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January 7, 2020

Transmitted via email: tracy.smith@dec.ny.gov

Mr. Tracy Smith
NYS Department of Environmental Conservation
Division of Environmental Remediation
Bureau of Hazardous Site Control
625 Broadway, 11th Floor, Cell 75
Albany, New York 12233

Re: Five-Quarter Post-Remedial Groundwater Monitoring Report and Observations
July 2020 Sampling Event
Sub-Slab Depressurization System Update Interim Remedial Mitigation System
Former Carrier Carlyle Compressor Site — Syracuse, New York
NYSDEC Site Code — 734068

Dear Mr. Smith:

Please find enclosed a summary report that includes:

- Groundwater monitoring laboratory analytical results and data from the July 2020 post-remediation groundwater monitoring event
- Sub-slab depressurization system update

Please do not hesitate to call me at 615-255-9300 if you have any questions or need further information.

Sincerely,

EnSafe Inc.

By: May Heflin, PE

Enclosure

cc: Don Sorbello, Carrier Corporation

FIVE-QUARTER POST-REMEDIAL GROUNDWATER MONITORING REPORT AND OBSERVATIONS

FORMER CARRIER CARLYLE COMPRESSOR SITE
SYRACUSE, NEW YORK

EnSafe Project Number:
0888826446

Prepared for:



Carrier Corporation
13995 Pasteur Boulevard
Palm Beach Gardens, Florida 33418

January 2021

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1.0 INTRODUCTION

Presented herein are the findings of the post-remedial monitoring activities conducted as part of the Five-Quarter Post-Remedial Groundwater Monitoring events performed at the former Carrier Carlyle Compressor Site, Syracuse, New York (Site, see Figure 1). Post-remedial activities included groundwater sampling performed on July 14 and 15, 2020, and observations of the Sub-Slab Depressurization System (SSDS) performed on October 10, 2019 and February 10, 2020.

1.1 Background

The site is occupied by a 225,000-square-foot manufacturing building that was constructed in the late 1960s. Manufacturing operations ended in 1991 and the property was sold to Coolidge Ventures, LLC in 1999. The facility is currently used as a multi-tenant, light industrial, and warehouse operation. The following is an outline the previous site investigations and remedial measures which have been conducted at the facility since the mid-1990s:

- Subsurface investigations were conducted at the facility in the mid-1990s. During the course of these investigations, 20 groundwater monitoring wells, observation wells, and piezometers were installed on the property. The conclusion of these investigations was that volatile organic compounds (VOCs) were present in groundwater and surface water at the southwestern portion of the facility. Shallow groundwater monitoring wells were installed in the southwestern area of to monitor the concentrations and extent of the VOCs.

- Interim remedial measures (IRMs), including groundwater and soil vapor extraction and a sediment removal action, were completed onsite between 1998 and 1999 to address chlorinated organic solvent contamination.

- Following implementation of the IRMs, the New York State Department of Environmental Conservation (NYSDEC) issued a Record of Decision (March 1999), in which No Further Action (with the addition of groundwater use restrictions) was selected as the remedy for the Site. The remedy consisted of the continued operation, maintenance, and monitoring of the groundwater collection and treatment and soil vapor extraction systems.

- In NYSDEC correspondence dated March 2, 2004, the NYSDEC agreed to a program to finalize monitoring requirements. The program included groundwater and surface water monitoring using a reduced number of monitoring points at a frequency of once every five quarters.

- In correspondence dated December 1, 2006, NYSDEC requested that the soil vapor intrusion pathway at the facility be evaluated. Quarterly indoor air and sub-slab vapor samples were collected from four locations within the southern portion of the former Carlyle Compressor building based upon their location relative to the groundwater contaminant plume at the facility. The evaluation was completed in 2007 and determined that while no indoor air contaminants were detected above NYSDOH guidance values, sub-slab vapor concentrations of trichloroethene, 1,1,1-trichloroethane, and tetrachloroethene exceeded their respective NYSDEC Air Guideline Values. Subsequent to these findings, a sub-slab depressurization system (SSDS) was installed in late 2012. The mitigation system is owned and operated by the site owner 7 days per week, 24 hours per day.

2.0 FIELD ACTIVITIES

For purposes of the long-term monitoring program, groundwater and surface water samples are collected every five quarters (15-month) to assess the ongoing degradation of VOCs and include monitoring wells (MW) MW-1, MW-106, MW-107, MW-13D, and MW-SB2, and surface water locations at the storm sewer outfall and at the drainage swale. With NYSDECs prior approval (email correspondence dated November 22, 2019 and March 20, 2020), field sampling was delayed from its originally scheduled mobilization in December 2019 to March 2020 due to personnel injury, and later postponed to July 2020 due to Covid-related travel restrictions. Groundwater sampling activities were completed on July 14 and 15, 2020.

In correspondence dated March 20, 2018, NYSDEC requested a work plan to identify wells proposed for 1,4-dioxane and polyfluoroalkyl substances (PFAS) sampling. In correspondence dated September 6, 2018, NYSDEC approved and the Emerging Contaminants Work Plan (EnSafe, August 30, 2018) in which two Site wells, MW-1 and SB-13, were proposed for this sampling. Sampling activities were completed for PFAS in September 2018, and for 1,4-dioxane in July 2020, as described in Section 3.2.[1]

2.1 Groundwater Monitoring

Water level measurements and groundwater samples were collected on July 15, 2020, from each of five groundwater monitoring wells MW-1, MW-106, MW-107, MW-13D, and MW-SB2. In addition, a sample was taken from an onsite storm sewer outfall and from the drainage swale to which the storm sewer discharges. Sample locations are shown on Figure 2. Monitoring wells MW-1 and MW-106

[1] As requested by NYSDEC in correspondence dated March 20, 2018, select site wells were sampled for 1,4-dioxane in September 2018. Due to an overnight courier service failure, NYSDEC approved a request that resampling for 1,4-dioxane would be conducted during the 2020 "15-month" groundwater monitoring event.

provide groundwater quality information in the former remedial target area. Monitoring well MW-107 provides information south of the remediated area. Two monitoring wells, MW-13-D and MW-SB2, provide information exterior and parallel to the southern wall of the building, and the portion of the building nearest the former target area. Monitoring well MW-13D was installed in a confining layer, and MW-SB2 was installed in the overlying fill.

Prior to groundwater sampling activities, water level measurements in the five monitoring wells were collected and recorded. Well development and groundwater sampling forms in Appendix A document measurements and field data recorded during purging and sampling activities for each monitoring well location. Potentiometric elevations are shown in Table 1. Flow patterns could not be discerned due to 1) wells being screened in different aquifers, 2) uncertainty of communication between aquifers, and 3) subsurface influences, including the influence of the storm sewer, crossing the western portion of the site and the former soil vapor extraction trenches. As such, a potentiometric map was not prepared.

Each of the monitoring wells sampled during the July 2020 monitoring event was purged at least three well volumes prior to sampling, except monitoring well MW-SB2. Well MW-SB2 was bailed dry after approximately 1.5 well volumes, then allowed to recharge until sufficient volume was available for sample collection. Monitoring wells MW-107, MW-13D, and MW-SB2 were purged using disposable polyethylene bailers. MW-1 and MW-106 were low-flow purged using a peristaltic pump due to the additional 1,4-dioxane analysis required for samples from these two monitoring wells (see Section 3.2). Purge water was stored in 55-gallon drums and were picked up on December 8, 2020, for disposal. Disposal documentation, including a contained-in determination from NYSDEC, is provided in Appendix B.

2.2 Outfall and Surface Water Sampling

An approximate 24-inch reinforced concrete storm sewer pipe is located just inside the building, a few feet north of the building's southern wall. The pipe exits the building footprint on the west end of the building, and cuts diagonally across the Site to the northwest, ultimately discharging to a drainage swale on the west side of the Site. On July 14, 2020, a water sample was collected from the storm sewer outfall and a surface water sample was collected from the drainage swale.

2.3 Field Sample Handling

All samples were placed directly into laboratory-supplied containers, preserved in the field with hydrochloric acid, stored on ice, and submitted to SGS Accutest Laboratories in Dayton, New Jersey (New York Certification — NELAP — 11791), via overnight courier under chain-of-custody procedures. The samples were analyzed for VOCs using United States Environmental Protection Agency (U.S. EPA) Method 8260B.

