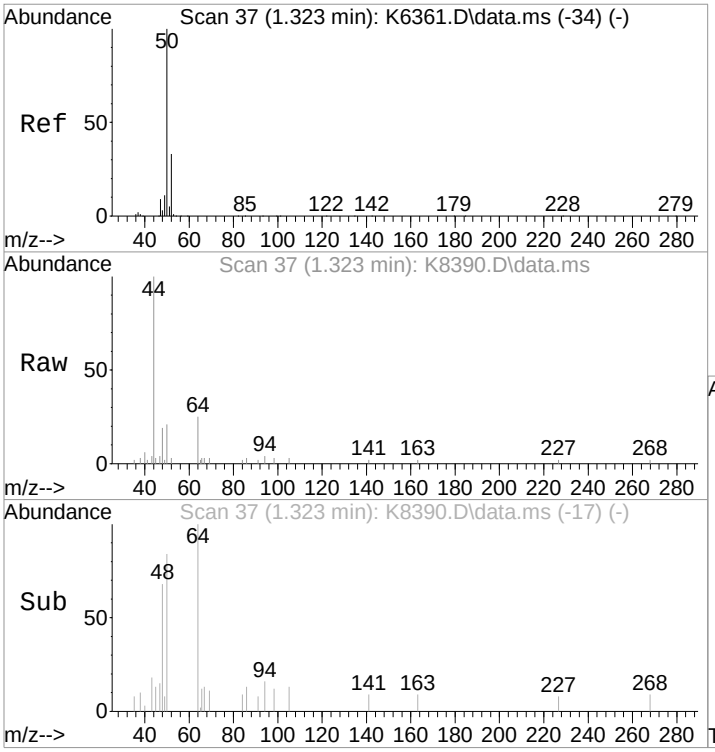
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\103021\
Data File : K8390.D
Acq On : 30 Oct 2021 6:46 pm
Operator : K.Ruest
Sample : R2111358-006|1.0 Inst : MSVOA-12
Misc : DAY 8260 T4
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Nov 02 15:55:16 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration



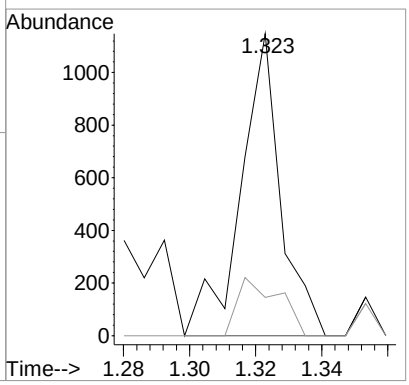
1st 11/02/21
2nd 11/02/21

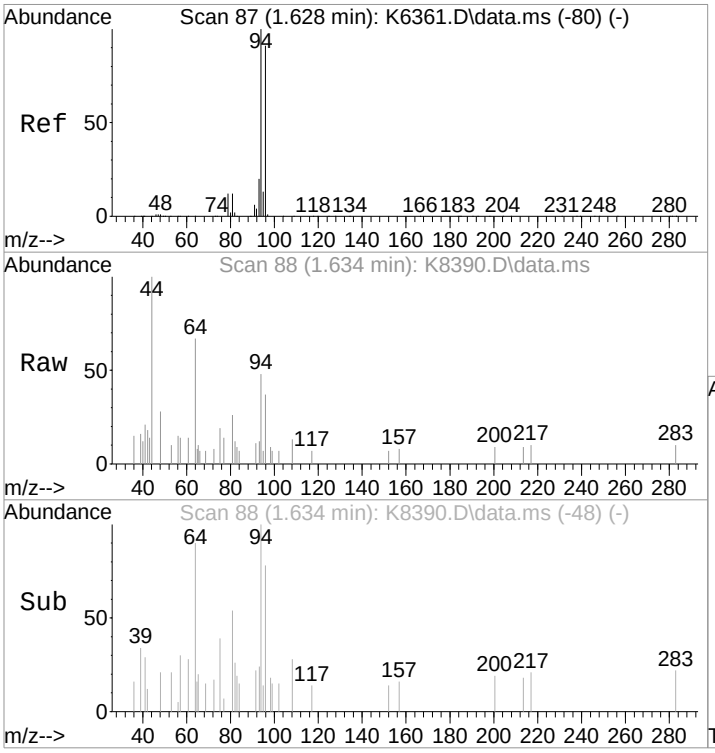


#3
Chloromethane
Concen: 0.24 ppb
RT: 1.323 min Scan# 37
Delta R.T. 0.006 min
Lab File: K8390.D
Acq: 30 Oct 2021 6:46 pm

Tgt Ion: 50 Resp: 969

Ion	Ratio	Lower	Upper
50	100		
52	12.6	12.7	52.7#

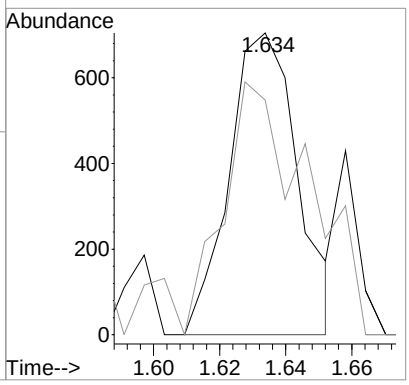


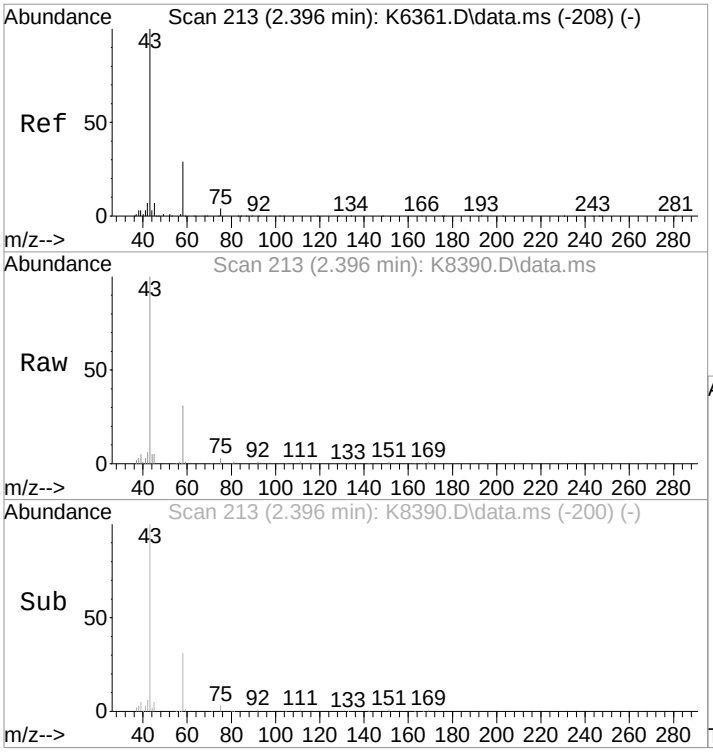


#5
Bromomethane
Concen: 0.33 ppb
RT: 1.634 min Scan# 88
Delta R.T. 0.018 min
Lab File: K8390.D
Acq: 30 Oct 2021 6:46 pm

Tgt Ion: 94 Resp: 1021

Ion	Ratio	Lower	Upper
94	100		
96	77.7	71.0	111.0

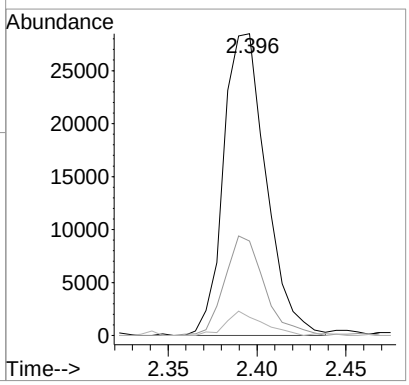


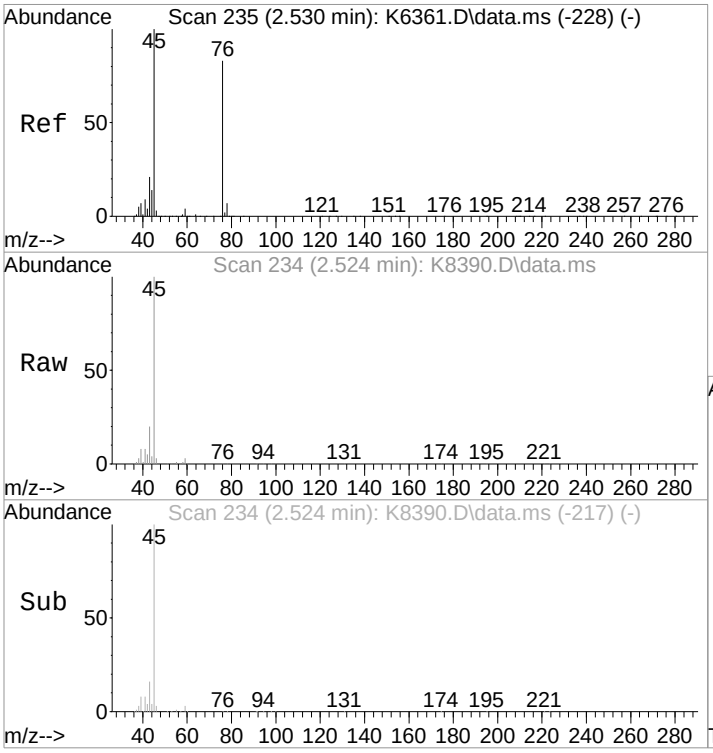


#15
Acetone
Concen: 21.82 ppb
RT: 2.396 min Scan# 213
Delta R.T. 0.007 min
Lab File: K8390.D
Acq: 30 Oct 2021 6:46 pm

Tgt Ion: 43 Resp: 47275

Ion	Ratio	Lower	Upper
43	100		
58	31.3	9.6	49.6
42	6.1	0.0	27.7

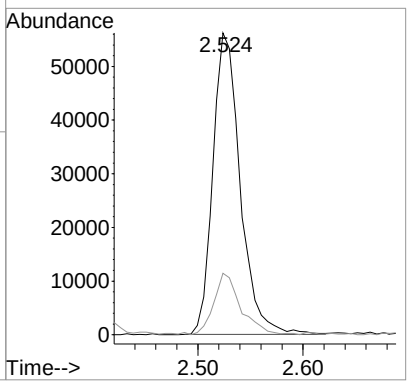


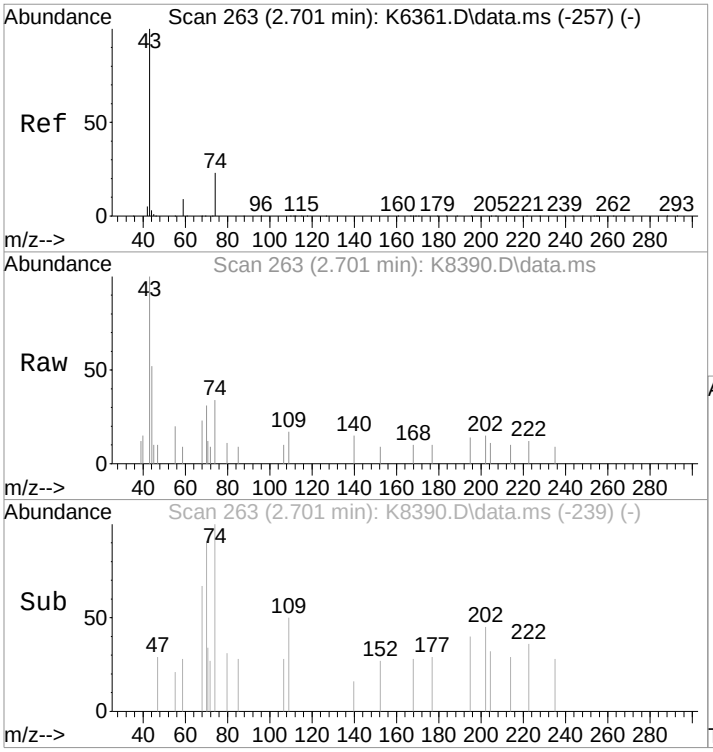


#16
2-Propanol
Concen: 220.83 ppb
RT: 2.524 min Scan# 234
Delta R.T. -0.006 min
Lab File: K8390.D
Acq: 30 Oct 2021 6:46 pm

Tgt Ion: 45 Resp: 101387

Ion	Ratio	Lower	Upper
45	100		
43	20.3	0.6	40.6

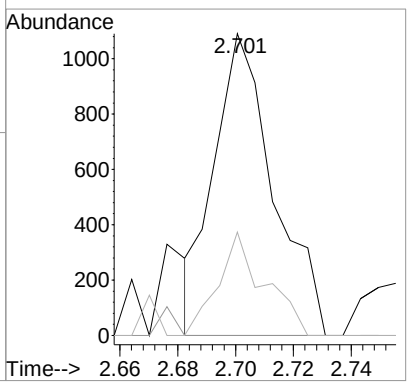


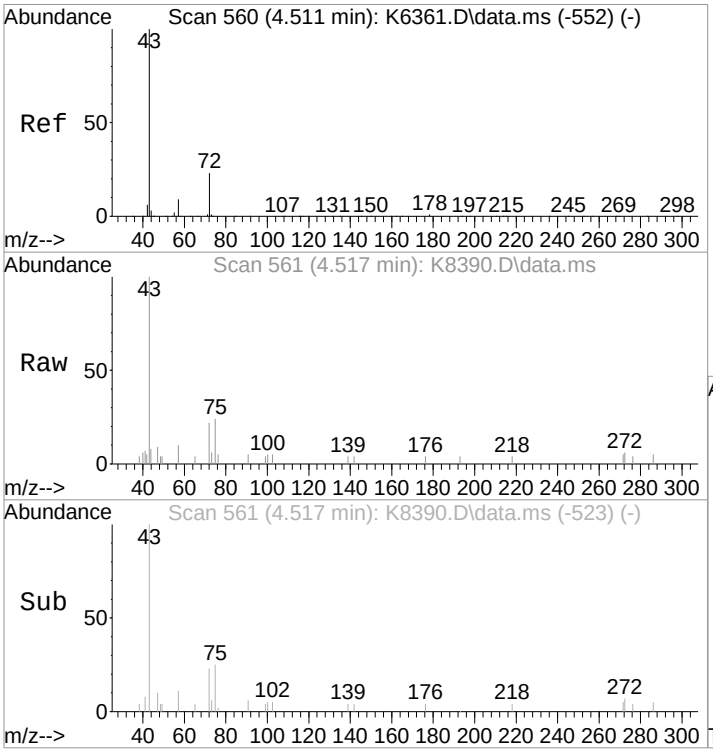


#21
Methyl Acetate
Concen: 0.35 ppb
RT: 2.701 min Scan# 263
Delta R.T. 0.006 min
Lab File: K8390.D
Acq: 30 Oct 2021 6:46 pm

Tgt Ion: 43 Resp: 1560

Ion	Ratio	Lower	Upper
43	100		
59	0.0	0.0	28.9
74	34.3	3.3	43.3

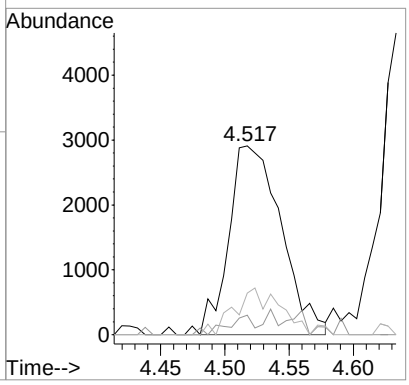


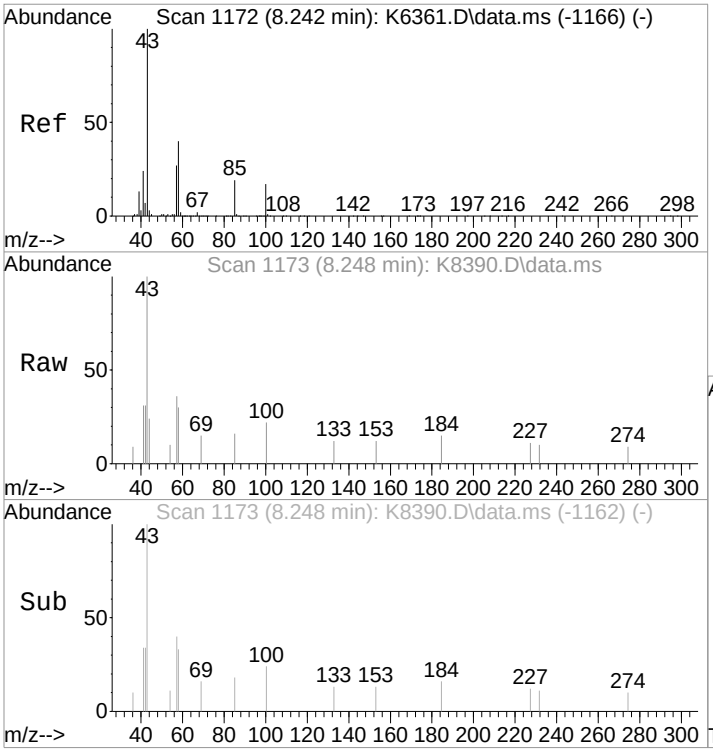


#35
2-Butanone
Concen: 2.72 ppb
RT: 4.517 min Scan# 561
Delta R.T. 0.006 min
Lab File: K8390.D
Acq: 30 Oct 2021 6:46 pm

Tgt Ion: 43 Resp: 8303

Ion	Ratio	Lower	Upper
43	100		
57	10.3	0.0	28.6
72	22.1	3.4	43.4

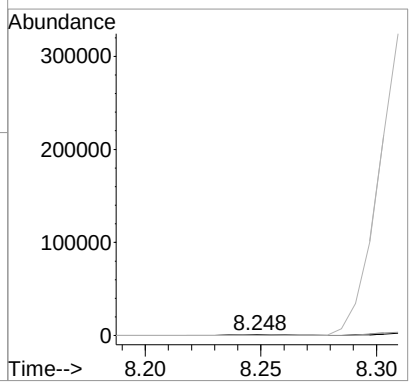


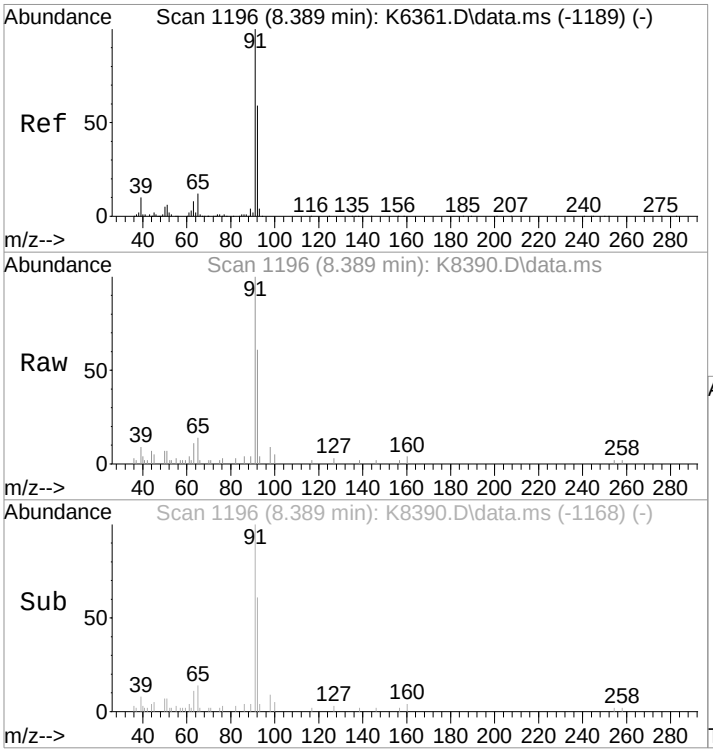


#64
4-Methyl-2-pentanone
Concen: 0.34 ppb
RT: 8.248 min Scan# 1173
Delta R.T. 0.006 min
Lab File: K8390.D
Acq: 30 Oct 2021 6:46 pm

Tgt Ion: 43 Resp: 1904

Ion	Ratio	Lower	Upper
43	100		
58	29.7	20.2	60.2
100	21.7	0.0	36.8

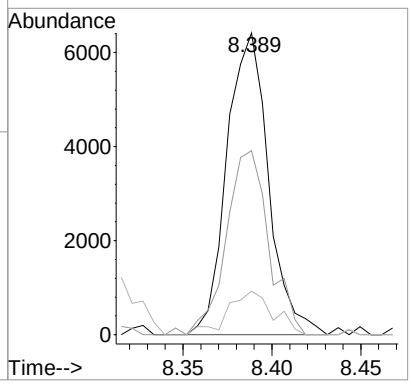




#66
Toluene
Concen: 0.60 ppb
RT: 8.389 min Scan# 1196
Delta R.T. -0.000 min
Lab File: K8390.D
Acq: 30 Oct 2021 6:46 pm

Tgt Ion: 91 Resp: 10420

Ion	Ratio	Lower	Upper
91	100		
92	61.0	38.7	78.7
65	14.4	0.0	31.8



LSC Area Percent Report

Data Path : I:\ACQUDATA\msvoa12\Data\103021\
Data File : K8390.D
Acq On : 30 Oct 2021 6:46 pm
Operator : K.Ruest
Sample : R2111358-006|1.0 Inst : MSVOA-12
Misc : DAY 8260 T4
ALS Vial : 17 Sample Multiplier: 1

Integration Parameters: INTP90.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 500 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0.1 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Title : MS#12 - 8260B WATERS 10mL Purge

Signal : TIC: K8390.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.274	26	29	34	rBV3	19032	32765	1.56%	0.312%
2	1.591	73	81	85	rBV8	15181	40152	1.91%	0.382%
3	2.390	206	212	220	rBV	46924	79977	3.80%	0.762%
4	2.524	229	234	246	rBV	88776	160722	7.64%	1.530%
5	5.316	682	692	702	rBV2	194894	525733	25.01%	5.006%
6	5.444	702	713	724	rVB2	381382	986333	46.91%	9.392%
7	5.846	769	779	794	rBV2	278836	653008	31.06%	6.218%
8	6.517	881	889	903	rBV	630290	1307215	62.18%	12.448%
9	8.315	1177	1184	1191	rBV	1300101	2102440	100.00%	20.021%
10	8.382	1191	1195	1201	rVB2	17448	30500	1.45%	0.290%
11	9.797	1421	1427	1439	rVB	1120649	1569687	74.66%	14.947%
12	10.870	1597	1603	1611	rVB	1055138	1372954	65.30%	13.074%
13	11.205	1654	1658	1664	rBV2	19538	27938	1.33%	0.266%
14	11.833	1756	1761	1770	rBV	1266647	1559619	74.18%	14.852%
15	12.034	1790	1794	1801	rBV	38332	52307	2.49%	0.498%

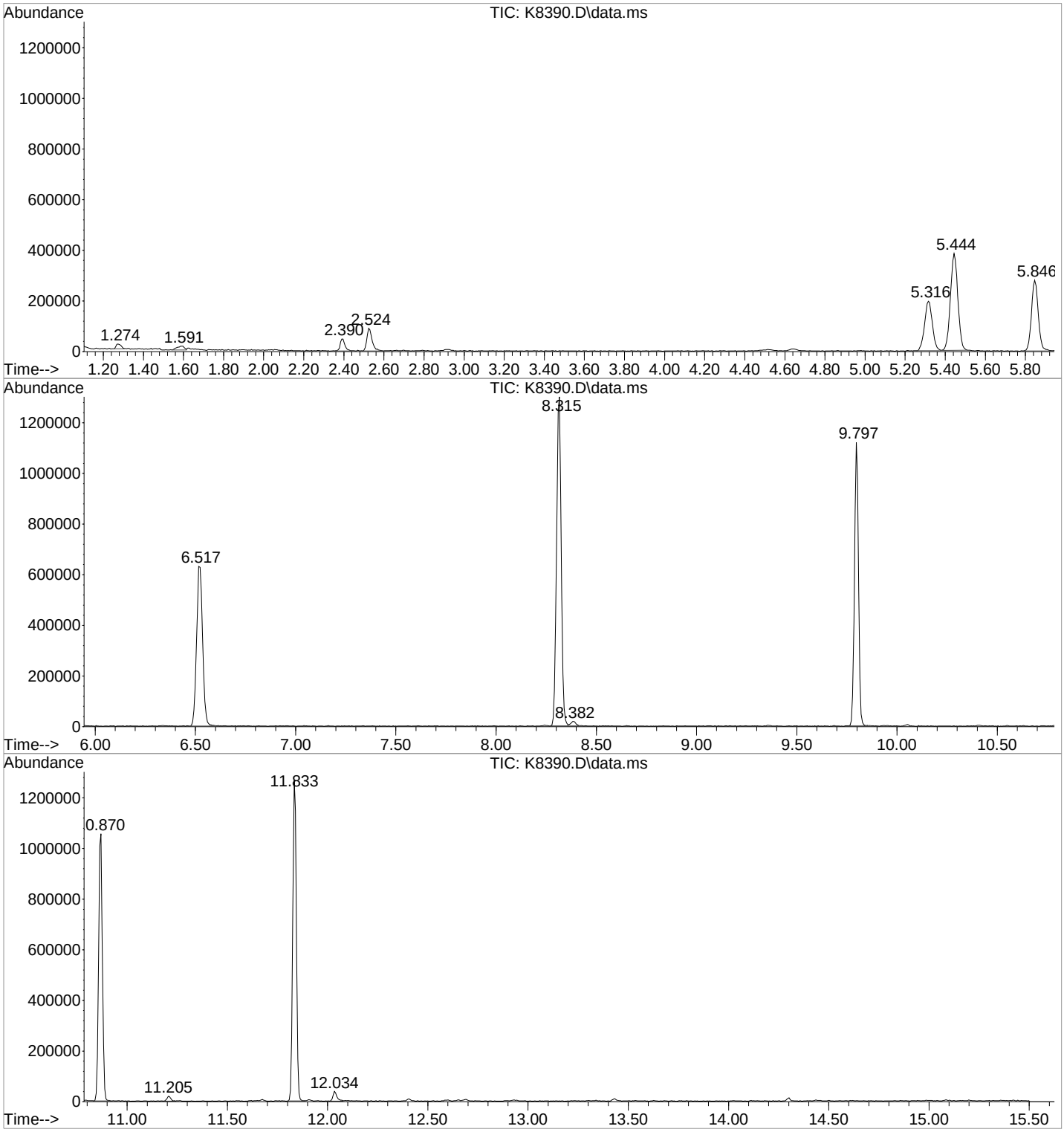
Sum of corrected areas: 10501350

LSC Report - Integrated Chromatogram

Data Path : I:\ACQUDATA\msvoa12\Data\103021\
Data File : K8390.D
Acq On : 30 Oct 2021 6:46 pm
Operator : K.Ruest
Sample : R2111358-006|1.0 Inst : MSVOA-12
Misc : DAY 8260 T4
ALS Vial : 17 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P



Tentatively Identified Compound (LSC) summary

Data Path : I:\ACQUDATA\msvoa12\Data\103021\\
Data File : K8390.D
Acq On : 30 Oct 2021 6:46 pmm
Operator : K.Ruestt
Sample : R2111358-006|1.0 Inst : MSVOA-122
Misc : DAY 8260 T44
ALS Vial : 17 Sample Multiplier: 11

Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.MM
Quant Title : MS#12 - 8260B WATERS 10mL Purgee

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.LL
TIC Integration Parameters: LSCINT.PP

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard Conc

No Library Search Compounds Detected
****

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\103021\
Data File : K8391.D
Acq On : 30 Oct 2021 7:08 pm
Operator : K.Ruest
Sample : R2111358-007|1.0 Inst : MSVOA-12
Misc : DAY 8260 T4
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Nov 02 15:57:09 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration

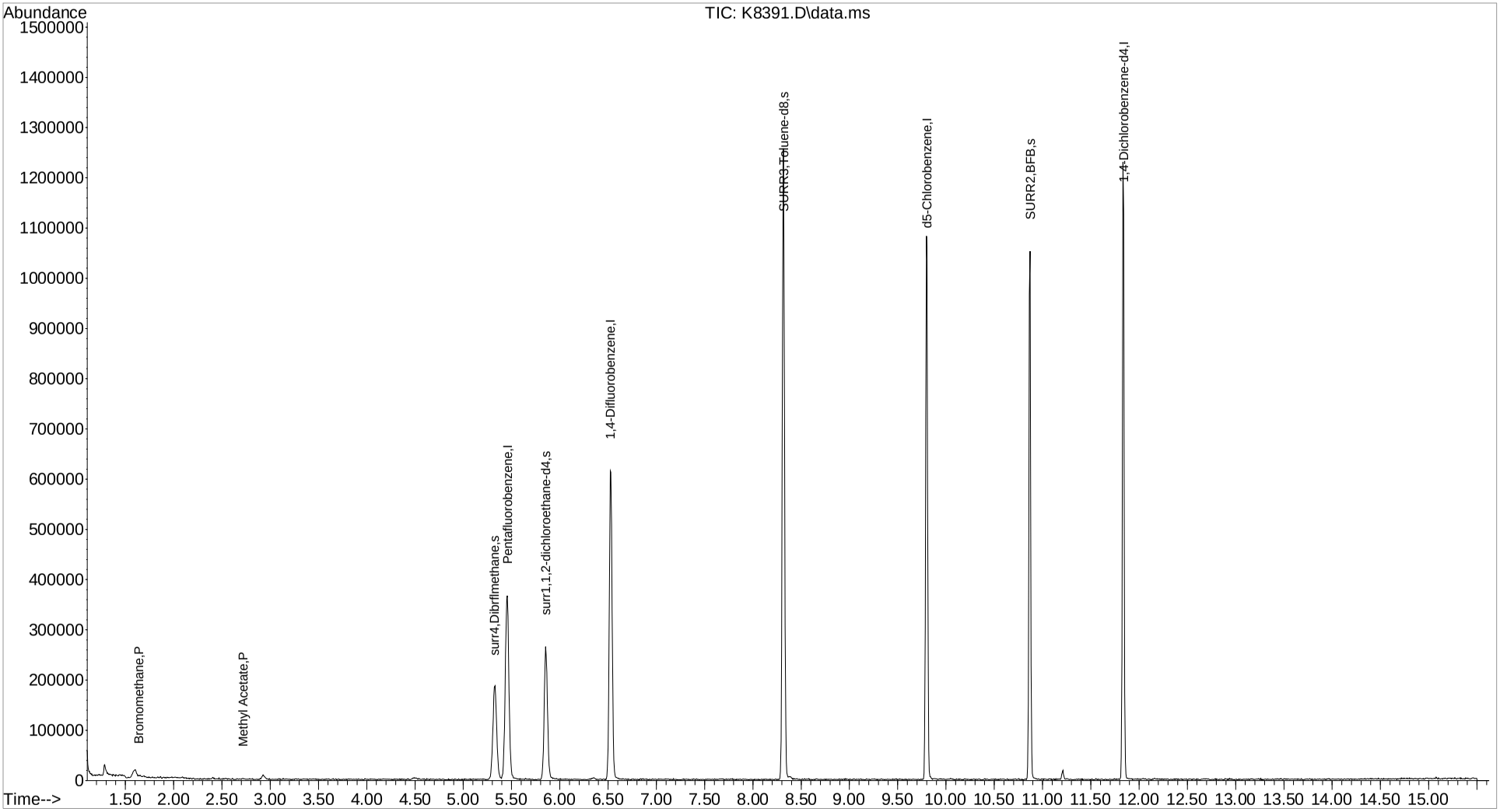
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.456	168	336143	50.00	ppb	0.01
43) 1,4-Difluorobenzene	6.523	114	558064	50.00	ppb	0.00
71) d5-Chlorobenzene	9.803	117	499807	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	11.839	152	239994	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.322	113	161808	53.26	ppb	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 106.52%			
48) surr1,1,2-dichloroetha...	5.853	65	222926	50.46	ppb	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 100.92%			
65) SURR3,Toluene-d8	8.316	98	797427	55.84	ppb	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 111.68%			
70) SURR2,BFB	10.870	95	291511	51.43	ppb	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 102.86%			
Target Compounds						Qvalue
5) Bromomethane	1.640	94	825	0.28	ppb	92
15) Acetone	2.408	43	2534	Below Cal		87
21) Methyl Acetate	2.719	43	1067	0.25	ppb	82

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

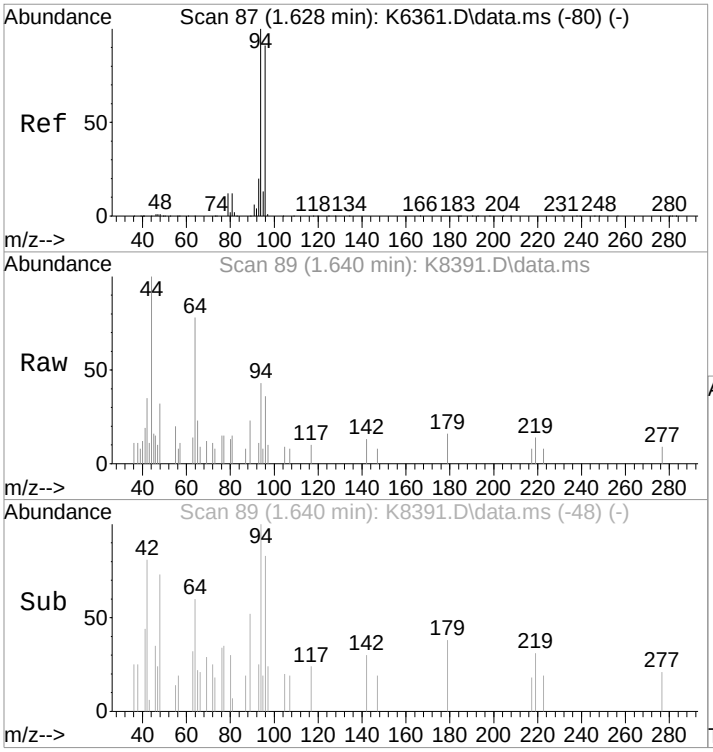
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\103021\
Data File : K8391.D
Acq On : 30 Oct 2021 7:08 pm
Operator : K.Ruest
Sample : R2111358-007|1.0 Inst : MSVOA-12
Misc : DAY 8260 T4
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Nov 02 15:57:09 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration



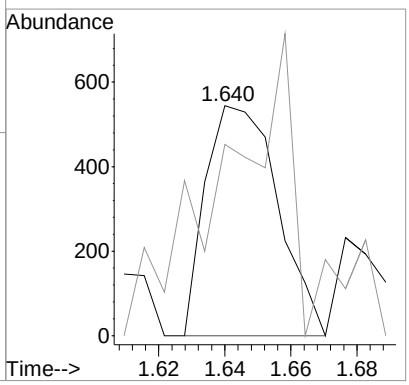
1st 11/02/21
2nd 11/02/21

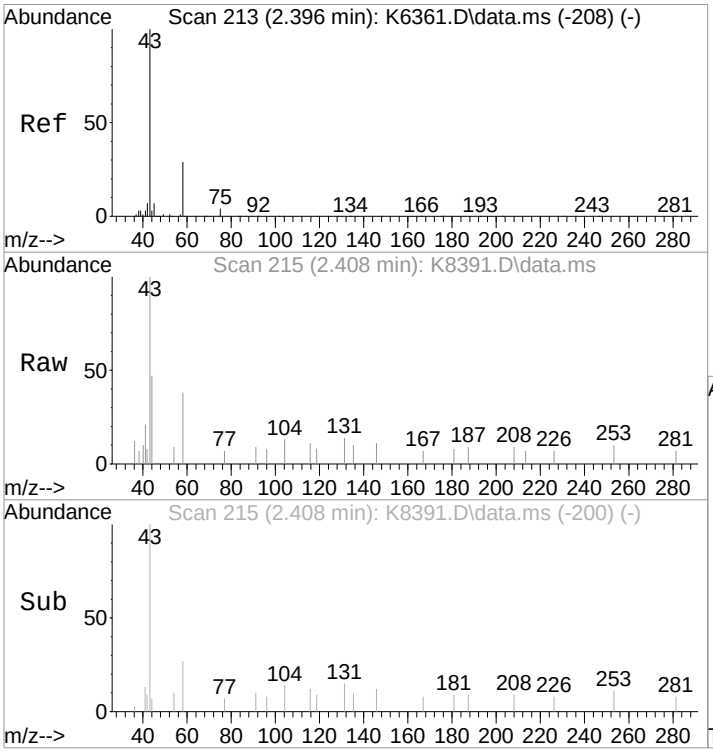


#5
Bromomethane
Concen: 0.28 ppb
RT: 1.640 min Scan# 89
Delta R.T. 0.024 min
Lab File: K8391.D
Acq: 30 Oct 2021 7:08 pm

Tgt Ion: 94 Resp: 825

Ion	Ratio	Lower	Upper
94	100		
96	83.3	71.0	111.0

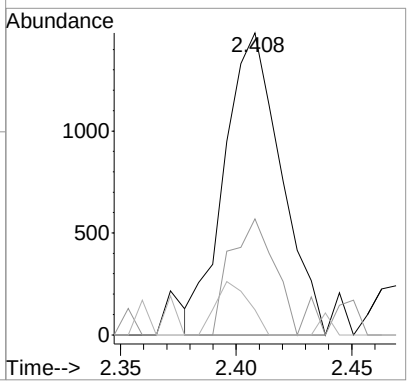


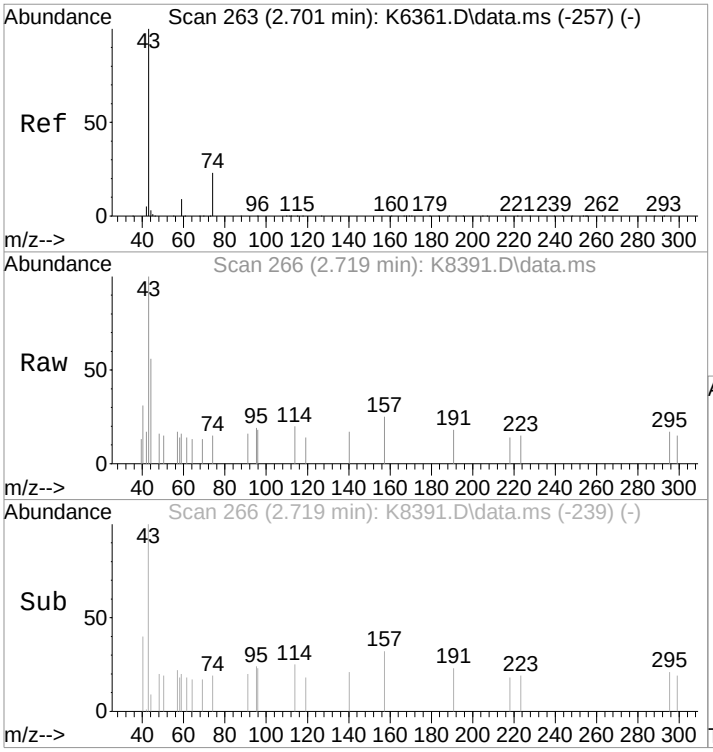


#15
Acetone
Concen: Below Cal
RT: 2.408 min Scan# 215
Delta R.T. 0.019 min
Lab File: K8391.D
Acq: 30 Oct 2021 7:08 pm