2.4 Quality Assurance/Quality Control and Data Validation

U.S. EPA Stage 2B electronic and manual data validation, consisting of analytical results review and quality control summaries, was performed on samples from SGS laboratory reports JD10241 and JD10244. Samples were received intact and at temperatures within acceptable limits. Quality assurance/quality control samples included duplicate samples collected from monitoring wells MW-106 and MW-107, one trip blank sample, one equipment blank sample, and two field blanks. Acceptable duplicate precision was met, and all field and laboratory blanks were free from contamination. Review of field and laboratory data quality assurance/quality control criteria during data validation indicated acceptance parameters were met for the July 2020 event. The laboratory analytical reports are included with Appendix C.

Analytical data were evaluated independently from the laboratory to assess data quality. No results were rejected during the data validation process; therefore, analytical completeness was calculated to be 100% and all data are usable according to United States Environmental Protection Agency guidelines. The electronic data deliverable (EDD) was submitted to the NYSDEC Environmental Information Management System (EIMS) Team on December 14, 2020. The Data Usability Summary Report (DUSR) and EDD transmittal email are included as Appendix D.

3.0 FINDINGS

3.1 VOCs

Post-remediation monitoring of VOCs at the Site monitoring wells shows continued reduction or non-detects of COC concentrations in groundwater. Detected compounds from the July 2020 sampling event are shown on Figure 2.

- The remedial target area monitoring wells MW-1 and MW-106 continue to show a decreasing trend of VOC concentrations with no VOCs detected in MW-1, and total VOCs at their lowest concentration of 15.62 micrograms per liter (µg/L) in MW-106, down from a concentration of 53.8 µg/L in 2013. Tables 2a and 2b summarize the data in these two wells for the last six monitoring events at the Site.

- Monitoring well MW-107 similarly shows detections of VOCs decreasing (Table 2c) with the most recent total VOC concentration of 49.9 µg/L, down from a concentration of 383 µg/L in 2013.

- Monitoring wells MW-13D and MW-SB2 are in the area along the southern building wall. The July 2020 samples from both wells are the lowest concentrations at 1,744.3 µg/L and 367.9 µg/L, respectively, reported during post-remediation monitoring (Tables 2d and 2e).

- Reported total VOC concentrations for the water sample collected from the storm water outfall discharge to the drainage swale was 287.5 µg/L. This concentration is one of the lower sample concentrations over the last six sampling events, though the concentrations continue to fluctuate (Table 3). The storm sewer appears to have a baseflow discharge during periods when there has not been a rain event. The fluctuating concentrations may be the result of weather conditions at the time of sampling (i.e., recent rainfall event resulting in roof runoff entering storm sewer system) and potentially elevated groundwater table resulting in infiltration into the storm sewer.

- The total VOC concentration in the drainage swale (Table 4) sample was 181 µg/L and is similar to past sample concentrations at this location as well as to those found in the outfall discharge sample.

- During the July 2020 monitoring event, no free product or sheen was observed in the Site monitoring wells, outfall discharge, or surface water sample location.

The next scheduled groundwater monitoring event in the fourth quarter of 2021.

3.2 Emerging Contaminant – 1,4-Dioxane

As requested by NYSDEC in correspondence dated March 20, 2018, select site wells were sampled for 1,4-dioxane during the last monitoring event in September 28, 2018. Due to an overnight courier service failure, the samples were delivered the laboratory on October 1, 2018, at 20.6 degrees Celsius, which is above the analytical method temperature preservation requirement. As a result, these samples were not analyzed for 1,4-dioxane. In correspondence dated October 16, 2018, Mr. Tracy Smith, NYSDEC site Project Manager, approved a request that resampling for 1,4-dioxane would be conducted during the 2020 "15-month" groundwater monitoring event. The July 2020 groundwater samples from monitoring wells MW-1 and MW-106 were sampled and analyzed for 1,4-dioxane using USEPA Method 8270D.

Laboratory results reported 1,4-dioxane concentrations of 0.106 µg/L in the sample from MW-1 and 0.914 µg/L in the sample form MW-106, both of which are less than the NYSDEC maximum contaminant limit of 1 µg/L. A summary table for these samples is included in Table 5. The laboratory analytical report for this analysis is included in Appendix C. Based on these results, no further sampling for 1,4-dioxane is warranted.

4.0 SUB-SLAB DEPRESSURIZATION SYSTEM

EnSafe personnel made visual observations of the system on October 10, 2019 and February 10, 2020. No problems were observed during the October 2019 inspection; however, during the February 2020 inspection, Extraction Point EP#2 did not have a pressure reading. The building manager contacted the installers of the SSDS, who recommended that all pressure gauges be replaced. In September 2020, the building manager noted that the blower was in default mode. He again contacted the system installers who were able to make the needed repairs to the system. The observation forms for the October 10, 2019, and February 10, 2020, visits along with the building managers inspection log are included in Appendix E.

Figures

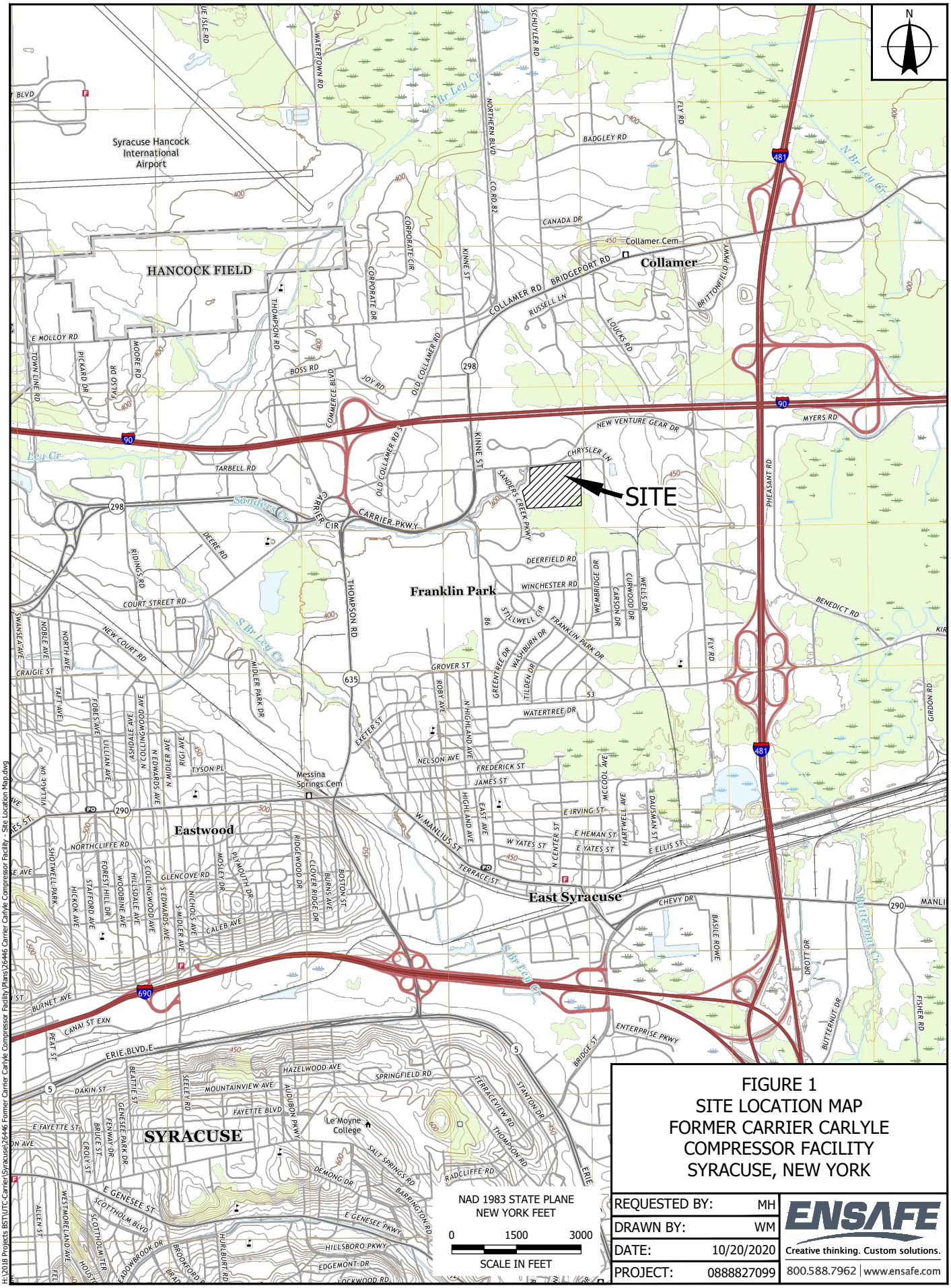


FIGURE 1
SITE LOCATION MAP
FORMER CARRIER CARLYLE COMPRESSOR FACILITY
SYRACUSE, NEW YORK

REQUESTED BY:	MH
DRAWN BY:	WM
DATE:	10/20/2020
PROJECT:	0888827099

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Source: U.S. Geological Survey. NY_Syracuse_East [Map] 2019. 1:24,000. 7.5 Minute Series.

H:\2018 Projects BST\UTC Carrier\Syracuse\26446 Former Carrier Carlyle Compressor Facility\Plans\26446 Carrier Carlyle Compressor Facility - Site Location Map.dwg

Drainage Swale	
Compound	**7/14/2020**
1,1,1-Trichloroethane (TCA)	**6.6**
1,1-Dichloroethane	**9.6**
1,1-Dichloroethene	**1.8**
Acetone	**15.1**
Cis-1,2-Dichloroethylene	**119**
Trichloroethylene (TCE)	**16.6**
Vinyl Chloride	**12.3**

Storm Sewer Outfall	
Compound	**7/14/2020**
1,1,1-Trichloroethane (TCA)	**15**
1,1-Dichloroethane	**19.1**
1,1-Dichloroethene	**4.3**
Cis-1,2-Dichloroethylene	**184**
Trans-1,2-Dichloroethene	**0.71 J**
Trichloroethylene (TCE)	**17**
Vinyl Chloride	**29.9**

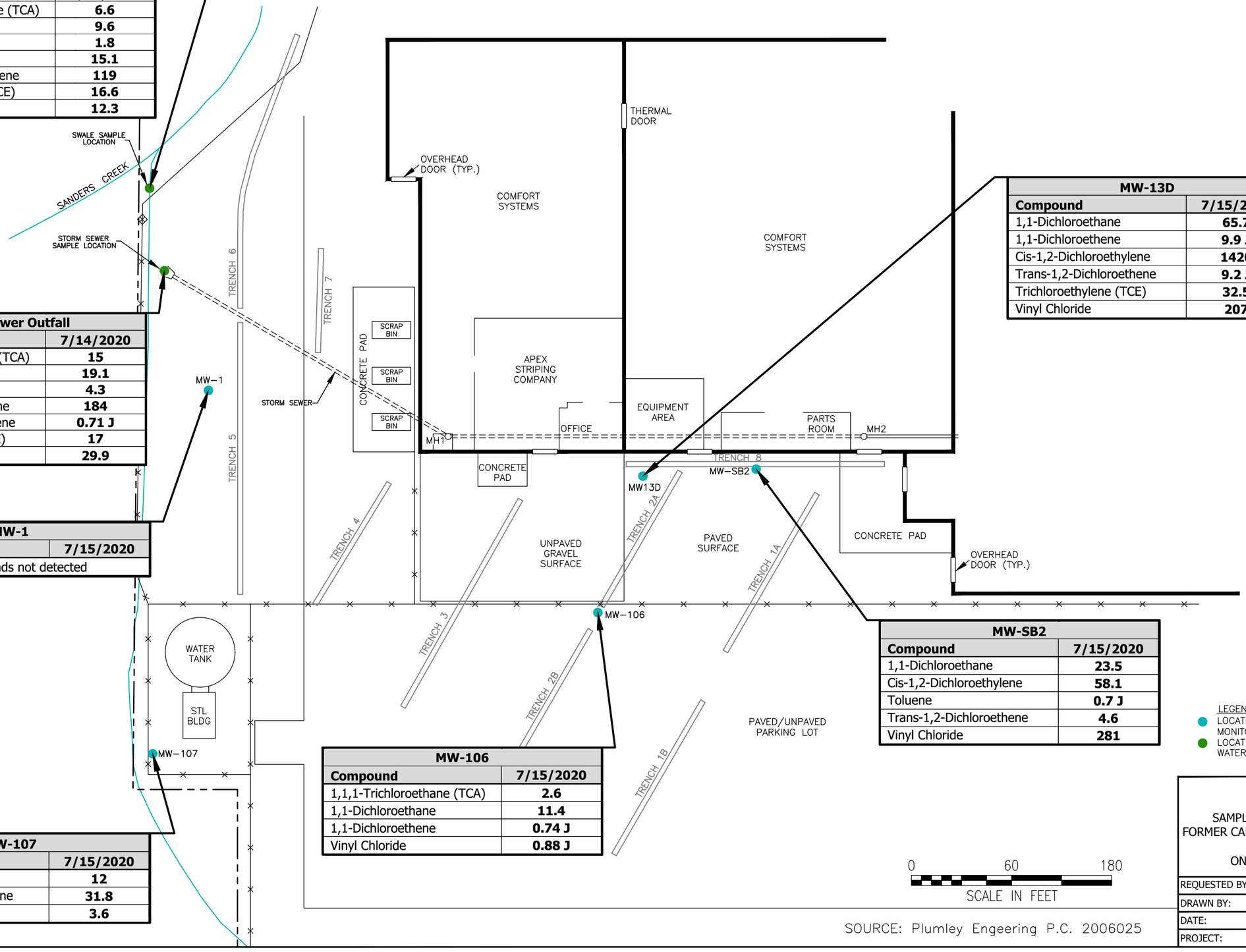
MW-1	
Compound	**7/15/2020**
All compounds not detected	

MW-107	
Compound	**7/15/2020**
1,1-Dichloroethane	**12**
Cis-1,2-Dichloroethylene	**31.8**
Vinyl Chloride	**3.6**

MW-106	
Compound	**7/15/2020**
1,1,1-Trichloroethane (TCA)	**2.6**
1,1-Dichloroethane	**11.4**
1,1-Dichloroethene	**0.74 J**
Vinyl Chloride	**0.88 J**

MW-13D	
Compound	**7/15/2020**
1,1-Dichloroethane	**65.7**
1,1-Dichloroethene	**9.9 J**
Cis-1,2-Dichloroethylene	**1420**
Trans-1,2-Dichloroethene	**9.2 J**
Trichloroethylene (TCE)	**32.5**
Vinyl Chloride	**207**

MW-SB2	
Compound	**7/15/2020**
1,1-Dichloroethane	**23.5**
Cis-1,2-Dichloroethylene	**58.1**
Toluene	**0.7 J**
Trans-1,2-Dichloroethene	**4.6**
Vinyl Chloride	**281**



SOURCE: Plumley Engeering P.C. 2006025

FIGURE 2
FIVE-QUARTER
SAMPLE LOCATION AND DATA MAP
FORMER CARRIER CARLYLE COMPRESSOR SITE
TOWN OF DEWITT
ONONDAGA CO., NEW YORK

REQUESTED BY:	MH
DRAWN BY:	WM
DATE:	1/05/2021
PROJECT:	0888827022

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H:\2018 Projects BST\UTC-Carrier\Syracuse\26446 Former Carrier CarlyNe Compressor Facility\Plans\26446 Former Carrier CarlyNe Comp Sample Location - Data Map 1-5-21.dwg

Tables

Table 1
Groundwater Elevation Summary Table
Former Carrier Carlyle Compressor Site
DEC Site ID No. 734068

Well Number	Top of Casing Elevation	10/14/2013	12/3/2014	3/30/2016	6/8/2017	9/27/2018	7/15/2020
MW-1	45.46	41.21	41.69	41.8	42.07	41.85	NA
MW-106	44.39	41.18	41.66	42.03	42.55	41.44	41.52
MW-107	44.86	35.73	39.68	39.83	39.87	39.79	39.61
MW-13D	45.38	40.27	40.68	41.06	42.36	39.47	40.63
MW-SB2	45.34	NA	42.46	42.41	43.03	42.08	42.61

Notes:
NA = not available. MW-1 was repaired in 2020 due to prior casing damage; the well has not been resurveyed.