Tgt Ion: 43 Resp: 2534

Ion	Ratio	Lower	Upper
43	100		
58	38.4	9.6	49.6
42	8.4	0.0	27.7

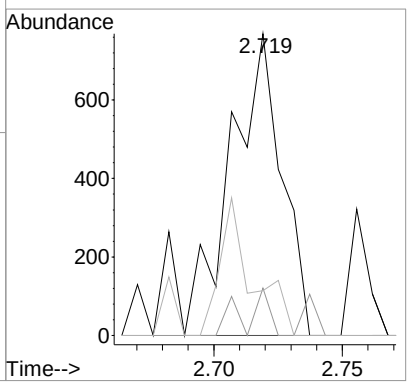




#21
Methyl Acetate
Concen: 0.25 ppb
RT: 2.719 min Scan# 266
Delta R.T. 0.024 min
Lab File: K8391.D
Acq: 30 Oct 2021 7:08 pm

Tgt Ion: 43 Resp: 1067

Ion	Ratio	Lower	Upper
43	100		
59	15.7	0.0	28.9
74	14.8	3.3	43.3



LSC Area Percent Report

Data Path : I:\ACQUDATA\msvoa12\Data\103021\
Data File : K8391.D
Acq On : 30 Oct 2021 7:08 pm
Operator : K.Ruest
Sample : R2111358-007|1.0 Inst : MSVOA-12
Misc : DAY 8260 T4
ALS Vial : 18 Sample Multiplier: 1

Integration Parameters: INTP90.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 500 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0.1 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Title : MS#12 - 8260B WATERS 10mL Purge

Signal : TIC: K8391.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.286	27	31	39	rBV2	21434	35516	1.75%	0.360%
2	1.603	74	83	87	rBV9	15474	42039	2.07%	0.426%
3	5.328	682	694	705	rBV3	186633	517798	25.48%	5.248%
4	5.456	705	715	726	rVV	364057	962113	47.34%	9.751%
5	5.853	771	780	790	rBV	264566	620487	30.53%	6.289%
6	6.523	883	890	903	rBV	614244	1262184	62.11%	12.793%
7	8.316	1176	1184	1192	rBV	1256752	2032324	100.00%	20.599%
8	9.797	1421	1427	1437	rVB	1081860	1522122	74.90%	15.427%
9	10.870	1597	1603	1610	rBV	1051761	1333940	65.64%	13.520%
10	11.211	1654	1659	1663	rBV3	17865	23051	1.13%	0.234%
11	11.833	1756	1761	1768	rBV	1228083	1514765	74.53%	15.353%

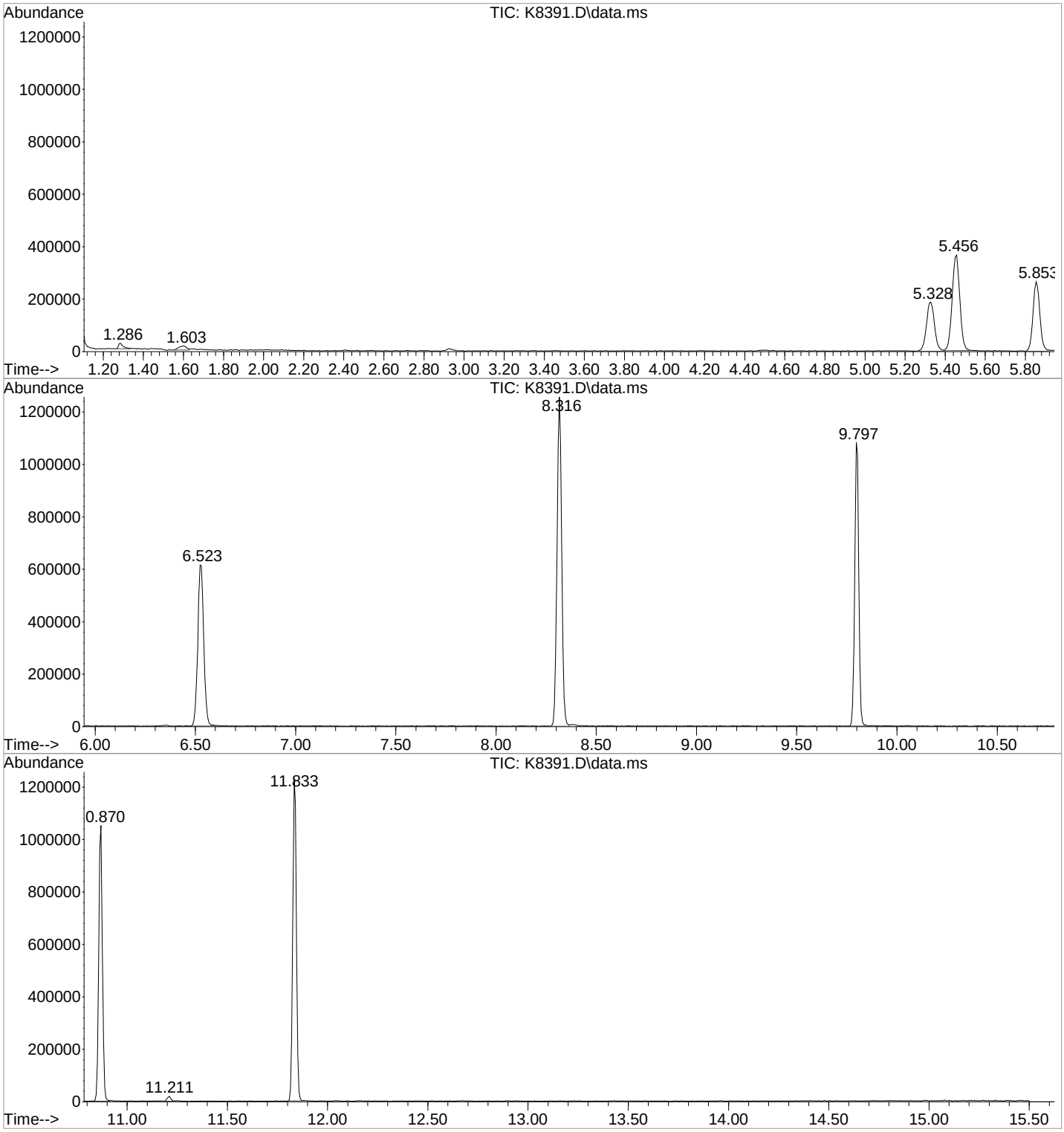
Sum of corrected areas: 9866339

LSC Report - Integrated Chromatogram

Data Path : I:\ACQUDATA\msvoa12\Data\103021\
Data File : K8391.D
Acq On : 30 Oct 2021 7:08 pm
Operator : K.Ruest
Sample : R2111358-007|1.0 Inst : MSVOA-12
Misc : DAY 8260 T4
ALS Vial : 18 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P



1st 11/04/21
2nd 11/04/21

Tentatively Identified Compound (LSC) summary

Data Path : I:\ACQUDATA\msvoa12\Data\103021\\
Data File : K8391.D
Acq On : 30 Oct 2021 7:08 pmm
Operator : K.Ruestt
Sample : R2111358-007|1.0 Inst : MSVOA-122
Misc : DAY 8260 T44
ALS Vial : 18 Sample Multiplier: 11

Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.MM
Quant Title : MS#12 - 8260B WATERS 10mL Purgee

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.LL
TIC Integration Parameters: LSCINT.PP

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

No Library Search Compounds Detected
****

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\103021\
Data File : K8376.D
Acq On : 30 Oct 2021 1:40 pm
Operator : K.Ruest
Sample : MBLK-FP Inst : MSVOA-12
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 02 15:01:30 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration

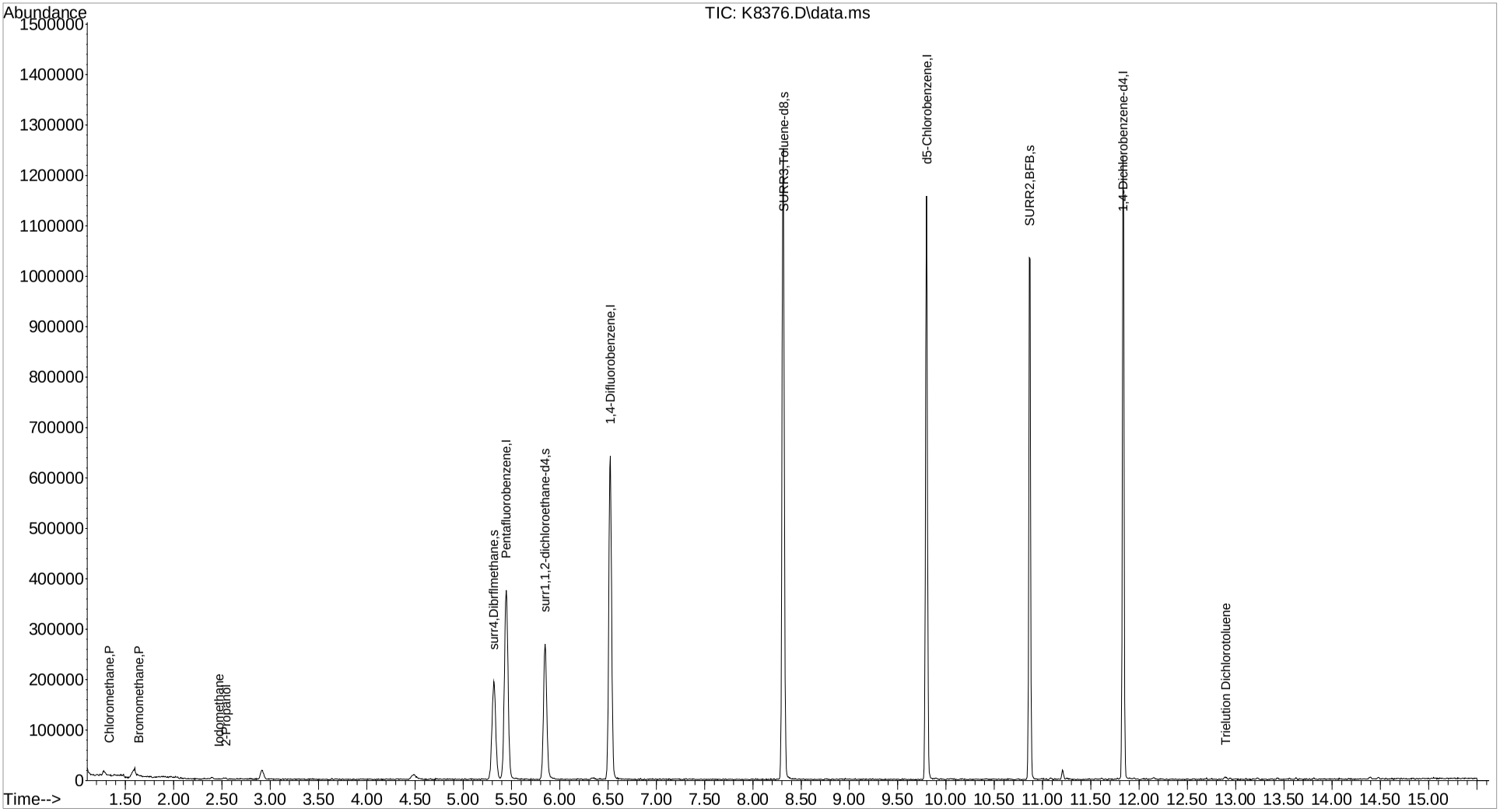
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.444	168	347630	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.523	114	577910	50.00	ppb	0.00
71) d5-Chlorobenzene	9.797	117	515701	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	11.833	152	242710	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.316	113	163450	51.95	ppb	0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 103.90%			
48) surr1,1,2-dichloroetha...	5.846	65	229582	50.19	ppb	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 100.38%			
65) SURR3,Toluene-d8	8.316	98	812107	54.92	ppb	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 109.84%			
70) SURR2,BFB	10.864	95	297261	50.64	ppb	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 101.28%			
Target Compounds						Qvalue
3) Chloromethane	1.329	50	925	0.23	ppb	# 42
5) Bromomethane	1.634	94	980	0.32	ppb	# 74
15) Acetone	2.396	43	2864	Below Cal		85
16) 2-Propanol	2.542	45	1308	2.90	ppb	93
17) Iodomethane	2.469	142	472	1.48	ppb	82
112) Trielution Dichlorotol...	12.894	125	2103	0.27	ppb	94

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

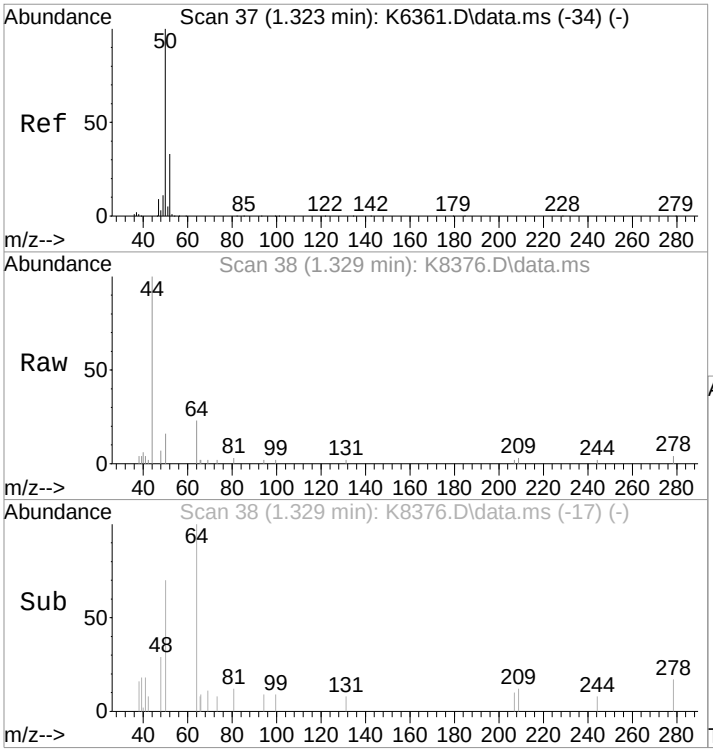
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\103021\
Data File : K8376.D
Acq On : 30 Oct 2021 1:40 pm
Operator : K.Ruest
Sample : MBLK-FP Inst : MSVOA-12
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 02 15:01:30 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration



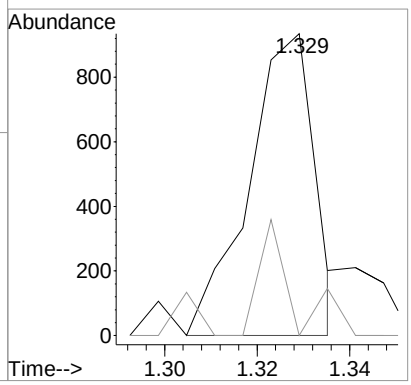
1st 11/02/21
2nd 11/02/21

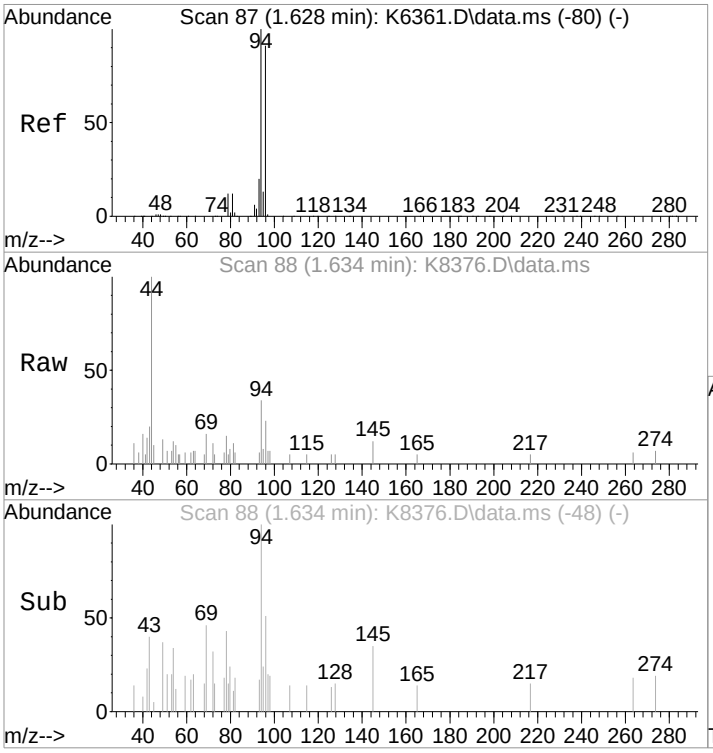


#3
Chloromethane
Concen: 0.23 ppb
RT: 1.329 min Scan# 38
Delta R.T. 0.012 min
Lab File: K8376.D
Acq: 30 Oct 2021 1:40 pm

Tgt Ion: 50 Resp: 925

Ion	Ratio	Lower	Upper
50	100		
52	0.0	12.7	52.7#

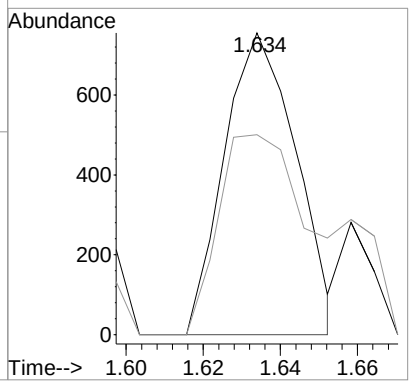


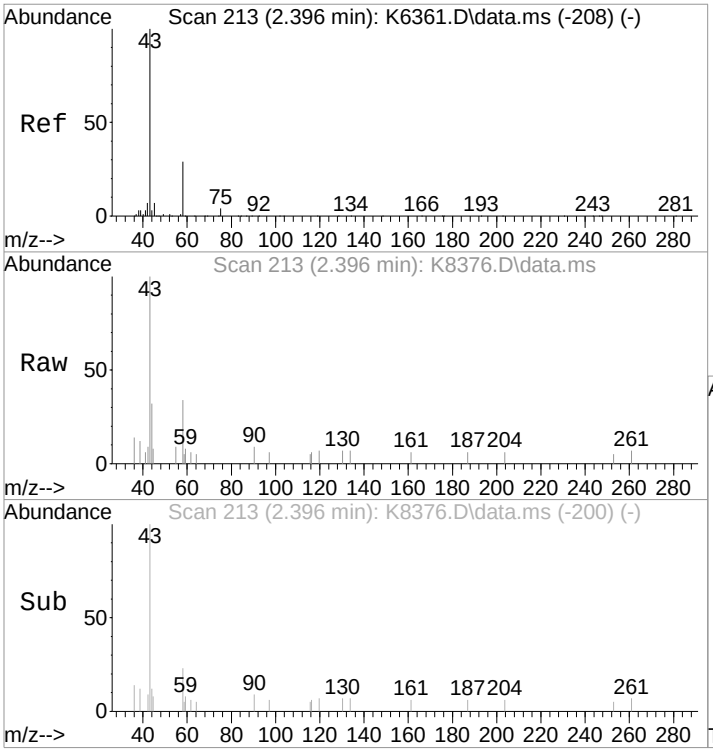


#5
Bromomethane
Concen: 0.32 ppb
RT: 1.634 min Scan# 88
Delta R.T. 0.018 min
Lab File: K8376.D
Acq: 30 Oct 2021 1:40 pm

Tgt Ion: 94 Resp: 980

Ion	Ratio	Lower	Upper
94	100		
96	66.3	71.0	111.0#

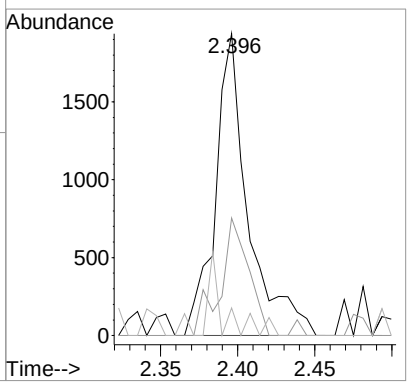


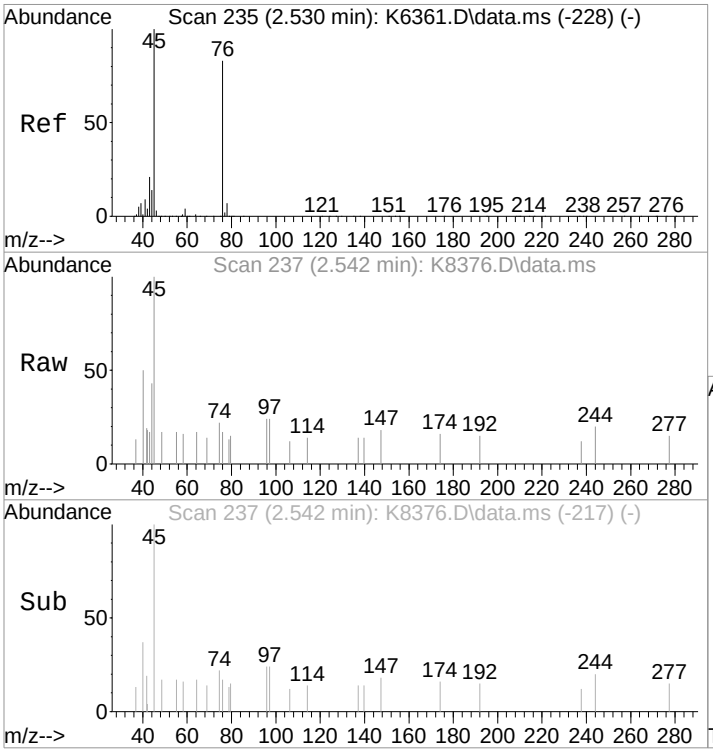


#15
Acetone
Concen: Below Cal
RT: 2.396 min Scan# 213
Delta R.T. 0.007 min
Lab File: K8376.D
Acq: 30 Oct 2021 1:40 pm

Tgt Ion: 43 Resp: 2864

Ion	Ratio	Lower	Upper
43	100		
58	39.0	9.6	49.6
42	9.2	0.0	27.7

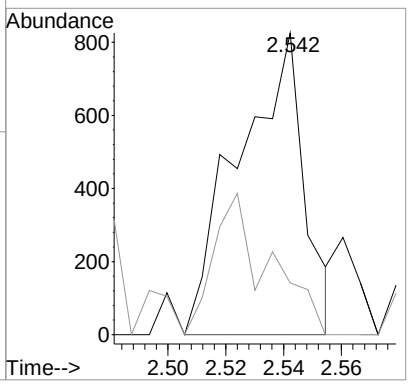


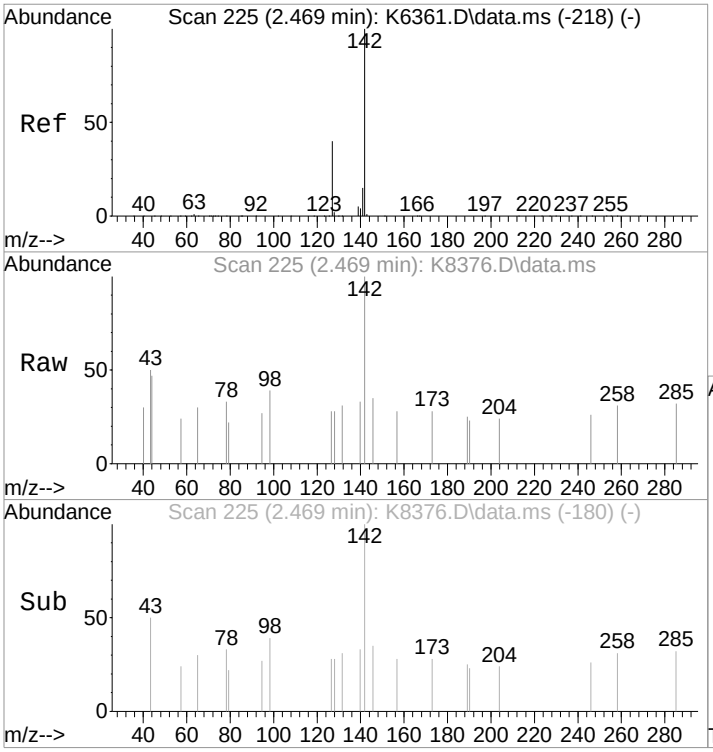


#16
2-Propanol
Concen: 2.90 ppb
RT: 2.542 min Scan# 237
Delta R.T. 0.012 min
Lab File: K8376.D
Acq: 30 Oct 2021 1:40 pm

Tgt Ion: 45 Resp: 1308

Ion	Ratio	Lower	Upper
45	100		
43	17.2	0.6	40.6

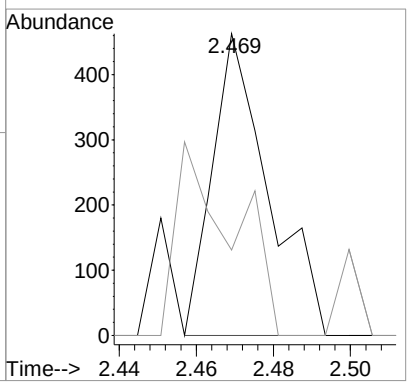


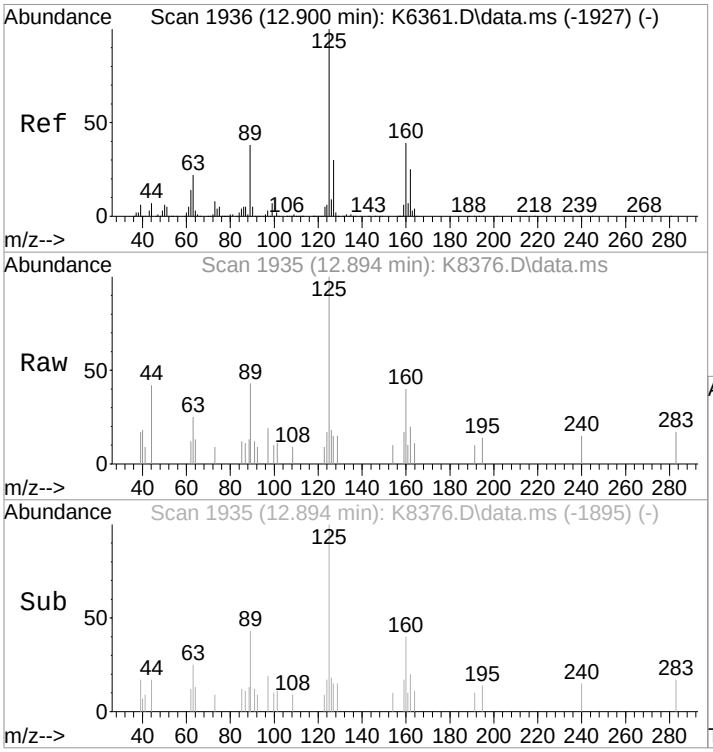


#17
Iodomethane
Concen: 1.48 ppb
RT: 2.469 min Scan# 225
Delta R.T. 0.013 min
Lab File: K8376.D
Acq: 30 Oct 2021 1:40 pm

Tgt Ion:142 Resp: 472

Ion	Ratio	Lower	Upper
142	100		
127	28.3	19.6	59.6

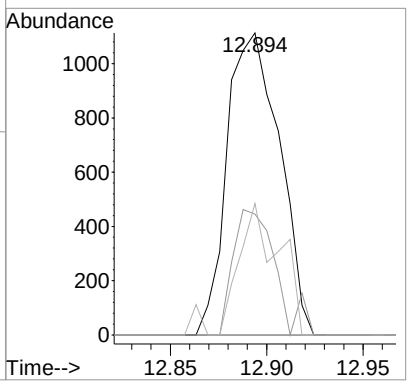




#112
Trielution Dichlorotoluene
Concen: 0.27 ppb
RT: 12.894 min Scan# 1935
Delta R.T. -0.006 min
Lab File: K8376.D
Acq: 30 Oct 2021 1:40 pm

Tgt Ion:125 Resp: 2103

Ion	Ratio	Lower	Upper
125	100		
160	39.9	31.0	46.4
89	43.4	30.4	45.6



LSC Area Percent Report

Data Path : I:\ACQUDATA\msvoa12\Data\103021\
Data File : K8376.D
Acq On : 30 Oct 2021 1:40 pm
Operator : K.Ruest
Sample : MBLK-FP Inst : MSVOA-12
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration Parameters: INTP90.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 500 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0.1 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Title : MS#12 - 8260B WATERS 10mL Purge

Signal : TIC: K8376.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.597	71	82	85	rBV5	19935	48709	2.36%	0.480%
2	2.914	292	298	306	rVB2	17615	40929	1.99%	0.403%
3	4.487	547	556	560	rBV3	10137	29215	1.42%	0.288%
4	5.316	680	692	702	rBV	194496	530992	25.76%	5.234%
5	5.444	702	713	727	rVB	374034	996546	48.34%	9.822%
6	5.847	770	779	794	rBV	268718	646164	31.34%	6.369%
7	6.523	882	890	901	rBV	640932	1304653	63.29%	12.859%
8	8.316	1176	1184	1192	rBV	1250898	2061511	100.00%	20.319%
9	9.797	1420	1427	1438	rBV	1158474	1576095	76.45%	15.534%
10	10.864	1597	1602	1611	rBV	1034271	1352337	65.60%	13.329%
11	11.205	1654	1658	1663	rBV2	18906	25136	1.22%	0.248%
12	11.833	1756	1761	1771	rVB	1234452	1533520	74.39%	15.115%

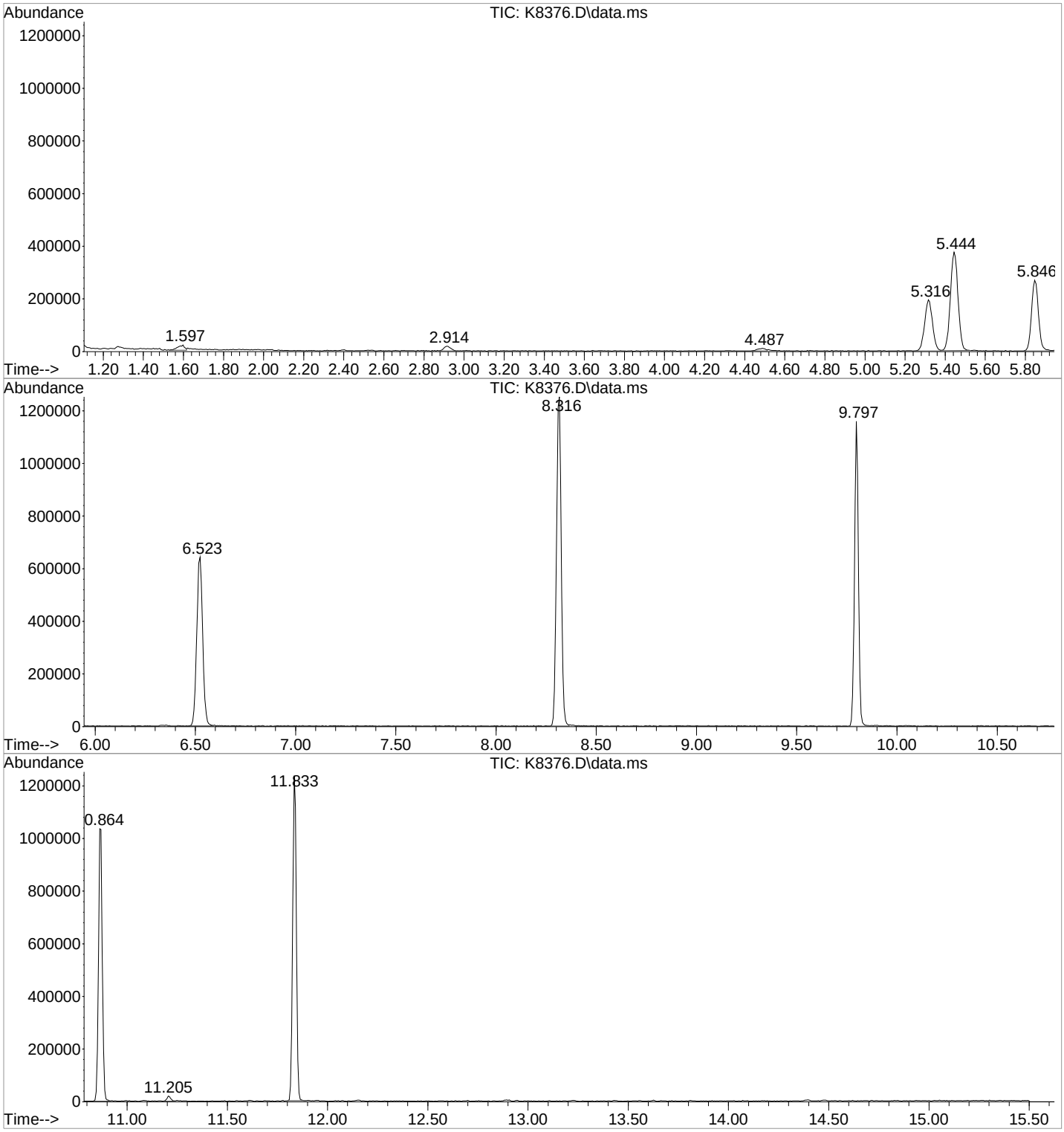
Sum of corrected areas: 10145807

LSC Report - Integrated Chromatogram

Data Path : I:\ACQUDATA\msvoa12\Data\103021\
Data File : K8376.D
Acq On : 30 Oct 2021 1:40 pm
Operator : K.Ruest
Sample : MBLK-FP Inst : MSVOA-12
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L
TIC Integration Parameters: LSCINT.P



Tentatively Identified Compound (LSC) summary

Data Path : I:\ACQUDATA\msvoa12\Data\103021\\
Data File : K8376.D
Acq On : 30 Oct 2021 1:40 pmm
Operator : K.Ruestt
Sample : MBLK-FP Inst : MSVOA-122
Misc :
ALS Vial : 3 Sample Multiplier: 11

Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.MM
Quant Title : MS#12 - 8260B WATERS 10mL Purgee

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.LL
TIC Integration Parameters: LSCINT.PP

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

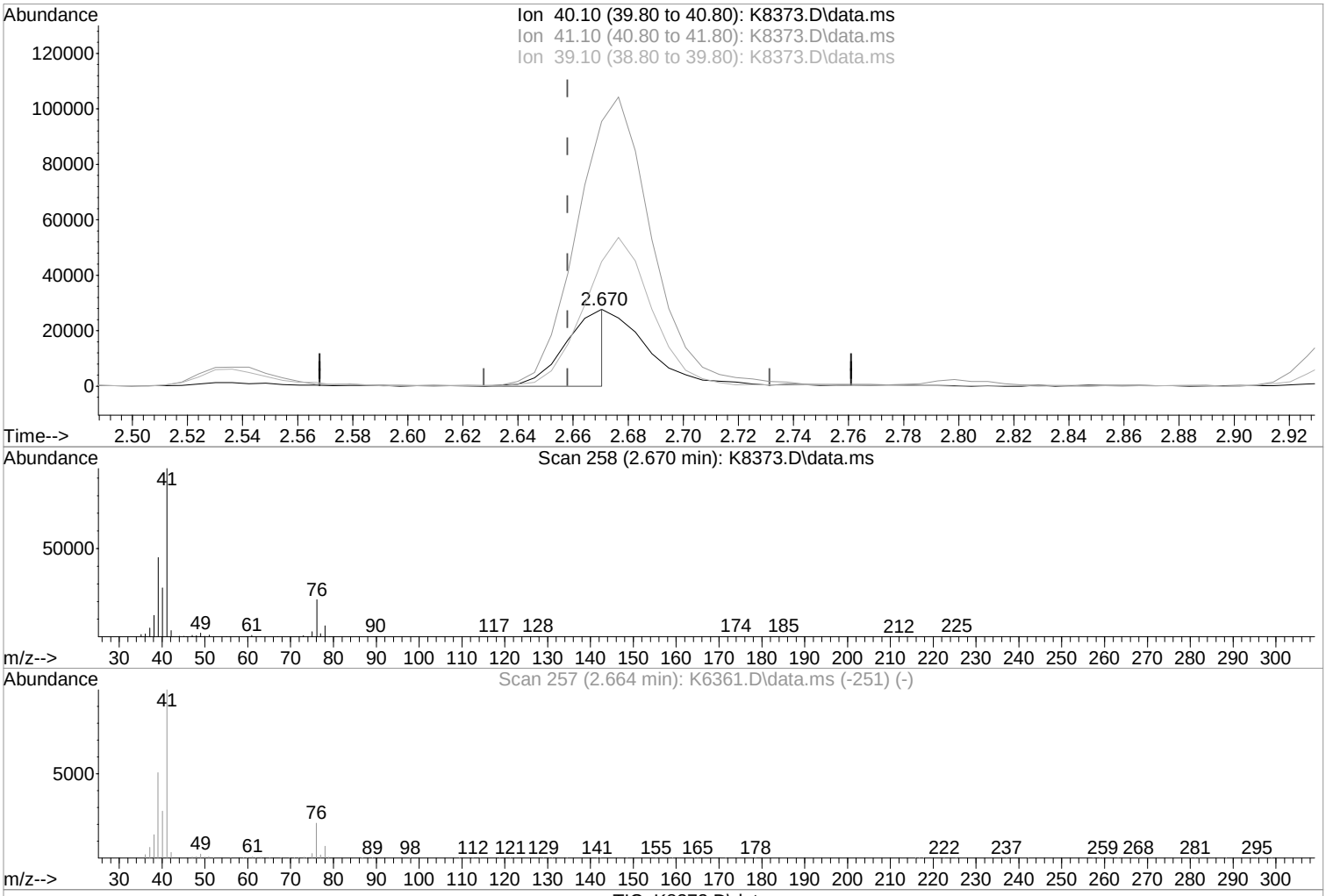
No Library Search Compounds Detected
****

1st 10/30/21
2nd 11/02/21

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\103021\
Data File : K8373.D
Acq On : 30 Oct 2021 12:22 pm
Operator : K.Ruest
Sample : LCS-FP Inst : MSVOA-12
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 30 12:38:30 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration



TIC: K8373.D\data.ms

(19) Acetonitrile

2.670min (+0.012) 97.65 ppb m

response 29483

Ion	Exp%	Act%
40.10	100	100
41.10	356.60	344.30
39.10	180.50	161.93
0.00	0.00	0.00

Manual Integration:

After

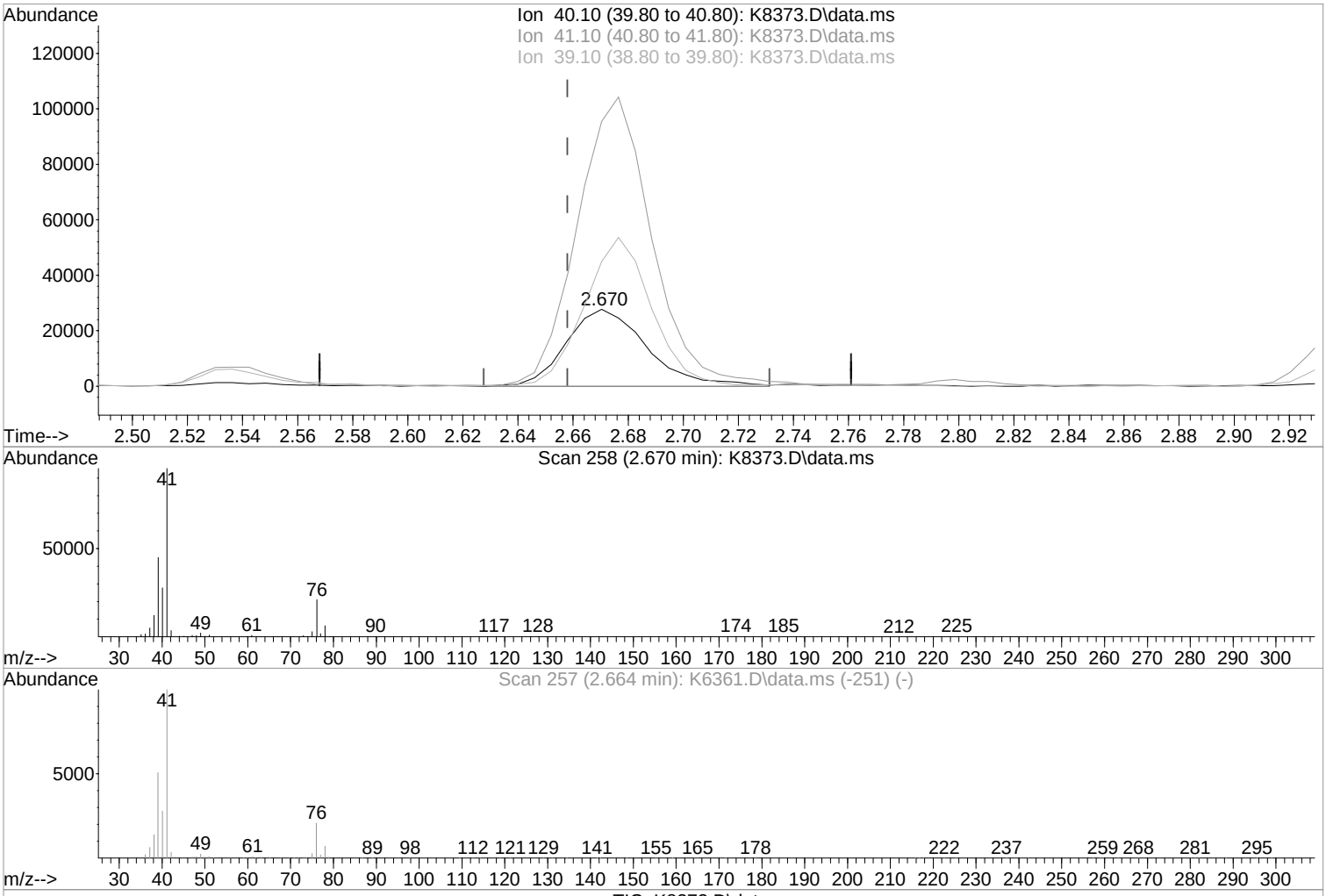
Poor integration.