Table 2a
Groundwater Sampling Detections Summary
2013 through 2020
Former Carrier Carlyle Compressor Site
DEC Site ID No. 734068

	MW-1					
Compound	**10/14/2013**	**12/3/2014**	**3/30/2016**	**6/8/2017**	**9/27/2018**	**7/15/2020**
1,1,1-Trichloroethane (TCA)	ND	**0.43 J**	**0.76 J**	**0.44 J**	ND	ND
1,1-Dichloroethane	**9.8**	**4.6**	**7.1**	**5.7**	**1.3**	ND
Chloroethane	**1.1 J**	**0.37 J**	ND	ND	ND	ND
Cis-1,2-Dichloroethylene	**0.71 J**	**0.28 J**	**0.52 J**	**0.52 J**	ND	ND
Vinyl Chloride	**1.2**	**0.54 J**	**0.68 J**	**1.3**	ND	ND
TOTAL VOCs	**12.81**	**6.22**	**9.06**	**7.96**	**1.3**	0

Notes:
Compound concentrations reported in microgram per liter (µg/L).
J = Indicates an estimated value. Result is above the method detection limit but below the reporting limit.
ND = Not Detected
Bold = analyte was detected

Table 2b
Groundwater Sampling Detections Summary
2013 through 2020
Former Carrier Carlyle Compressor Site
DEC Site ID No. 734068

Compound	MW-106					
	10/14/2013	12/3/2014	3/30/2016	6/8/2017	9/27/2018	7/15/2020
1,1,1-Trichloroethane (TCA)	**6.1**	**3.2**	**4.7**	**6**	**2.2**	**2.6**
1,1-Dichloroethane	**35.9**	**25**	**25.2**	**31.9**	**19.5**	**11.4**
1,1-Dichloroethene	**1.8**	**0.59 J**	**2.8**	**5.8**	**1.6**	**0.74 J**
Chloroethane	**5.1**	**7**	**2.9**	**0.68 J**	ND	ND
Cis-1,2-Dichloroethylene	**1.2**	**0.68 J**	**2.6**	**2.9**	**1.7**	ND
Tetrachloroethylene (PCE)	ND	**0.27 J**	ND	ND	ND	ND
Trichloroethylene (TCE)	ND	**0.35 J**	**0.36 J**	**0.38 J**	**0.58 J**	ND
Vinyl Chloride	**3.7**	**0.72 J**	**3.3**	**4.5**	**2.5**	**0.88 J**
TOTAL VOCs	**53.8**	**37.81**	**41.86**	**52.16**	**28.08**	**15.62**

Notes:
Compound concentrations reported in microgram per liter (µg/L).
J = Indicates an estimated value. Result is above the method detection limit but below the reporting limit.
ND = Not Detected
Bold = analyte was detected

Table 2c
Groundwater Sampling Detections Summary
2013 through 2020
Former Carrier Carlyle Compressor Site
DEC Site ID No. 734068

	MW-107									
Compound	**10/14/2013**	**12/3/2014**	**3/30/2016**	**3/30/2016 (DUP)**	**6/8/2017**	**6/8/2017 (DUP)**	**9/27/2018**	**9/27/2018 (DUP)**	**7/15/2020**	**7/15/2020 (DUP)**
1,1-Dichloroethane	**90**	**58**	**12**	**17.9**	**9.5**	**10.7**	**23.7**	**28.8**	**12**	**12.6**
1,1-Dichloroethene	**2.3**	ND	ND	**0.57 J**	ND	ND	**0.76 J**	**0.93 J**	ND	ND
Cis-1,2-Dichloroethyler	**225**	**150**	**33.1**	**48.2**	**26.6**	**29.5**	**68.1**	**81.2**	**31.8**	**33.7**
Trans-1,2-Dichloroethe	**1.6**	ND	ND	ND	ND	ND	**0.59 J**	**0.69 J**	ND	ND
Trichloroethylene (TCE	**1.7**	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	**62.4**	**25**	**6.2**	**10.1**	**5**	**5.4**	**11.2**	**13.6**	**3.6**	**3.6**
TOTAL VOCs	**383**	**233**	**51.3**	**76.77**	**41.1**	**45.6**	**104.35**	**125.22**	**47.4**	**49.9**

Notes:
Compound concentrations reported in microgram per liter (μg/L).
J = Indicates an estimated value. Result is above the method detection limit but below the reporting limit.
ND = Not Detected
Bold = analyte was detected

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Table 2d
Groundwater Sampling Detections Summary
2013 through 2020
Former Carrier Carlyle Compressor Site
DEC Site ID No. 734068

Compound	MW-13D					
	10/14/2013	12/3/2014	3/30/2016	6/8/2017	9/27/2018	7/15/2020
1,1-Dichloroethane	**105**	**110 J**	**104**	**110**	**82.8**	**65.7**
1,1-Dichloroethene	**31.1**	ND	**23.6**	**26.3**	**13.9**	**9.9 J**
Cis-1,2-Dichloroethylene	**3890**	**3600**	**2970**	**3230**	**1970**	**1420**
Trans-1,2-Dichloroethene	**18**	ND	ND	**12.3 J**	**8.9**	**9.2 J**
Trichloroethylene (TCE)	**103**	**61 J**	**101**	**50.7**	**37.5**	**32.5**
Vinyl Chloride	**393**	**260**	**259**	**359**	**265**	**207**
TOTAL VOCs	**4540.1**	**4031**	**3457.6**	**3788.3**	**2378.1**	**1744.3**

Notes:
Compound concentrations reported in microgram per liter (µg/L).
J = Indicates an estimated value. Result is above the method detection limit but below the reporting limit.
ND = Not Detected
Bold = analyte was detected

Table 2e Groundwater Sampling Detections Summary 2013 through 2020 Former Carrier Carlyle Compressor Site DEC Site ID No. 734068						
Compound	**MW-SB2**					
	10/14/2013	**12/3/2014**	**3/30/2016**	**6/8/2017**	**9/27/2018**	**7/15/2020**
1,1-Dichloroethane	NS	**14**	**46.4**	**20.9**	**38.1**	**23.5**
1,1-Dichloroethene	NS	ND	**3.6**	**1.1**	**1.3**	ND
Acetone	NS	15 J	ND	17.4	ND	ND
Benzene	NS	ND	**0.82 J**	**0.3 J**	ND	ND
Cis-1,2-Dichloroethylene	NS	**16**	**360**	**103**	**175**	**58.1**
Toluene	NS	ND	**0.97 J**	**0.67 J**	ND	**0.7 J**
Trans-1,2-Dichloroethene	NS	**1.5 J**	**7.2**	**3.7**	**7.8**	**4.6**
Vinyl Chloride	NS	**98**	**1100**	**349**	**515**	**281**
TOTAL VOCs	**NS**	**129.5***	**1518.99**	**478.67***	**737.2**	**367.9**

Notes:

Compound concentrations reported in microgram per liter (μg/L).

J = Indicates an estimated value. Result is above the method detection limit but below the reporting limit.

ND = Not Detected

NS = Not Sampled

Bold = analyte was detected

*Total concentrations do not include acetone, which are assumed to be laboratory contaminants.

Table 3
Analytical Results for Storm Water Outfall Discharge to Swale
Carrier Corporation — Carlyle Compressor Site
DEC Site ID No. 734068

Compound	10/14/2013	12/3/2014	3/30/2016	6/8/2017	9/27/2018	7/14/2020
1,1,1-Trichloroethane (TCA)	**27.2**	**32**	**8.4**	**7.5**	**21.4**	**15**
1,1-Dichloroethane	**35.3**	**38**	**14.5**	**10.1**	**33.9**	**19.1**
1,1-Dichloroethene	**8.8**	ND	**2.3**	**2.4**	**7.9**	**4.3**
2-Hexanone	**4.6 J**	ND	ND	NA	NA	NA
Chloroethane	**2.7**	ND	ND	ND	ND	ND
Cis-1,2-Dichloroethylene	**479**	**590**	**173**	**123**	**528**	**184**
Trans-1,2-Dichloroethene	**1.1**	ND	ND	ND	**1.6 J**	**0.71 J**
Trichloroethylene (TCE)	**35**	**22**	**32.7**	**30.8**	**41.7**	**17**
Vinyl Chloride	**68.5**	**52**	**9.7**	**12.3**	**49.2**	**29.9**
TOTAL VOCs	**657.6**	**734**	**240.6**	**186.1**	**682.1**	**287.5**

Notes:
Compound concentrations reported in microgram per liter (μg/L).
J = Indicates an estimated value. Result is above the method detection limit but below the reporting limit.
ND = Not Detected
NA = Not Analyzed
Bold = analyte was detected
*Total concentrations do not include acetone, which are assumed to be laboratory contaminants.

Table 4 Analytical Results for Drainage Swale Discharge to Sanders Creek Carrier Corporation — Carlyle Company Site ID No. 734068						
Compound	**10/14/2013**	**12/3/2014**	**3/30/2016**	**6/8/2017**	**9/27/2018**	**7/14/2020**
1,1,1-Trichloroethane (TCA)	**13**	ND	ND	**22.5**	**5.9**	**6.6**
1,1-Dichloroethane	**19.6**	ND	ND	**24.8**	**9.8**	**9.6**
1,1-Dichloroethene	**4.4**	ND	ND	**7.8**	**2.2**	**1.8**
Acetone	ND	ND	ND	ND	ND	**15.1**
Chloroethane	**1.2 J**	ND	ND	ND	ND	ND
Cis-1,2-Dichloroethylene	**251**	ND	**0.32 J**	**368**	**144**	**119**
Trans-1,2-Dichloroethene	**0.66 J**	ND	ND	**0.85 J**	ND	ND
Trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND
Trichloroethylene (TCE)	**22.8**	ND	ND	**99.8**	**10.9**	**16.6**
Vinyl Chloride	**30.6**	ND	ND	**38.7**	**13.5**	**12.3**
TOTAL VOCs	**341.4**	**0**	**0.32**	**561.6**	**186.3**	**181**

Notes:

Compound concentrations reported in microgram per liter (µg/L).

J = Indicates an estimated value. Result is above the method detection limit but below the reporting limit.

ND = Not Detected

NA = Not Analyzed

Bold = analyte was detected

ENSAFE

Table 5 1,4-Dioxane Analytical Results Carrier Corporation — Carlyle Compressor Site DEC Site ID No. 734068			
Sample Location	MW-01	MW-106	MW-106 (DUP)
Sample Date:	7/15/2020	7/15/2020	7/15/2020
Analysis Method:	SW8270D_SIM	SW8270D_SIM	SW8270D_SIM
1,4-Dioxane	**0.106**	**0.914**	**0.951**

Notes:

Compound concentrations reported in microgram per liter (µg/L).

SIM = Selective ion monitoring

Bold = analyte was detected

Appendix A
Field Log, Well Development and Groundwater Sampling Forms

Field Log Notes

Location Syracuse, NY Date 7/14/20

Project / Client Cooler - former Cortlyscle Compression

Pg 1 of 3

1215 MBG on-Site After Pick-up Equip to Pine

- Complete Survey

Locate Both SW Sample Locations - Water flowing so can Sample

Locate All MWs note the following

- Grating on Vault for Locations MW13D & MW-58Z has Sky. Faded

- Stick-ups for ~~MW01 & MW07 Vault~~ - MW107 has Lock But Clasp Long Enough to still Get at Lid. At MW-01 Lid & Lock is Resting Top of Lid to Well (& New Lid) The New Lid is not Locked / Easy Access.

1300 Inspect Drums containing Pre Water

(1) Plastic Drum mostly full no Issues

(2) 2 Steel Drums. Bottoms of Both are Bulged (Likely from freezing) & 1 of the Drums is Laying on its side.

Location Date 7/14/20

Project / Client

Pg 2 of 3

- Call S Geologist to Discuss Drums

SD indicates he will coordinate getting 3 new Drums onsite either this afternoon or Tomorrow morning & to transfer liquid from the Bulged Drums into the New Drums.

- Tell SD my Goal Today is to Sample Both SW Locations, Gauge All Wells, & Sample At least 1 of the Bailed Wells. Will need to leave Onsite Early to get Loggers to Clear Around MW-107

SD Agrees & Dons's Tasks

1345 Collect Sample CC1SOSW0720 VOCs

1355 Collect Sample CC1STSW0720 VOCs

Location _____ Date 7/14/20

Project / Client _____

3 3 of 3

GAUGING –

	DTW	Comments
MW01	4.08	2" WELL MEASURED FROM NW SID
MW107	5.13	SIG. OVERFLOW ~~tank~~
MW106	2.90	LID ON BY COMPRESSION ONLY NUT DOES NOT TURN
MW13D	4.67	MW LID SIMILAR TO MWSB2
MWSB2	2.73	MW LID BOLT SIG. DAMAGED NOTHING HEAVY LID DOWN

1500 MBC offSITE TO LOEN's TO GET LOGGERS TO CLEAN AROUND MW-107

Location Syracuse, NY Date 7/15/20

Project / Client Carrier - Former Carlyle Compressor

D, 1 of

0650 MBC onSite TO CLEAN BRUSH AT MW-107 & GW SAMPLING.

- COMPLETE SWMP

CLEAN AROUND MW107 THEN COMPLETE WORKPLAN SET-UP TO Sample MW107

0800 PARRETT-Wolfe onSite w/ 3 DRUMS of MANAGE Purge H2O

0825 PARRETT-Wolfe offSITE

0835 Sample MW107 - See Purge Log
CC1MW107760720 - PRIMARY
CC1MW107H0720 - FIELD DUP
Both for VOCs

0900 MBC offSITE TO Pine for JUG
- PINE DID NOT HAVE 5000 - JUG NOT DEL.
YEST.

0940 MBC back on-Site
- SET-UP @ MW01

Location C-37 Date 7/15/20

Project / Client

R 2 of

0950 Begin low-flow @ MW01
- See Well Purge Log

1040 Sample CC1MW01G0720
VOCs + Dioxane
Also MS/MSD for Dioxane

1130 Collect Dioxin EB @ MW01
EB obtained by Running LOB Provided
DI H2O through Teflon Tubing / Pump Head
& into Glassware
CC1EB01E0720

1140 Set-up on MW106 · See Purge Log
Sample CC1MW106G0720
VOCs / 1,4 Dioxane + VOC MS/MSD
CC1MW106H0720 / 1,4 Dioxane Field Dup
Teflon Tubing / Peristaltic

1310 Collect Field Blank VOCs/1,4 Dioxane
Using LOB Provided DI water
Not Enough DI to fill Both 1,4 Dioxane
Containers
CC1FB01 (VOCs) or 02 (Dioxane) F0720
@ MW106

Location Date 7/15/20

Project / Client

R 3 of

1350 Set-up on MWSB2
See Purge Log

CC1MWSB2G0720 VOCs
HDPE Bailer

Well Runs Dry Dry Purge x 2 volumes

1435 Set-up @ MW13D
- See Purge Log

CC1MW13DG0720 VOCs
HDPE Bailer

1510 Go To Drum Storage Area To Consolidate
Old Purge Water / Drums & This Event
& Collect Waste Characterization Sample
for Drums

3 Existing Drums ID: 10/14/13 found Empty (Emptied)
6/8/17 ≈ 25 gal
9/27/18 ≈ 15 gal

Location _____ Date 7/15/20

Project / Client _____

3 4 of 5

Drum ID 10/14/13 WAS LYING ON ITS SIDE
c/ BULGED BOTTOM. DRUM IS 55 GAL STEEL
& WAS EMPTY
SOME SOLIDS IN DRUM (SEDIMENT?)

DRUM ID 6/8/17 CONTAINED ≈ 25 GAL. THIS
TRANSFERED INTO A NEW 55 GAL STEEL
DRUM DROPPED OFF BY PRECAST-WOLFE, THIS
DRUM ALSO CONTAINED TODDS PURGE H2O
≈ 20 GAL TOTAL IN THIS DRUM.