10/30/21

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\103021\
Data File : K8373.D
Acq On : 30 Oct 2021 12:22 pm
Operator : K.Ruest
Sample : LCS-FP Inst : MSVOA-12
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 30 12:38:30 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration



TIC: K8373.D\data.ms

(19) Acetonitrile

2.670min (+0.012) 185.81 ppb

response 56099

Ion	Exp%	Act%
40.10	100	100
41.10	356.60	344.30
39.10	180.50	161.93
0.00	0.00	0.00

Manual Integration:

Before

10/30/21

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\103021\
Data File : K8373.D
Acq On : 30 Oct 2021 12:22 pm
Operator : K.Ruest
Sample : LCS-FP Inst : MSVOA-12
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 30 12:49:00 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.450	168	348399	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.523	114	563979	50.00	ppb		0.00
71) d5-Chlorobenzene	9.797	117	508663	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	11.833	152	246508	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.322	113	167153	54.44	ppb		0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 108.88%				
48) surr1,1,2-dichloroetha...	5.853	65	225462	50.50	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 101.00%				
65) SURR3,Toluene-d8	8.316	98	802111	55.58	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 111.16%				
70) SURR2,BFB	10.864	95	295395	51.57	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 103.14%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.207	85	92960	19.77	ppb		97
3) Chloromethane	1.335	50	106725	26.37	ppb		94
4) Vinyl Chloride	1.408	62	101224	21.48	ppb		99
5) Bromomethane	1.640	94	65934	21.44	ppb		100
6) Chloroethane	1.719	64	63793	20.62	ppb		93
7) Freon 21	1.872	67	123637	16.44	ppb		95
8) Trichlorofluoromethane	1.914	101	100657	16.85	ppb		98
9) Diethyl Ether	2.146	59	78869	21.38	ppb		99
10) Freon 123a	2.158	67	81342	18.21	ppb		97
11) Freon 123	2.213	83	88861	18.23	ppb		96
12) Acrolein	2.268	56	35828	36.46	ppb		99
13) 1,1-Diclethene	2.341	96	67128	19.81	ppb	#	83
14) Freon 113	2.335	101	58931	17.81	ppb		95
15) Acetone	2.402	43	37860	17.29	ppb		97
16) 2-Propanol	2.536	45	179530	396.95	ppb		95
17) Iodomethane	2.475	142	74760	19.79	ppb		88
18) Carbon Disulfide	2.530	76	195913	23.90	ppb		97
19) Acetonitrile	2.670	40	29483m	97.65	ppb		
20) Allyl Chloride	2.676	76	41793	20.10	ppb	#	93
21) Methyl Acetate	2.713	43	98122	22.09	ppb		98
22) Methylene Chloride	2.804	84	79509	19.67	ppb	#	87
23) TBA	2.945	59	314994	400.57	ppb		95
24) Acrylonitrile	3.085	53	231681	103.83	ppb		97
25) Methyl-t-Butyl Ether	3.091	73	278313	20.44	ppb		99
26) trans-1,2-Dichloroethene	3.085	96	72203	19.48	ppb		99
28) 1,1-Diclethane	3.597	63	133574	19.16	ppb		96
29) Vinyl Acetate	3.695	86	13468	13.59	ppb	#	43
30) DIPE	3.701	45	261490	20.98	ppb		89
31) 2-Chloro-1,3-Butadiene	3.713	53	122468	20.55	ppb		96
32) ETBE	4.231	59	254379	20.18	ppb		95
33) 2,2-Dichloropropane	4.438	77	115572	19.88	ppb		94
34) cis-1,2-Dichloroethene	4.450	96	85191	19.95	ppb		86
35) 2-Butanone	4.518	43	54679	18.17	ppb		94
36) Propionitrile	4.633	54	94567	96.87	ppb		97
37) Bromochloromethane	4.859	130	51002	20.92	ppb		93
38) Methacrylonitrile	4.889	67	48047	20.25	ppb		83
39) Tetrahydrofuran	4.944	42	37488	18.67	ppb		96
40) Chloroform	5.036	83	130292	18.90	ppb		94
41) 1,1,1-Trichloroethane	5.304	97	102569	18.39	ppb		93

1st 10/30/21
2nd 11/02/21

Data Path : I:\ACQUDATA\msvoa12\Data\103021\
Data File : K8373.D
Acq On : 30 Oct 2021 12:22 pm
Operator : K.Ruest
Sample : LCS-FP Inst : MSVOA-12
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 30 12:49:00 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) TAME	6.133	73	271410	22.19	ppb	94
44) Cyclohexane	5.365	41	66901	17.93	ppb	94
46) Carbontetrachloride	5.566	117	74587	17.17	ppb	99
47) 1,1-Dichloropropene	5.584	75	101202	19.72	ppb	98
49) Benzene	5.908	78	319789	20.00	ppb	99
50) 1,2-Dichloroethane	5.968	62	108038	17.99	ppb	96
51) Iso-Butyl Alcohol	5.956	43	122733	380.61	ppb	99
52) n-Heptane	6.353	43	87911	18.20	ppb	94
53) 1-Butanol	6.901	56	222611	1061.22	ppb	96
54) Trichloroethene	6.840	130	77472	19.52	ppb	90
55) Methylcyclohexane	7.054	55	101121	19.37	ppb	98
56) 1,2-Diclpropane	7.133	63	83028	20.02	ppb	97
57) Dibromomethane	7.273	93	49484	20.82	ppb	93
58) 1,4-Dioxane	7.340	88	36701	403.84	ppb	85
59) Methyl Methacrylate	7.352	69	78108	20.52	ppb	98
60) Bromodichloromethane	7.499	83	97317	19.39	ppb	97
63) cis-1,3-Dichloropropene	8.035	75	133539	22.04	ppb	96
64) 4-Methyl-2-pentanone	8.242	43	108304	19.59	ppb	98
66) Toluene	8.389	91	345517	20.18	ppb	96
67) trans-1,3-Dichloropropene	8.669	75	125239	22.29	ppb	94
68) Ethyl Methacrylate	8.797	69	125422	20.23	ppb	99
69) 1,1,2-Trichloroethane	8.858	97	78719	20.58	ppb	98
72) Tetrachloroethene	8.968	164	53634	18.30	ppb	98
73) 2-Hexanone	9.145	43	79523	19.85	ppb	98
74) 1,3-Dichloropropane	9.029	76	144091	21.25	ppb	97
75) Dibromochloromethane	9.248	129	64897	21.04	ppb	94
76) N-Butyl Acetate	9.291	43	150515	19.68	ppb	98
77) 1,2-Dibromoethane	9.346	107	79694	21.26	ppb	92
78) Chlorobenzene	9.828	112	220880	20.41	ppb	92
79) 3-CBTF	9.840	180	106542	20.12	ppb	94
80) 4-CBTF	9.895	180	99561	20.28	ppb	95
81) 1,1,1,2-Tetrachloroethane	9.913	131	69255	21.57	ppb	99
82) Ethylbenzene	9.937	106	114174	19.14	ppb	98
83) (m+p)Xylene	10.047	106	285469	39.60	ppb	98
84) o-Xylene	10.407	106	141903	19.93	ppb	92
85) Styrene	10.425	104	248355	20.84	ppb	95
87) Bromoform	10.583	173	43320	22.62	ppb	98
88) 2-CBTF	10.657	180	104599	20.71	ppb	90
89) Isopropylbenzene	10.736	105	336447	20.12	ppb	100
90) Cyclohexanone	10.821	55	105900	118.43	ppb	99
91) trans-1,4-Dichloro-2-B...	11.059	53	31042	22.06	ppb	82
92) 1,1,2,2-Tetrachloroethane	11.010	83	115039	22.18	ppb	99
93) Bromobenzene	10.992	156	89595	20.81	ppb	97
94) 1,2,3-Trichloropropane	11.041	110	37225	20.30	ppb	95
95) n-Propylbenzene	11.089	91	429197	20.57	ppb	99
96) 2-Chlorotoluene	11.156	91	253419	19.18	ppb	97
97) 3-Chlorotoluene	11.211	91	282010	21.35	ppb	98
98) 4-Chlorotoluene	11.248	91	301271	20.31	ppb	99
99) 1,3,5-Trimethylbenzene	11.242	105	305027	19.63	ppb	97
100) tert-Butylbenzene	11.510	119	245349	19.21	ppb	98
101) 1,2,4-Trimethylbenzene	11.553	105	304990	19.68	ppb	99
102) 3,4-DCBTF	11.614	214	84370	20.24	ppb	94
103) sec-Butylbenzene	11.693	105	371513	20.27	ppb	99
104) p-Isopropyltoluene	11.815	119	317356	19.76	ppb	96
105) 1,3-Dclbenz	11.778	146	168098	19.97	ppb	95
106) 1,4-Dclbenz	11.851	146	173709	19.17	ppb	98

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\103021\
Data File : K8373.D
Acq On : 30 Oct 2021 12:22 pm
Operator : K.Ruest
Sample : LCS-FP Inst : MSVOA-12
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 30 12:49:00 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration

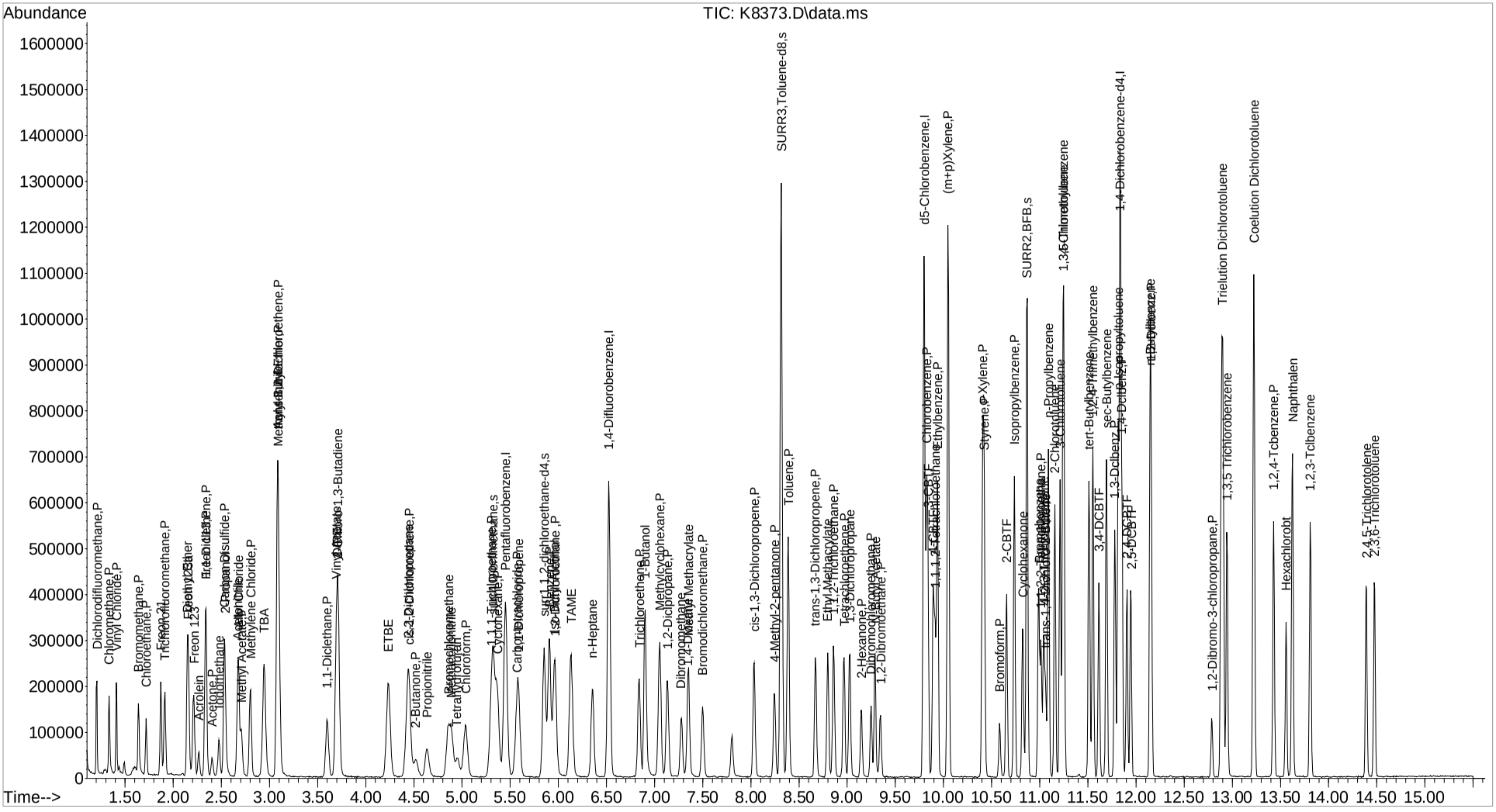
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
107) 2,4-DCBTF	11.906	214	75538	20.61	ppb	96
108) 2,5-DCBTF	11.949	214	86462	21.26	ppb	97
109) n-Butylbenzene	12.144	91	294271	19.82	ppb	97
110) 1,2-Dclbenz	12.156	146	172593	20.59	ppb	96
111) 1,2-Dibromo-3-chloropr...	12.790	157	27472	24.37	ppb	90
112) Trielution Dichlorotol...	12.894	125	477563	60.53	ppb	96
113) 1,3,5 Trichlorobenzene	12.943	180	127468	20.64	ppb	99
114) Coelution Dichlorotoluene	13.223	125	356889	41.75	ppb	99
115) 1,2,4-Tcbenzene	13.430	180	130256	21.55	ppb	97
116) Hexachlorobt	13.558	225	46882	19.69	ppb	92
117) Naphthalen	13.626	128	431646	22.72	ppb	98
118) 1,2,3-Tclbenzene	13.808	180	131585	21.74	ppb	97
119) 2,4,5-Trichlorotolene	14.394	159	88824	20.89	ppb	96
120) 2,3,6-Trichlorotoluene	14.479	159	80797	20.41	ppb	93

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

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\103021\
Data File : K8373.D
Acq On : 30 Oct 2021 12:22 pm
Operator : K.Ruest
Sample : LCS-FP Inst : MSVOA-12
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 30 12:49:00 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration

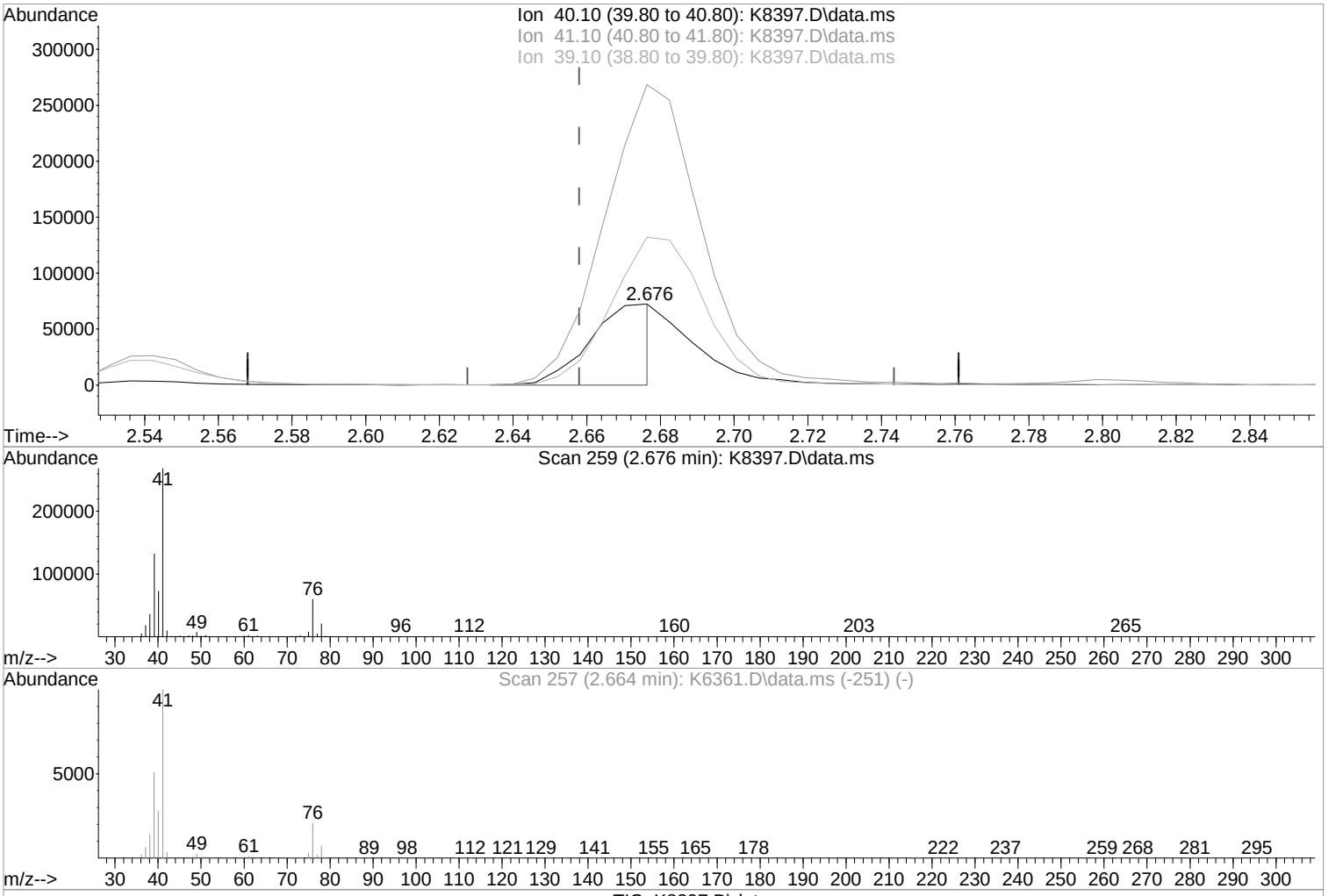


1st 11/02/21
2nd 11/02/21

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\103021\
Data File : K8397.D
Acq On : 30 Oct 2021 9:19 pm
Operator : K.Ruest
Sample : R2111358-003MS|1.0 Inst : MSVOA-12
Misc : DAY 8260 T4
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Nov 01 11:13:28 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration



TIC: K8397.D\data.ms

(19) Acetonitrile

2.676min (+0.018) 293.90 ppb m

response 88127

Ion	Exp%	Act%
40.10	100	100
41.10	356.60	371.33
39.10	180.50	182.74
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

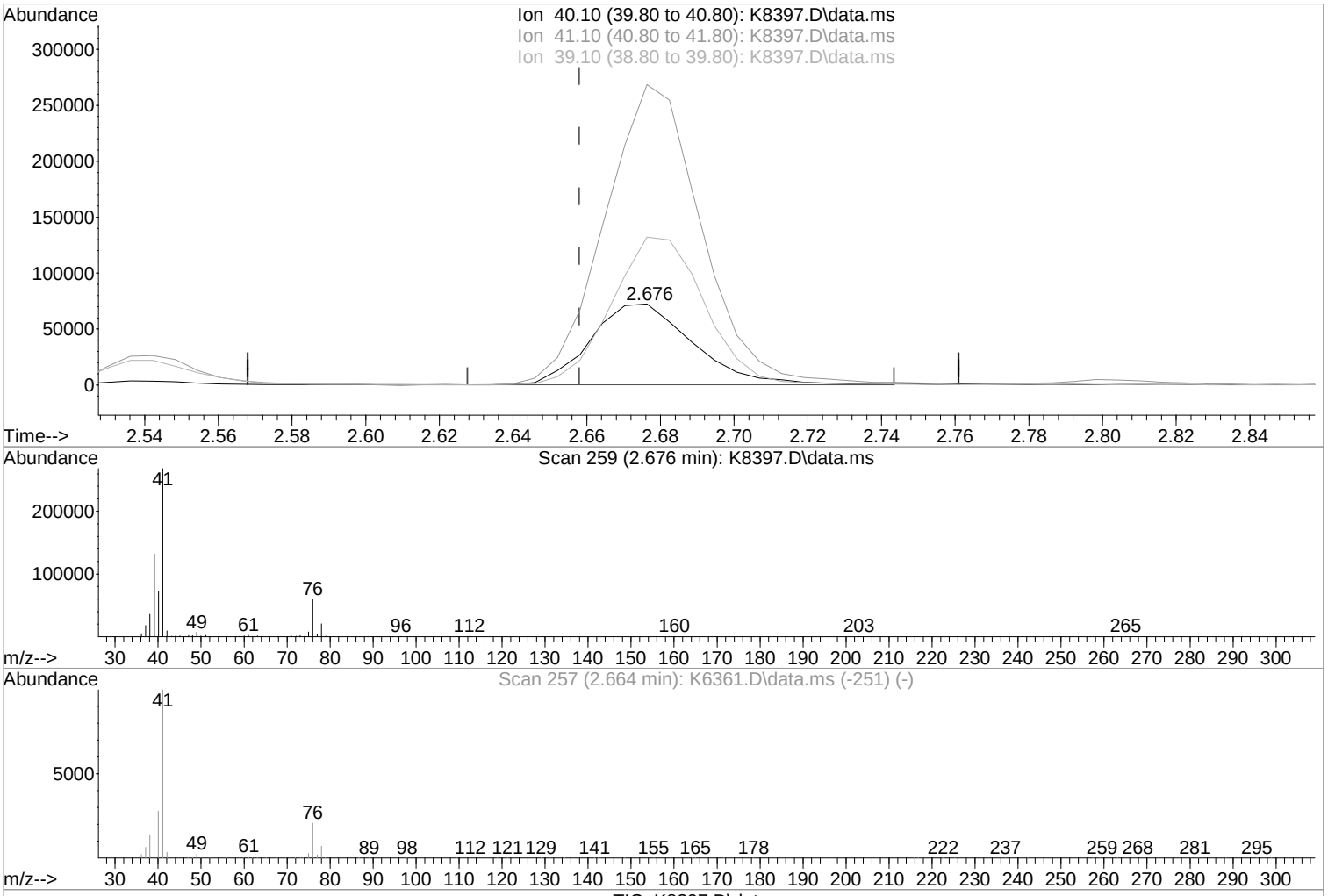
11/02/21

1st 11/02/21
2nd 11/02/21

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\103021\
Data File : K8397.D
Acq On : 30 Oct 2021 9:19 pm
Operator : K.Ruest
Sample : R2111358-003MS|1.0 Inst : MSVOA-12
Misc : DAY 8260 T4
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Nov 01 11:13:28 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration



TIC: K8397.D\data.ms

(19) Acetonitrile

2.676min (+0.018) 469.90 ppb

response 140900

Ion	Exp%	Act%
40.10	100	100
41.10	356.60	371.33
39.10	180.50	182.74
0.00	0.00	0.00

Manual Integration:

Before

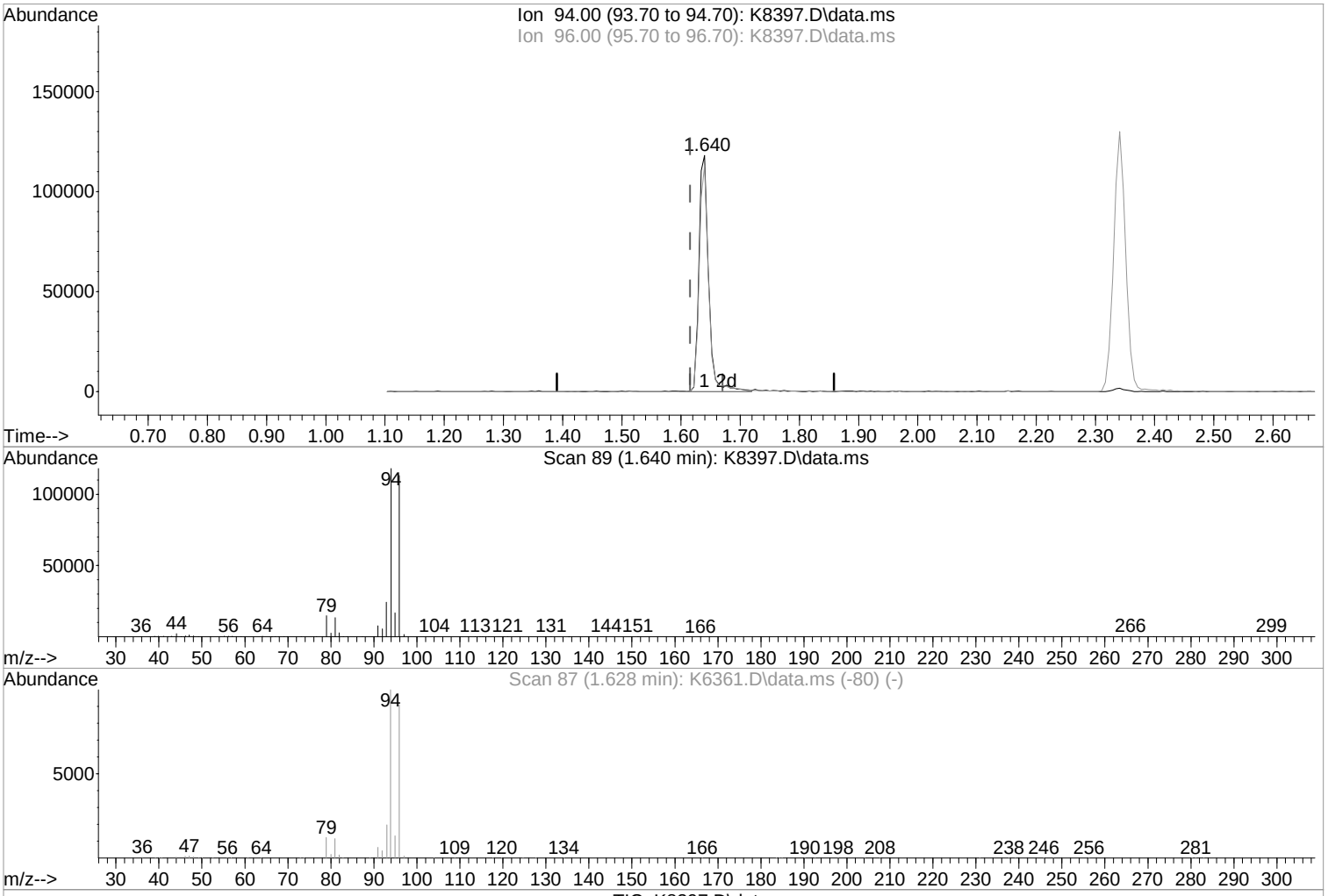
11/02/21

1st 11/02/21
2nd 11/02/21

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\103021\
Data File : K8397.D
Acq On : 30 Oct 2021 9:19 pm
Operator : K.Ruest
Sample : R2111358-003MS|1.0 Inst : MSVOA-12
Misc : DAY 8260 T4
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Nov 01 11:13:28 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration



TIC: K8397.D\data.ms

(5) Bromomethane (P)

1.640min (+0.024) 44.08 ppb m

response 134621

Ion	Exp%	Act%
94.00	100	100
96.00	91.00	95.73
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

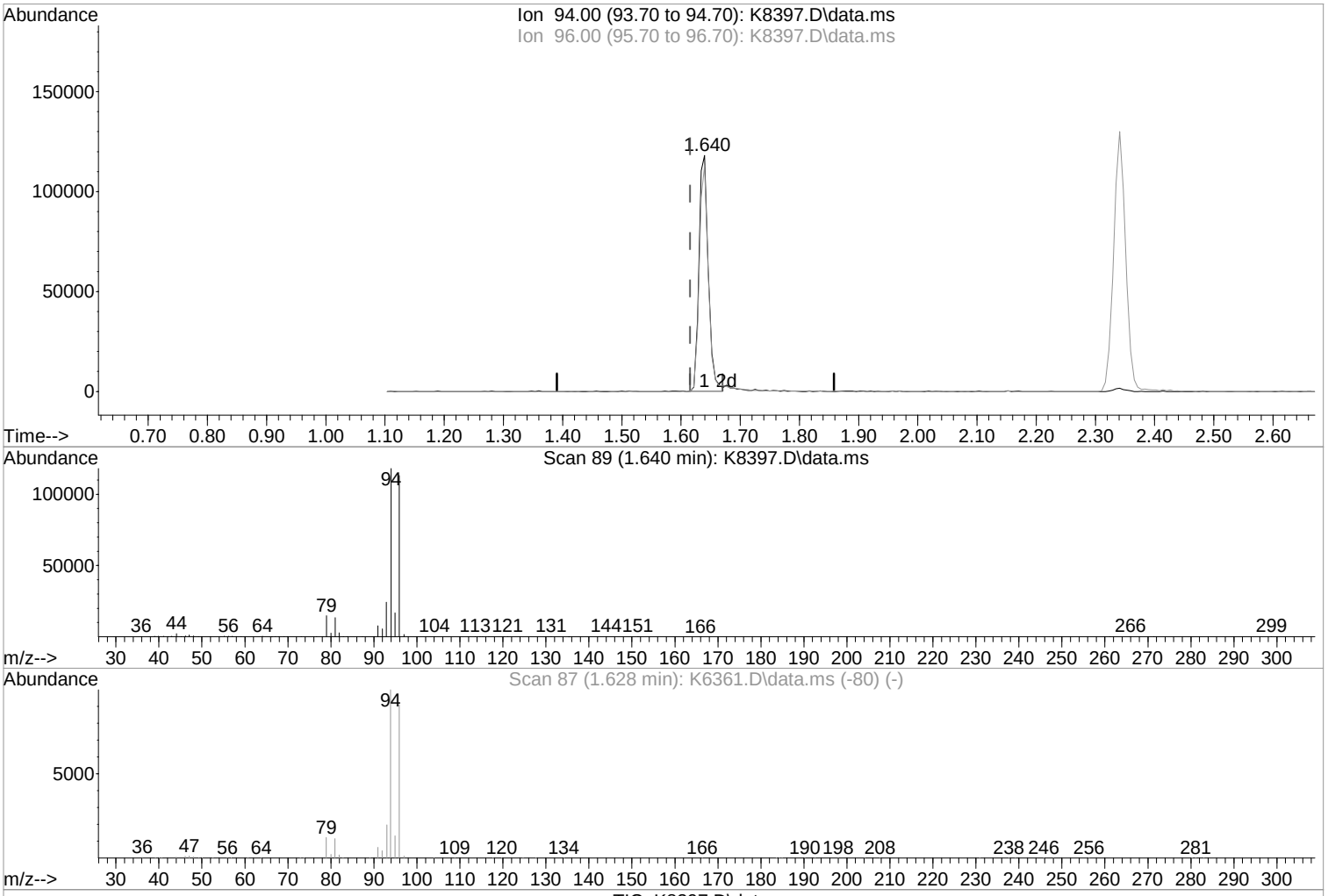
Poor integration.

11/02/21

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\103021\
Data File : K8397.D
Acq On : 30 Oct 2021 9:19 pm
Operator : K.Ruest
Sample : R2111358-003MS|1.0 Inst : MSVOA-12
Misc : DAY 8260 T4
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Nov 01 11:13:28 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration



TIC: K8397.D\data.ms

(5) Bromomethane (P)

1.640min (+0.024) 42.64 ppb

response 130207

Ion	Exp%	Act%
94.00	100	100
96.00	91.00	95.73
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

11/02/21

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\103021\
Data File : K8397.D
Acq On : 30 Oct 2021 9:19 pm
Operator : K.Ruest
Sample : R2111358-003MS|1.0 Inst : MSVOA-12
Misc : DAY 8260 T4
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Nov 02 16:12:45 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.456	168	346021	50.00	ppb		0.01
43) 1,4-Difluorobenzene	6.529	114	566557	50.00	ppb		0.00
71) d5-Chlorobenzene	9.797	117	504986	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	11.833	152	254595	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.328	113	166607	54.02	ppb		0.01
Spiked Amount 50.000	Range 80 - 116		Recovery = 108.04%				
48) surr1,1,2-dichloroetha...	5.853	65	221652	49.42	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 98.84%				
65) SURR3,Toluene-d8	8.316	98	793725	54.75	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 109.50%				
70) SURR2,BFB	10.870	95	295884	51.42	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 102.84%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.207	85	256456	54.92	ppb		98
3) Chloromethane	1.335	50	271189	67.48	ppb		100
4) Vinyl Chloride	1.414	62	286414	61.19	ppb		99
5) Bromomethane	1.640	94	134621m	44.08	ppb		
6) Chloroethane	1.719	64	178276	58.03	ppb		99
7) Freon 21	1.872	67	347551	46.52	ppb		100
8) Trichlorofluoromethane	1.914	101	287321	48.42	ppb		99
9) Diethyl Ether	2.152	59	196356	53.58	ppb		97
10) Freon 123a	2.158	67	239537	53.98	ppb		93
11) Freon 123	2.213	83	256450	52.96	ppb		98
12) Acrolein	2.268	56	76068	77.94	ppb		98
13) 1,1-Diclethene	2.341	96	184400	54.80	ppb	#	80
14) Freon 113	2.341	101	169425	51.55	ppb		99
15) Acetone	2.408	43	131721	68.11	ppb		91
16) 2-Propanol	2.542	45	618024	1375.89	ppb		97
17) Iodomethane	2.481	142	224504	55.44	ppb		91
18) Carbon Disulfide	2.530	76	497871	61.14	ppb		99
19) Acetonitrile	2.676	40	88127m	293.90	ppb		
20) Allyl Chloride	2.682	76	105980	51.32	ppb		95
21) Methyl Acetate	2.713	43	223408	50.64	ppb		100
22) Methylene Chloride	2.804	84	203309	50.65	ppb		94
23) TBA	2.951	59	789638	1011.08	ppb		95
24) Acrylonitrile	3.085	53	570095	257.24	ppb		100
25) Methyl-t-Butyl Ether	3.097	73	677291	50.07	ppb		100
26) trans-1,2-Dichloroethene	3.091	96	197259	53.58	ppb		97
28) 1,1-Diclethane	3.603	63	360274	52.03	ppb		97
29) Vinyl Acetate	3.694	86	29396	29.87	ppb	#	62
30) DIPE	3.707	45	699052	56.48	ppb	#	83
31) 2-Chloro-1,3-Butadiene	3.719	53	319370	53.96	ppb		95
32) ETBE	4.237	59	666883	53.27	ppb		97
33) 2,2-Dichloropropane	4.438	77	236826	41.03	ppb		95
34) cis-1,2-Dichloroethene	4.457	96	221726	52.28	ppb		98
35) 2-Butanone	4.530	43	144182	48.24	ppb		89
36) Propionitrile	4.633	54	240801	248.35	ppb		99
37) Bromochloromethane	4.859	130	131099	54.15	ppb		90
38) Methacrylonitrile	4.895	67	119978	50.93	ppb		86
39) Tetrahydrofuran	4.956	42	99211	49.76	ppb		99
40) Chloroform	5.036	83	333440	49.49	ppb		98
41) 1,1,1-Trichloroethane	5.310	97	285381	51.51	ppb		100

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\103021\
Data File : K8397.D
Acq On : 30 Oct 2021 9:19 pm
Operator : K.Ruest
Sample : R2111358-003MS|1.0 Inst : MSVOA-12
Misc : DAY 8260 T4
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Nov 02 16:12:45 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) TAME	6.133	73	696069	57.29	ppb	97
44) Cyclohexane	5.371	41	187938	50.13	ppb	99
46) Carbontetrachloride	5.572	117	213426	48.91	ppb	98
47) 1,1-Dichloropropene	5.590	75	280425	54.39	ppb	95
49) Benzene	5.914	78	870519	54.20	ppb	100
50) 1,2-Dichloroethane	5.975	62	281544	46.66	ppb	98
51) Iso-Butyl Alcohol	5.962	43	320882	990.56	ppb	96
52) n-Heptane	6.359	43	218222	44.98	ppb	97
53) 1-Butanol	6.901	56	589564	2797.76	ppb	98
54) Trichloroethene	6.840	130	206206	51.72	ppb	93
55) Methylcyclohexane	7.054	55	279704	53.33	ppb	96
56) 1,2-Diclpropane	7.133	63	216192	51.89	ppb	97
57) Dibromomethane	7.279	93	123078	51.54	ppb	95
58) 1,4-Dioxane	7.340	88	91118	998.05	ppb	100
59) Methyl Methacrylate	7.352	69	201531	52.70	ppb	97
60) Bromodichloromethane	7.499	83	246051	48.79	ppb	96
63) cis-1,3-Dichloropropene	8.035	75	328602	53.98	ppb	97
64) 4-Methyl-2-pentanone	8.242	43	277702	50.01	ppb	99
66) Toluene	8.389	91	952903	55.39	ppb	99
67) trans-1,3-Dichloropropene	8.669	75	302152	53.53	ppb	96
68) Ethyl Methacrylate	8.797	69	312563	50.19	ppb	95
69) 1,1,2-Trichloroethane	8.858	97	198850	51.74	ppb	97
72) Tetrachloroethene	8.968	164	153850	52.86	ppb	96
73) 2-Hexanone	9.145	43	202908	51.03	ppb	98
74) 1,3-Dichloropropane	9.029	76	357033	53.04	ppb	98
75) Dibromochloromethane	9.248	129	157640	51.49	ppb	94
76) N-Butyl Acetate	9.291	43	346629	45.65	ppb	99
77) 1,2-Dibromoethane	9.346	107	194777	52.35	ppb	92
78) Chlorobenzene	9.827	112	586201	54.55	ppb	94
79) 3-CBTF	9.840	180	300529	57.18	ppb	95
80) 4-CBTF	9.894	180	267123	54.81	ppb	99
81) 1,1,1,2-Tetrachloroethane	9.913	131	188285	59.07	ppb	97
82) Ethylbenzene	9.937	106	324814	54.85	ppb	93
83) (m+p)Xylene	10.053	106	808243	112.92	ppb	98
84) o-Xylene	10.407	106	393624	55.68	ppb	93
85) Styrene	10.425	104	664541	56.17	ppb	97
87) Bromoform	10.583	173	104422	52.80	ppb	97
88) 2-CBTF	10.657	180	298039	57.14	ppb	92
89) Isopropylbenzene	10.736	105	1009006	58.43	ppb	99
90) Cyclohexanone	10.821	55	273426	296.07	ppb	100
91) trans-1,4-Dichloro-2-B...	11.059	53	69712	46.67	ppb	84
92) 1,1,2,2-Tetrachloroethane	11.010	83	303032	56.58	ppb	95
93) Bromobenzene	10.992	156	232912	52.39	ppb	97
94) 1,2,3-Trichloropropane	11.041	110	92571	50.07	ppb	94
95) n-Propylbenzene	11.089	91	1242751	57.66	ppb	98
96) 2-Chlorotoluene	11.156	91	706571	51.79	ppb	97
97) 3-Chlorotoluene	11.211	91	768604	56.35	ppb	99
98) 4-Chlorotoluene	11.248	91	811795	52.99	ppb	97
99) 1,3,5-Trimethylbenzene	11.242	105	884930	55.14	ppb	98
100) tert-Butylbenzene	11.510	119	720006	54.59	ppb	98
101) 1,2,4-Trimethylbenzene	11.553	105	871352	54.44	ppb	99
102) 3,4-DCBTF	11.614	214	222295	51.63	ppb	96
103) sec-Butylbenzene	11.693	105	1083616	57.24	ppb	100
104) p-Isopropyltoluene	11.815	119	905669	54.59	ppb	98
105) 1,3-Dclbenz	11.778	146	455498	52.40	ppb	97
106) 1,4-Dclbenz	11.851	146	460041	49.16	ppb	97

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\103021\
Data File : K8397.D
Acq On : 30 Oct 2021 9:19 pm
Operator : K.Ruest
Sample : R2111358-003MS|1.0 Inst : MSVOA-12
Misc : DAY 8260 T4
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Nov 02 16:12:45 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration

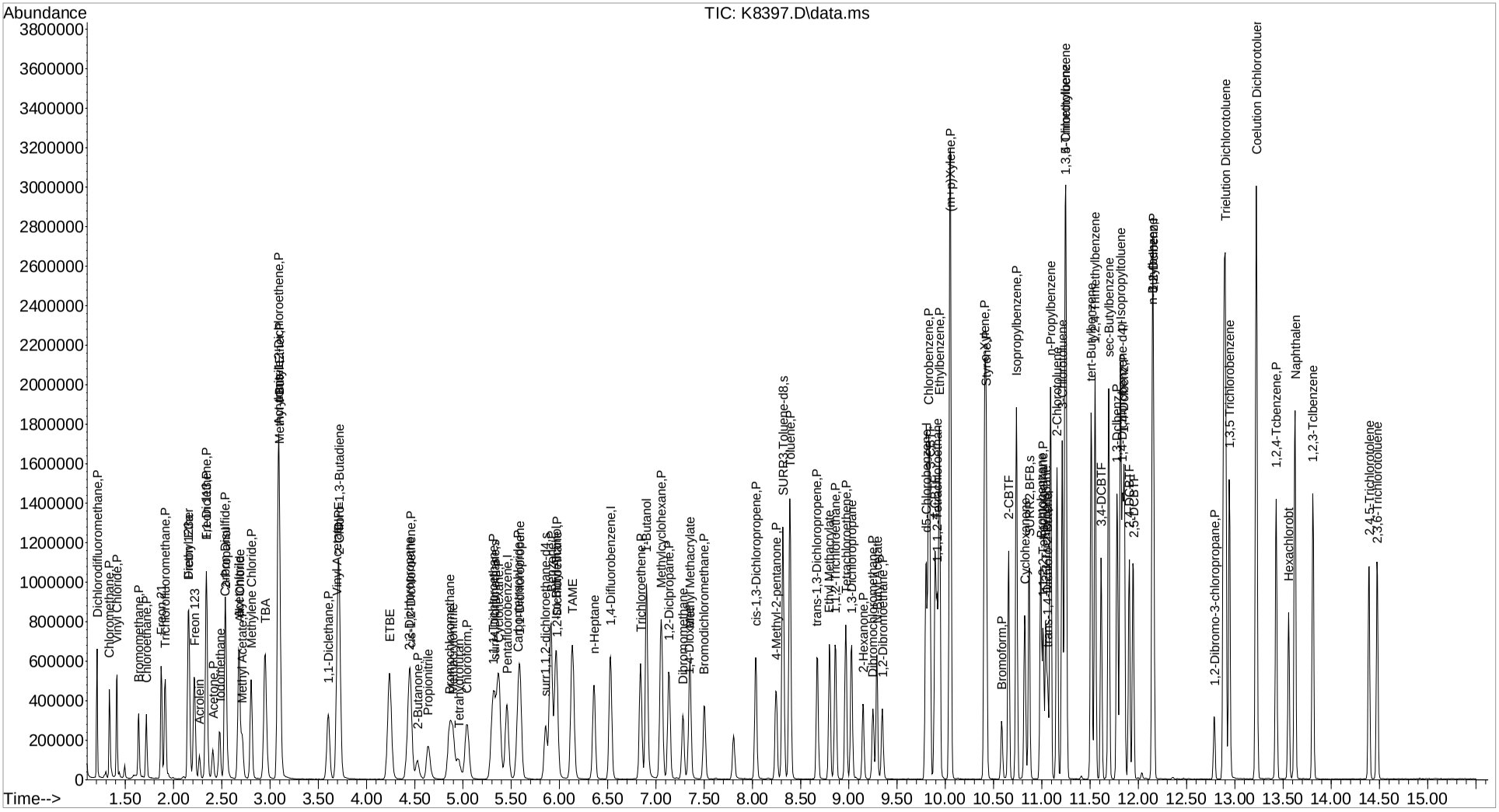
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
107) 2,4-DCBTF	11.906	214	212334	56.09	ppb	98
108) 2,5-DCBTF	11.949	214	238194	56.72	ppb	94
109) n-Butylbenzene	12.144	91	829867	54.13	ppb	99
110) 1,2-Dclbenz	12.156	146	450559	52.05	ppb	95
111) 1,2-Dibromo-3-chloropr...	12.790	157	68449	58.80	ppb	93
112) Trielution Dichlorotol...	12.900	125	1347457	165.36	ppb	98
113) 1,3,5 Trichlorobenzene	12.943	180	357724	56.09	ppb	100
114) Coelution Dichlorotoluene	13.223	125	994275	112.63	ppb	97
115) 1,2,4-Tcbenzene	13.430	180	337881	54.13	ppb	94
116) Hexachlorobt	13.558	225	120361	48.94	ppb	98
117) Naphthalen	13.625	128	1138539	58.03	ppb	98
118) 1,2,3-Tclbenzene	13.808	180	342082	54.73	ppb	97
119) 2,4,5-Trichlorotolene	14.394	159	232855	53.03	ppb	95
120) 2,3,6-Trichlorotoluene	14.479	159	211047	51.61	ppb	92

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

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\103021\
Data File : K8397.D
Acq On : 30 Oct 2021 9:19 pm
Operator : K.Ruest
Sample : R2111358-003MS|1.0 Inst : MSVOA-12
Misc : DAY 8260 T4
ALS Vial : 24 Sample Multiplier: 1

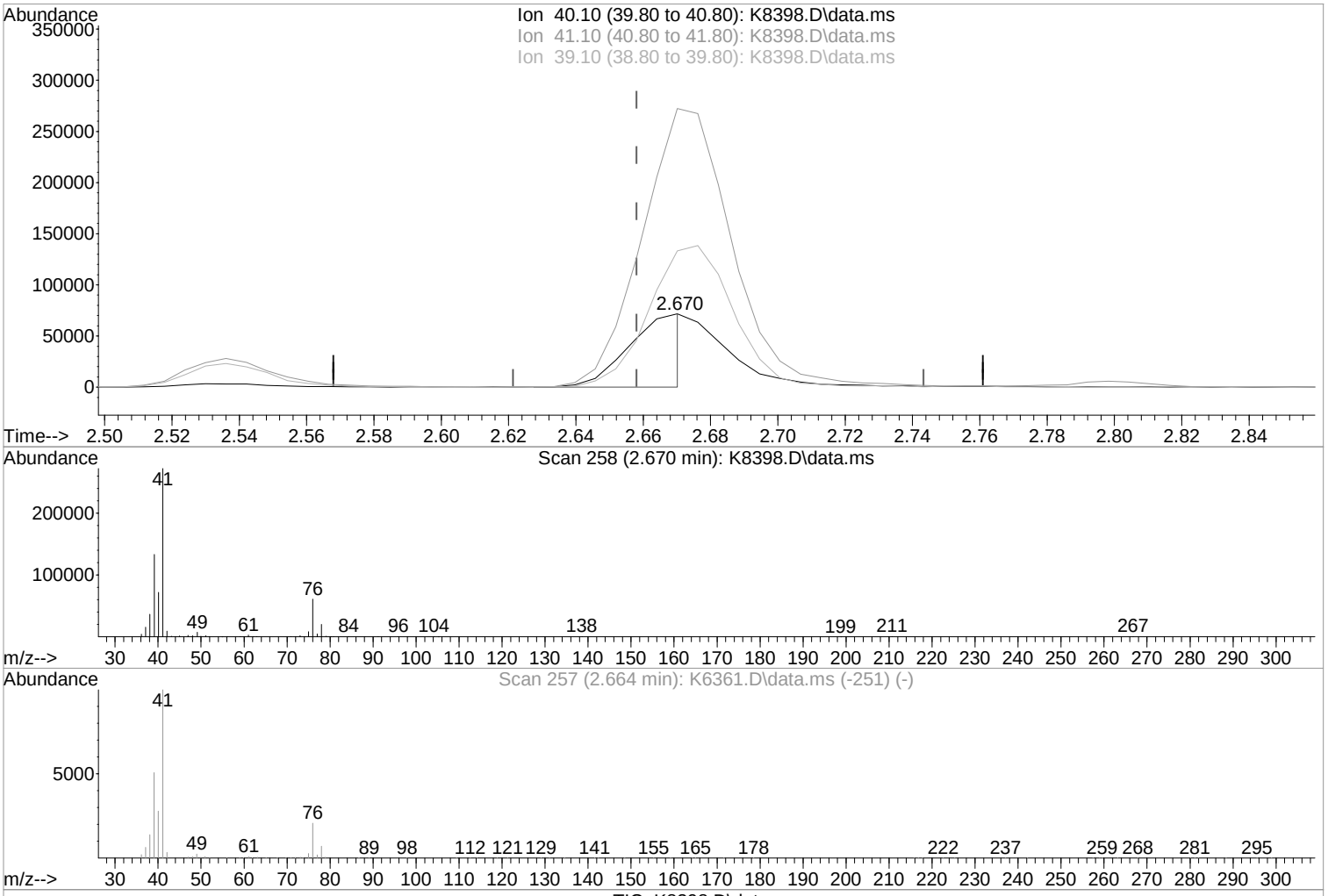
Quant Time: Nov 02 16:12:45 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\103021\
Data File : K8398.D
Acq On : 30 Oct 2021 9:41 pm
Operator : K.Ruest
Sample : R2111358-003DMS|1.0 Inst : MSVOA-12
Misc : DAY 8260 T4
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Nov 01 11:13:54 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration



TIC: K8398.D\data.ms

(19) Acetonitrile

2.670min (+0.012) 275.03 ppb m

response 81771

Ion	Exp%	Act%
40.10	100	100
41.10	356.60	380.51#
39.10	180.50	185.92
0.00	0.00	0.00

Manual Integration:

After

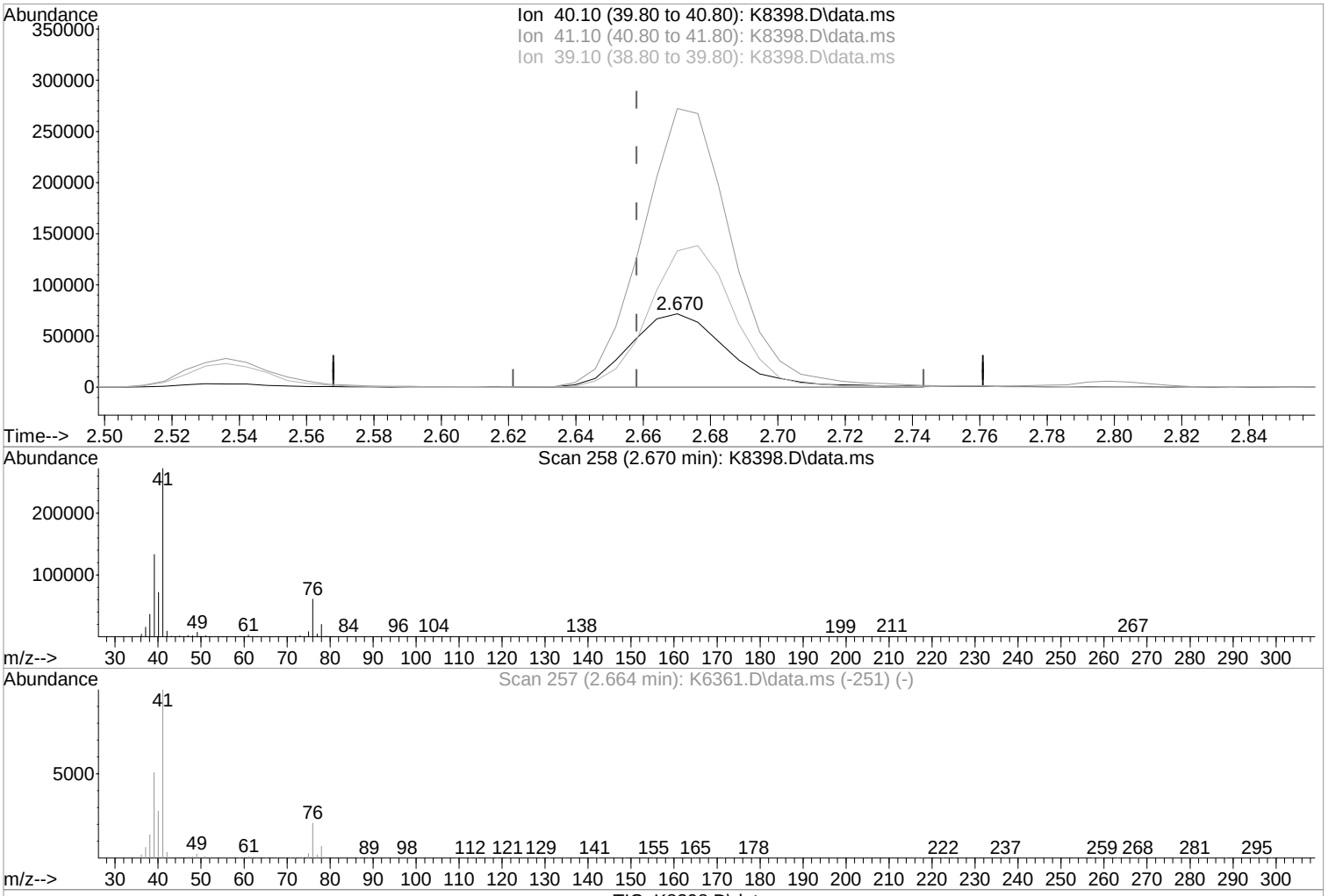
Poor integration.

11/02/21

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\103021\
Data File : K8398.D
Acq On : 30 Oct 2021 9:41 pm
Operator : K.Ruest
Sample : R2111358-003DMS|1.0 Inst : MSVOA-12
Misc : DAY 8260 T4
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Nov 01 11:13:54 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration



TIC: K8398.D\data.ms

(19) Acetonitrile

2.670min (+0.012) 483.59 ppb

response 143781

Ion	Exp%	Act%
40.10	100	100
41.10	356.60	380.51#
39.10	180.50	185.92
0.00	0.00	0.00

Manual Integration:

Before

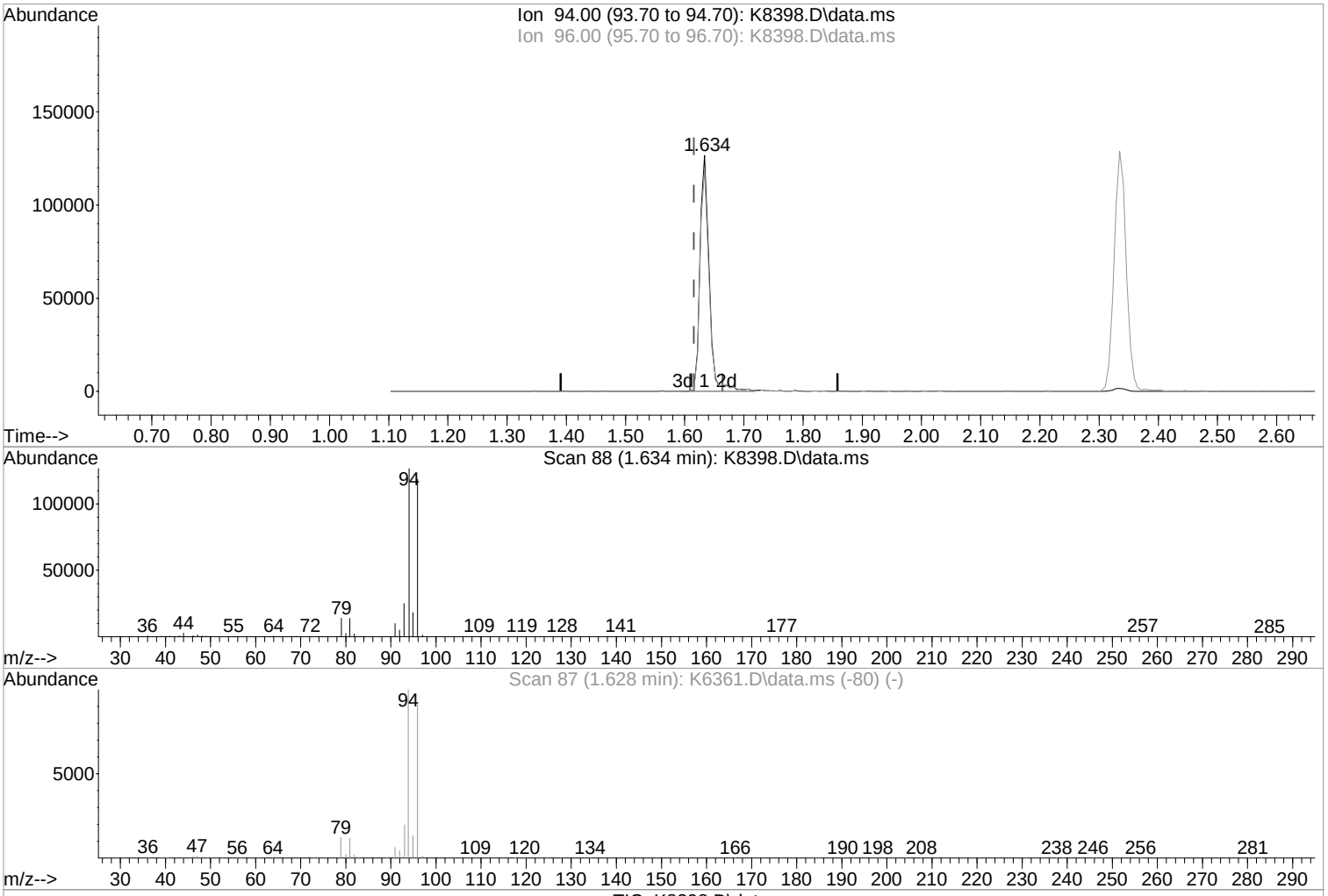
11/02/21

1st 11/02/21
2nd 11/02/21

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\103021\
Data File : K8398.D
Acq On : 30 Oct 2021 9:41 pm
Operator : K.Ruest
Sample : R2111358-003DMS|1.0 Inst : MSVOA-12
Misc : DAY 8260 T4
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Nov 01 11:13:54 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration



TIC: K8398.D\data.ms

(5) Bromomethane (P)

1.634min (+0.018) 45.69 ppb m

response 138352

Ion	Exp%	Act%
94.00	100	100
96.00	91.00	93.62
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

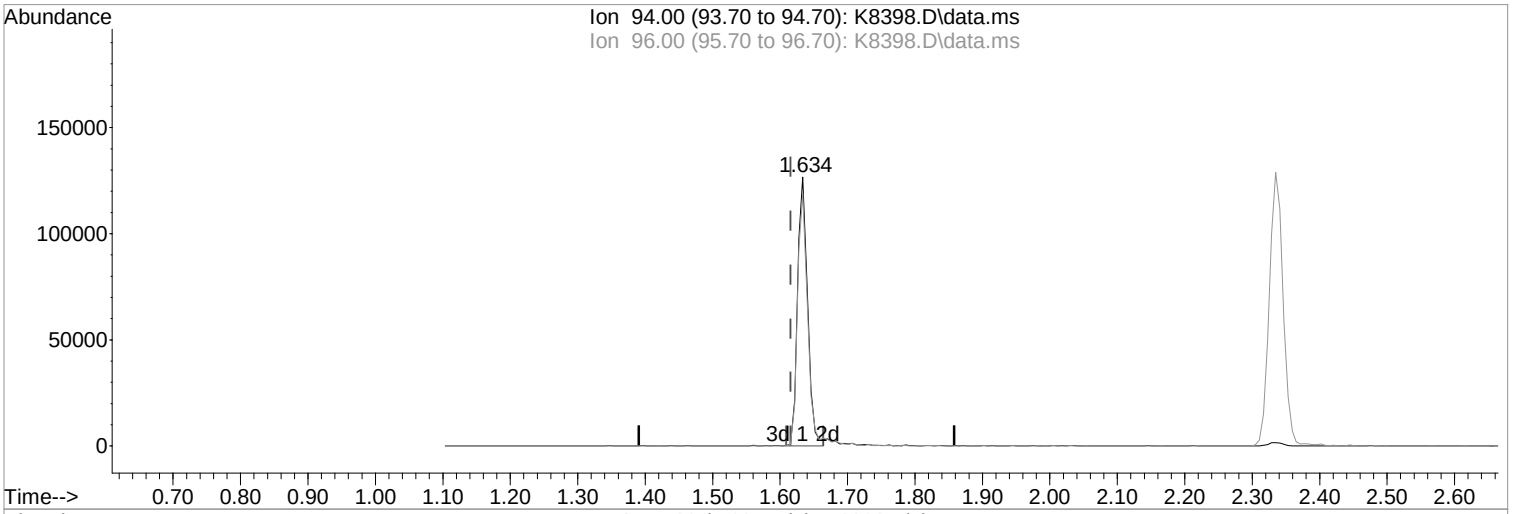
Poor integration.

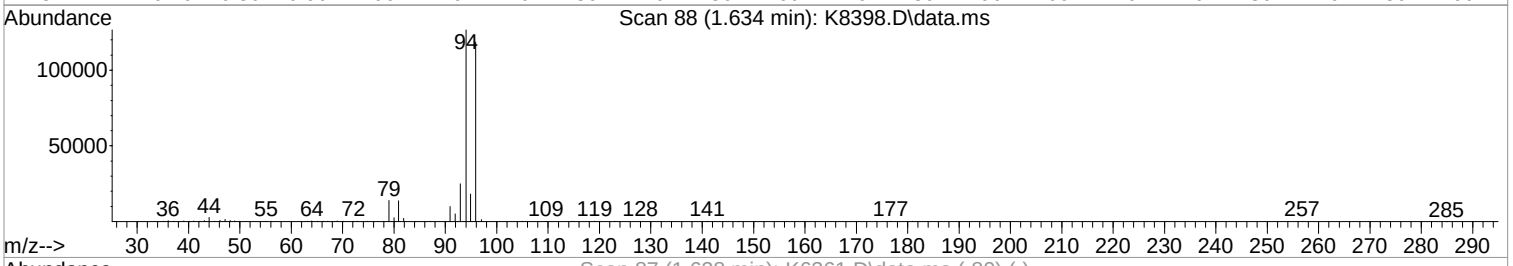
11/02/21

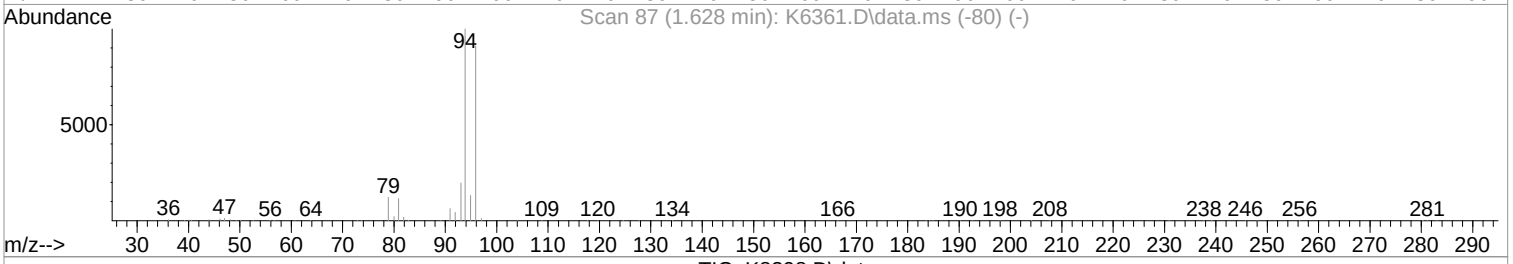
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\103021\
Data File : K8398.D
Acq On : 30 Oct 2021 9:41 pm
Operator : K.Ruest
Sample : R2111358-003DMS|1.0 Inst : MSVOA-12
Misc : DAY 8260 T4
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Nov 01 11:13:54 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration







TIC: K8398.D\data.ms

(5) Bromomethane (P)

1.634min (+0.018) 43.90 ppb

response 132945

Ion	Exp%	Act%
94.00	100	100
96.00	91.00	93.62
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

11/02/21

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\103021\
Data File : K8398.D
Acq On : 30 Oct 2021 9:41 pm
Operator : K.Ruest
Sample : R2111358-003DMS|1.0 Inst : MSVOA-12
Misc : DAY 8260 T4
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Nov 02 16:17:46 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.456	168	343096	50.00	ppb		0.01
43) 1,4-Difluorobenzene	6.529	114	563646	50.00	ppb		0.00
71) d5-Chlorobenzene	9.797	117	505365	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	11.833	152	261335	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.322	113	169348	55.19	ppb		0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 110.38%				
48) surr1,1,2-dichloroetha...	5.852	65	224496	50.32	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 100.64%				
65) SURR3,Toluene-d8	8.315	98	802323	55.63	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 111.26%				
70) SURR2,BFB	10.870	95	299902	52.38	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 104.76%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.201	85	256566	55.41	ppb		99
3) Chloromethane	1.329	50	277444	69.62	ppb		99
4) Vinyl Chloride	1.408	62	286898	61.82	ppb		100
5) Bromomethane	1.634	94	138352m	45.69	ppb		
6) Chloroethane	1.713	64	182799	60.00	ppb		98
7) Freon 21	1.865	67	353598	47.73	ppb		97
8) Trichlorofluoromethane	1.908	101	292699	49.74	ppb		96
9) Diethyl Ether	2.146	59	196903	54.19	ppb		97
10) Freon 123a	2.158	67	239522	54.44	ppb		99
11) Freon 123	2.213	83	259974	54.15	ppb		94
12) Acrolein	2.262	56	79002	81.64	ppb		97
13) 1,1-Diclethene	2.335	96	185149	55.49	ppb	#	84
14) Freon 113	2.335	101	171244	52.54	ppb		99
15) Acetone	2.402	43	139728	73.27	ppb		96
16) 2-Propanol	2.536	45	648637	1456.35	ppb		97
17) Iodomethane	2.475	142	248303	61.39	ppb		90
18) Carbon Disulfide	2.530	76	517618	64.11	ppb		98
19) Acetonitrile	2.670	40	81771m	275.03	ppb		
20) Allyl Chloride	2.676	76	106902	52.21	ppb		94
21) Methyl Acetate	2.707	43	223586	51.11	ppb		97
22) Methylene Chloride	2.798	84	202025	50.76	ppb		90
23) TBA	2.944	59	849868	1097.47	ppb		94
24) Acrylonitrile	3.079	53	583465	265.52	ppb		99
25) Methyl-t-Butyl Ether	3.091	73	690387	51.48	ppb		99
26) trans-1,2-Dichloroethene	3.085	96	202973	55.60	ppb		94
28) 1,1-Diclethane	3.597	63	361884	52.70	ppb		97
29) Vinyl Acetate	3.694	86	29560	30.29	ppb	#	36
30) DIPE	3.700	45	697534	56.84	ppb	#	83
31) 2-Chloro-1,3-Butadiene	3.713	53	322631	54.98	ppb		91
32) ETBE	4.237	59	675053	54.39	ppb		98
33) 2,2-Dichloropropane	4.432	77	239251	41.80	ppb		96
34) cis-1,2-Dichloroethene	4.450	96	224723	53.44	ppb		96
35) 2-Butanone	4.523	43	152163	51.35	ppb		91
36) Propionitrile	4.633	54	249535	259.56	ppb		96
37) Bromochloromethane	4.859	130	128589	53.57	ppb		91
38) Methacrylonitrile	4.895	67	126569	54.18	ppb		88
39) Tetrahydrofuran	4.950	42	97039	49.08	ppb		96
40) Chloroform	5.036	83	335846	50.28	ppb		96
41) 1,1,1-Trichloroethane	5.304	97	289238	52.65	ppb		96

1st 11/02/21
2nd 11/02/21

Data Path : I:\ACQUDATA\msvoa12\Data\103021\
Data File : K8398.D
Acq On : 30 Oct 2021 9:41 pm
Operator : K.Ruest
Sample : R2111358-003DMS|1.0 Inst : MSVOA-12
Misc : DAY 8260 T4
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Nov 02 16:17:46 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) TAME	6.133	73	707410	58.72	ppb	99
44) Cyclohexane	5.365	41	184916	49.58	ppb	96
46) Carbontetrachloride	5.566	117	219764	50.62	ppb	93
47) 1,1-Dichloropropene	5.590	75	281360	54.85	ppb	96
49) Benzene	5.907	78	869283	54.40	ppb	99
50) 1,2-Dichloroethane	5.968	62	276365	46.04	ppb	95
51) Iso-Butyl Alcohol	5.956	43	338409	1050.07	ppb	98
52) n-Heptane	6.358	43	212257	43.98	ppb	96
53) 1-Butanol	6.901	56	618118	2948.41	ppb	99
54) Trichloroethene	6.840	130	209187	52.73	ppb	94
55) Methylcyclohexane	7.053	55	277692	53.22	ppb	97
56) 1,2-Diclpropane	7.133	63	217590	52.49	ppb	95
57) Dibromomethane	7.279	93	124226	52.29	ppb	88
58) 1,4-Dioxane	7.340	88	96981	1067.76	ppb	83
59) Methyl Methacrylate	7.352	69	210410	55.31	ppb	97
60) Bromodichloromethane	7.498	83	244870	48.81	ppb	98
63) cis-1,3-Dichloropropene	8.035	75	334482	55.23	ppb	99
64) 4-Methyl-2-pentanone	8.242	43	290278	52.55	ppb	99
66) Toluene	8.389	91	958113	55.98	ppb	98
67) trans-1,3-Dichloropropene	8.669	75	308129	54.88	ppb	94
68) Ethyl Methacrylate	8.797	69	325998	52.61	ppb	95
69) 1,1,2-Trichloroethane	8.858	97	198216	51.85	ppb	96
72) Tetrachloroethene	8.968	164	153620	52.74	ppb	95
73) 2-Hexanone	9.144	43	219275	55.10	ppb	98
74) 1,3-Dichloropropane	9.029	76	357087	53.01	ppb	97
75) Dibromochloromethane	9.248	129	163792	53.46	ppb	94
76) N-Butyl Acetate	9.291	43	342121	45.02	ppb	95
77) 1,2-Dibromoethane	9.346	107	196521	52.78	ppb	95
78) Chlorobenzene	9.827	112	587399	54.62	ppb	94
79) 3-CBTF	9.839	180	299499	56.94	ppb	98
80) 4-CBTF	9.894	180	267118	54.76	ppb	96
81) 1,1,1,2-Tetrachloroethane	9.913	131	191807	60.13	ppb	98
82) Ethylbenzene	9.937	106	328293	55.40	ppb	98
83) (m+p)Xylene	10.053	106	818109	114.22	ppb	98
84) o-Xylene	10.406	106	400646	56.63	ppb	92
85) Styrene	10.425	104	673315	56.87	ppb	97
87) Bromoform	10.583	173	109734	54.06	ppb	95
88) 2-CBTF	10.656	180	297307	55.53	ppb	91
89) Isopropylbenzene	10.736	105	994784	56.12	ppb	99
90) Cyclohexanone	10.821	55	295788	312.03	ppb	100
91) trans-1,4-Dichloro-2-B...	11.059	53	77841	50.57	ppb	84
92) 1,1,2,2-Tetrachloroethane	11.016	83	310138	56.41	ppb	99
93) Bromobenzene	10.992	156	237559	52.06	ppb	97
94) 1,2,3-Trichloropropane	11.040	110	96213	50.72	ppb	98
95) n-Propylbenzene	11.089	91	1242921	56.18	ppb	98
96) 2-Chlorotoluene	11.156	91	722174	51.57	ppb	99
97) 3-Chlorotoluene	11.211	91	776390	55.45	ppb	98
98) 4-Chlorotoluene	11.254	91	827814	52.64	ppb	90
99) 1,3,5-Trimethylbenzene	11.242	105	889556	54.00	ppb	99
100) tert-Butylbenzene	11.510	119	731212	54.01	ppb	100
101) 1,2,4-Trimethylbenzene	11.553	105	875326	53.27	ppb	100
102) 3,4-DCBTF	11.614	214	228229	51.64	ppb	95
103) sec-Butylbenzene	11.693	105	1099832	56.60	ppb	99
104) p-Isopropyltoluene	11.815	119	914318	53.69	ppb	97
105) 1,3-Dclbenz	11.778	146	464327	52.03	ppb	97
106) 1,4-Dclbenz	11.857	146	470798	49.01	ppb	99

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\103021\
Data File : K8398.D
Acq On : 30 Oct 2021 9:41 pm
Operator : K.Ruest
Sample : R2111358-003DMS|1.0 Inst : MSVOA-12
Misc : DAY 8260 T4
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Nov 02 16:17:46 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration

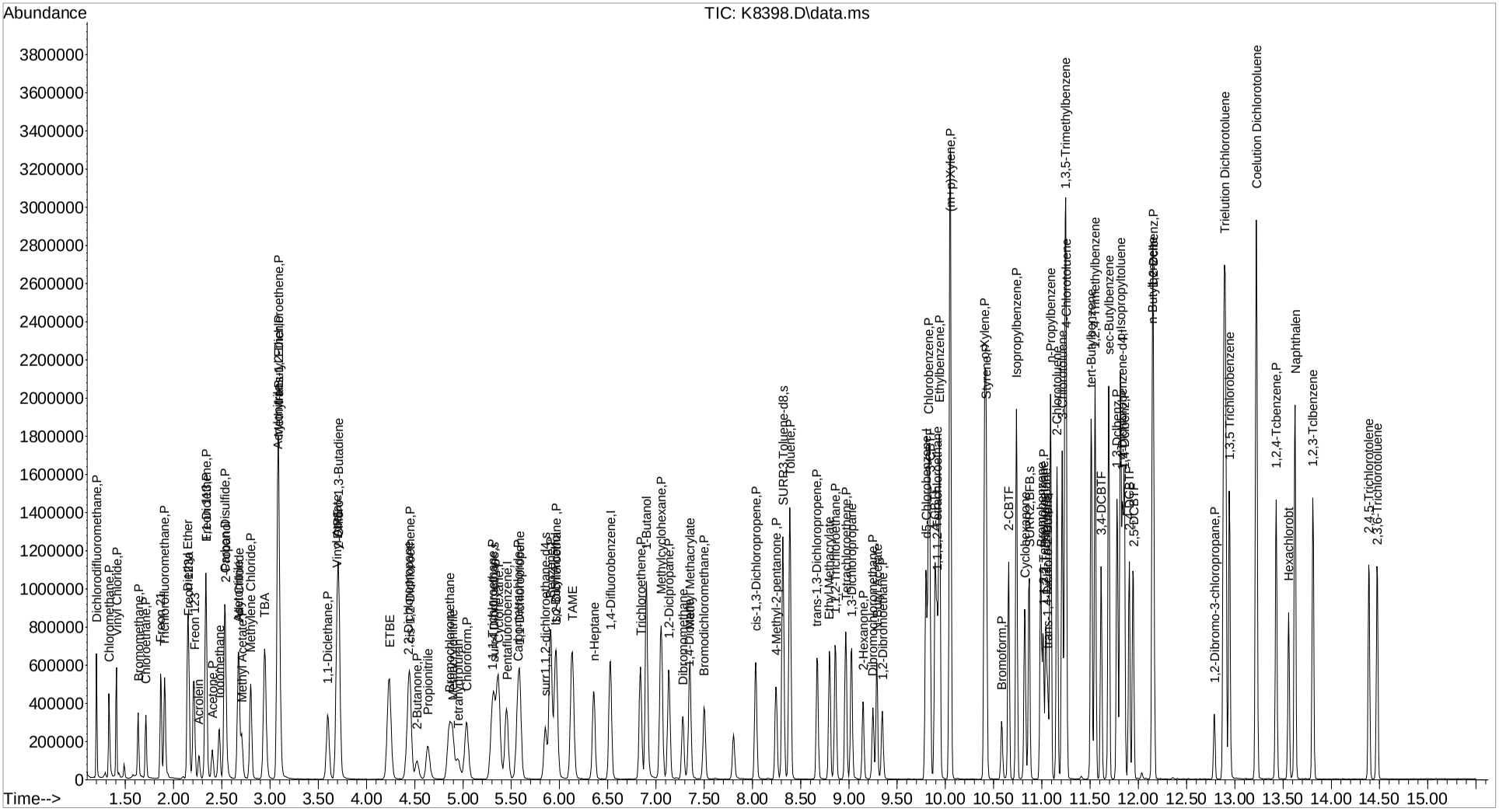
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
107) 2,4-DCBTF	11.906	214	208858	53.75	ppb	98
108) 2,5-DCBTF	11.949	214	237575	55.11	ppb	96
109) n-Butylbenzene	12.144	91	848201	53.89	ppb	97
110) 1,2-Dclbenz	12.156	146	461038	51.88	ppb	98
111) 1,2-Dibromo-3-chloropr...	12.790	157	73572	61.57	ppb	89
112) Trielution Dichlorotol...	12.894	125	1361430	162.76	ppb	96
113) 1,3,5 Trichlorobenzene	12.943	180	364896	55.74	ppb	100
114) Coelution Dichlorotoluene	13.223	125	1003428	110.73	ppb	97
115) 1,2,4-Tcbenzene	13.430	180	350763	54.75	ppb	96
116) Hexachlorobt	13.558	225	121053	47.95	ppb	97
117) Naphthalen	13.625	128	1158809	57.54	ppb	98
118) 1,2,3-Tclbenzene	13.808	180	345581	53.87	ppb	95
119) 2,4,5-Trichlorotolene	14.387	159	232117	51.50	ppb	98
120) 2,3,6-Trichlorotoluene	14.479	159	212893	50.72	ppb	93