DRUM ID 7/27/13 IS PLASTIC 55-GAL
& CONTAINS APPROX 20 GAL

COLLECT WASTE DISPOSAL SAMPLES

CC1IDW01Z0720 = DRUM ID 9/27/13

CC1IDW02Z0720 = DRUM ID 7/15/20
& IS COMBINATION OF 6/8/17 & 7/15/20
PURGE WATER

Location _____ Date 7/15

Project / Client _____

5 5 of 5

1530 SGS ONSITE & TAKE SAMPLES

- MBG ORGANIZES / RE-SECURED DRUMS

CURRENTLY 9/27/13 HAS WATER IN IT
7/15/20 HAS WATER IN IT
AS WELL BUT DON'T HAVE ANY
LABELS - WRITE ON LID

DRUM 10/14/13 EMPTY & LEAKED
DRUM 6/8/17 CONTENTS TO 7/15/20

ALL DRUMS SECURED / LIDS CLOSED

1600 MBG TO PINE TO DROP OFF EQUIP
- CONTACT SEABRIGHT RE: DRUMS

SEABRIGHT SUPERS PULL RESIDUAL
SOLIDS FROM DRUM 10/14/13 INTO
NEW 2020 DRUM BECAUSE SOLIDS LIKELY
REQUEST SEDIMENT THAT SETTLED OUT
OF DRUM. MBG AGREES

1700 MBG TRANSFERS SOLIDS INTO
DRUM & OFF SITE

Groundwater Sampling Forms

ENSAFE

WELL DEVELOPMENT & GROUNDWATER SAMPLING FORM

DATE: 7/15/20	JOB NUMBER: 03331418744
PROJECT: Crozlysly Condoless~	EVENT: July 2020
WELL ID: MW107	LOCATION: Syracuse, NY
WEATHER CONDITIONS: Sunny 70°F	AMBIENT TEMP: 70°F
REVIEWED BY:	PERSONNEL: MBC

WELL DIA: 2"	**WELL DEVELOPMENT**
TOTAL DEPTH from TOC (ft.): 12.06	START: ~~0755~~ FINISH:
DEPTH TO WATER from TOC (ft.): 5.25	VOLUME PURGED (gal):
LENGTH OF WATER COL. (ft.): 6.81	**GROUNDWATER SAMPLING**
1 VOLUME OF WATER (gal): 1.14	START: 0755 FINISH: 0830
3 VOLUMES OF WATER (gal): 3.42	VOLUME PURGED (gal): ≈ 2 gal
	ANALYSIS: VOC

IN-SITU TESTING

Circle one: DEVELOPMENT SAMPLING ☒ Bailer ☐ Pump Description:

Time (hh:mm):	0755	0821	0826	0830								
pH (units):	7.09	6.65	6.61	6.72								
Conductivity (mS/cm):	1.93	1.17	0.872	0.806								
Turbidity (NTU):	0.0	331	995	357								
DO* (mg/L):	15.47	5.21	4.74	4.82								
Temperature (C°):	21.36	21.44	21.22	21.20								
ORP (mV):	59	85	99	103								
Volume Purged (gal):												
Depth to Water (ft):	5.25	5.35	5.43	5.50								
	Vol 0	Vol 1	Vol 2	Vol 3								
								Well Goes Dry While Purging ☐				

*DO Range = 0 to 14.6 mg/L, max of 8.6 mg/L at 25°C

Sample Data

☐ Dup Collected ☐ MS/MSD Collected ☐ Bailer ☐ Pump Description:

Sample ID	Date (m/d/y)	Time (hh:mm)	#Bottles (total to lab)	Filtered (0.45 µm)	Remarks
CC1MW107G0720	7/15/20	0835	3	—	VOCs
CC1MW107H0720	7/15/20	0840	3	—	FIELD Dup

COMMENTS:

Purge H2O Lt. brown some sediment no sheen/odor
Purge to 55-gal Drum
HDPE Bailer

Purge water placed in drum#_____

ENSAFE

WELL DEVELOPMENT & GROUNDWATER SAMPLING FORM

DATE: 7/15/20	JOB NUMBER: ~~03333~~ 14574
PROJECT: CENTRALYSE COMPRESSOR	EVENT: JULY 2020
WELL ID: MW01	LOCATION: SYRACUSE, NY
WEATHER CONDITIONS: SUNNY	AMBIENT TEMP: 75°F
REVIEWED BY:	PERSONNEL: MBG

WELL DIA: 4"	WELL DEVELOPMENT	
TOTAL DEPTH from TOC (ft.): 10.93	START:	FINISH:
DEPTH TO WATER from TOC (ft.): 4.14	VOLUME PURGED (gal):	
LENGTH OF WATER COL. (ft.): 6.79	GROUNDWATER SAMPLING	
1 VOLUME OF WATER (gal): ≈ 4.57	START: 0950	FINISH: 1145
3 VOLUMES OF WATER (gal): 13.71	VOLUME PURGED ~~(gal)~~: 2.3 Liters	
	ANALYSIS: VOC + 1,4 DIOXANE	

IN-SITU TESTING

Circle one: DEVELOPMENT SAMPLING ☐ Bailer ☒ Pump Description: PERISTALTIC

Time (hh:mm):	1006	1011	1016	1021	1026	1031	~~1036~~					
pH (units):	6.37	6.49	6.73	6.74	6.74	6.73						
Conductivity (mS/cm):	0.789	0.789	0.789	0.792	0.798	0.799						
Turbidity (NTU):	25.3	20.7	17.4	16.8	17.7	18.6						
DO* (mg/L):	10.45	6.26	3.86	3.54	3.38	3.64						
Temperature (C°):	21.80	21.25	21.18	21.11	20.97	20.96						
ORP (mV):	-79	-94	-111	-114	-115	-117						
Volume Purged ~~(gal)~~: Liters	0	0.95	0.9	1.35	1.8	2.25						
Depth to Water (ft):	4.20	4.33	4.38	4.43	4.47	4.50						
								Well Goes Dry While Purging ☐				

*DO Range = 0 to 14.6 mg/L, max of 8.6 mg/L at 25°C

Sample Data ☐ Dup Collected ☒ MS/MSD Collected ☐ Bailer ☒ Pump Description: PERISTALTIC

Sample ID	Date (m/d/y)	Time (hh:mm)	#Bottles (total to lab)	Filtered (0.45 µm)	Remarks
CC1MW01G0720	7/15/20	1040	3	—	VOCs
CC1MW01G0720	7/15/20	1040	6	—	1,4 DIOXANE + MS/MSD
CC1EB01E0720	7/15/20	1130	2	—	1,4 DIOXANE Equipt Blank

COMMENTS:

Teflon Tubing — WELL PURGED @ FLOW RATE of 90 mL/MIN Inlet set x 7 ft. b. T.O.C.
PURGE WELL 46. BROWN NO SHEEN/NO ODOR
PURGE TO DRUM x 2.3 LITERS

Purge water placed in drum#_____

EB obtained by using fresh Teflon TUBING & LAB DI & PERISTALTIC — TRANSFERRED THROUGH TUBING INTO LAB GLASSWARE

4,3

ENSAFE

WELL DEVELOPMENT & GROUNDWATER SAMPLING FORM

DATE: 7/15/20	JOB NUMBER: 08888 14574
PROJECT: CARLSBAD COMPRESSOR	EVENT: July 2020
WELL ID: MW106	LOCATION: SYRACUSE, NY
WEATHER CONDITIONS: SUNNY	AMBIENT TEMP: ~80s
REVIEWED BY:	PERSONNEL: MBC

WELL DIA: 2"	WELL DEVELOPMENT	
TOTAL DEPTH from TOC (ft.): 9.74	START:	FINISH:
DEPTH TO WATER from TOC (ft.): 2.87	VOLUME PURGED (gal):	
LENGTH OF WATER COL. (ft.): 6.87	GROUNDWATER SAMPLING	
1 VOLUME OF WATER (gal): ≈1.14 mL	START: 1150	FINISH: 1305
3 VOLUMES OF WATER (gal): 3.42	VOLUME PURGED (gal): 3.6 Liters	
	ANALYSIS: VOC + 1,4 DIOXIN	

IN-SITU TESTING

Circle one: DEVELOPMENT SAMPLING ☐ Bailer ☒ Pump Description: PERISTALTIC

Time (hh:mm):	1202	1207	1212	1217	1222	1227						
pH (units):	6.81	6.89	6.93	6.94	6.94	~~6.94~~						
Conductivity (mS/cm):	0.988	1.03	1.03	1.03	1.03	1.03						
Turbidity (NTU):	0.0	0.0	0.0	0.0	0.0	0.0						
DO* (mg/L):	5.73	1.82	1.13	0.61	0.33	0.0						
Temperature (C°):	22.44	21.28	21.26	21.06	20.97	20.89						
ORP (mV):	-64	-69	-64	-57	-54	-53						
Volume Purged ~~(gal)~~: Liters	0	0.7	1.4	2.1	2.8	3.6						
Depth to Water (ft):	3.58	4.08	4.55	4.99	5.32	5.49						
							Well Goes Dry While Purging ☐					