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

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\103021\
Data File : K8398.D
Acq On : 30 Oct 2021 9:41 pm
Operator : K.Ruest
Sample : R2111358-003DMS|1.0 Inst : MSVOA-12
Misc : DAY 8260 T4
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Nov 02 16:17:46 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration

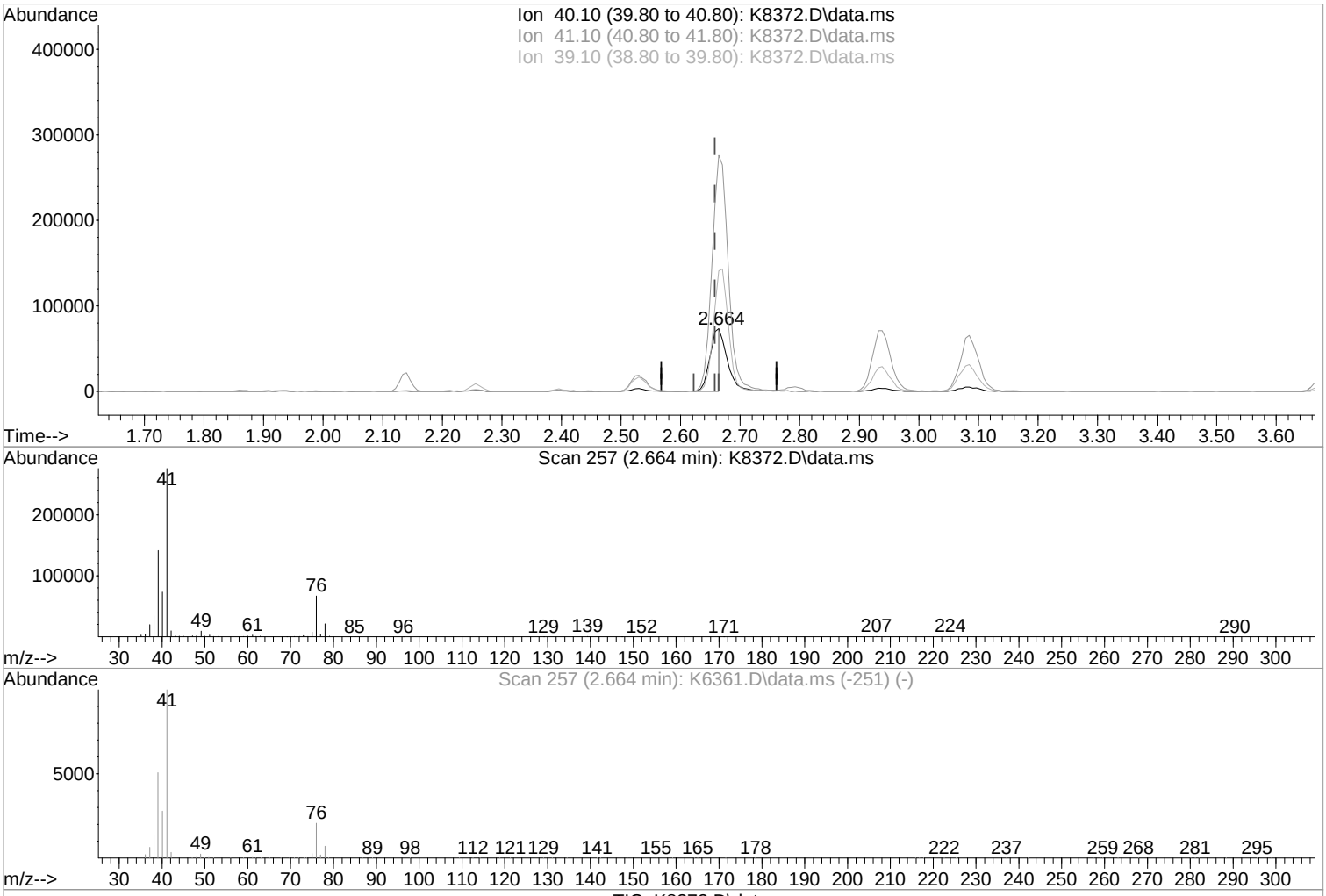


1st 10/30/21
2nd 11/02/21

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\103021\
Data File : K8372.D
Acq On : 30 Oct 2021 11:53 am
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 30 12:10:47 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration



TIC: K8372.D\data.ms

(19) Acetonitrile

2.664min (+0.006) 279.46 ppb m

response 85601

Ion	Exp%	Act%
40.10	100	100
41.10	356.60	376.56
39.10	180.50	192.51
0.00	0.00	0.00

Manual Integration:

After

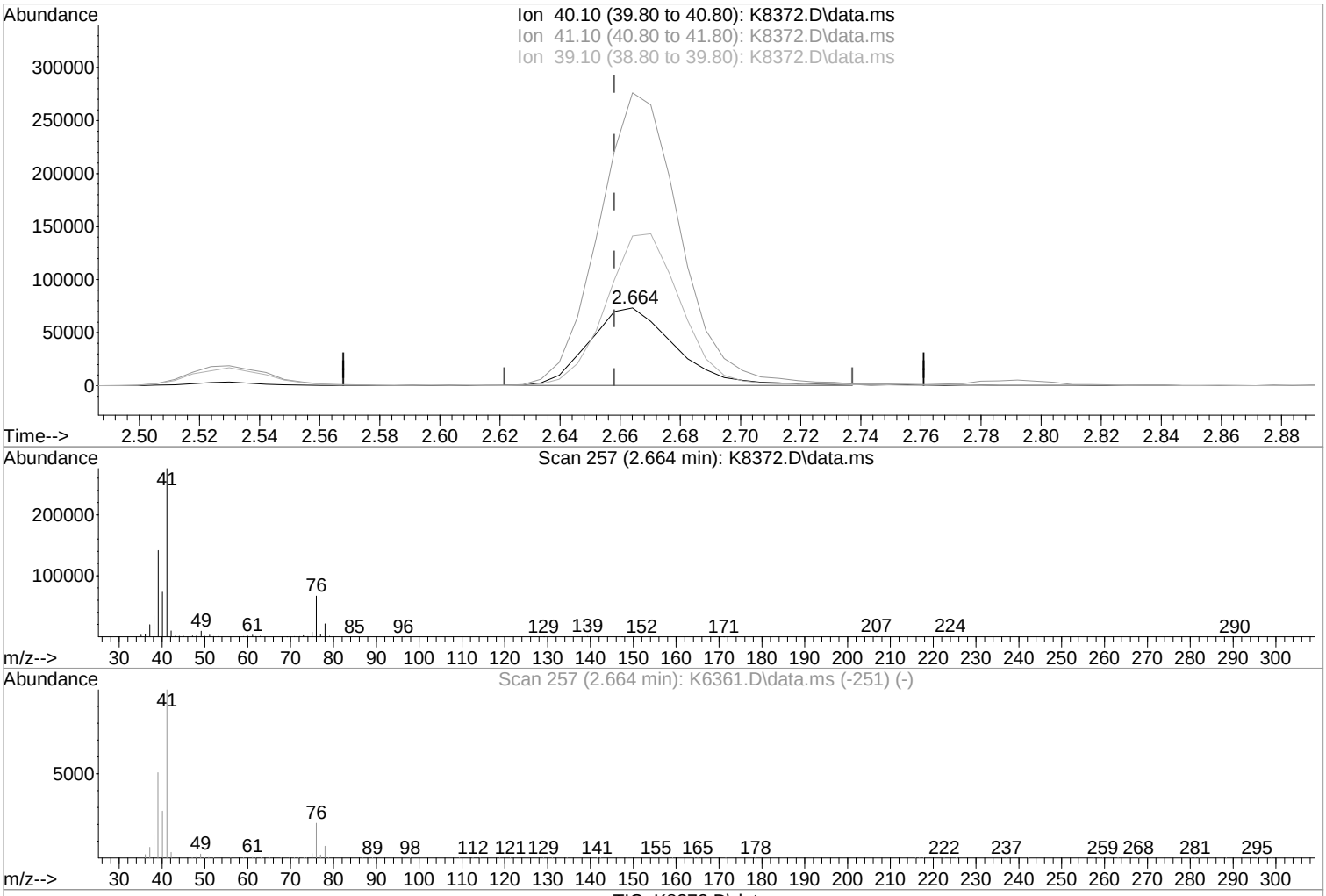
Poor integration.

10/30/21

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\103021\
Data File : K8372.D
Acq On : 30 Oct 2021 11:53 am
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 30 12:10:47 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration



TIC: K8372.D\data.ms

(19) Acetonitrile

2.664min (+0.006) 475.86 ppb

response 145762

Ion	Exp%	Act%
40.10	100	100
41.10	356.60	376.56
39.10	180.50	192.51
0.00	0.00	0.00

Manual Integration:

Before

10/30/21

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\msvoa12\Data\103021\
Data File : K8372.D
Acq On : 30 Oct 2021 11:53 am
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 30 12:13:12 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
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	50.0000	50.0000	0.0	100	0.00
2	P	Dichlorodifluoromethane	50.0000	52.9087	-5.8	96	0.00
3	P	Chloromethane	50.0000	53.1686	-6.3	110	0.00
4	P	Vinyl Chloride	50.0000	48.9505	2.1	96	0.00
5	P	Bromomethane	50.0000	55.0111	-10.0	109	0.01
6	P	Chloroethane	50.0000	47.8059	4.4	98	0.02
7		Freon 21	50.0000	49.8188	0.4	101	0.01
8	P	Trichlorofluoromethane	50.0000	45.2351	9.5	90	0.01
9		Diethyl Ether	50.0000	53.3310	-6.7	107	0.00
10		Freon 123a	50.0000	51.8660	-3.7	106	0.01
11		Freon 123	50.0000	54.0393	-8.1	107	0.00
12		Acrolein	250.0000	225.2556	9.9	94	0.00
13	P	1,1-Diclethene	50.0000	51.0956	-2.2	103	0.00
14	P	Freon 113	50.0000	50.9454	-1.9	102	0.00
15	P	Acetone	50.0000	50.9530	-1.9	102	0.00
16		2-Propanol	1000.0000	1036.8615	-3.7	102	0.00
17		Iodomethane	50.0000	59.0408	-18.1	106	0.01
18	P	Carbon Disulfide	50.0000	61.8549	-23.7#	127	0.01
19		Acetonitrile	250.0000	279.4565	-11.8	111	0.00
20		Allyl Chloride	50.0000	55.4679	-10.9	108	0.00
21	P	Methyl Acetate	50.0000	51.8129	-3.6	105	0.00
22	P	Methylene Chloride	50.0000	49.5978	0.8	107	0.00
23		TBA	1000.0000	979.8567	2.0	98	0.00
24		Acrylonitrile	250.0000	258.4707	-3.4	100	0.00
25	P	Methyl-t-Butyl Ether	50.0000	52.6796	-5.4	104	0.00
26	P	trans-1,2-Dichloroethene	50.0000	51.7303	-3.5	105	0.00
27		Halothane	-1.0000	0.0000	0.0	0	-4.25#
28	P	1,1-Diclethane	50.0000	50.1516	-0.3	97	0.00
29		Vinyl Acetate	50.0000	54.5153	-9.0	117	0.00
30		DIPE	50.0000	53.0767	-6.2	113	0.00
31		2-Chloro-1,3-Butadiene	50.0000	53.6572	-7.3	107	0.00
32		ETBE	50.0000	55.5094	-11.0	116	0.00
33		2,2-Dichloropropane	50.0000	51.1271	-2.3	100	0.00
34	P	cis-1,2-Dichloroethene	50.0000	51.2783	-2.6	106	0.00
35	P	2-Butanone	50.0000	48.3318	3.3	103	0.00
36		Propionitrile	250.0000	243.3730	2.7	94	0.00
37		Bromochloromethane	50.0000	52.1383	-4.3	105	0.00
38		Methacrylonitrile	50.0000	51.7456	-3.5	103	0.00
39		Tetrahydrofuran	50.0000	47.5557	4.9	93	0.01
40	P	Chloroform	50.0000	49.4811	1.0	96	0.00
41	P	1,1,1-Trichloroethane	50.0000	48.3153	3.4	94	0.00
42		TAME	50.0000	55.9078	-11.8	115	0.00
43	I	1,4-Difluorobenzene	50.0000	50.0000	0.0	100	0.00
44	P	Cyclohexane	50.0000	47.5748	4.9	99	0.00
45	s	surr4,Dibrflmethane	50.0000	54.6033	-9.2	111	0.00
46	P	Carbontetrachloride	50.0000	45.9219	8.2	93	0.00
47		1,1-Dichloropropene	50.0000	49.7948	0.4	99	0.00
48	s	surr1,1,2-dichloroethane-d4	50.0000	49.6457	0.7	97	0.00
49	P	Benzene	50.0000	51.2947	-2.6	103	0.00
50	P	1,2-Dichloroethane	50.0000	45.5824	8.8	92	0.00
51		Iso-Butyl Alcohol	1000.0000	973.1582	2.7	97	-0.01

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\msvoa12\Data\103021\
Data File : K8372.D
Acq On : 30 Oct 2021 11:53 am
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 30 12:13:12 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
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	50.0000	52.0257	-4.1	104	0.00
53		1-Butanol	2500.0000	2709.6694	-8.4	104	-0.01
54	P	Trichloroethene	50.0000	49.3847	1.2	103	0.00
55	P	Methylcyclohexane	50.0000	52.0637	-4.1	104	0.00
56	P	1,2-Diclpropane	50.0000	50.5093	-1.0	101	0.00
57		Dibromomethane	50.0000	49.6832	0.6	98	0.00
58		1,4-Dioxane	1000.0000	964.8571	3.5	102	0.00
59		Methyl Methacrylate	50.0000	51.5683	-3.1	107	0.00
60	P	Bromodichloromethane	50.0000	47.7301	4.5	98	0.00
61		2-Nitropropane	-1.0000	0.0000	0.0	111	0.00
62		2-Chloroethylvinyl Ether	50.0000	53.5672	-7.1	112	0.00
63	P	cis-1,3-Dichloropropene	50.0000	53.2484	-6.5	102	0.00
64	P	4-Methyl-2-pentanone	50.0000	48.5217	3.0	100	0.00
65	s	SURR3,Toluene-d8	50.0000	55.0731	-10.1	110	0.00
66	P	Toluene	50.0000	52.2777	-4.6	104	0.00
67	P	trans-1,3-Dichloropropene	50.0000	54.8611	-9.7	102	0.00
68		Ethyl Methacrylate	50.0000	55.8489	-11.7	105	0.00
69	P	1,1,2-Trichloroethane	50.0000	49.7042	0.6	105	0.00
70	s	SURR2,BFB	50.0000	52.1833	-4.4	107	0.00
71	I	d5-Chlorobenzene	50.0000	50.0000	0.0	101	0.00
72	P	Tetrachloroethene	50.0000	48.9380	2.1	103	0.00
73	P	2-Hexanone	50.0000	51.6775	-3.4	102	0.00
74		1,3-Dichloropropane	50.0000	51.2974	-2.6	100	0.00
75	P	Dibromochloromethane	50.0000	53.3067	-6.6	101	0.00
76		N-Butyl Acetate	50.0000	54.4149	-8.8	102	0.00
77	P	1,2-Dibromoethane	50.0000	52.3499	-4.7	104	0.00
78	P	Chlorobenzene	50.0000	51.9990	-4.0	105	0.00
79		3-CBTF	50.0000	56.2846	-12.6	126	0.00
80		4-CBTF	50.0000	53.6997	-7.4	124	0.00
81		1,1,1,2-Tetrachloroethane	50.0000	55.6273	-11.3	104	0.00
82	P	Ethylbenzene	50.0000	52.0275	-4.1	105	0.00
83	P	(m+p)Xylene	100.0000	106.9690	-7.0	103	0.00
84	P	o-Xylene	50.0000	52.3471	-4.7	102	0.00
85	P	Styrene	50.0000	53.4782	-7.0	101	0.00
86	I	1,4-Dichlorobenzene-d4	50.0000	50.0000	0.0	103	0.00
87	P	Bromoform	50.0000	55.7700	-11.5	106	0.00
88		2-CBTF	50.0000	53.5622	-7.1	121	0.00
89	P	Isopropylbenzene	50.0000	52.2889	-4.6	101	0.00
90		Cyclohexanone	1000.0000	1136.8203	-13.7	105	0.00
91		trans-1,4-Dichloro-2-Butene	50.0000	55.3482	-10.7	110	0.00
92	P	1,1,2,2-Tetrachloroethane	50.0000	53.8557	-7.7	102	0.00
93		Bromobenzene	50.0000	49.2710	1.5	101	0.00
94		1,2,3-Trichloropropane	50.0000	49.4428	1.1	98	0.00
95		n-Propylbenzene	50.0000	53.2166	-6.4	100	0.00
96		2-Chlorotoluene	50.0000	51.0894	-2.2	99	0.00
97		3-Chlorotoluene	50.0000	53.5019	-7.0	114	0.00
98		4-Chlorotoluene	50.0000	51.0454	-2.1	100	0.00
99		1,3,5-Trimethylbenzene	50.0000	52.9017	-5.8	99	0.00
100		tert-Butylbenzene	50.0000	51.1527	-2.3	100	0.00
101		1,2,4-Trimethylbenzene	50.0000	52.5286	-5.1	100	0.00

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\msvoa12\Data\103021\
Data File : K8372.D
Acq On : 30 Oct 2021 11:53 am
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 30 12:13:12 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
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-DCBTF	50.0000	53.4874	-7.0	126	0.00
103		sec-Butylbenzene	50.0000	53.9256	-7.9	103	0.00
104		p-Isopropyltoluene	50.0000	53.6105	-7.2	103	0.00
105	P	1,3-Dclbenz	50.0000	51.1992	-2.4	102	0.00
106	P	1,4-Dclbenz	50.0000	49.4094	1.2	102	0.00
107		2,4-DCBTF	50.0000	55.3639	-10.7	128	0.00
108		2,5-DCBTF	50.0000	56.8485	-13.7	126	0.00
109		n-Butylbenzene	50.0000	54.7513	-9.5	102	0.00
110	P	1,2-Dclbenz	50.0000	51.3573	-2.7	103	0.00
111	P	1,2-Dibromo-3-chloropropane	50.0000	57.3905	-14.8	107	0.00
112		Trielution Dichlorotoluene	150.0000	160.9622	-7.3	117	0.00
113		1,3,5 Trichlorobenzene	50.0000	53.8854	-7.8	122	0.00
114		Coelution Dichlorotoluene	100.0000	109.1556	-9.2	115	0.00
115	P	1,2,4-Tcbenzene	50.0000	53.6411	-7.3	106	0.00
116		Hexachlorobt	50.0000	48.6743	2.7	101	0.00
117		Naphthalen	50.0000	56.9184	-13.8	102	0.00
118		1,2,3-Tclbenzene	50.0000	53.8081	-7.6	105	0.00
119		2,4,5-Trichlorotolene	50.0000	53.0661	-6.1	111	0.00
120		2,3,6-Trichlorotoluene	50.0000	50.6910	-1.4	110	0.00

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

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\103021\
Data File : K8372.D
Acq On : 30 Oct 2021 11:53 am
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 30 12:13:12 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.444	168	353474	50.00	ppb		0.00
43) 1,4-Difluorobenzene	6.523	114	592314	50.00	ppb		0.00
71) d5-Chlorobenzene	9.797	117	531912	50.00	ppb		0.00
86) 1,4-Dichlorobenzene-d4	11.839	152	269262	50.00	ppb		0.00
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.316	113	176067	54.60	ppb		0.00
Spiked Amount 50.000	Range 80 - 116		Recovery = 109.20%				
48) surr1,1,2-dichloroetha...	5.846	65	232773	49.65	ppb		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 99.30%				
65) SURR3,Toluene-d8	8.315	98	834714	55.07	ppb		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 110.14%				
70) SURR2,BFB	10.864	95	313956	52.18	ppb		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 104.36%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.195	85	252384	52.91	ppb		99
3) Chloromethane	1.323	50	218291	53.17	ppb		97
4) Vinyl Chloride	1.402	62	234048	48.95	ppb		98
5) Bromomethane	1.628	94	171618	55.01	ppb		98
6) Chloroethane	1.713	64	150042	47.81	ppb		99
7) Freon 21	1.865	67	380219	49.82	ppb		97
8) Trichlorofluoromethane	1.902	101	274224	45.24	ppb		94
9) Diethyl Ether	2.140	59	199640	53.33	ppb		96
10) Freon 123a	2.152	67	235107	51.87	ppb		100
11) Freon 123	2.201	83	267299	54.04	ppb		98
12) Acrolein	2.256	56	224580	225.26	ppb		98
13) 1,1-Diclethene	2.329	96	175654	51.10	ppb	#	89
14) Freon 113	2.329	101	171055	50.95	ppb		95
15) Acetone	2.396	43	102843	50.95	ppb		92
16) 2-Propanol	2.530	45	475772	1036.86	ppb		98
17) Iodomethane	2.469	142	245342	59.04	ppb		95
18) Carbon Disulfide	2.524	76	514503	61.85	ppb		97
19) Acetonitrile	2.664	40	85601m	279.46	ppb		
20) Allyl Chloride	2.670	76	117005	55.47	ppb	#	88
21) Methyl Acetate	2.701	43	233525	51.81	ppb		95
22) Methylene Chloride	2.792	84	203364	49.60	ppb		92
23) TBA	2.938	59	781739	979.86	ppb		95
24) Acrylonitrile	3.073	53	585156	258.47	ppb		99
25) Methyl-t-Butyl Ether	3.085	73	727903	52.68	ppb		97
26) trans-1,2-Dichloroethene	3.079	96	194562	51.73	ppb		96
28) 1,1-Diclethane	3.591	63	354778	50.15	ppb		98
29) Vinyl Acetate	3.682	86	54813	54.52	ppb	#	83
30) DIPE	3.694	45	671038	53.08	ppb		93
31) 2-Chloro-1,3-Butadiene	3.707	53	324396	53.66	ppb		89
32) ETBE	4.225	59	709844	55.51	ppb		98
33) 2,2-Dichloropropane	4.420	77	301499	51.13	ppb		98
34) cis-1,2-Dichloroethene	4.444	96	222149	51.28	ppb		92
35) 2-Butanone	4.511	43	147563	48.33	ppb		93
36) Propionitrile	4.627	54	241054	243.37	ppb		96
37) Bromochloromethane	4.847	130	128950	52.14	ppb		97
38) Methacrylonitrile	4.877	67	124536	51.75	ppb		92
39) Tetrahydrofuran	4.944	42	96866	47.56	ppb		98
40) Chloroform	5.029	83	340544	49.48	ppb		99
41) 1,1,1-Trichloroethane	5.298	97	273450	48.32	ppb		95

1st 10/30/21
2nd 11/02/21

Data Path : I:\ACQUDATA\msvoa12\Data\103021\
Data File : K8372.D
Acq On : 30 Oct 2021 11:53 am
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 30 12:13:12 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) TAME	6.127	73	693863	55.91	ppb	97
44) Cyclohexane	5.353	41	186471	47.57	ppb	100
46) Carbontetrachloride	5.560	117	209506	45.92	ppb	99
47) 1,1-Dichloropropene	5.578	75	268427	49.79	ppb	95
49) Benzene	5.901	78	861383	51.29	ppb	99
50) 1,2-Dichloroethane	5.962	62	287560	45.58	ppb	94
51) Iso-Butyl Alcohol	5.950	43	329575	973.16	ppb	98
52) n-Heptane	6.352	43	263856	52.03	ppb	97
53) 1-Butanol	6.895	56	596961	2709.67	ppb	98
54) Trichloroethene	6.834	130	205861	49.38	ppb	96
55) Methylcyclohexane	7.047	55	285501	52.06	ppb	96
56) 1,2-Diclpropane	7.127	63	220009	50.51	ppb	97
57) Dibromomethane	7.273	93	124038	49.68	ppb	80
58) 1,4-Dioxane	7.340	88	92092	964.86	ppb	96
59) Methyl Methacrylate	7.346	69	206155	51.57	ppb	98
60) Bromodichloromethane	7.499	83	251627	47.73	ppb	97
62) 2-Chloroethylvinyl Ether	7.901	63	151954	53.57	ppb	98
63) cis-1,3-Dichloropropene	8.029	75	338875	53.25	ppb	97
64) 4-Methyl-2-pentanone	8.242	43	281679	48.52	ppb	99
66) Toluene	8.389	91	940285	52.28	ppb	99
67) trans-1,3-Dichloropropene	8.669	75	323719	54.86	ppb	95
68) Ethyl Methacrylate	8.797	69	363643	55.85	ppb	96
69) 1,1,2-Trichloroethane	8.858	97	199694	49.70	ppb	99
72) Tetrachloroethene	8.962	164	150020	48.94	ppb	94
73) 2-Hexanone	9.145	43	216459	51.68	ppb	97
74) 1,3-Dichloropropane	9.023	76	363684	51.30	ppb	98
75) Dibromochloromethane	9.248	129	171906	53.31	ppb	92
76) N-Butyl Acetate	9.285	43	435247	54.41	ppb	98
77) 1,2-Dibromoethane	9.346	107	205177	52.35	ppb	89
78) Chlorobenzene	9.827	112	588585	52.00	ppb	94
79) 3-CBTF	9.840	180	311619	56.28	ppb	95
80) 4-CBTF	9.894	180	275691	53.70	ppb	99
81) 1,1,1,2-Tetrachloroethane	9.913	131	186769	55.63	ppb	97
82) Ethylbenzene	9.937	106	324511	52.03	ppb	92
83) (m+p)Xylene	10.047	106	806440	106.97	ppb	99
84) o-Xylene	10.406	106	389768	52.35	ppb	95
85) Styrene	10.425	104	666392	53.48	ppb	97
87) Bromoform	10.583	173	116648	55.77	ppb	92
88) 2-CBTF	10.656	180	295484	53.56	ppb	94
89) Isopropylbenzene	10.736	105	954977	52.29	ppb	100
90) Cyclohexanone	10.821	55	1110342	1136.82	ppb	97
91) trans-1,4-Dichloro-2-B...	11.059	53	88201	55.35	ppb	80
92) 1,1,2,2-Tetrachloroethane	11.016	83	305062	53.86	ppb	95
93) Bromobenzene	10.992	156	231657	49.27	ppb	96
94) 1,2,3-Trichloropropane	11.041	110	96710	49.44	ppb	96
95) n-Propylbenzene	11.089	91	1212990	53.22	ppb	99
96) 2-Chlorotoluene	11.156	91	737145	51.09	ppb	98
97) 3-Chlorotoluene	11.211	91	771814	53.50	ppb	97
98) 4-Chlorotoluene	11.248	91	827128	51.05	ppb	98
99) 1,3,5-Trimethylbenzene	11.242	105	897883	52.90	ppb	99
100) tert-Butylbenzene	11.510	119	713481	51.15	ppb	98
101) 1,2,4-Trimethylbenzene	11.553	105	889273	52.53	ppb	100
102) 3,4-DCBTF	11.614	214	243580	53.49	ppb	97
103) sec-Butylbenzene	11.693	105	1079711	53.93	ppb	99
104) p-Isopropyltoluene	11.815	119	940585	53.61	ppb	97
105) 1,3-Dclbenz	11.778	146	470739	51.20	ppb	95

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\103021\
Data File : K8372.D
Acq On : 30 Oct 2021 11:53 am
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 30 12:13:12 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration

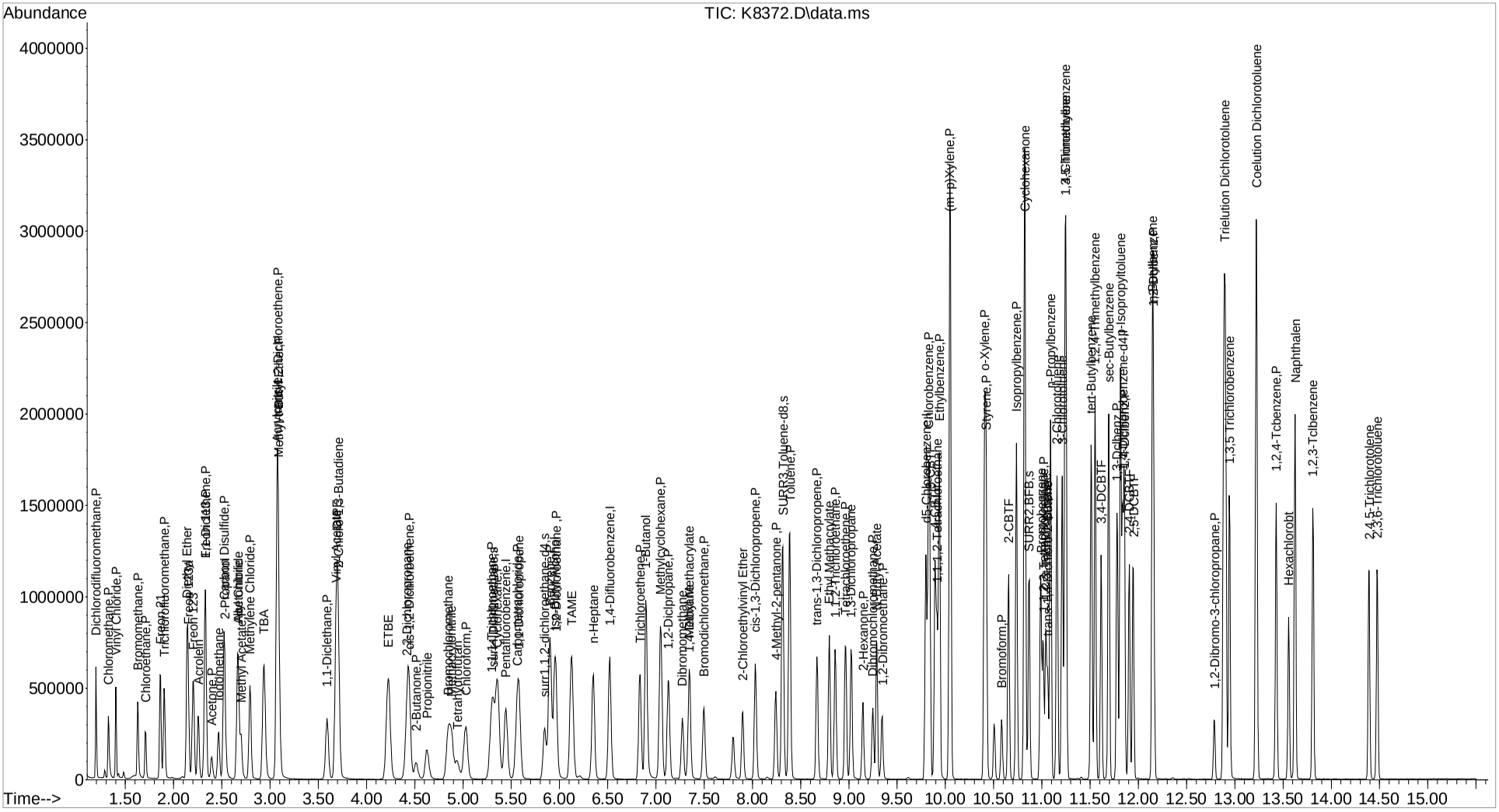
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
106) 1,4-Dclbenz	11.857	146	489042	49.41	ppb	99
107) 2,4-DCBTF	11.906	214	221652	55.36	ppb	98
108) 2,5-DCBTF	11.949	214	252507	56.85	ppb	94
109) n-Butylbenzene	12.144	91	887822	54.75	ppb	97
110) 1,2-Dclbenz	12.156	146	470218	51.36	ppb	97
111) 1,2-Dibromo-3-chloropr...	12.790	157	70661	57.39	ppb	94
112) Trielution Dichlorotol...	12.894	125	1387210	160.96	ppb	97
113) 1,3,5 Trichlorobenzene	12.943	180	363439	53.89	ppb	97
114) Coelution Dichlorotoluene	13.223	125	1019137	109.16	ppb	96
115) 1,2,4-Tcbenzene	13.430	180	354094	53.64	ppb	96
116) Hexachlorobt	13.558	225	126610	48.67	ppb	97
117) Naphthalen	13.625	128	1181032	56.92	ppb	98
118) 1,2,3-Tclbenzene	13.808	180	355668	53.81	ppb	96
119) 2,4,5-Trichlorotolene	14.394	159	246425	53.07	ppb	95
120) 2,3,6-Trichlorotoluene	14.473	159	219220	50.69	ppb	99

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

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\103021\
Data File : K8372.D
Acq On : 30 Oct 2021 11:53 am
Operator : K.Ruest
Sample : CCV Inst : MSVOA-12
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 30 12:13:12 2021
Quant Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Sep 03 10:14:47 2021
Response via : Initial Calibration

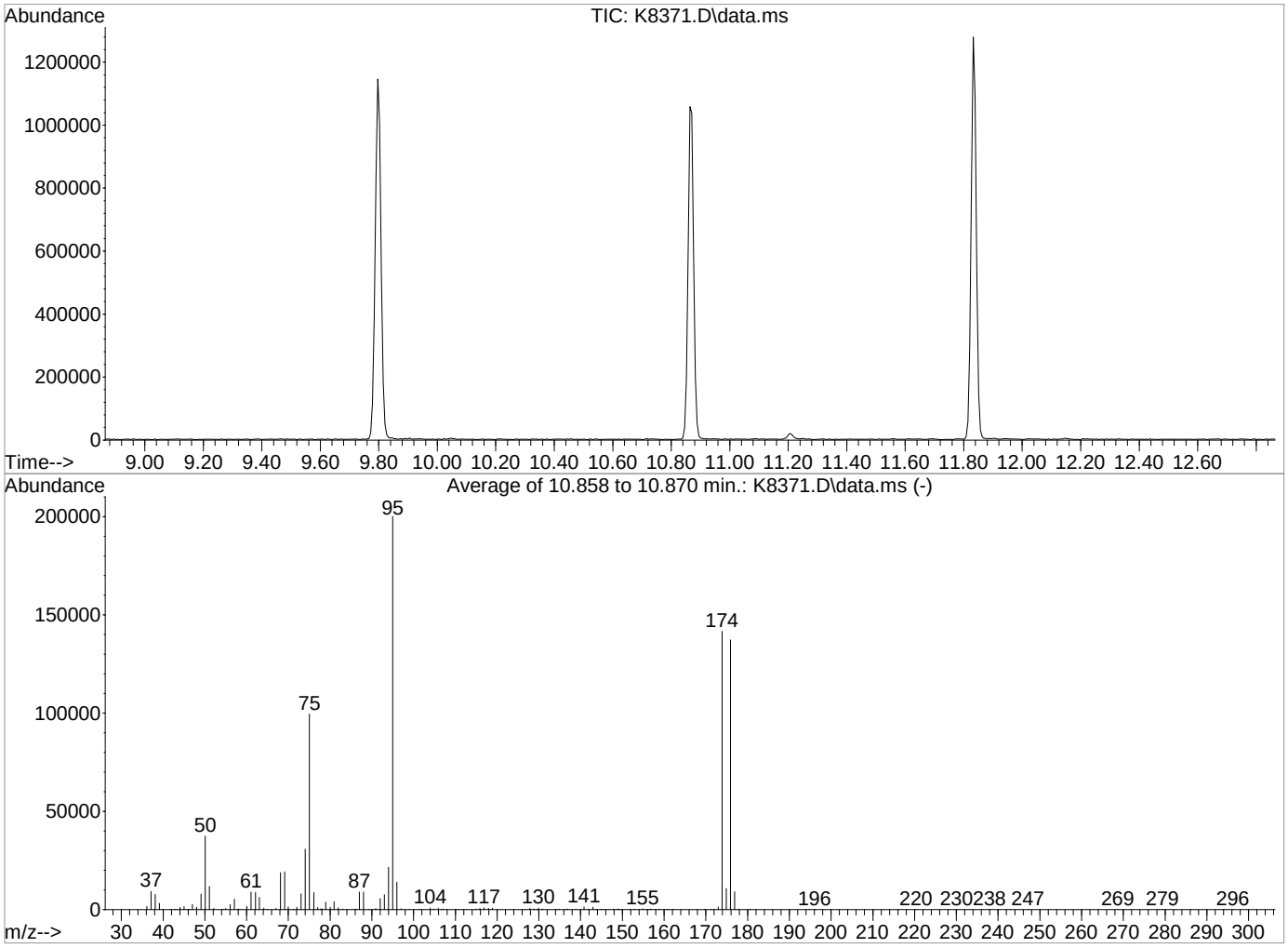


1st 10/30/21
2nd 11/02/21

Data Path : I:\ACQUDATA\msvoa12\Data\103021\
Data File : K8371.D
Acq On : 30 Oct 2021 11:24 am
Operator : K.Ruest
Sample : TUNE Inst : MSVOA-12
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: INTP90.P

Method : I:\ACQUDATA\msvoa12\Methods\W090221.M
Title : MS#12 - 8260B WATERS 10mL Purge
Last Update : Fri Sep 03 10:14:47 2021



AutoFind: Scans 1601, 1602, 1603; Background Corrected with Scan 1594

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.7	37389	PASS
75	95	30	60	49.7	99496	PASS
95	95	100	100	100.0	200149	PASS
96	95	5	9	6.9	13864	PASS
173	174	0.00	2	0.9	1242	PASS
174	95	50	120	70.7	141571	PASS
175	174	5	9	7.6	10721	PASS
176	174	95	101	96.9	137195	PASS
177	176	5	9	6.6	9012	PASS

ALS Group USA, Corp.

DBA ALS Environmetal

QC/QC Report

Date Analyzed: 9/2/21 12:07

ICAL Tune Summary
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\msvoa12\Data\090221\K6356.D Analytical Method: 8260C/624.1

Instrument ID: R-MS-12

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Results Pass/Fail
50	95	15	40	18.9	34549	PASS
75	9S	30	60	50.9	93243	PASS
95	95	100	100	100.0	183147	PASS
96	95	5	9	6.6	12166	PASS
173	174	0	2	1.2	1539	PASS
174	95	50	120	70.7	129480	PASS
175	174	5	9	8.6	11139	PASS
176	174	95	101	99.9	129336	PASS
177	176	5	9	6.2	8072	PASS

Sample Name	Lab Code	File ID:	Date Analyzes:	Q
1.0ppb	1.0ppb	I:\ACQUDATA\msvoa12\Data\090221\K6357.D	9/2/21 12:29	
2.0ppb	2.0ppb	I:\ACQUDATA\msvoa12\Data\090221\K6358.D	9/2/21 12:51	
5.0ppb	5.0ppb	I:\ACQUDATA\msvoa12\Data\090221\K6359.D	9/2/21 13:13	
20ppb	20ppb	I:\ACQUDATA\msvoa12\Data\090221\K6360.D	9/2/21 13:35	
50ppb	50ppb	I:\ACQUDATA\msvoa12\Data\090221\K6361.D	9/2/21 13:57	
100ppb	100ppb	I:\ACQUDATA\msvoa12\Data\090221\K6362.D	9/2/21 14:18	
150ppb	150ppb	I:\ACQUDATA\msvoa12\Data\090221\K6363.D	9/2/21 14:40	
200ppb	200ppb	I:\ACQUDATA\msvoa12\Data\090221\K6364.D	9/2/21 15:02	
ICV-50	ICV-50	I:\ACQUDATA\msvoa12\Data\090221\K6368.D	9/2/21 16:40	

Analysis: 8260+624 Waters | Analyst: KJ West | pH strips: N/A | Tune Method: W090221

Date: 9/2/21 | Balance ID: N/A | ResCl strips: N/A | Run Method: L

Instr. 12 | 50 mL Class A used for dilution FV | Syringes: 217091 + 202106 | LIMS Run# : ICAL

Data Path: j:\acqudata\msvoa(InstID)\(Date)

Pos.	Sample	Diln.	Diln. Prep./			RL	Tier	Vial	pH	File#	OK?	Comments
				SM(Atomx)								
1	BLK									K6353		
2	DI WT									K6354	YT	(auto) 11:13
1	IBLK	(5ppm)	(500ppm)	5D	FV					K6355	YB	
2	0.5ppb	5mL	—	—	50mls					K6356	Y	
3	1.0	10mL	—	—						K6357	Y	
4	2.0	20mL	—	—						K6358	Y	
5	5.0	50mL	—	1mL						K6359	Y	
6	20	—	2mL	2mL						K6360	Y	
7	50	—	5mL	5mL						K6361	Y	
8	100	—	10mL	10mL						K6362	Y	
9	150	—	15mL	20mL						K6363	Y	
10	200	—	20mL	—						K6364	Y	
11	BLK									K6365	—	
12	↓									K6366	—	
13	↓									K6367	—	
1	ICV·50									K6368	YQ	
2	BLK									K6369	—	

EOD
KR 9/3/21

All samples = 5 mL + 5 uL combined IS/Surr. 5 mL purged

Combined IS/Surr :
Surrogate 5D : 219023
Internal Std 5D : 219024
Reagents:

500 Primary Acct : 218147
Primary Fr+ : 219076
Primary TG : 218576
Primary HSL : 218923
Primary :

10mL → 1.0mL MeOH = 5 ppm

200 Secondary Fr+ : 218625 - 17.5uL
500 Secondary Acct : 218150
Secondary HSL : 218998
Secondary TG : 218705
Secondary :

5mL → 50mls = ICV

Client: Day Environmental, Inc. **Service Request:** R2111358
Project: Erie Harbor **Calibration Date:** 9/2/2021

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

Calibration ID: RC2100117 **Signal ID:** 1
Instrument ID: R-MS-12

#	Lab Code	Sample Name	File Location	Acquisition Date
01	RC2100117-01	0.5ppb	I:\ACQUDATA\msvoa12\Data\090221\K6356.D	09/02/2021 12:07
02	RC2100117-02	1.0ppb	I:\ACQUDATA\msvoa12\Data\090221\K6357.D	09/02/2021 12:29
03	RC2100117-03	2.0ppb	I:\ACQUDATA\msvoa12\Data\090221\K6358.D	09/02/2021 12:51
04	RC2100117-04	5.0ppb	I:\ACQUDATA\msvoa12\Data\090221\K6359.D	09/02/2021 13:13
05	RC2100117-05	20ppb	I:\ACQUDATA\msvoa12\Data\090221\K6360.D	09/02/2021 13:35
06	RC2100117-06	50ppb	I:\ACQUDATA\msvoa12\Data\090221\K6361.D	09/02/2021 13:57
07	RC2100117-07	100ppb	I:\ACQUDATA\msvoa12\Data\090221\K6362.D	09/02/2021 14:18
08	RC2100117-08	150ppb	I:\ACQUDATA\msvoa12\Data\090221\K6363.D	09/02/2021 14:40
09	RC2100117-09	200ppb	I:\ACQUDATA\msvoa12\Data\090221\K6364.D	09/02/2021 15:02

Analyte

1,1,1-Trichloroethane (TCA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.8585	02	1.000	0.8017	03	2.000	0.8029	04	5.000	0.8101
05	20.000	0.7424	06	50.000	0.8241	07	100.000	0.7763	08	150.000	0.8016
09	200.000	0.7877									

1,1,2,2-Tetrachloroethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.124	02	1.000	0.9724	03	2.000	0.9269	04	5.000	1.093
05	20.000	1.068	06	50.000	1.136	07	100.000	1.045	08	150.000	1.026
09	200.000	1.075									

1,1,2-Trichloro-1,2,2-trifluoroethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4638	02	1.000	0.5506	03	2.000	0.5199	04	5.000	0.4756
05	20.000	0.4346	06	50.000	0.4733	07	100.000	0.4426	08	150.000	0.4614
09	200.000	0.4528									

1,1,2-Trichloroethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4028	02	1.000	0.3623	03	2.000	0.3651	04	5.000	0.3362
05	20.000	0.3166	06	50.000	0.3211	07	100.000	0.3161	08	150.000	0.3238
09	200.000	0.3083									

1,1-Dichloroethane (1,1-DCA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.128	02	1.000	0.9369	03	2.000	0.935	04	5.000	1.054
05	20.000	0.9801	06	50.000	1.034	07	100.000	0.9778	08	150.000	0.9915
09	200.000	0.9683									

1,1-Dichloroethene (1,1-DCE)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5512	02	1.000	0.448	03	2.000	0.4884	04	5.000	0.5264
05	20.000	0.46	06	50.000	0.4824	07	100.000	0.4687	08	150.000	0.4779
09	200.000	0.4735									

Client: Day Environmental, Inc. **Service Request:** R2111358
Project: Erie Harbor **Calibration Date:** 9/2/2021

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Analyte

1,2,3-Trichlorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	1.238	03	2.000	1.285	04	5.000	1.316	05	20.000	1.191
06	50.000	1.29	07	100.000	1.191	08	150.000	1.14	09	200.000	1.168

1,2,4-Trichlorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.284	02	1.000	1.235	03	2.000	1.236	04	5.000	1.296
05	20.000	1.191	06	50.000	1.278	07	100.000	1.19	08	150.000	1.143
09	200.000	1.18									

1,2-Dibromo-3-chloropropane (DBCP)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.1744	03	2.000	0.1896	04	5.000	0.2108	05	20.000	0.2277
06	50.000	0.2529	07	100.000	0.2559	08	150.000	0.25	09	200.000	0.2676

1,2-Dibromoethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3957	02	1.000	0.3702	03	2.000	0.3714	04	5.000	0.3667
05	20.000	0.37	06	50.000	0.3741	07	100.000	0.3587	08	150.000	0.3556
09	200.000	0.3533									

1,2-Dichlorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.956	02	1.000	1.647	03	2.000	1.68	04	5.000	1.883
05	20.000	1.647	06	50.000	1.743	07	100.000	1.583	08	150.000	1.584
09	200.000	1.58									

1,2-Dichloroethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5804	02	1.000	0.5709	03	2.000	0.572	04	5.000	0.5376
05	20.000	0.5326	06	50.000	0.5288	07	100.000	0.4984	08	150.000	0.4922
09	200.000	0.48									

1,2-Dichloropropane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4278	02	1.000	0.3929	03	2.000	0.3262	04	5.000	0.3621
05	20.000	0.3696	06	50.000	0.3707	07	100.000	0.3552	08	150.000	0.3558
09	200.000	0.3489									

1,3-Dichlorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.872	02	1.000	1.827	03	2.000	1.77	04	5.000	1.716
05	20.000	1.634	06	50.000	1.757	07	100.000	1.59	08	150.000	1.602
09	200.000	1.598									

1,4-Dichlorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	2.151	02	1.000	2.013	03	2.000	1.939	04	5.000	1.936

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Analyte

1,4-Dichlorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
05	20.000	1.719	06	50.000	1.826	07	100.000	1.645	08	150.000	1.657
09	200.000	1.654									

1,4-Dioxane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	40.000	0.00974	04	100.000	0.007995	05	400.000	0.008264	06	1000.000	0.007646
07	2000.000	0.007728	08	3000.000	0.007579	09	4000.000	0.007447			

2-Butanone (MEK)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	2.000	0.514	04	5.000	0.5148	05	20.000	0.4032	06	50.000	0.4059
07	100.000	0.3956	08	150.000	0.3918	09	200.000	0.3979			

2-Hexanone

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	2.000	0.3506	04	5.000	0.4102	05	20.000	0.4227	06	50.000	0.4031
07	100.000	0.3818	08	150.000	0.3991	09	200.000	0.3886			

4-Bromofluorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	10.000	0.5456	05	20.000	0.4792	06	50.000	0.497	07	100.000	0.5099
08	200.000	0.5076									

4-Methyl-2-pentanone

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	2.000	0.4797	04	5.000	0.512	05	20.000	0.5312	06	50.000	0.4751
07	100.000	0.4699	08	150.000	0.4905	09	200.000	0.4718			

Acetone

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	5.000	0.3984	05	20.000	0.3186	06	50.000	0.2854	07	100.000	0.2568
08	150.000	0.262	09	200.000	0.2542						

Benzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.557	02	1.000	1.465	03	2.000	1.536	04	5.000	1.4
05	20.000	1.347	06	50.000	1.417	07	100.000	1.335	08	150.000	1.377
09	200.000	1.324									

Bromochloromethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.378	02	1.000	0.3203	03	2.000	0.3954	04	5.000	0.3822
05	20.000	0.3258	06	50.000	0.3459	07	100.000	0.3317	08	150.000	0.336
09	200.000	0.3332									

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Analyte

Bromodichloromethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4912	02	1.000	0.4673	03	2.000	0.455	04	5.000	0.4358
05	20.000	0.413	06	50.000	0.4365	07	100.000	0.4296	08	150.000	0.4426
09	200.000	0.4342									

Bromoform

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.2911	03	2.000	0.3534	04	5.000	0.3406	05	20.000	0.3792
06	50.000	0.4186	07	100.000	0.4178	08	150.000	0.4424	09	200.000	0.4639

Bromomethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.7288	02	1.000	0.7133	03	2.000	0.6393	04	5.000	0.5074
05	20.000	0.4558	06	50.000	0.4445	07	100.000	0.1574	08	150.000	0.1559
09	200.000	0.1691									

Carbon Disulfide

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.164	02	1.000	1.218	03	2.000	1.277	04	5.000	1.116
05	20.000	1.128	06	50.000	1.142	07	100.000	1.169	08	150.000	1.194
09	200.000	1.18									

Carbon Tetrachloride

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4226	02	1.000	0.4297	03	2.000	0.3525	04	5.000	0.3737
05	20.000	0.356	06	50.000	0.382	07	100.000	0.3683	08	150.000	0.395
09	200.000	0.3862									

Chlorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.104	02	1.000	1.126	03	2.000	1.141	04	5.000	1.123
05	20.000	1.033	06	50.000	1.063	07	100.000	1.002	08	150.000	1.006
09	200.000	0.9782									

Chloroethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.582	02	1.000	0.4542	03	2.000	0.4831	04	5.000	0.4596
05	20.000	0.4023	06	50.000	0.435	07	100.000	0.3969	08	150.000	0.3967
09	200.000	0.3858									

Chloroform

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	1.402	03	2.000	1.269	04	5.000	1.142	05	20.000	0.943
06	50.000	1.004	07	100.000	0.9382	08	150.000	0.9504	09	200.000	0.9284

Chloromethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6721	02	1.000	0.6578	03	2.000	0.6038	04	5.000	0.5381

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Analyte

Chloromethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
05	20.000	0.522	06	50.000	0.5586	07	100.000	0.5392	08	150.000	0.5758
09	200.000	0.5594									

Cyclohexane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.3918	03	2.000	0.3653	04	5.000	0.3375	05	20.000	0.3004
06	50.000	0.3184	07	100.000	0.3086	08	150.000	0.3188	09	200.000	0.3061

Dibromochloromethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.2438	02	1.000	0.2909	03	2.000	0.3144	04	5.000	0.2862
05	20.000	0.2914	06	50.000	0.3244	07	100.000	0.3247	08	150.000	0.3281
09	200.000	0.3244									

Dibromofluoromethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	10.000	0.2814	05	20.000	0.2613	06	50.000	0.2697	07	100.000	0.2769
08	200.000	0.2716									

Dichlorodifluoromethane (CFC 12)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6662	02	1.000	0.6084	03	2.000	0.6178	04	5.000	0.6335
05	20.000	0.699	06	50.000	0.7457	07	100.000	0.7021	08	150.000	0.7088
09	200.000	0.6914									

Dichloromethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.7844	02	1.000	0.6382	03	2.000	0.5779	04	5.000	0.5841
05	20.000	0.5057	06	50.000	0.538	07	100.000	0.528	08	150.000	0.5369
09	200.000	0.5268									

Ethylbenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.7053	02	1.000	0.5943	03	2.000	0.6029	04	5.000	0.5981
05	20.000	0.5207	06	50.000	0.5911	07	100.000	0.5596	08	150.000	0.5583
09	200.000	0.5465									

Isopropylbenzene (Cumene)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	3.515	02	1.000	3.18	03	2.000	3.717	04	5.000	3.78
05	20.000	3.277	06	50.000	3.609	07	100.000	3.163	08	150.000	3.16
09	200.000	3.121									

Methyl Acetate

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.6439	03	2.000	0.6631	04	5.000	0.6823	05	20.000	0.6228
06	50.000	0.6274	07	100.000	0.6336	08	150.000	0.6086	09	200.000	0.6187

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Methyl tert-Butyl Ether

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.883	02	1.000	1.741	03	2.000	1.94	04	5.000	2.146
05	20.000	1.996	06	50.000	1.988	07	100.000	1.981	08	150.000	1.954
09	200.000	1.962									

Methylcyclohexane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.498	03	2.000	0.4516	04	5.000	0.4832	05	20.000	0.4107
06	50.000	0.4675	07	100.000	0.4648	08	150.000	0.4709	09	200.000	0.4565

Styrene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.195	02	1.000	1.142	03	2.000	1.103	04	5.000	1.189
05	20.000	1.142	06	50.000	1.252	07	100.000	1.183	08	150.000	1.197
09	200.000	1.139									

Tetrachloroethene (PCE)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3361	02	1.000	0.3286	03	2.000	0.3224	04	5.000	0.2847
05	20.000	0.262	06	50.000	0.2781	07	100.000	0.2598	08	150.000	0.2624
09	200.000	0.2594									

Toluene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.473	02	1.000	1.519	03	2.000	1.546	04	5.000	1.687
05	20.000	1.492	06	50.000	1.536	07	100.000	1.462	08	150.000	1.515
09	200.000	1.434									

Toluene-d8

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	10.000	1.394	05	20.000	1.184	06	50.000	1.287	07	100.000	1.289
08	200.000	1.243									

Trichloroethene (TCE)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3717	02	1.000	0.4206	03	2.000	0.3682	04	5.000	0.381
05	20.000	0.3263	06	50.000	0.3391	07	100.000	0.3171	08	150.000	0.3294
09	200.000	0.3136									

Trichlorofluoromethane (CFC 11)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.9375	02	1.000	0.8712	03	2.000	0.8941	04	5.000	0.9735
05	20.000	0.7974	06	50.000	0.8649	07	100.000	0.8119	08	150.000	0.8064
09	200.000	0.7608									

Vinyl Chloride

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.7912	02	1.000	0.6684	03	2.000	0.6636	04	5.000	0.7104

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Analyte

Vinyl Chloride

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
05	20.000	0.6316	06	50.000	0.686	07	100.000	0.6456	08	150.000	0.6517
09	200.000	0.6386									

cis-1,2-Dichloroethene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.7145	02	1.000	0.6919	03	2.000	0.6405	04	5.000	0.5991
05	20.000	0.5433	06	50.000	0.5917	07	100.000	0.5729	08	150.000	0.5864
09	200.000	0.575									

cis-1,3-Dichloropropene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4802	02	1.000	0.5201	03	2.000	0.4602	04	5.000	0.5393
05	20.000	0.5338	06	50.000	0.5653	07	100.000	0.5674	08	150.000	0.5956
09	200.000	0.573									

m,p-Xylenes

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.7286	02	2.000	0.709	03	4.000	0.7252	04	10.000	0.7402
05	40.000	0.6751	06	100.000	0.7445	07	200.000	0.6936	08	300.000	0.6939
09	400.000	0.6679									

o-Xylene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.7754	02	1.000	0.7109	03	2.000	0.712	04	5.000	0.6962
05	20.000	0.6563	06	50.000	0.7293	07	100.000	0.6757	08	150.000	0.6837
09	200.000	0.6598									

trans-1,2-Dichloroethene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6083	02	1.000	0.5661	03	2.000	0.5046	04	5.000	0.5603
05	20.000	0.4835	06	50.000	0.526	07	100.000	0.5091	08	150.000	0.522
09	200.000	0.5082									

trans-1,3-Dichloropropene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4122	02	1.000	0.4837	03	2.000	0.4475	04	5.000	0.4549
05	20.000	0.4978	06	50.000	0.5379	07	100.000	0.5376	08	150.000	0.5593
09	200.000	0.5522									

Client: Day Environmental, Inc. **Service Request:** R2111358
Project: Erie Harbor **Calibration Date:** 9/2/2021

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

Calibration ID: RC2100117 **Signal ID:** 1
Instrument ID: R-MS-12

Analyte Name	Compound Type	Calibration Evaluation				Calibration Evaluation	
		Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
1,1,1-Trichloroethane (TCA)	TRG	Average RF	% RSD	4.0	≤20	0.8006	0.100
1,1,2,2-Tetrachloroethane	TRG	Average RF	% RSD	6.5	≤20	1.052	0.300
1,1,2-Trichloro-1,2,2-trifluoroethane	TRG	Average RF	% RSD	7.9	≤20	0.4749	0.100
1,1,2-Trichloroethane	TRG	Average RF	% RSD	9.2	≤20	0.3391	0.100
1,1-Dichloroethane (1,1-DCA)	TRG	Average RF	% RSD	6.2	≤20	1.001	0.200
1,1-Dichloroethene (1,1-DCE)	TRG	Average RF	% RSD	6.7	≤20	0.4863	0.100
1,2,3-Trichlorobenzene	TRG	Average RF	% RSD	5.2	≤20	1.227	
1,2,4-Trichlorobenzene	TRG	Average RF	% RSD	4.3	≤20	1.226	0.200
1,2-Dibromo-3-chloropropane (DBCP)	TRG	Average RF	% RSD	14.9	≤20	0.2286	0.050
1,2-Dibromoethane	TRG	Average RF	% RSD	3.4	≤20	0.3684	0.100
1,2-Dichlorobenzene	TRG	Average RF	% RSD	8.0	≤20	1.7	0.400
1,2-Dichloroethane	TRG	Average RF	% RSD	6.9	≤20	0.5325	0.100
1,2-Dichloropropane	TRG	Average RF	% RSD	7.9	≤20	0.3677	0.100
1,3-Dichlorobenzene	TRG	Average RF	% RSD	6.2	≤20	1.707	0.600
1,4-Dichlorobenzene	TRG	Average RF	% RSD	9.9	≤20	1.838	0.500
1,4-Dioxane	TRG	Average RF	% RSD	9.8	≤20	0.008057	
2-Butanone (MEK)	TRG	Average RF	% RSD	13.1	≤20	0.4319	0.05
2-Hexanone	TRG	Average RF	% RSD	5.9	≤20	0.3937	0.05
4-Bromofluorobenzene	SURR	Average RF	% RSD	4.8	≤20	0.5079	
4-Methyl-2-pentanone	TRG	Average RF	% RSD	4.7	≤20	0.49	0.05
Acetone	TRG	Quadratic	COD	0.9984	≥0.99	0.2959	0.05
Benzene	TRG	Average RF	% RSD	6.0	≤20	1.418	0.500
Bromochloromethane	TRG	Average RF	% RSD	7.9	≤20	0.3498	
Bromodichloromethane	TRG	Average RF	% RSD	5.2	≤20	0.445	0.200
Bromoform	TRG	Average RF	% RSD	14.9	≤20	0.3884	0.100
Bromomethane	TRG	Average RF	% RSD	52.9	≤20	0.4413	0.100
Carbon Disulfide	TRG	Average RF	% RSD	4.2	≤20	1.177	0.100
Carbon Tetrachloride	TRG	Average RF	% RSD	7.0	≤20	0.3851	0.05
Chlorobenzene	TRG	Average RF	% RSD	5.8	≤20	1.064	0.500
Chloroethane	TRG	Average RF	% RSD	13.9	≤20	0.444	0.100
Chloroform	TRG	Linear	R2	0.9964	≥0.99	1.072	0.200
Chloromethane	TRG	Average RF	% RSD	9.2	≤20	0.5808	0.100
Cyclohexane	TRG	Average RF	% RSD	9.8	≤20	0.3309	0.100
Dibromochloromethane	TRG	Average RF	% RSD	9.2	≤20	0.3031	0.100

Client: Day Environmental, Inc. **Service Request:** R2111358
Project: Erie Harbor **Calibration Date:** 9/2/2021

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

Calibration ID: RC2100117 **Signal ID:** 1
Instrument ID: R-MS-12

Analyte Name	Compound Type	Calibration Evaluation				Calibration Evaluation	
		Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
Dibromofluoromethane	SURR	Average RF	% RSD	2.8	≤20	0.2722	
Dichlorodifluoromethane (CFC 12)	TRG	Average RF	% RSD	6.9	≤20	0.6748	0.100
Dichloromethane	TRG	Average RF	% RSD	14.9	≤20	0.58	0.100
Ethylbenzene	TRG	Average RF	% RSD	9.0	≤20	0.5863	0.100
Isopropylbenzene (Cumene)	TRG	Average RF	% RSD	7.8	≤20	3.391	0.100
Methyl Acetate	TRG	Average RF	% RSD	3.9	≤20	0.6375	0.100
Methyl tert-Butyl Ether	TRG	Average RF	% RSD	5.5	≤20	1.955	0.100
Methylcyclohexane	TRG	Average RF	% RSD	5.6	≤20	0.4629	0.100
Styrene	TRG	Average RF	% RSD	3.8	≤20	1.171	0.300
Tetrachloroethene (PCE)	TRG	Average RF	% RSD	11.1	≤20	0.2882	0.200
Toluene	TRG	Average RF	% RSD	4.8	≤20	1.518	0.400
Toluene-d8	SURR	Average RF	% RSD	6.0	≤20	1.279	
Trichloroethene (TCE)	TRG	Average RF	% RSD	10.2	≤20	0.3519	0.200
Trichlorofluoromethane (CFC 11)	TRG	Average RF	% RSD	8.2	≤20	0.8575	0.100
Vinyl Chloride	TRG	Average RF	% RSD	7.3	≤20	0.6763	0.100
cis-1,2-Dichloroethene	TRG	Average RF	% RSD	9.4	≤20	0.6128	0.100
cis-1,3-Dichloropropene	TRG	Average RF	% RSD	8.3	≤20	0.5372	0.200
m,p-Xylenes	TRG	Average RF	% RSD	3.9	≤20	0.7087	0.100
o-Xylene	TRG	Average RF	% RSD	5.3	≤20	0.6999	0.300
trans-1,2-Dichloroethene	TRG	Average RF	% RSD	7.3	≤20	0.532	0.100
trans-1,3-Dichloropropene	TRG	Average RF	% RSD	10.5	≤20	0.4981	0.100

Client: Day Environmental, Inc. **Service Request:** R2111358
Project: Erie Harbor **Calibration Date:** 9/2/2021

Initial Calibration Verification Summary
Volatile Organic Compounds by GC/MS

Calibration ID: RC2100117 **Signal ID:** 1
Instrument ID: R-MS-12

#	Lab Code	Sample Name	File Location	Acquisition Date
10	RC2100117-10	ICV-50	I:\ACQUDATA\msvoa12\Data\090221\K6368.D	09/02/2021 16:40

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
1,1,1-Trichloroethane (TCA)	50.0	49.9	8.006E-1	7.992E-1	-0.174	±30	Average RF
1,1,2,2-Tetrachloroethane	50.0	47.9	1.052E0	1.007E0	-4.298	±30	Average RF
1,1,2-Trichloroethane	50.0	46.0	3.391E-1	3.121E-1	-7.983	±30	Average RF
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	49.1	4.749E-1	4.66E-1	-1.875	±30	Average RF
1,1-Dichloroethane (1,1-DCA)	50.0	49.1	1.001E0	9.833E-1	-1.732	±30	Average RF
1,1-Dichloroethene (1,1-DCE)	50.0	47.8	4.863E-1	4.654E-1	-4.304	±30	Average RF
1,2,3-Trichlorobenzene	50.0	48.3	1.227E0	1.187E0	-3.307	±30	Average RF
1,2,4-Trichlorobenzene	50.0	49.9	1.226E0	1.223E0	-0.267	±30	Average RF
1,2-Dibromo-3-chloropropane (DBCP)	50.0	49.0	2.286E-1	2.241E-1	-2.000	±30	Average RF
1,2-Dibromoethane	50.0	45.9	3.684E-1	3.38E-1	-8.246	±30	Average RF
1,2-Dichlorobenzene	50.0	46.7	1.7E0	1.589E0	-6.550	±30	Average RF
1,2-Dichloroethane	50.0	45.3	5.325E-1	4.82E-1	-9.482	±30	Average RF
1,2-Dichloropropane	50.0	47.5	3.677E-1	3.492E-1	-5.025	±30	Average RF
1,3-Dichlorobenzene	50.0	46.7	1.707E0	1.596E0	-6.535	±30	Average RF
1,4-Dichlorobenzene	50.0	44.4	1.838E0	1.633E0	-11.129	±30	Average RF
1,4-Dioxane	1000	832	8.057E-3	6.702E-3	-16.817	±30	Average RF
2-Butanone (MEK)	50.0	43.8	4.319E-1	3.784E-1	-12.371	±30	Average RF
2-Hexanone	50.0	45.5	3.937E-1	3.58E-1	-9.075	±30	Average RF
4-Methyl-2-pentanone	50.0	46.8	4.9E-1	4.59E-1	-6.329	±30	Average RF
Acetone	50.0	43.6	2.959E-1	2.521E-1	-12.716	±30	Quadratic
Benzene	50.0	46.0	1.418E0	1.306E0	-7.905	±30	Average RF
Bromochloromethane	50.0	47.6	3.498E-1	3.328E-1	-4.865	±30	Average RF
Bromodichloromethane	50.0	46.8	4.45E-1	4.167E-1	-6.360	±30	Average RF
Bromoform	50.0	49.7	3.884E-1	3.858E-1	-0.657	±30	Average RF
Bromomethane	50.0	49.4	4.413E-1	4.36E-1	-1.196	±30	Average RF
Carbon Disulfide	50.0	56.4	1.177E0	1.328E0	12.83	±30	Average RF
Carbon Tetrachloride	50.0	47.7	3.851E-1	3.678E-1	-4.507	±30	Average RF
Chlorobenzene	50.0	45.1	1.064E0	9.596E-1	-9.817	±30	Average RF
Chloroethane	50.0	52.6	4.44E-1	4.673E-1	5.25	±30	Average RF
Chloroform	50.0	48.2	1.072E0	9.379E-1	-3.685	±30	Linear
Chloromethane	50.0	54.1	5.808E-1	6.279E-1	8.12	±30	Average RF
Cyclohexane	50.0	45.2	3.309E-1	2.991E-1	-9.586	±30	Average RF
Dibromochloromethane	50.0	48.0	3.031E-1	2.913E-1	-3.901	±30	Average RF

Client: Day Environmental, Inc. **Service Request:** R2111358
Project: Erie Harbor **Calibration Date:** 9/2/2021

Initial Calibration Verification Summary
Volatile Organic Compounds by GC/MS

Calibration ID: RC2100117 **Signal ID:** 1
Instrument ID: R-MS-12

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
Dichlorodifluoromethane (CFC 12)	50.0	48.4	6.748E-1	6.529E-1	-3.241	±30	Average RF
Dichloromethane	50.0	44.0	5.8E-1	5.1E-1	-12.076	±30	Average RF
Ethylbenzene	50.0	46.3	5.863E-1	5.428E-1	-7.418	±30	Average RF
Isopropylbenzene (Cumene)	50.0	50.6	3.391E0	3.434E0	1.25	±30	Average RF
Methyl Acetate	50.0	59.0	6.375E-1	7.526E-1	18.04	±30	Average RF
Methyl tert-Butyl Ether	50.0	49.2	1.955E0	1.924E0	-1.544	±30	Average RF
Methylcyclohexane	50.0	50.5	4.629E-1	4.673E-1	0.944	±30	Average RF
Styrene	50.0	47.2	1.171E0	1.105E0	-5.689	±30	Average RF
Tetrachloroethene (PCE)	50.0	46.6	2.882E-1	2.685E-1	-6.836	±30	Average RF
Toluene	50.0	47.8	1.518E0	1.451E0	-4.459	±30	Average RF
Trichloroethene (TCE)	50.0	45.2	3.519E-1	3.179E-1	-9.658	±30	Average RF
Trichlorofluoromethane (CFC 11)	50.0	46.7	8.575E-1	8.008E-1	-6.617	±30	Average RF
Vinyl Chloride	50.0	51.9	6.763E-1	7.015E-1	3.72	±30	Average RF
cis-1,2-Dichloroethene	50.0	48.3	6.128E-1	5.925E-1	-3.315	±30	Average RF
cis-1,3-Dichloropropene	50.0	51.5	5.372E-1	5.528E-1	2.91	±30	Average RF
m,p-Xylenes	100	94.1	7.087E-1	6.666E-1	-5.935	±30	Average RF
o-Xylene	50.0	47.4	6.999E-1	6.632E-1	-5.249	±30	Average RF
trans-1,2-Dichloroethene	50.0	48.2	5.32E-1	5.133E-1	-3.513	±30	Average RF
trans-1,3-Dichloropropene	50.0	51.3	4.981E-1	5.108E-1	2.55	±30	Average RF

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
4-Bromofluorobenzene	50.0	50.4	5.079E-1	5.119E-1	0.786	±30	Average RF
Dibromofluoromethane	50.0	53.2	2.722E-1	2.896E-1	6.39	±30	Average RF
Toluene-d8	50.0	51.3	1.279E0	1.313E0	2.66	±30	Average RF

Client: Day Environmental, Inc. **Service Request:** R2111358
Project: Erie Harbor/4155R-09 **Date Analyzed:** 10/30/21 11:53

Continuing Calibration Verification (CCV) Summary
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C **Calibration Date:** 9/2/2021
File ID: I:\ACQUDATA\msvoa12\Data\103021\K8372.D\ **Calibration ID:** RC2100117
Signal ID: 1 **Analysis Lot:** 744443
Units: ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
1,1,1-Trichloroethane (TCA)	50.0	48.3	0.8006	0.7736	-3.4	NA	±20	Average RF
1,1,2,2-Tetrachloroethane	50.0	53.9	1.0518	1.133	7.7	NA	±20	Average RF
1,1,2-Trichloroethane	50.0	49.7	0.3391	0.3371	-0.6	NA	±20	Average RF
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	50.9	0.4749	0.4839	1.9	NA	±20	Average RF
1,1-Dichloroethane (1,1-DCA)	50.0	50.2	1.0007	1.0037	0.3	NA	±20	Average RF
1,1-Dichloroethene (1,1-DCE)	50.0	51.1	0.4863	0.4969	2.2	NA	±20	Average RF
1,2,3-Trichlorobenzene	50.0	53.8	1.2274	1.3209	7.6	NA	±20	Average RF
1,2,4-Trichlorobenzene	50.0	53.6	1.2258	1.3151	7.3	NA	±20	Average RF
1,2-Dibromo-3-chloropropane (DBCP)	50.0	57.4	0.2286	0.2624	14.8	NA	±20	Average RF
1,2-Dibromoethane	50.0	52.4	0.3684	0.3857	4.7	NA	±20	Average RF
1,2-Dichlorobenzene	50.0	51.4	1.7002	1.7463	2.7	NA	±20	Average RF
1,2-Dichloroethane	50.0	45.6	0.5325	0.4855	-8.8	NA	±20	Average RF
1,2-Dichloropropane	50.0	50.5	0.3677	0.3714	1.0	NA	±20	Average RF
1,3-Dichlorobenzene	50.0	51.2	1.7073	1.7483	2.4	NA	±20	Average RF
1,4-Dichlorobenzene	50.0	49.4	1.8379	1.8162	-1.2	NA	±20	Average RF
1,4-Dioxane	1000	965	0.0081	0.0078	-3.5	NA	±20	Average RF
2-Butanone (MEK)	50.0	48.3	0.4319	0.4175	-3.3	NA	±20	Average RF
2-Hexanone	50.0	51.7	0.3937	0.4069	3.4	NA	±20	Average RF
4-Methyl-2-pentanone	50.0	48.5	0.49	0.4756	-3.0	NA	±20	Average RF
Acetone	50.0	51.0	0.2959	0.2909	NA	1.9	±20	Quadratic
Benzene	50.0	51.3	1.4176	1.4543	2.6	NA	±20	Average RF
Bromochloromethane	50.0	52.1	0.3498	0.3648	4.3	NA	±20	Average RF
Bromodichloromethane	50.0	47.7	0.445	0.4248	-4.5	NA	±20	Average RF
Bromoform	50.0	55.8	0.3884	0.4332	11.5	NA	±20	Average RF
Bromomethane	50.0	55.0	0.4413	0.4855	10.0	NA	±20	Average RF
Carbon Disulfide	50.0	61.9	1.1766	1.4556	23.7*	NA	±20	Average RF
Carbon Tetrachloride	50.0	45.9	0.3851	0.3537	-8.2	NA	±20	Average RF
Chlorobenzene	50.0	52.0	1.064	1.1065	4.0	NA	±20	Average RF
Chloroethane	50.0	47.8	0.444	0.4245	-4.4	NA	±20	Average RF
Chloroform	50.0	49.5	1.0722	0.9634	NA	-1.0	±20	Linear
Chloromethane	50.0	53.2	0.5808	0.6176	6.3	NA	±20	Average RF
Cyclohexane	50.0	47.6	0.3309	0.3148	-4.9	NA	±20	Average RF
Dibromochloromethane	50.0	53.3	0.3031	0.3232	6.6	NA	±20	Average RF
Dichlorodifluoromethane (CFC 12)	50.0	52.9	0.6748	0.714	5.8	NA	±20	Average RF
Dichloromethane	50.0	49.6	0.58	0.5753	-0.8	NA	±20	Average RF
Ethylbenzene	50.0	52.0	0.5863	0.6101	4.1	NA	±20	Average RF
Isopropylbenzene (Cumene)	50.0	52.3	3.3914	3.5466	4.6	NA	±20	Average RF
Methyl Acetate	50.0	51.8	0.6375	0.6607	3.6	NA	±20	Average RF
Methyl tert-Butyl Ether	50.0	52.7	1.9545	2.0593	5.4	NA	±20	Average RF

Client: Day Environmental, Inc. **Service Request:** R2111358
Project: Erie Harbor/4155R-09 **Date Analyzed:** 10/30/21 11:53

Continuing Calibration Verification (CCV) Summary
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C **Calibration Date:** 9/2/2021
File ID: I:\ACQUDATA\msvoa12\Data\103021\K8372.D\ **Calibration ID:** RC2100117
Signal ID: 1 **Analysis Lot:** 744443
Units: ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Methylcyclohexane	50.0	52.1	0.4629	0.482	4.1	NA	±20	Average RF
Styrene	50.0	53.5	1.1713	1.2528	7.0	NA	±20	Average RF
Tetrachloroethene (PCE)	50.0	48.9	0.2882	0.282	-2.1	NA	±20	Average RF
Toluene	50.0	52.3	1.5183	1.5875	4.6	NA	±20	Average RF
Trichloroethene (TCE)	50.0	49.4	0.3519	0.3476	-1.2	NA	±20	Average RF
Trichlorofluoromethane (CFC 11)	50.0	45.2	0.8575	0.7758	-9.5	NA	±20	Average RF
Vinyl Chloride	50.0	49.0	0.6763	0.6621	-2.1	NA	±20	Average RF
cis-1,2-Dichloroethene	50.0	51.3	0.6128	0.6285	2.6	NA	±20	Average RF
cis-1,3-Dichloropropene	50.0	53.2	0.5372	0.5721	6.5	NA	±20	Average RF
m,p-Xylenes	100	107	0.7087	0.7581	7.0	NA	±20	Average RF
o-Xylene	50.0	52.3	0.6999	0.7328	4.7	NA	±20	Average RF
trans-1,2-Dichloroethene	50.0	51.7	0.532	0.5504	3.5	NA	±20	Average RF
trans-1,3-Dichloropropene	50.0	54.9	0.4981	0.5465	9.7	NA	±20	Average RF
4-Bromofluorobenzene	50.0	52.2	0.5079	0.53	4.4	NA	±20	Average RF
Dibromofluoromethane	50.0	54.6	0.2722	0.2973	9.2	NA	±20	Average RF
Toluene-d8	50.0	55.1	1.2794	1.4092	10.1	NA	±20	Average RF

Client: Day Environmental, Inc. **Service Request:**R2111358
Project: Erie Harbor/4155R-09

Analysis Run Log
Volatile Organic Compounds by GC/MS

Analysis Method: **Analysis Lot:**744443
Instrument ID:R-MS-12

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
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I:\ACQUDATA\msvoa12\Data\103021\K8372.D\	Continuing Calibration Verification	RQ2113923-02	10/30/2021	11:53:00	
I:\ACQUDATA\msvoa12\Data\103021\K8373.D\	Lab Control Sample	RQ2113923-03	10/30/2021	12:22:00	
I:\ACQUDATA\msvoa12\Data\103021\K8376.D\	Method Blank	RQ2113923-04	10/30/2021	13:40:00	
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I:\ACQUDATA\msvoa12\Data\103021\K8383.D\	ZZZZZZZ	ZZZZZZZ	10/30/2021	16:13:00	
I:\ACQUDATA\msvoa12\Data\103021\K8384.D\	ZZZZZZZ	ZZZZZZZ	10/30/2021	16:35:00	
I:\ACQUDATA\msvoa12\Data\103021\K8390.D\	165-FB102821	R2111358-006	10/30/2021	18:46:00	
I:\ACQUDATA\msvoa12\Data\103021\K8391.D\	166-TB102821	R2111358-007	10/30/2021	19:08:00	
I:\ACQUDATA\msvoa12\Data\103021\K8392.D\	160-MW-05	R2111358-001	10/30/2021	19:30:00	
I:\ACQUDATA\msvoa12\Data\103021\K8393.D\	161-DAYMW-05a	R2111358-002	10/30/2021	19:51:00	
I:\ACQUDATA\msvoa12\Data\103021\K8394.D\	163-DAYMW09A	R2111358-004	10/30/2021	20:13:00	
I:\ACQUDATA\msvoa12\Data\103021\K8395.D\	164-DAYMW-10	R2111358-005	10/30/2021	20:35:00	
I:\ACQUDATA\msvoa12\Data\103021\K8396.D\	162-DAYMW08	R2111358-003	10/30/2021	20:57:00	
I:\ACQUDATA\msvoa12\Data\103021\K8397.D\	162-DAYMW08 MS	RQ2113923-05	10/30/2021	21:19:00	
I:\ACQUDATA\msvoa12\Data\103021\K8398.D\	162-DAYMW08 DMS	RQ2113923-06	10/30/2021	21:41:00	

Analysis: 8260 Waters | Analyst: KDuest | pH strips: 205521 | Tune Method: WC90221

Date: 10/30/21 | Balance ID: N/A | ResCl strips: N/A | Run Method: ↓

Instr. 12 | 50 mL Class A used for dilution FV | Syringes: 21709.1 | LIMS Run#: 744443

Data Path: j:\acqudata\msvoa(InstID)\(Date)

Pos.	Sample	Diln.	Diln. Prep./	RL	Tier	Vial	pH	File#	OK?	Comments
1	BLK							V68370		
2	DUNE		RQ2113923.01					V68371	YT	(auto) 11:24
1	CCV		02					V68372	YC	
1	LCS.FP		03					V68373	YQ	
1	BLK		—					V68374	(N)	npt to
2	mBLK.lmp		—					V68375	YB	
3	mBLK.FP		04					V68376	YB	
4	R2111170.001	1.0	(LL)	6656	4	1	L2	V68377	Y	
5	002	1.0				1	L2	V68378	Y	
6	003	1.0				1	L2	V68379	Y	
7	004	1.0				1	L2	V68380	Y	
8	005	1.0		↓	↓	1	L2	V68381	Y	
9	R2111132.008	1.0		6691	4	3	L2	V68382	Y	
10	005	1.0		↓	↓	3	L2	V68383	(N)	CD hit
11	R2111151.001	1.0		20896	4	1	L2	V68384	(Y)	npt to tol
12	R2111323.001	1.0		9443	2	1		V68385	(N)	npt to
13	002	1.0				1		V68386		
14	003	1.0				1		V68387		
15	004	1.0				1		V68388		
16	005	1.0		↓	↓	1		V68389	↓	
17	R2111358.006	1.0		12666	4	1	L2	V68390	Y	
18	007	1.0				1	L2	V68391	Y	
19	001	1.0				1	L2	V68392	Y	
20	002	1.0				1	L2	V68393	Y	
21	004	1.0				1	L2	V68394	Y	
22	005	1.0				1	L2	V68395	Y	
23	003	1.0				1	L2	V68396	Y	
24	MS 003	1.0				2	L2	V68397	YQ	
25	MSD 003	1.0		↓	↓	3	L2	V68398	YB	21:41 ✓
26	BLK			—	—	—	—	V68399	—	

All samples = 5 mL + 5 uL combined IS/Surr. 5 mL purged

Combined IS/Surr :

500 Primary Fl+ : 220110

Primary Oct+ : 219767 | 5uL → 50mls = CCV

Primary 76 : 219899

Primary HSL : 219701

Primary :

200 Secondary Fl+ : 219641 - 5uL

500 Secondary Oct+ : 219768

Secondary 76 : 219693 | 2uL → 50mls = LCS

↓ Secondary HSL : 219518

Secondary :

-10.6mL / 4.2mL = 4 2mL vial = MS/D

Surrogate 50 : 219930

Internal Std 50 : 919931

Reagents:

APPENDIX B

Data Usability Summary Report

Data Usability Summary Report

Vali-Data of WNY, LLC
20 Hickory Grove Spur
Fulton, NY 13069

Erie Harbor
ALS Environmental SDG#R2111358
December 2, 2021
Reissued: January 10, 2022
Sampling date: 10/28/2021

Prepared by:
Jodi Zimmerman
Vali-Data of WNY, LLC
20 Hickory Grove Spur
Fulton, NY 13069

DELIVERABLES

This Data Usability Summary Report (DUSR) was prepared by evaluating the analytical data package(reissued; January 10, 2022) for Day Environmental, project located at Erie Harbor, ALS Environmental #R2111358 submitted to Vali-Data of WNY, LLC on November 8, 2021. This DUSR has been prepared in general compliance with USEPA National Functional Guidelines(NFG) and NYSDEC Analytical Services Protocols. The laboratory performed the analysis using USEPA method Volatile Organics (8260C).