*DO Range = 0 to 14.6 mg/L, max of 8.6 mg/L at 25°C

Sample Data

DIOX VOC
☒ Dup Collected ☒ MS/MSD Collected ☐ Bailer ☒ Pump Description: PERISTALTIC

Sample ID	Date (m/d/y)	Time (hh:mm)	#Bottles (total to lab)	Filtered (0.45 µm)	Remarks
CC1MW106 0720	7/15/20	1235	9	–	VOCs + MS/MSD
CC1MW106 0720	7/15/20	1235	2	–	1,4 DIOXANE
CC1MW106D0720	7/15/20	1300	2	–	1,4 DIOXANE FIELD DUP

COMMENTS: WELL PURGED @ FLOW RATE OF 140 mL/MIN INLET SET AT ~ 7A below T.O.C.
PURGE WATER CLEAR NO SHEEN/ODOR
PURGE TO DRUM ~ 3.6 LITERS
TEFLON TUBING

Purge water placed in drum#_____ Page ____ of ____

FIELD BLANK for VOCs / 1,4 DIOX COLLECTED @ MW106
CC1FB01 (VOCs) & 02 (1,4 DIOX) 0720 @ 1310

ENSAFE

WELL DEVELOPMENT & GROUNDWATER SAMPLING FORM

DATE: 7/15/20	JOB NUMBER: 05B3814574
PROJECT: Cincinnati Compressor	EVENT: July 2020
WELL ID: MWSBZ	LOCATION: Syracuse, NY
WEATHER CONDITIONS: Sunny	AMBIENT TEMP: ~80°F
REVIEWED BY:	PERSONNEL: MB

WELL DIA: 2"	WELL DEVELOPMENT	
TOTAL DEPTH from TOC (ft.): 4.94	START:	FINISH:
DEPTH TO WATER from TOC (ft.): 2.73	VOLUME PURGED (gal):	
LENGTH OF WATER COL. (ft.): 2.21	GROUNDWATER SAMPLING	
1 VOLUME OF WATER (gal): ~0.41	START: 1350	FINISH: 1430
3 VOLUMES OF WATER (gal): 1.23	VOLUME PURGED (gal): 1gal	
	ANALYSIS: VOC	

IN-SITU TESTING

Circle one: DEVELOPMENT SAMPLING ☒ Bailer ☐ Pump Description:

Time (hh:mm):	1355	1403	1409										
pH (units):	6.27	6.39	6.58										
Conductivity (mS/cm):	1.21	1.20	1.23										
Turbidity (NTU):	16.9	133	642										
DO* (mg/L):	2.74	4.90	5.61										
Temperature (C°):	28.94	27.6	27.00										
ORP (mV):	—	—	—										
Volume Purged (gal):	0	0.5	1.0										
Depth to Water (ft): 2.21	~~3.7~~	3.70	4.13										
													Well Goes Dry While Purging ☒

*DO Range = 0 to 14.6 mg/L, max of 8.6 mg/L at 25°C

Sample Data ☐ Dup Collected ☐ MS/MSD Collected ☐ Bailer ☐ Pump Description:

Sample ID	Date (m/d/y)	Time (hh:mm)	#Bottles (total to lab)	Filtered (0.45 µm)	Remarks
CC1MWSBZG072	7/15/20	1425	3	—	VOCs

COMMENTS: HDPE Bailer Purged Dry @ 1409 + Allowed 15 min Recharge Before Sampling

CC1MWSBZG072 1425 Pale Lt. Gray No Sheen / Septic Type Odor

Pipe to Drum

Purge water placed in drum#_____ Page ____ of ____

ENSAFE

WELL DEVELOPMENT & GROUNDWATER SAMPLING FORM

DATE: 7/15/20	JOB NUMBER: 03883145 74
PROJECT: Carlyle Compressor	EVENT: July 2020
WELL ID: MW 130	LOCATION: Syracuse, NY
WEATHER CONDITIONS: Sunny	AMBIENT TEMP: 80°F
REVIEWED BY:	PERSONNEL: TYRG

WELL DIA: 2"	WELL DEVELOPMENT	
TOTAL DEPTH from TOC (ft.): 9.40	START:	FINISH:
DEPTH TO WATER from TOC (ft.): 4.75	VOLUME PURGED (gal):	
LENGTH OF WATER COL. (ft.): 4.65	GROUNDWATER SAMPLING	
1 VOLUME OF WATER (gal): ≈ 0.82	START: 1435	FINISH: ~~1345~~ 1505
3 VOLUMES OF WATER (gal): 2.46	VOLUME PURGED (gal): 2.5	
	ANALYSIS: VOC	

IN-SITU TESTING LDPE

Circle one: DEVELOPMENT / SAMPLING	☒ Bailer ☐ Pump	Description:											
Time (hh:mm):	~~1340~~	1445	1450	1455									
pH (units):	6.82	6.72	6.77	6.69									
Conductivity (mS/cm):	1.92	1.93	1.87	1.96									
Turbidity (NTU):	59.3	59.1	16.9	0.0									
DO* (mg/L):	8.77	5.17	11.73	5.63									
Temperature (C°):	26.86	23.74	24.91	22.54									
ORP (mV):	—	—	—	—									
Volume Purged (gal):	0	1 vol	2 vol	3 vol									
Depth to Water (ft):	4.75	6.79	7.28	7.53									
								Well Goes Dry While Purging ☐					

*DO Range = 0 to 14.6 mg/L, max of 8.6 mg/L at 25°C

Sample Data ☐ Dup Collected ☐ MS/MSD Collected ☒ Bailer ☐ Pump Description:

Sample ID	Date (m/d/y)	Time (hh:mm)	#Bottles (total to lab)	Filtered (0.45 µm)	Remarks
CCIMW13DG0720	7/15/20	1500	3	—	VOC

COMMENTS: LDPE Bailer
Pale Lt. Brown No Sheen/or Odor
Purge To Dry

Purge water placed in drum#_____

Page ___ of ___

MULTI PARAMETER METER INSPECTION / CALIBRATION FORM

Site Santa Cruz Yacht Club Make Horiba Model U-52 Serial # XCV U4PR5

Source ___EnSafe Stockroom ___Field Environmental ___Environmental Instruments X Pine

Clean / good shape?	X	Yes		No
Batteries in good shape?	X	Yes		No
Generally Functioning Properly?	X	Yes		No
Sensors in good shape?	X	Yes		No

Others: _____

Dissolved Oxygen Calibration and Check

Elevation of Site Unk Ft Source: _____

Barometric Pressure 30.17 Inches of Hg X 25.4 766.32 = mm of Hg

Barometric Pressure Source NWS

Corrected Barometric Pressure (if required for meter): (Station's BP in mmHg)–[2.5 * (Site Elevation in ft. /100)] _____mm/Hg = _____ - [2.5 * (_____/100)]

Date &Time 7/15/20 0755 | Temp ℃ 20.55 | Calc. DO mg/l (Table below) 8.915 | Meter Reading 9.03 | **If Δ> 0.3 mg/l recalibrate**

Additional Dissolved Oxygen Calibration and Check

Barometric Pressure _____ Inches of Hg X 25.4 = _____ mm of Hg

Corrected Barometric Pressure (if required for meter): (Station's BP in mmHg)–[2.5 * (Site Elevation in ft. /100)] _____mm/Hg = _____ - [2.5 * (_____/100)]

Date Time | Temp C | Calc. DO mg/l (Table below) | Meter Reading | **If Δ> 0.3 mg/l recalibrate**

DO in Mg/l at Given Temps

C	Mg/l	℃	Mg/l	℃	Mg/l	℃	Mg/l	℃	Mg/l	℃	Mg/l
0	14.621	7	12.139	14	10.306	21	8.915	28	7.827	35	6.950
1	14.216	8	11.843	15	10.084	22	8.743	29	7.691	36	6.837
2	13.829	9	11.559	16	9.870	23	8.578	30	7.559	37	6.727
3	13.460	10	11.288	17	9.665	24	8.418	31	7.430	38	6.620
4	13.107	11	11.027	18	9.467	25	8.263	32	7.305	39	6.515
5	12.770	12	10.777	19	9.276	26	8.113	33	7.183		
6	12.447	13	10.537	20	9.092	27	7.968	34	7.065		