ID	Sample ID	Laboratory ID
1	160-MW-05	R2111358-001
2	161-DAYMW-05A	R2111358-002
3	162-DAYMW08	R2111358-003
4	163-DAYMW09A	R2111358-004
5	164-DAYMW-10	R2111358-005
6	165-FB102821	R2111358-006
7	166-TB102821	R2111358-007

The temperature of the samples was outside QC limits, high. Due to the ambient temperature, the time between sampling and delivery and ice inside the cooler, no further action is required.

VOLATILE ORGANIC COMPOUNDS

The following items/criteria were reviewed for this analytical suite:

-Data Completeness
-Narrative and Data Reporting Forms
-Chain of Custody and Traffic Reports
-Holding Times
-Internal Standard (IS) Area Performance
-Surrogate Spike Recoveries
-Method Blank
-Field Duplicate Sample Precision
-Laboratory Control Samples
-MS/MSD
-Compound Quantitation
-Initial Calibration
-Continuing Calibration
-GC/MS Performance Check

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES
The data are acceptable for use except where qualified below in Compound Quantitation, Initial Calibration and Continuing Calibration.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met.
Data was not reported to 3 significant figures. This does not affect the usability of the data.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times were met.

INTERNAL STANDARD (IS)
All criteria were met.

SURROGATE SPIKE RECOVERIES
All criteria were met.

METHOD BLANK
All criteria were met.

FIELD DUPLICATE SAMPLE PRECISION
No field duplicate was acquired.

LABORATORY CONTROL SAMPLES
All criteria were met.

MS/MSD
All criteria were met.

COMPOUND QUANTITATION
All criteria were met except several target analytes were detected165-FB102821. These target analytes should be qualified in the associated samples.

Target Analyte	Concentration ug/L	Qualifier	Associated Sample
2-Butanone	2.7	U at RL	1-5
4-Methyl-2-pentanone	.34	U at RL	1-5
Methyl acetate	.35	U at RL	3

Target Analyte	Concentration ug/L	Qualifier	Associated Sample
Toluene	.60	U at RL	2, 4
Acetone	22	U at RL	5
Acetone	22	U	2-4
Acetone	22	JH	1

INITIAL CALIBRATION

All criteria were met except the RRF of 1,4-Dioxane was outside QC limits in the initial calibration and initial calibration verification. This target analyte should be qualified as estimated in all blanks, spikes and samples.

Bromomethane was outside QC limits in the initial.

ICal ID	Target analyte	%RSD	Qualifier	Associated Sample
R-MS-12 9/2/21	Bromomethane	52.9	UJ/J	RQ21113923, 1-7, 3MS/MSD

Alternate forms of regression were performed on target analytes whose %RSD >20%, with acceptable results.

CONTINUING CALIBRATION

All criteria were met except the RRF of 1,4-Dioxane was outside QC limits in the continuing calibration. This target analyte should be qualified as estimated in all blanks, spikes and samples.

Several target analytes were outside laboratory QC limits but within NFG limits, so no further action is required.

GC/MS PERFORMANCE CHECK

All criteria were met.

Client: Day Environmental, Inc.
Project: Erie Harbor
Sample Matrix: Water

Service Request: R2111358
Date Received: 10/28/2021

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:

Seven water samples were received for analysis at ALS Environmental on 10/28/2021. 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, 10/30/2021: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Revision Comment:

original report was missing chromatograms for the ICAL and ICV.

Approved by _____ Date 11/04/2021

Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R2111358
Project:	Erie Harbor/4155R-09	**Date Collected:**	10/28/21 13:35
Sample Matrix:	Water	**Date Received:**	10/28/21 15:39
Sample Name:	160-MW-05	**Units:**	ug/L
Lab Code:	R2111358-001	**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)	0.20	U	5.0	0.20	1	10/30/21 19:30	
1,1,2,2-Tetrachloroethane	0.20	U	5.0	0.20	1	10/30/21 19:30	
1,1,2-Trichloroethane	0.20	U	5.0	0.20	1	10/30/21 19:30	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20	U	5.0	0.20	1	10/30/21 19:30	
1,1-Dichloroethane (1,1-DCA)	0.20	U	5.0	0.20	1	10/30/21 19:30	
1,1-Dichloroethene (1,1-DCE)	0.20	U	5.0	0.20	1	10/30/21 19:30	
1,2,3-Trichlorobenzene	0.25	U	5.0	0.25	1	10/30/21 19:30	
1,2,4-Trichlorobenzene	0.34	U	5.0	0.34	1	10/30/21 19:30	
1,2-Dibromo-3-chloropropane (DBCP)	0.45	U	5.0	0.45	1	10/30/21 19:30	
1,2-Dibromoethane	0.20	U	5.0	0.20	1	10/30/21 19:30	
1,2-Dichlorobenzene	0.20	U	5.0	0.20	1	10/30/21 19:30	
1,2-Dichloroethane	0.20	U	5.0	0.20	1	10/30/21 19:30	
1,2-Dichloropropane	0.20	U	5.0	0.20	1	10/30/21 19:30	
1,3-Dichlorobenzene	0.20	U	5.0	0.20	1	10/30/21 19:30	
1,4-Dichlorobenzene	0.20	U	5.0	0.20	1	10/30/21 19:30	
1,4-Dioxane	13	U	100	13	1	10/30/21 19:30	
2-Butanone (MEK)	**2.9**	**J**	10	0.78	1	10/30/21 19:30	
2-Hexanone	0.20	U	10	0.20	1	10/30/21 19:30	
4-Methyl-2-pentanone	**0.32**	**J**	10	0.20	1	10/30/21 19:30	
Acetone	**24**		10	5.0	1	10/30/21 19:30	
Benzene	0.20	U	5.0	0.20	1	10/30/21 19:30	
Bromochloromethane	0.20	U	5.0	0.20	1	10/30/21 19:30	
Bromodichloromethane	0.20	U	5.0	0.20	1	10/30/21 19:30	
Bromoform	0.25	U	5.0	0.25	1	10/30/21 19:30	
Bromomethane	0.70	U	5.0	0.70	1	10/30/21 19:30	
Carbon Disulfide	0.42	U	10	0.42	1	10/30/21 19:30	
Carbon Tetrachloride	0.34	U	5.0	0.34	1	10/30/21 19:30	
Chlorobenzene	0.20	U	5.0	0.20	1	10/30/21 19:30	
Chloroethane	0.23	U	5.0	0.23	1	10/30/21 19:30	
Chloroform	0.24	U	5.0	0.24	1	10/30/21 19:30	
Chloromethane	0.28	U	5.0	0.28	1	10/30/21 19:30	
Cyclohexane	0.26	U	10	0.26	1	10/30/21 19:30	
Dibromochloromethane	0.20	U	5.0	0.20	1	10/30/21 19:30	
Dichlorodifluoromethane (CFC 12)	0.21	U	5.0	0.21	1	10/30/21 19:30	
Dichloromethane	0.65	U	5.0	0.65	1	10/30/21 19:30	
Ethylbenzene	0.20	U	5.0	0.20	1	10/30/21 19:30	
Isopropylbenzene (Cumene)	0.20	U	5.0	0.20	1	10/30/21 19:30	
Methyl Acetate	0.33	U	10	0.33	1	10/30/21 19:30	
Methyl tert-Butyl Ether	0.20	U	5.0	0.20	1	10/30/21 19:30	
Methylcyclohexane	0.20	U	10	0.20	1	10/30/21 19:30	
Styrene	0.20	U	5.0	0.20	1	10/30/21 19:30	
Tetrachloroethene (PCE)	0.21	U	5.0	0.21	1	10/30/21 19:30	
Toluene	0.20	U	5.0	0.20	1	10/30/21 19:30	

Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R2111358
Project:	Erie Harbor/4155R-09	**Date Collected:**	10/28/21 13:35
Sample Matrix:	Water	**Date Received:**	10/28/21 15:39
Sample Name:	160-MW-05	**Units:**	ug/L
Lab Code:	R2111358-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	0.20 U	5.0	0.20	1	10/30/21 19:30	
Trichlorofluoromethane (CFC 11)	0.24 U	5.0	0.24	1	10/30/21 19:30	
Vinyl Chloride	0.20 U	5.0	0.20	1	10/30/21 19:30	
cis-1,2-Dichloroethene	0.23 U	5.0	0.23	1	10/30/21 19:30	
cis-1,3-Dichloropropene	0.20 U	5.0	0.20	1	10/30/21 19:30	
m,p-Xylenes	0.20 U	5.0	0.20	1	10/30/21 19:30	
o-Xylene	0.20 U	5.0	0.20	1	10/30/21 19:30	
trans-1,2-Dichloroethene	0.20 U	5.0	0.20	1	10/30/21 19:30	
trans-1,3-Dichloropropene	0.23 U	5.0	0.23	1	10/30/21 19:30	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85 - 122	10/30/21 19:30	
Dibromofluoromethane	105	80 - 116	10/30/21 19:30	
Toluene-d8	109	87 - 121	10/30/21 19:30	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
000067-63-0	Isopropyl Alcohol	2.52	19.9	JN

Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R2111358
Project:	Erie Harbor/4155R-09	**Date Collected:**	10/28/21 13:43
Sample Matrix:	Water	**Date Received:**	10/28/21 15:39
Sample Name:	161-DAYMW-05a	**Units:**	ug/L
Lab Code:	R2111358-002	**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)	0.20	U	5.0	0.20	1	10/30/21 19:51	
1,1,2,2-Tetrachloroethane	0.20	U	5.0	0.20	1	10/30/21 19:51	
1,1,2-Trichloroethane	0.20	U	5.0	0.20	1	10/30/21 19:51	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20	U	5.0	0.20	1	10/30/21 19:51	
1,1-Dichloroethane (1,1-DCA)	0.20	U	5.0	0.20	1	10/30/21 19:51	
1,1-Dichloroethene (1,1-DCE)	0.20	U	5.0	0.20	1	10/30/21 19:51	
1,2,3-Trichlorobenzene	0.25	U	5.0	0.25	1	10/30/21 19:51	
1,2,4-Trichlorobenzene	0.34	U	5.0	0.34	1	10/30/21 19:51	
1,2-Dibromo-3-chloropropane (DBCP)	0.45	U	5.0	0.45	1	10/30/21 19:51	
1,2-Dibromoethane	0.20	U	5.0	0.20	1	10/30/21 19:51	
1,2-Dichlorobenzene	0.20	U	5.0	0.20	1	10/30/21 19:51	
1,2-Dichloroethane	0.20	U	5.0	0.20	1	10/30/21 19:51	
1,2-Dichloropropane	0.20	U	5.0	0.20	1	10/30/21 19:51	
1,3-Dichlorobenzene	0.20	U	5.0	0.20	1	10/30/21 19:51	
1,4-Dichlorobenzene	0.20	U	5.0	0.20	1	10/30/21 19:51	
1,4-Dioxane	13	U	100	13	1	10/30/21 19:51	
2-Butanone (MEK)	**3.3**	**J**	10	0.78	1	10/30/21 19:51	
2-Hexanone	0.20	U	10	0.20	1	10/30/21 19:51	
4-Methyl-2-pentanone	**0.34**	**J**	10	0.20	1	10/30/21 19:51	
Acetone	**18**		10	5.0	1	10/30/21 19:51	
Benzene	0.20	U	5.0	0.20	1	10/30/21 19:51	
Bromochloromethane	0.20	U	5.0	0.20	1	10/30/21 19:51	
Bromodichloromethane	0.20	U	5.0	0.20	1	10/30/21 19:51	
Bromoform	0.25	U	5.0	0.25	1	10/30/21 19:51	
Bromomethane	0.70	U	5.0	0.70	1	10/30/21 19:51	
Carbon Disulfide	0.42	U	10	0.42	1	10/30/21 19:51	
Carbon Tetrachloride	0.34	U	5.0	0.34	1	10/30/21 19:51	
Chlorobenzene	0.20	U	5.0	0.20	1	10/30/21 19:51	
Chloroethane	0.23	U	5.0	0.23	1	10/30/21 19:51	
Chloroform	0.24	U	5.0	0.24	1	10/30/21 19:51	
Chloromethane	0.28	U	5.0	0.28	1	10/30/21 19:51	
Cyclohexane	0.26	U	10	0.26	1	10/30/21 19:51	
Dibromochloromethane	0.20	U	5.0	0.20	1	10/30/21 19:51	
Dichlorodifluoromethane (CFC 12)	0.21	U	5.0	0.21	1	10/30/21 19:51	
Dichloromethane	0.65	U	5.0	0.65	1	10/30/21 19:51	
Ethylbenzene	0.20	U	5.0	0.20	1	10/30/21 19:51	
Isopropylbenzene (Cumene)	0.20	U	5.0	0.20	1	10/30/21 19:51	
Methyl Acetate	0.33	U	10	0.33	1	10/30/21 19:51	
Methyl tert-Butyl Ether	0.20	U	5.0	0.20	1	10/30/21 19:51	
Methylcyclohexane	0.20	U	10	0.20	1	10/30/21 19:51	
Styrene	0.20	U	5.0	0.20	1	10/30/21 19:51	
Tetrachloroethene (PCE)	0.21	U	5.0	0.21	1	10/30/21 19:51	
Toluene	**0.32**	**J**	5.0	0.20	1	10/30/21 19:51	

Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R2111358
Project:	Erie Harbor/4155R-09	**Date Collected:**	10/28/21 13:43
Sample Matrix:	Water	**Date Received:**	10/28/21 15:39
Sample Name:	161-DAYMW-05a	**Units:**	ug/L
Lab Code:	R2111358-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	**1.3 J**	5.0	0.20	1	10/30/21 19:51	
Trichlorofluoromethane (CFC 11)	0.24 U	5.0	0.24	1	10/30/21 19:51	
Vinyl Chloride	0.20 U	5.0	0.20	1	10/30/21 19:51	
cis-1,2-Dichloroethene	0.23 U	5.0	0.23	1	10/30/21 19:51	
cis-1,3-Dichloropropene	0.20 U	5.0	0.20	1	10/30/21 19:51	
m,p-Xylenes	0.20 U	5.0	0.20	1	10/30/21 19:51	
o-Xylene	0.20 U	5.0	0.20	1	10/30/21 19:51	
trans-1,2-Dichloroethene	0.20 U	5.0	0.20	1	10/30/21 19:51	
trans-1,3-Dichloropropene	0.23 U	5.0	0.23	1	10/30/21 19:51	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	85 - 122	10/30/21 19:51	
Dibromofluoromethane	105	80 - 116	10/30/21 19:51	
Toluene-d8	110	87 - 121	10/30/21 19:51	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
000067-63-0	Isopropyl Alcohol	2.54	13.7	JN

Client:	Day Environmental, Inc.	**Service Request:**	R2111358
Project:	Erie Harbor/4155R-09	**Date Collected:**	10/28/21 13:15
Sample Matrix:	Water	**Date Received:**	10/28/21 15:39
Sample Name:	162-DAYMW08	**Units:**	ug/L
Lab Code:	R2111358-003	**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)	0.20 U	5.0	0.20	1	10/30/21 20:57	
1,1,2,2-Tetrachloroethane	0.20 U	5.0	0.20	1	10/30/21 20:57	
1,1,2-Trichloroethane	0.20 U	5.0	0.20	1	10/30/21 20:57	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20 U	5.0	0.20	1	10/30/21 20:57	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	10/30/21 20:57	
1,1-Dichloroethene (1,1-DCE)	0.20 U	5.0	0.20	1	10/30/21 20:57	
1,2,3-Trichlorobenzene	0.25 U	5.0	0.25	1	10/30/21 20:57	
1,2,4-Trichlorobenzene	0.34 U	5.0	0.34	1	10/30/21 20:57	
1,2-Dibromo-3-chloropropane (DBCP)	0.45 U	5.0	0.45	1	10/30/21 20:57	
1,2-Dibromoethane	0.20 U	5.0	0.20	1	10/30/21 20:57	
1,2-Dichlorobenzene	0.20 U	5.0	0.20	1	10/30/21 20:57	
1,2-Dichloroethane	0.20 U	5.0	0.20	1	10/30/21 20:57	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	10/30/21 20:57	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	10/30/21 20:57	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	10/30/21 20:57	
1,4-Dioxane	13 U	100	13	1	10/30/21 20:57	
2-Butanone (MEK)	**3.2 J**	10	0.78	1	10/30/21 20:57	
2-Hexanone	0.20 U	10	0.20	1	10/30/21 20:57	
4-Methyl-2-pentanone	**0.36 J**	10	0.20	1	10/30/21 20:57	
Acetone	**17**	10	5.0	1	10/30/21 20:57	
Benzene	0.20 U	5.0	0.20	1	10/30/21 20:57	
Bromochloromethane	0.20 U	5.0	0.20	1	10/30/21 20:57	
Bromodichloromethane	0.20 U	5.0	0.20	1	10/30/21 20:57	
Bromoform	0.25 U	5.0	0.25	1	10/30/21 20:57	
Bromomethane	0.70 U	5.0	0.70	1	10/30/21 20:57	
Carbon Disulfide	0.42 U	10	0.42	1	10/30/21 20:57	
Carbon Tetrachloride	0.34 U	5.0	0.34	1	10/30/21 20:57	
Chlorobenzene	0.20 U	5.0	0.20	1	10/30/21 20:57	
Chloroethane	0.23 U	5.0	0.23	1	10/30/21 20:57	
Chloroform	0.24 U	5.0	0.24	1	10/30/21 20:57	
Chloromethane	0.28 U	5.0	0.28	1	10/30/21 20:57	
Cyclohexane	0.26 U	10	0.26	1	10/30/21 20:57	
Dibromochloromethane	0.20 U	5.0	0.20	1	10/30/21 20:57	
Dichlorodifluoromethane (CFC 12)	0.21 U	5.0	0.21	1	10/30/21 20:57	
Dichloromethane	0.65 U	5.0	0.65	1	10/30/21 20:57	
Ethylbenzene	0.20 U	5.0	0.20	1	10/30/21 20:57	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	10/30/21 20:57	
Methyl Acetate	**0.36 J**	10	0.33	1	10/30/21 20:57	
Methyl tert-Butyl Ether	0.20 U	5.0	0.20	1	10/30/21 20:57	
Methylcyclohexane	0.20 U	10	0.20	1	10/30/21 20:57	
Styrene	0.20 U	5.0	0.20	1	10/30/21 20:57	
Tetrachloroethene (PCE)	0.21 U	5.0	0.21	1	10/30/21 20:57	
Toluene	0.20 U	5.0	0.20	1	10/30/21 20:57	

Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R2111358
Project:	Erie Harbor/4155R-09	**Date Collected:**	10/28/21 13:15
Sample Matrix:	Water	**Date Received:**	10/28/21 15:39
Sample Name:	162-DAYMW08	**Units:**	ug/L
Lab Code:	R2111358-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	0.20 U	5.0	0.20	1	10/30/21 20:57	
Trichlorofluoromethane (CFC 11)	0.24 U	5.0	0.24	1	10/30/21 20:57	
Vinyl Chloride	0.20 U	5.0	0.20	1	10/30/21 20:57	
cis-1,2-Dichloroethene	0.23 U	5.0	0.23	1	10/30/21 20:57	
cis-1,3-Dichloropropene	0.20 U	5.0	0.20	1	10/30/21 20:57	
m,p-Xylenes	0.20 U	5.0	0.20	1	10/30/21 20:57	
o-Xylene	0.20 U	5.0	0.20	1	10/30/21 20:57	
trans-1,2-Dichloroethene	0.20 U	5.0	0.20	1	10/30/21 20:57	
trans-1,3-Dichloropropene	0.23 U	5.0	0.23	1	10/30/21 20:57	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	104	85 - 122	10/30/21 20:57	
Dibromofluoromethane	107	80 - 116	10/30/21 20:57	
Toluene-d8	112	87 - 121	10/30/21 20:57	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
000067-63-0	Isopropyl Alcohol	2.54	11.6	JN

Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R2111358
Project:	Erie Harbor/4155R-09	**Date Collected:**	10/28/21 13:28
Sample Matrix:	Water	**Date Received:**	10/28/21 15:39
Sample Name:	163-DAYMW09A	**Units:**	ug/L
Lab Code:	R2111358-004	**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)	0.20	U	5.0	0.20	1	10/30/21 20:13	
1,1,2,2-Tetrachloroethane	0.20	U	5.0	0.20	1	10/30/21 20:13	
1,1,2-Trichloroethane	0.20	U	5.0	0.20	1	10/30/21 20:13	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20	U	5.0	0.20	1	10/30/21 20:13	
1,1-Dichloroethane (1,1-DCA)	0.20	U	5.0	0.20	1	10/30/21 20:13	
1,1-Dichloroethene (1,1-DCE)	0.20	U	5.0	0.20	1	10/30/21 20:13	
1,2,3-Trichlorobenzene	0.25	U	5.0	0.25	1	10/30/21 20:13	
1,2,4-Trichlorobenzene	0.34	U	5.0	0.34	1	10/30/21 20:13	
1,2-Dibromo-3-chloropropane (DBCP)	0.45	U	5.0	0.45	1	10/30/21 20:13	
1,2-Dibromoethane	0.20	U	5.0	0.20	1	10/30/21 20:13	
1,2-Dichlorobenzene	0.20	U	5.0	0.20	1	10/30/21 20:13	
1,2-Dichloroethane	0.20	U	5.0	0.20	1	10/30/21 20:13	
1,2-Dichloropropane	0.20	U	5.0	0.20	1	10/30/21 20:13	
1,3-Dichlorobenzene	0.20	U	5.0	0.20	1	10/30/21 20:13	
1,4-Dichlorobenzene	0.20	U	5.0	0.20	1	10/30/21 20:13	
1,4-Dioxane	13	U	100	13	1	10/30/21 20:13	
2-Butanone (MEK)	**3.4**	**J**	10	0.78	1	10/30/21 20:13	
2-Hexanone	0.20	U	10	0.20	1	10/30/21 20:13	
4-Methyl-2-pentanone	**0.31**	**J**	10	0.20	1	10/30/21 20:13	
Acetone	**21**		10	5.0	1	10/30/21 20:13	
Benzene	**1.2**	**J**	5.0	0.20	1	10/30/21 20:13	
Bromochloromethane	0.20	U	5.0	0.20	1	10/30/21 20:13	
Bromodichloromethane	0.20	U	5.0	0.20	1	10/30/21 20:13	
Bromoform	0.25	U	5.0	0.25	1	10/30/21 20:13	
Bromomethane	0.70	U	5.0	0.70	1	10/30/21 20:13	
Carbon Disulfide	0.42	U	10	0.42	1	10/30/21 20:13	
Carbon Tetrachloride	0.34	U	5.0	0.34	1	10/30/21 20:13	
Chlorobenzene	0.20	U	5.0	0.20	1	10/30/21 20:13	
Chloroethane	0.23	U	5.0	0.23	1	10/30/21 20:13	
Chloroform	0.24	U	5.0	0.24	1	10/30/21 20:13	
Chloromethane	**0.31**	**J**	5.0	0.28	1	10/30/21 20:13	
Cyclohexane	**5.4**	**J**	10	0.26	1	10/30/21 20:13	
Dibromochloromethane	0.20	U	5.0	0.20	1	10/30/21 20:13	
Dichlorodifluoromethane (CFC 12)	0.21	U	5.0	0.21	1	10/30/21 20:13	
Dichloromethane	0.65	U	5.0	0.65	1	10/30/21 20:13	
Ethylbenzene	**4.5**	**J**	5.0	0.20	1	10/30/21 20:13	
Isopropylbenzene (Cumene)	**1.3**	**J**	5.0	0.20	1	10/30/21 20:13	
Methyl Acetate	0.33	U	10	0.33	1	10/30/21 20:13	
Methyl tert-Butyl Ether	0.20	U	5.0	0.20	1	10/30/21 20:13	
Methylcyclohexane	**0.30**	**J**	10	0.20	1	10/30/21 20:13	
Styrene	0.20	U	5.0	0.20	1	10/30/21 20:13	
Tetrachloroethene (PCE)	0.21	U	5.0	0.21	1	10/30/21 20:13	
Toluene	**0.92**	**J**	5.0	0.20	1	10/30/21 20:13	

Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R2111358
Project:	Erie Harbor/4155R-09	**Date Collected:**	10/28/21 13:28
Sample Matrix:	Water	**Date Received:**	10/28/21 15:39
Sample Name:	163-DAYMW09A	**Units:**	ug/L
Lab Code:	R2111358-004	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	0.20 U	5.0	0.20	1	10/30/21 20:13	
Trichlorofluoromethane (CFC 11)	0.24 U	5.0	0.24	1	10/30/21 20:13	
Vinyl Chloride	0.20 U	5.0	0.20	1	10/30/21 20:13	
cis-1,2-Dichloroethene	0.23 U	5.0	0.23	1	10/30/21 20:13	
cis-1,3-Dichloropropene	0.20 U	5.0	0.20	1	10/30/21 20:13	
m,p-Xylenes	**0.59 J**	5.0	0.20	1	10/30/21 20:13	
o-Xylene	**1.0 J**	5.0	0.20	1	10/30/21 20:13	
trans-1,2-Dichloroethene	0.20 U	5.0	0.20	1	10/30/21 20:13	
trans-1,3-Dichloropropene	0.23 U	5.0	0.23	1	10/30/21 20:13	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	85 - 122	10/30/21 20:13	
Dibromofluoromethane	104	80 - 116	10/30/21 20:13	
Toluene-d8	110	87 - 121	10/30/21 20:13	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
000611-14-3	Benzene, 1-ethyl-2-methyl-	11.41	5.6	JN
000496-11-7	Indane	12.06	8.7	JN
000275-51-4	Azulene	13.63	13.6	JN
000067-63-0	Isopropyl Alcohol	2.53	22.9	JN

Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R2111358
Project:	Erie Harbor/4155R-09	**Date Collected:**	10/28/21 13:50
Sample Matrix:	Water	**Date Received:**	10/28/21 15:39
Sample Name:	164-DAYMW-10	**Units:**	ug/L
Lab Code:	R2111358-005	**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)	0.20	U	5.0	0.20	1	10/30/21 20:35	
1,1,2,2-Tetrachloroethane	0.20	U	5.0	0.20	1	10/30/21 20:35	
1,1,2-Trichloroethane	0.20	U	5.0	0.20	1	10/30/21 20:35	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20	U	5.0	0.20	1	10/30/21 20:35	
1,1-Dichloroethane (1,1-DCA)	0.20	U	5.0	0.20	1	10/30/21 20:35	
1,1-Dichloroethene (1,1-DCE)	0.20	U	5.0	0.20	1	10/30/21 20:35	
1,2,3-Trichlorobenzene	0.25	U	5.0	0.25	1	10/30/21 20:35	
1,2,4-Trichlorobenzene	0.34	U	5.0	0.34	1	10/30/21 20:35	
1,2-Dibromo-3-chloropropane (DBCP)	0.45	U	5.0	0.45	1	10/30/21 20:35	
1,2-Dibromoethane	0.20	U	5.0	0.20	1	10/30/21 20:35	
1,2-Dichlorobenzene	0.20	U	5.0	0.20	1	10/30/21 20:35	
1,2-Dichloroethane	0.20	U	5.0	0.20	1	10/30/21 20:35	
1,2-Dichloropropane	0.20	U	5.0	0.20	1	10/30/21 20:35	
1,3-Dichlorobenzene	0.20	U	5.0	0.20	1	10/30/21 20:35	
1,4-Dichlorobenzene	0.20	U	5.0	0.20	1	10/30/21 20:35	
1,4-Dioxane	13	U	100	13	1	10/30/21 20:35	
2-Butanone (MEK)	**2.5**	**J**	10	0.78	1	10/30/21 20:35	
2-Hexanone	0.20	U	10	0.20	1	10/30/21 20:35	
4-Methyl-2-pentanone	**0.36**	**J**	10	0.20	1	10/30/21 20:35	
Acetone	**8.9**	**J**	10	5.0	1	10/30/21 20:35	
Benzene	0.20	U	5.0	0.20	1	10/30/21 20:35	
Bromochloromethane	0.20	U	5.0	0.20	1	10/30/21 20:35	
Bromodichloromethane	0.20	U	5.0	0.20	1	10/30/21 20:35	
Bromoform	0.25	U	5.0	0.25	1	10/30/21 20:35	
Bromomethane	0.70	U	5.0	0.70	1	10/30/21 20:35	
Carbon Disulfide	0.42	U	10	0.42	1	10/30/21 20:35	
Carbon Tetrachloride	0.34	U	5.0	0.34	1	10/30/21 20:35	
Chlorobenzene	0.20	U	5.0	0.20	1	10/30/21 20:35	
Chloroethane	0.23	U	5.0	0.23	1	10/30/21 20:35	
Chloroform	0.24	U	5.0	0.24	1	10/30/21 20:35	
Chloromethane	0.28	U	5.0	0.28	1	10/30/21 20:35	
Cyclohexane	0.26	U	10	0.26	1	10/30/21 20:35	
Dibromochloromethane	0.20	U	5.0	0.20	1	10/30/21 20:35	
Dichlorodifluoromethane (CFC 12)	**0.25**	**J**	5.0	0.21	1	10/30/21 20:35	
Dichloromethane	0.65	U	5.0	0.65	1	10/30/21 20:35	
Ethylbenzene	0.20	U	5.0	0.20	1	10/30/21 20:35	
Isopropylbenzene (Cumene)	0.20	U	5.0	0.20	1	10/30/21 20:35	
Methyl Acetate	0.33	U	10	0.33	1	10/30/21 20:35	
Methyl tert-Butyl Ether	0.20	U	5.0	0.20	1	10/30/21 20:35	
Methylcyclohexane	0.20	U	10	0.20	1	10/30/21 20:35	
Styrene	0.20	U	5.0	0.20	1	10/30/21 20:35	
Tetrachloroethene (PCE)	0.21	U	5.0	0.21	1	10/30/21 20:35	
Toluene	0.20	U	5.0	0.20	1	10/30/21 20:35	

Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R2111358
Project:	Erie Harbor/4155R-09	**Date Collected:**	10/28/21 13:50
Sample Matrix:	Water	**Date Received:**	10/28/21 15:39
Sample Name:	164-DAYMW-10	**Units:**	ug/L
Lab Code:	R2111358-005	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	**8.8**	5.0	0.20	1	10/30/21 20:35	
Trichlorofluoromethane (CFC 11)	0.24 U	5.0	0.24	1	10/30/21 20:35	
Vinyl Chloride	0.20 U	5.0	0.20	1	10/30/21 20:35	
cis-1,2-Dichloroethene	0.23 U	5.0	0.23	1	10/30/21 20:35	
cis-1,3-Dichloropropene	0.20 U	5.0	0.20	1	10/30/21 20:35	
m,p-Xylenes	0.20 U	5.0	0.20	1	10/30/21 20:35	
o-Xylene	0.20 U	5.0	0.20	1	10/30/21 20:35	
trans-1,2-Dichloroethene	0.20 U	5.0	0.20	1	10/30/21 20:35	
trans-1,3-Dichloropropene	0.23 U	5.0	0.23	1	10/30/21 20:35	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	103	85 - 122	10/30/21 20:35	
Dibromofluoromethane	108	80 - 116	10/30/21 20:35	
Toluene-d8	111	87 - 121	10/30/21 20:35	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	No Tentatively Identified Compounds Detected			

Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R2111358
Project:	Erie Harbor/4155R-09	**Date Collected:**	10/28/21 13:45
Sample Matrix:	Water	**Date Received:**	10/28/21 15:39
Sample Name:	165-FB102821	**Units:**	ug/L
Lab Code:	R2111358-006	**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)	0.20 U	5.0	0.20	1	10/30/21 18:46	
1,1,2,2-Tetrachloroethane	0.20 U	5.0	0.20	1	10/30/21 18:46	
1,1,2-Trichloroethane	0.20 U	5.0	0.20	1	10/30/21 18:46	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20 U	5.0	0.20	1	10/30/21 18:46	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	10/30/21 18:46	
1,1-Dichloroethene (1,1-DCE)	0.20 U	5.0	0.20	1	10/30/21 18:46	
1,2,3-Trichlorobenzene	0.25 U	5.0	0.25	1	10/30/21 18:46	
1,2,4-Trichlorobenzene	0.34 U	5.0	0.34	1	10/30/21 18:46	
1,2-Dibromo-3-chloropropane (DBCP)	0.45 U	5.0	0.45	1	10/30/21 18:46	
1,2-Dibromoethane	0.20 U	5.0	0.20	1	10/30/21 18:46	
1,2-Dichlorobenzene	0.20 U	5.0	0.20	1	10/30/21 18:46	
1,2-Dichloroethane	0.20 U	5.0	0.20	1	10/30/21 18:46	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	10/30/21 18:46	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	10/30/21 18:46	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	10/30/21 18:46	
1,4-Dioxane	13 U	100	13	1	10/30/21 18:46	
2-Butanone (MEK)	**2.7 J**	10	0.78	1	10/30/21 18:46	
2-Hexanone	0.20 U	10	0.20	1	10/30/21 18:46	
4-Methyl-2-pentanone	**0.34 J**	10	0.20	1	10/30/21 18:46	
Acetone	**22**	10	5.0	1	10/30/21 18:46	
Benzene	0.20 U	5.0	0.20	1	10/30/21 18:46	
Bromochloromethane	0.20 U	5.0	0.20	1	10/30/21 18:46	
Bromodichloromethane	0.20 U	5.0	0.20	1	10/30/21 18:46	
Bromoform	0.25 U	5.0	0.25	1	10/30/21 18:46	
Bromomethane	0.70 U	5.0	0.70	1	10/30/21 18:46	
Carbon Disulfide	0.42 U	10	0.42	1	10/30/21 18:46	
Carbon Tetrachloride	0.34 U	5.0	0.34	1	10/30/21 18:46	
Chlorobenzene	0.20 U	5.0	0.20	1	10/30/21 18:46	
Chloroethane	0.23 U	5.0	0.23	1	10/30/21 18:46	
Chloroform	0.24 U	5.0	0.24	1	10/30/21 18:46	
Chloromethane	0.28 U	5.0	0.28	1	10/30/21 18:46	
Cyclohexane	0.26 U	10	0.26	1	10/30/21 18:46	
Dibromochloromethane	0.20 U	5.0	0.20	1	10/30/21 18:46	
Dichlorodifluoromethane (CFC 12)	0.21 U	5.0	0.21	1	10/30/21 18:46	
Dichloromethane	0.65 U	5.0	0.65	1	10/30/21 18:46	
Ethylbenzene	0.20 U	5.0	0.20	1	10/30/21 18:46	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	10/30/21 18:46	
Methyl Acetate	**0.35 J**	10	0.33	1	10/30/21 18:46	
Methyl tert-Butyl Ether	0.20 U	5.0	0.20	1	10/30/21 18:46	
Methylcyclohexane	0.20 U	10	0.20	1	10/30/21 18:46	
Styrene	0.20 U	5.0	0.20	1	10/30/21 18:46	
Tetrachloroethene (PCE)	0.21 U	5.0	0.21	1	10/30/21 18:46	
Toluene	**0.60 J**	5.0	0.20	1	10/30/21 18:46	

Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R2111358
Project:	Erie Harbor/4155R-09	**Date Collected:**	10/28/21 13:45
Sample Matrix:	Water	**Date Received:**	10/28/21 15:39
Sample Name:	165-FB102821	**Units:**	ug/L
Lab Code:	R2111358-006	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	0.20 U	5.0	0.20	1	10/30/21 18:46	
Trichlorofluoromethane (CFC 11)	0.24 U	5.0	0.24	1	10/30/21 18:46	
Vinyl Chloride	0.20 U	5.0	0.20	1	10/30/21 18:46	
cis-1,2-Dichloroethene	0.23 U	5.0	0.23	1	10/30/21 18:46	
cis-1,3-Dichloropropene	0.20 U	5.0	0.20	1	10/30/21 18:46	
m,p-Xylenes	0.20 U	5.0	0.20	1	10/30/21 18:46	
o-Xylene	0.20 U	5.0	0.20	1	10/30/21 18:46	
trans-1,2-Dichloroethene	0.20 U	5.0	0.20	1	10/30/21 18:46	
trans-1,3-Dichloropropene	0.23 U	5.0	0.23	1	10/30/21 18:46	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	104	85 - 122	10/30/21 18:46	
Dibromofluoromethane	107	80 - 116	10/30/21 18:46	
Toluene-d8	113	87 - 121	10/30/21 18:46	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	No Tentatively Identified Compounds Detected			

Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R2111358
Project:	Erie Harbor/4155R-09	**Date Collected:**	10/28/21
Sample Matrix:	Water	**Date Received:**	10/28/21 15:39
Sample Name:	166-TB102821	**Units:**	ug/L
Lab Code:	R2111358-007	**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)	0.20 U	5.0	0.20	1	10/30/21 19:08	
1,1,2,2-Tetrachloroethane	0.20 U	5.0	0.20	1	10/30/21 19:08	
1,1,2-Trichloroethane	0.20 U	5.0	0.20	1	10/30/21 19:08	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20 U	5.0	0.20	1	10/30/21 19:08	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	10/30/21 19:08	
1,1-Dichloroethene (1,1-DCE)	0.20 U	5.0	0.20	1	10/30/21 19:08	
1,2,3-Trichlorobenzene	0.25 U	5.0	0.25	1	10/30/21 19:08	
1,2,4-Trichlorobenzene	0.34 U	5.0	0.34	1	10/30/21 19:08	
1,2-Dibromo-3-chloropropane (DBCP)	0.45 U	5.0	0.45	1	10/30/21 19:08	
1,2-Dibromoethane	0.20 U	5.0	0.20	1	10/30/21 19:08	
1,2-Dichlorobenzene	0.20 U	5.0	0.20	1	10/30/21 19:08	
1,2-Dichloroethane	0.20 U	5.0	0.20	1	10/30/21 19:08	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	10/30/21 19:08	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	10/30/21 19:08	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	10/30/21 19:08	
1,4-Dioxane	13 U	100	13	1	10/30/21 19:08	
2-Butanone (MEK)	0.78 U	10	0.78	1	10/30/21 19:08	
2-Hexanone	0.20 U	10	0.20	1	10/30/21 19:08	
4-Methyl-2-pentanone	0.20 U	10	0.20	1	10/30/21 19:08	
Acetone	5.0 U	10	5.0	1	10/30/21 19:08	
Benzene	0.20 U	5.0	0.20	1	10/30/21 19:08	
Bromochloromethane	0.20 U	5.0	0.20	1	10/30/21 19:08	
Bromodichloromethane	0.20 U	5.0	0.20	1	10/30/21 19:08	
Bromoform	0.25 U	5.0	0.25	1	10/30/21 19:08	
Bromomethane	0.70 U	5.0	0.70	1	10/30/21 19:08	
Carbon Disulfide	0.42 U	10	0.42	1	10/30/21 19:08	
Carbon Tetrachloride	0.34 U	5.0	0.34	1	10/30/21 19:08	
Chlorobenzene	0.20 U	5.0	0.20	1	10/30/21 19:08	
Chloroethane	0.23 U	5.0	0.23	1	10/30/21 19:08	
Chloroform	0.24 U	5.0	0.24	1	10/30/21 19:08	
Chloromethane	0.28 U	5.0	0.28	1	10/30/21 19:08	
Cyclohexane	0.26 U	10	0.26	1	10/30/21 19:08	
Dibromochloromethane	0.20 U	5.0	0.20	1	10/30/21 19:08	
Dichlorodifluoromethane (CFC 12)	0.21 U	5.0	0.21	1	10/30/21 19:08	
Dichloromethane	0.65 U	5.0	0.65	1	10/30/21 19:08	
Ethylbenzene	0.20 U	5.0	0.20	1	10/30/21 19:08	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	10/30/21 19:08	
Methyl Acetate	0.33 U	10	0.33	1	10/30/21 19:08	
Methyl tert-Butyl Ether	0.20 U	5.0	0.20	1	10/30/21 19:08	
Methylcyclohexane	0.20 U	10	0.20	1	10/30/21 19:08	
Styrene	0.20 U	5.0	0.20	1	10/30/21 19:08	
Tetrachloroethene (PCE)	0.21 U	5.0	0.21	1	10/30/21 19:08	
Toluene	0.20 U	5.0	0.20	1	10/30/21 19:08	

Analytical Report

Client:	Day Environmental, Inc.	**Service Request:**	R2111358
Project:	Erie Harbor/4155R-09	**Date Collected:**	10/28/21
Sample Matrix:	Water	**Date Received:**	10/28/21 15:39
Sample Name:	166-TB102821	**Units:**	ug/L
Lab Code:	R2111358-007	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	0.20 U	5.0	0.20	1	10/30/21 19:08	
Trichlorofluoromethane (CFC 11)	0.24 U	5.0	0.24	1	10/30/21 19:08	
Vinyl Chloride	0.20 U	5.0	0.20	1	10/30/21 19:08	
cis-1,2-Dichloroethene	0.23 U	5.0	0.23	1	10/30/21 19:08	
cis-1,3-Dichloropropene	0.20 U	5.0	0.20	1	10/30/21 19:08	
m,p-Xylenes	0.20 U	5.0	0.20	1	10/30/21 19:08	
o-Xylene	0.20 U	5.0	0.20	1	10/30/21 19:08	
trans-1,2-Dichloroethene	0.20 U	5.0	0.20	1	10/30/21 19:08	
trans-1,3-Dichloropropene	0.23 U	5.0	0.23	1	10/30/21 19:08	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	103	85 - 122	10/30/21 19:08	
Dibromofluoromethane	107	80 - 116	10/30/21 19:08	
Toluene-d8	112	87 - 121	10/30/21 19:08	

Tentatively Identified Compounds

CAS#	Compound Identification	RT	Result ug/L	Q
	No Tentatively Identified Compounds Detected			

Client: Day Environmental, Inc. **Service Request:** R2111358
Project: Erie Harbor **Calibration Date:** 9/2/2021

Initial Calibration Summary
Volatile Organic Compounds by GC/MS

Calibration ID: RC2100117 **Signal ID:** 1
Instrument ID: R-MS-12

Analyte Name	Compound Type	Calibration Evaluation				Calibration Evaluation	
		Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
1,1,1-Trichloroethane (TCA)	TRG	Average RF	% RSD	4.0	≤20	0.8006	0.100
1,1,2,2-Tetrachloroethane	TRG	Average RF	% RSD	6.5	≤20	1.052	0.300
1,1,2-Trichloro-1,2,2-trifluoroethane	TRG	Average RF	% RSD	7.9	≤20	0.4749	0.100
1,1,2-Trichloroethane	TRG	Average RF	% RSD	9.2	≤20	0.3391	0.100
1,1-Dichloroethane (1,1-DCA)	TRG	Average RF	% RSD	6.2	≤20	1.001	0.200
1,1-Dichloroethene (1,1-DCE)	TRG	Average RF	% RSD	6.7	≤20	0.4863	0.100
1,2,3-Trichlorobenzene	TRG	Average RF	% RSD	5.2	≤20	1.227	
1,2,4-Trichlorobenzene	TRG	Average RF	% RSD	4.3	≤20	1.226	0.200
1,2-Dibromo-3-chloropropane (DBCP)	TRG	Average RF	% RSD	14.9	≤20	0.2286	0.050
1,2-Dibromoethane	TRG	Average RF	% RSD	3.4	≤20	0.3684	0.100
1,2-Dichlorobenzene	TRG	Average RF	% RSD	8.0	≤20	1.7	0.400
1,2-Dichloroethane	TRG	Average RF	% RSD	6.9	≤20	0.5325	0.100
1,2-Dichloropropane	TRG	Average RF	% RSD	7.9	≤20	0.3677	0.100
1,3-Dichlorobenzene	TRG	Average RF	% RSD	6.2	≤20	1.707	0.600
1,4-Dichlorobenzene	TRG	Average RF	% RSD	9.9	≤20	1.838	0.500
1,4-Dioxane	TRG	Average RF	% RSD	9.8	≤20	0.008057	
2-Butanone (MEK)	TRG	Average RF	% RSD	13.1	≤20	0.4319	0.05
2-Hexanone	TRG	Average RF	% RSD	5.9	≤20	0.3937	0.05
4-Bromofluorobenzene	SURR	Average RF	% RSD	4.8	≤20	0.5079	
4-Methyl-2-pentanone	TRG	Average RF	% RSD	4.7	≤20	0.49	0.05
Acetone	TRG	Quadratic	COD	0.9984	≥0.99	0.2959	0.05
Benzene	TRG	Average RF	% RSD	6.0	≤20	1.418	0.500
Bromochloromethane	TRG	Average RF	% RSD	7.9	≤20	0.3498	
Bromodichloromethane	TRG	Average RF	% RSD	5.2	≤20	0.445	0.200
Bromoform	TRG	Average RF	% RSD	14.9	≤20	0.3884	0.100
Bromomethane	TRG	Average RF	% RSD	52.9	≤20	0.4413	0.100
Carbon Disulfide	TRG	Average RF	% RSD	4.2	≤20	1.177	0.100
Carbon Tetrachloride	TRG	Average RF	% RSD	7.0	≤20	0.3851	0.05
Chlorobenzene	TRG	Average RF	% RSD	5.8	≤20	1.064	0.500
Chloroethane	TRG	Average RF	% RSD	13.9	≤20	0.444	0.100
Chloroform	TRG	Linear	R2	0.9964	≥0.99	1.072	0.200
Chloromethane	TRG	Average RF	% RSD	9.2	≤20	0.5808	0.100
Cyclohexane	TRG	Average RF	% RSD	9.8	≤20	0.3309	0.100
Dibromochloromethane	TRG	Average RF	% RSD	9.2	≤20	0.3031	0.100

Client: Day Environmental, Inc. **Service Request:** R2111358
Project: Erie Harbor **Calibration Date:** 9/2/2021

Initial Calibration Verification Summary
Volatile Organic Compounds by GC/MS

Calibration ID: RC2100117 **Signal ID:** 1
Instrument ID: R-MS-12

#	Lab Code	Sample Name	File Location	Acquisition Date
10	RC2100117-10	ICV-50	I:\ACQUDATA\msvoa12\Data\090221\K6368.D	09/02/2021 16:40

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
1,1,1-Trichloroethane (TCA)	50.0	49.9	8.006E-1	7.992E-1	-0.174	±30	Average RF
1,1,2,2-Tetrachloroethane	50.0	47.9	1.052E0	1.007E0	-4.298	±30	Average RF
1,1,2-Trichloroethane	50.0	46.0	3.391E-1	3.121E-1	-7.983	±30	Average RF
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	49.1	4.749E-1	4.66E-1	-1.875	±30	Average RF
1,1-Dichloroethane (1,1-DCA)	50.0	49.1	1.001E0	9.833E-1	-1.732	±30	Average RF
1,1-Dichloroethene (1,1-DCE)	50.0	47.8	4.863E-1	4.654E-1	-4.304	±30	Average RF
1,2,3-Trichlorobenzene	50.0	48.3	1.227E0	1.187E0	-3.307	±30	Average RF
1,2,4-Trichlorobenzene	50.0	49.9	1.226E0	1.223E0	-0.267	±30	Average RF
1,2-Dibromo-3-chloropropane (DBCP)	50.0	49.0	2.286E-1	2.241E-1	-2.000	±30	Average RF
1,2-Dibromoethane	50.0	45.9	3.684E-1	3.38E-1	-8.246	±30	Average RF
1,2-Dichlorobenzene	50.0	46.7	1.7E0	1.589E0	-6.550	±30	Average RF
1,2-Dichloroethane	50.0	45.3	5.325E-1	4.82E-1	-9.482	±30	Average RF
1,2-Dichloropropane	50.0	47.5	3.677E-1	3.492E-1	-5.025	±30	Average RF
1,3-Dichlorobenzene	50.0	46.7	1.707E0	1.596E0	-6.535	±30	Average RF
1,4-Dichlorobenzene	50.0	44.4	1.838E0	1.633E0	-11.129	±30	Average RF
1,4-Dioxane	1000	832	8.057E-3	6.702E-3	-16.817	±30	Average RF
2-Butanone (MEK)	50.0	43.8	4.319E-1	3.784E-1	-12.371	±30	Average RF
2-Hexanone	50.0	45.5	3.937E-1	3.58E-1	-9.075	±30	Average RF
4-Methyl-2-pentanone	50.0	46.8	4.9E-1	4.59E-1	-6.329	±30	Average RF
Acetone	50.0	43.6	2.959E-1	2.521E-1	-12.716	±30	Quadratic
Benzene	50.0	46.0	1.418E0	1.306E0	-7.905	±30	Average RF
Bromochloromethane	50.0	47.6	3.498E-1	3.328E-1	-4.865	±30	Average RF
Bromodichloromethane	50.0	46.8	4.45E-1	4.167E-1	-6.360	±30	Average RF
Bromoform	50.0	49.7	3.884E-1	3.858E-1	-0.657	±30	Average RF
Bromomethane	50.0	49.4	4.413E-1	4.36E-1	-1.196	±30	Average RF
Carbon Disulfide	50.0	56.4	1.177E0	1.328E0	12.83	±30	Average RF
Carbon Tetrachloride	50.0	47.7	3.851E-1	3.678E-1	-4.507	±30	Average RF
Chlorobenzene	50.0	45.1	1.064E0	9.596E-1	-9.817	±30	Average RF
Chloroethane	50.0	52.6	4.44E-1	4.673E-1	5.25	±30	Average RF
Chloroform	50.0	48.2	1.072E0	9.379E-1	-3.685	±30	Linear
Chloromethane	50.0	54.1	5.808E-1	6.279E-1	8.12	±30	Average RF
Cyclohexane	50.0	45.2	3.309E-1	2.991E-1	-9.586	±30	Average RF
Dibromochloromethane	50.0	48.0	3.031E-1	2.913E-1	-3.901	±30	Average RF

Client: Day Environmental, Inc. **Service Request:** R2111358
Project: Erie Harbor/4155R-09 **Date Analyzed:** 10/30/21 11:53

Continuing Calibration Verification (CCV) Summary
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C **Calibration Date:** 9/2/2021
File ID: I:\ACQUDATA\msvoa12\Data\103021\K8372.D\ **Calibration ID:** RC2100117
Signal ID: 1 **Analysis Lot:** 744443
Units: ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
1,1,1-Trichloroethane (TCA)	50.0	48.3	0.8006	0.7736	-3.4	NA	±20	Average RF
1,1,2,2-Tetrachloroethane	50.0	53.9	1.0518	1.133	7.7	NA	±20	Average RF
1,1,2-Trichloroethane	50.0	49.7	0.3391	0.3371	-0.6	NA	±20	Average RF
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	50.9	0.4749	0.4839	1.9	NA	±20	Average RF
1,1-Dichloroethane (1,1-DCA)	50.0	50.2	1.0007	1.0037	0.3	NA	±20	Average RF
1,1-Dichloroethene (1,1-DCE)	50.0	51.1	0.4863	0.4969	2.2	NA	±20	Average RF
1,2,3-Trichlorobenzene	50.0	53.8	1.2274	1.3209	7.6	NA	±20	Average RF
1,2,4-Trichlorobenzene	50.0	53.6	1.2258	1.3151	7.3	NA	±20	Average RF
1,2-Dibromo-3-chloropropane (DBCP)	50.0	57.4	0.2286	0.2624	14.8	NA	±20	Average RF
1,2-Dibromoethane	50.0	52.4	0.3684	0.3857	4.7	NA	±20	Average RF
1,2-Dichlorobenzene	50.0	51.4	1.7002	1.7463	2.7	NA	±20	Average RF
1,2-Dichloroethane	50.0	45.6	0.5325	0.4855	-8.8	NA	±20	Average RF
1,2-Dichloropropane	50.0	50.5	0.3677	0.3714	1.0	NA	±20	Average RF
1,3-Dichlorobenzene	50.0	51.2	1.7073	1.7483	2.4	NA	±20	Average RF
1,4-Dichlorobenzene	50.0	49.4	1.8379	1.8162	-1.2	NA	±20	Average RF
1,4-Dioxane	1000	965	0.0081	0.0078	-3.5	NA	±20	Average RF
2-Butanone (MEK)	50.0	48.3	0.4319	0.4175	-3.3	NA	±20	Average RF
2-Hexanone	50.0	51.7	0.3937	0.4069	3.4	NA	±20	Average RF
4-Methyl-2-pentanone	50.0	48.5	0.49	0.4756	-3.0	NA	±20	Average RF
Acetone	50.0	51.0	0.2959	0.2909	NA	1.9	±20	Quadratic
Benzene	50.0	51.3	1.4176	1.4543	2.6	NA	±20	Average RF
Bromochloromethane	50.0	52.1	0.3498	0.3648	4.3	NA	±20	Average RF
Bromodichloromethane	50.0	47.7	0.445	0.4248	-4.5	NA	±20	Average RF
Bromoform	50.0	55.8	0.3884	0.4332	11.5	NA	±20	Average RF
Bromomethane	50.0	55.0	0.4413	0.4855	10.0	NA	±20	Average RF
Carbon Disulfide	50.0	61.9	1.1766	1.4556	23.7*	NA	±20	Average RF
Carbon Tetrachloride	50.0	45.9	0.3851	0.3537	-8.2	NA	±20	Average RF
Chlorobenzene	50.0	52.0	1.064	1.1065	4.0	NA	±20	Average RF
Chloroethane	50.0	47.8	0.444	0.4245	-4.4	NA	±20	Average RF
Chloroform	50.0	49.5	1.0722	0.9634	NA	-1.0	±20	Linear
Chloromethane	50.0	53.2	0.5808	0.6176	6.3	NA	±20	Average RF
Cyclohexane	50.0	47.6	0.3309	0.3148	-4.9	NA	±20	Average RF
Dibromochloromethane	50.0	53.3	0.3031	0.3232	6.6	NA	±20	Average RF
Dichlorodifluoromethane (CFC 12)	50.0	52.9	0.6748	0.714	5.8	NA	±20	Average RF
Dichloromethane	50.0	49.6	0.58	0.5753	-0.8	NA	±20	Average RF
Ethylbenzene	50.0	52.0	0.5863	0.6101	4.1	NA	±20	Average RF
Isopropylbenzene (Cumene)	50.0	52.3	3.3914	3.5466	4.6	NA	±20	Average RF
Methyl Acetate	50.0	51.8	0.6375	0.6607	3.6	NA	±20	Average RF
Methyl tert-Butyl Ether	50.0	52.7	1.9545	2.0593	5.4	NA	±20	Average RF

Attachment B

Site-Wide Inspection Form

ANNUAL SITE-WIDE INSPECTION FORM
ERIE HARBOR SITE
205-405 MT. HOPE AVENUE
ROCHESTER, NEW YORK
NYSDEC SITE NUMBER: C828125

Date of Inspection: October 14, 2021

Inspected By: Jeff Danzinger

(Include: name, company, and position of person(s) conducting inspection)

Observed Use of Site: Residential - Unchanged

SSDS in Building #3:

Integrity of Observed Aboveground Components: good

Results of testing alarm by temporary disconnection of tubing: Alarm sounds

Vacuum reading at temporary disconnected alarm tubing: -0.389" H_2O

Vacuum reading at #602 SSDS Monitoring Point: -0.100" H_2O

Vacuum reading at #604 SSDS Monitoring Point: -0.070" H_2O

Vacuum reading at #607 SSDS Monitoring Point: -0.448" H_2O

Vacuum reading at #610 SSDS Monitoring Point: -0393" H_2O

Discuss any corrective actions needed or taken: water noted inside #602 SSDS Monitoring Point line

→ None needed

SSDS in Building #4:

Integrity of Observed Aboveground Components: good

Results of testing alarm by temporary disconnection of tubing: Alarm Sounds

Vacuum reading at temporary disconnected alarm tubing: -0.604" H_2O

Vacuum reading at #502 SSDS Monitoring Point: -0.580" H_2O

Vacuum reading at #505 SSDS Monitoring Point: -0.590" H_2O

Discuss any corrective actions needed or taken: None needed

Monitoring Wells:

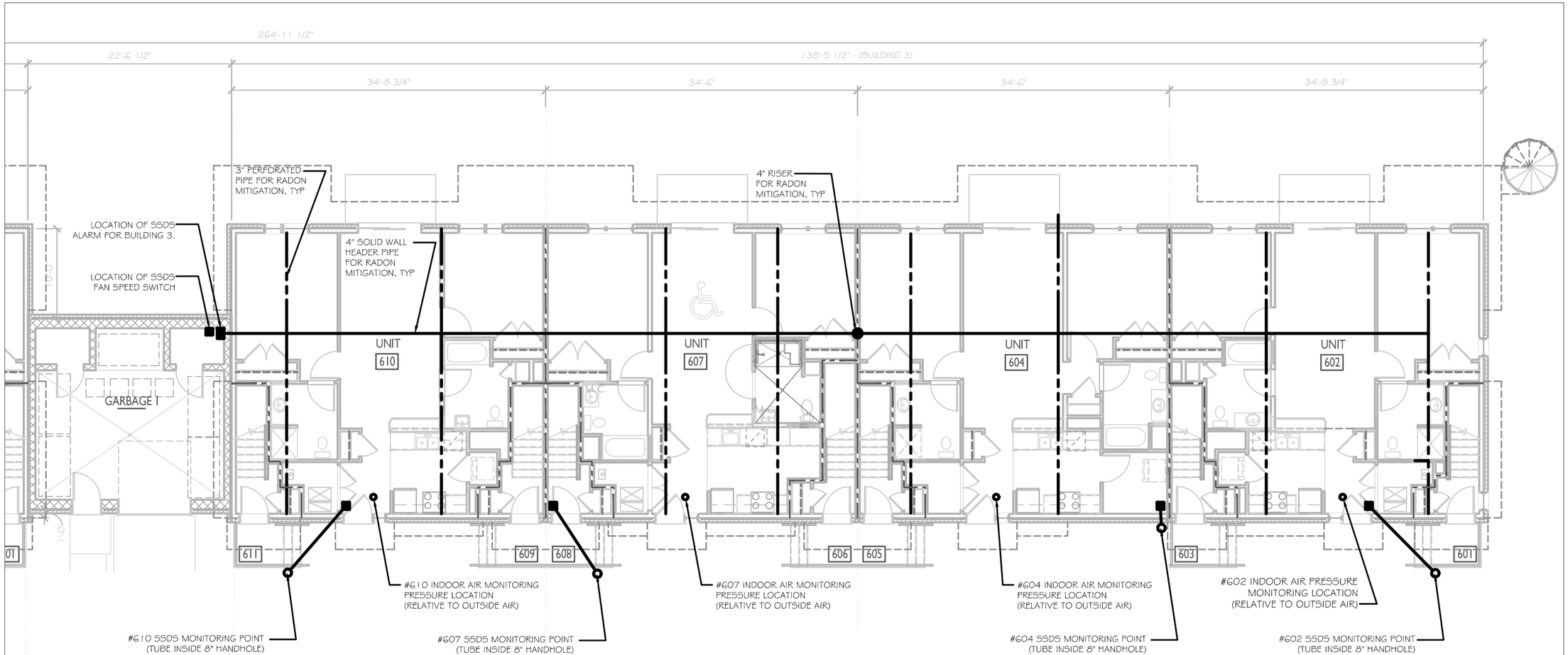
Evidence of damage or blockage of monitoring wells: ☐ Yes ☒ No

Describe damage or blockage if observed: N/A

Discuss any corrective actions needed or taken: None

Additional Comments: None

Signatures:



BUILDING #3 SSDS COMPONENTS

Not To Scale

DESIGNED BY: BFK	DATE: 1-2018		
DRAWN BY: RJM	DATE DRAWN: 1-10-2018		
SCALE: Not To Scale	DATE ISSUED: 1-11-2018		

day
DAY ENVIRONMENTAL, INC.
ENVIRONMENTAL CONSULTANTS
ROCHESTER, NEW YORK 14606
NEW YORK, NEW YORK 10016-0710

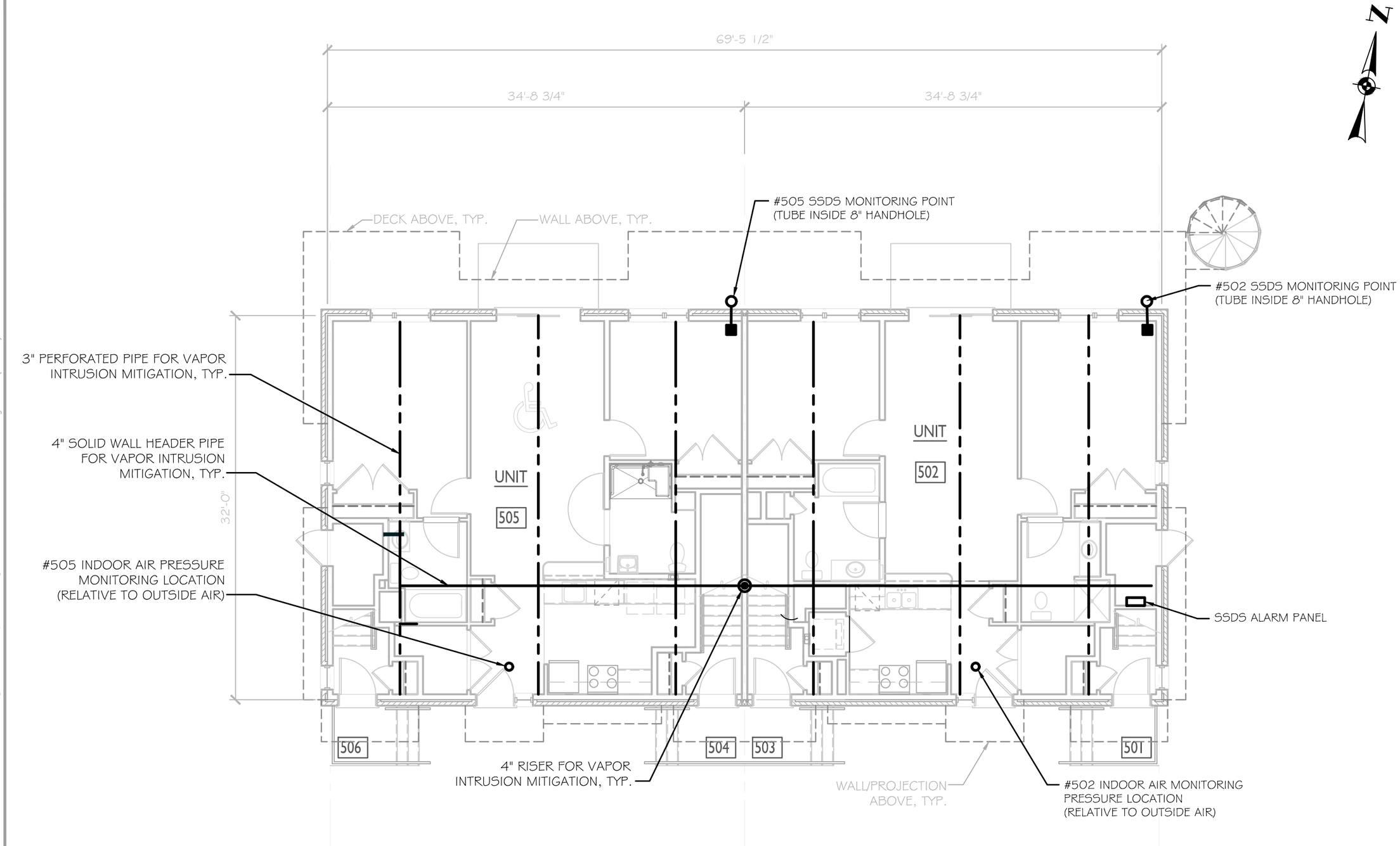
PROJECT TITLE
205-405 MT. HOPE AVENUE
ROCHESTER, NEW YORK

BROWNFIELD CLEANUP PROGRAM

DRAWING TITLE
Building #3 SSDS Components

PROJECT NO.
4155R-09

FIGURE 15



BUILDING #4
SSDS COMPONENTS
1/8" = 1'-0"

DESIGNED BY: BFK
DATE: 1-2018
DRAWN BY: RJM
DATE DRAWN: 1-10-2018
SCALE: As Noted
DATE ISSUED: 1-10-2018

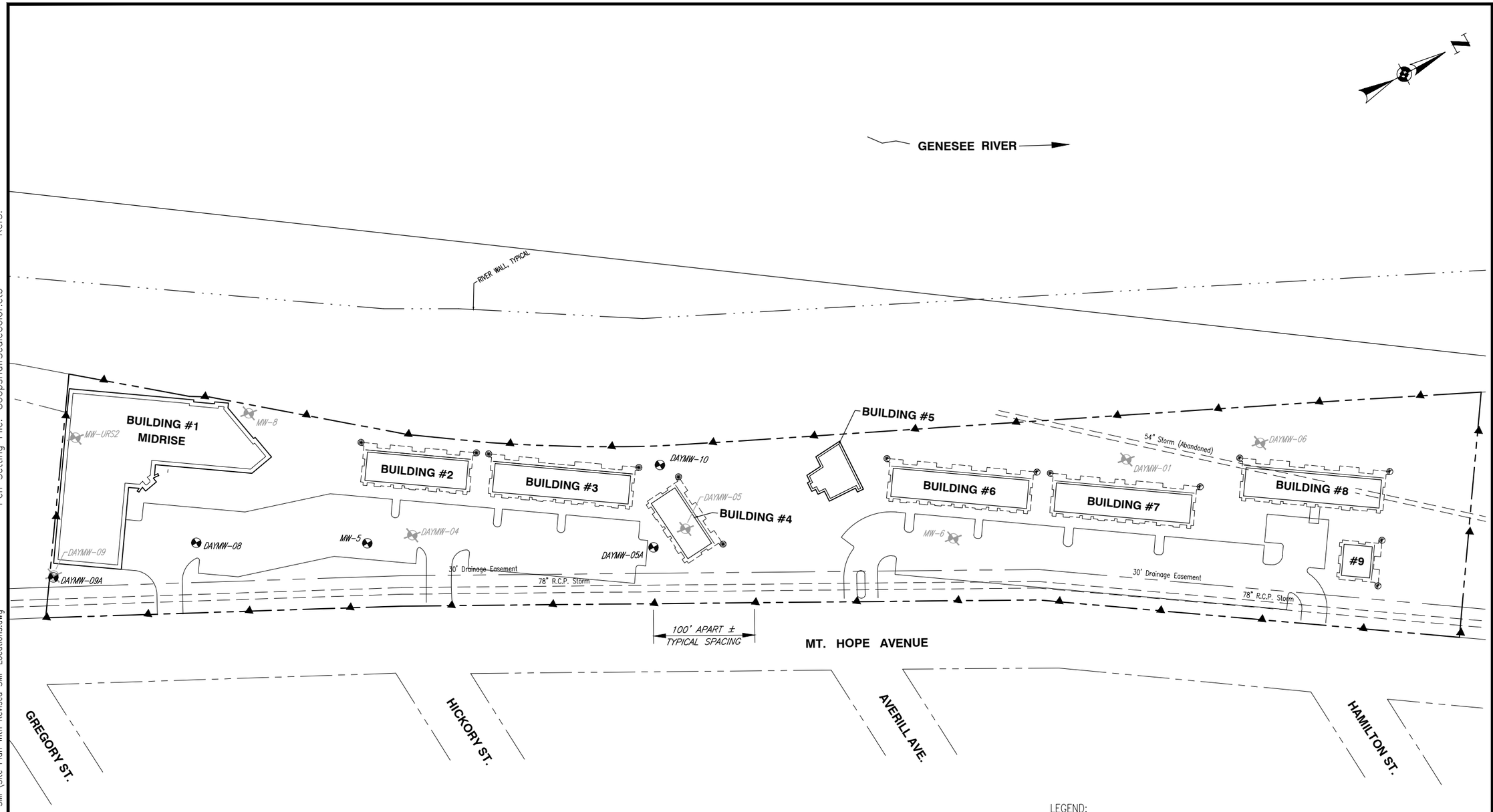
day
DAY ENVIRONMENTAL, INC.
ENVIRONMENTAL CONSULTANTS
ROCHESTER, NEW YORK 14606
NEW YORK, NEW YORK 10016-0710

PROJECT TITLE
205-405 MT. HOPE AVENUE
ROCHESTER, NEW YORK
BROWNFIELD CLEANUP PROGRAM

DRAWING TITLE
Building #4 SSDS Components

PROJECT NO.
4155R-09

FIGURE 16



LEGEND:

MW-5	Existing Monitoring Well Location
DAYMW-04	Former Monitoring Well Location
▲	Tentative Community Air Monitoring Plan (CAMP) Perimeter Monitoring Station. Actual locations may vary depending on field conditions encountered.

SITE PLAN
1" = 100'

0' 100' 200' 300'

FIELD VERIFIED BY	JAD
DATE	1-2018
DRAWN BY	RJM
DATE DRAWN	1-10-2018
SCALE	As Noted
DATE ISSUED	1-11-2018

day
DAY ENVIRONMENTAL, INC.
ENVIRONMENTAL CONSULTANTS
ROCHESTER, NEW YORK 14606
NEW YORK, NEW YORK 10170

PROJECT TITLE
205-405 MT. HOPE AVENUE
ROCHESTER, NEW YORK
BROWNFIELD CLEANUP PROGRAM

DRAWING TITLE
Well Location Plan and Tentative CAMP Perimeter Monitoring Stations

PROJECT NO.
4155R-09

FIGURE 17

Ref1:
Ref2:
Ref3:

Xerox432AnsiB-2; 11 x 17
Layout Name: Layout1
Pen Setting File: 800psHalfScaleColor.ctb

Time Plotted: Thursday, January 11, 2018 7:31:27 AM
File Name: P:\Drawings\Conifer\4155R-09 Revised SMP\Site Plan with Revised SMP Locations.dwg

Attachment C

Institutional and Engineering Controls Certification Form

Enclosure 2

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form

Site Details **Box 1**

Site No. **C828125**

Site Name River Park Commons - Townhouses

Site Address: 205-405 Mt. Hope Avenue Zip Code: 14620
City/Town: Rochester
County: Monroe
Site Acreage: 6.0

Reporting Period: **November 1, 2020 through December 31, 2021**

	YES	NO
1. Is the information above correct?	■	□
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	□	■
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	□	■
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	□	■
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5. Is the site currently undergoing development?	□	■

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Restricted-Residential, Commercial, and Industrial	■	□
7. Are all ICs/ECs in place and functioning as designed?	■	□

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

Box 2A

	YES	NO
8. Has any new information revealed that assumptions made in the Qualitative Exposure Assessment regarding offsite contamination are no longer valid?	☐	■

If you answered YES to question 8, include documentation or evidence that documentation has been previously submitted with this certification form.

9. Are the assumptions in the Qualitative Exposure Assessment still valid? (The Qualitative Exposure Assessment must be certified every five years)	■	☐

If you answered NO to question 9, the Periodic Review Report must include an updated Qualitative Exposure Assessment based on the new assumptions.

SITE NO. C828125 **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
121.55-01-059.001	Erie Harbor, LLC	Ground Water Use Restriction IC/EC Plan Landuse Restriction Monitoring Plan O&M Plan Site Management Plan

Box 4

Description of Engineering Controls

Parcel	Engineering Control
121.55-01-059.001	Vapor Mitigation

Engineering Control Details for Site No. C828125

Parcel: 121.55-01-059.001

A restricted residental land use restriction is in place.
A groundwater use restriction is in place.
Excavation must be done under the SMP.
The potential for soil vapor intrusion must be evaluated and mitigated if required in "EC area."
Vegetable gardens and farming are prohibited without Department approval.
Periodic certification is required.

Box 5

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

   a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

   b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and compete.

YES	NO
■	□

2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

   (a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

   (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

   (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

   (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

   (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES	NO
■	□

IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS
SITE NO. C828125

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Robert Lampher at 1000 University Ave, Suite 500, Rochester, NY 14607
print name print business address

am certifying as Owner (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

Signature of Owner, Remedial Party, or Designated Representative Rendering Certification

Date 1/27/2022

IC/EC CERTIFICATIONS

Box 7

Professional Engineer Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Timothy K. Hampton (print name) at 1563 Lyell Avenue, Rochester, NY 14606 (print business address),

am certifying as a Professional Engineer for the Owner (Owner or Remedial Party)

Signature of Professional Engineer, for the Owner or Remedial Party, Rendering Certification

Stamp (Required for PE)

1/20/2022

Date