ORP Ag/AgCl Volts = 0.231 + 0.0013 (25 - C°) Note: Most meter read in milivolts mv=Volts x1000

Other Calibrations and Checks

Sensor	Time	Standard(s) Value	Source & Lot	Expiration Date	Meter Reading	Acceptance Criteria
Spec Cond		4.49 ms/cm	Atlas Cal 96H723	10/20	4.55	± 5%
pH		4.0	↓	↓	4.0	± 0.2
ORP		—	↓	↓	—	±10 mV
Turbidity		0 NTU	↓	↓	0.0	0.1 – 10 ±10% 11-40 ±8%
Additional Checks						
Spec Cond						± 5%
pH						± 0.2
ORP						±10 mV
Turbidity						0.1 – 10 ±10% 11-40 ±8%

Signature _____ Print Nicholas Gabe Date 7/15/20

Appendix B
Investigation Derived Waste Documentation

Contained-In Approval

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Materials Management, Bureau of Hazardous Waste and Radiation Management
625 Broadway, 9th Floor, Albany, New York 12233-7256
P: (518) 402-8651 | F: (518) 402-9024
www.dec.ny.gov

December 1, 2020

Sent via e-mail, no hard copy to follow

Mr. Bry Roberson, CHMM
Vice President, Compliance Services
ENSAFE
220 Athens Way, Suite 410
Nashville, TN 37228

Re: "Contained-In" Determination Request for Investigation-Derived Waste Purge Water
Former Carrier Carlyle Compressor Site — Syracuse, New York
NYSDEC Site Code — 734068

Dear Mr. Roberson:

The New York State Department of Environmental Conservation (NYSDEC or the Department) has reviewed your letter dated November 23, 2020, requesting a "contained-in" determination for Investigation-Derived Waste Purge Water at Former Carrier Carlyle Compressor Site — Syracuse, New York.

Purge Water Evaluation

Concentrations (Lab Sample ID: JD10241-9 and JD10241-12) detected for individual volatile organic compounds (VOCs) were all less than their current NYSDEC "contained in" groundwater action levels and Land Disposal Restriction concentrations. Most of the individual VOCs were not detected above the reporting limit.

Concentrations for trichloroethene and 1,1,1-trichloroethane detected in the water sample (Lab Sample ID: JD10241-9 and JD10241-12) were below the groundwater "contained-in" action level and the Land Disposal Restriction concentration. Therefore, two (2) drums containing purge water do not have to be managed as a hazardous waste and can be transported off-site to permitted industrial wastewater or to a POTW for proper disposal as non-hazardous waste.

Should you have any questions regarding the content of this letter, please do not hesitate to contact me at (518) 402-9611 or email me at henry.wilkie@dec.ny.gov.

Sincerely,

Henry Wilkie
Assistant Environmental Engineer
RCRA Permitting Section

ec: T. Smith, DEC
D. Sorbello, Carrier Corporation

IDW Manifest

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
NA	1		014254548 FLE

GENERATOR

5. Generator's Name and Mailing Address
Carrier Corporation
6500 New Venture Gear Drive East Syracuse, NY 13057

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name
US Industrial Technologies, Inc.

U.S. EPA ID Number
MIR 000 022 772

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
US Industrial Technologies, Inc.
12000 Oneil Street Livonia, MI 48150

U.S. EPA ID Number

Facility's Phone: 734-462-7100

MIR 000 022 772

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. Non RCRA / Non DOT Regulated (Aqueous)		DM		G	
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1) CCJN-120220-01

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Shane Goodnight As Agent for Carrier Corporation
Signature:
Month: 12 Day: 4 Year: 20

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Signature: Month: Day: Year:

Transporter 2 Printed/Typed Name: Signature: Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Signature: Month: Day: Year:

Appendix C
Laboratory Analytical Reports

VOC Lab Report

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Ensafe, Inc

Former Carlysle Compressor, Syracuse, NY

Carrier Corporation 888814574 Phase:006

SGS Job Number: JD10241

Sampling Dates: 07/14/20 - 07/15/20



Report to:

Ensafe, Inc
5724 Summer Trees Drive
Memphis, TN 38134
MHeflin@Ensafe.com; Nelson.Wong@Carrier.UTC.com;
TCantwell@Ensafe.com; SGoodnight@Ensafe.com;
ATTN: May Heflin

Total number of pages in report: 339

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Hemex Patel
Appointed Deputy for GM

Client Service contact: Beth Wasserman 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TX, UT, VA, WV, DoD ELAP (ANAB L2248)

This report shall not be reproduced, except in its entirety, without the written approval of SGS.
Test results relate only to samples analyzed.

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Unauthorized modification of this report is strictly prohibited.
Review standard terms at: http://www.sgs.com/en/terms-and-conditions

Please share your ideas about
how we can serve you better at:
EHS.US.CustomerCare@sgs.com

August 05, 2020

Ms. May Heflin
Ensafe, Inc.
5724 Summer Trees Drive
Memphis, TN 38134

RE: SGS – Dayton, Job # JD10241– Reissues

Dear Ms. Heflin,

The final report for SGS jobs number JD10241 has been edited to reflect corrections to the final results. These edits have been incorporated into the revised report which is attached.

Specifically, this report has been upgraded to full deliverable report to including all associated QCs raw data. The attached revised report incorporates these revisions.

SGS apologizes for this occurrence and for any inconvenience this situation may have caused. Please contact me if I can be of further assistance in this matter.

Sincerely,

Report Department

SGS North America Inc.



CONTINUOUS SERVICE IMPROVEMENT!

Our goal is to continuously improve our service to you. Please share your ideas about how we can serve you better at EHS.US.CustomerCare@sgs.com. Your feedback is appreciated!

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SGS North America Inc.

Sample Summary

Ensafe, Inc

Job No: JD10241

Former Carlysle Compressor, Syracuse, NY
Project No: Carrier Corporation 888814574 Phase:006

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
This report contains results reported as ND = Not detected. The following applies:							
Organics ND = Not detected above the MDL							
JD10241-1	07/15/20	10:40	MG	07/16/20	AQ	Ground Water	CC1MW01G0720
JD10241-1R	07/15/20	10:40	MG	07/16/20	AQ	Ground Water	CC1MW01G0720
JD10241-2	07/15/20	12:35	MG	07/16/20	AQ	Ground Water	CC1MW106G0720
JD10241-3	07/15/20	08:35	MG	07/16/20	AQ	Ground Water	CC1MW107G0720
JD10241-4	07/15/20	08:40	MG	07/16/20	AQ	Ground Water	CC1MW107H0720
JD10241-5	07/15/20	15:00	MG	07/16/20	AQ	Ground Water	CC1MW13DG0720
JD10241-6	07/15/20	14:25	MG	07/16/20	AQ	Surface Water	CC1MWSB2G0720
JD10241-7	07/14/20	13:55	MG	07/16/20	AQ	Surface Water	CC1STSW0720
JD10241-8	07/14/20	13:45	MG	07/16/20	AQ	Surface Water	CC1SDSW0720
JD10241-9	07/15/20	15:20	MG	07/16/20	AQ	Ground Water	CC1IDW01Z0720
JD10241-10	07/15/20	15:25	MG	07/16/20	AQ	Trip Blank Water	CC1TB01T0720
JD10241-11	07/15/20	13:10	MG	07/16/20	AQ	Field Blank Water	CC1FB01F0720

Sample Summary
(continued)

Ensafe, Inc

Job No: JD10241

Former Carlysle Compressor, Syracuse, NY
Project No: Carrier Corporation 888814574 Phase:006

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
JD10241-12	07/15/20	15:25	MG	07/16/20	AQ	Ground Water	CC1IDW02Z0720

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Ensafe, Inc	**Job No**	JD10241
Site:	Former Carlysle Compressor, Syracuse, NY	**Report Date**	8/5/2020 1:24:47 PM

On 07/16/2020, 10 Sample(s), 1 Trip Blank(s) and 1 Field Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of 3.6 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JD10241 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

MS Volatiles By Method SW846 8260C

Matrix: AQ **Batch ID:** V2E8165

- All samples were analyzed within the recommended method holding time.
- Sample(s) JD10196-7MS, JD10196-7MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike / Matrix Spike Duplicate Recovery(s) for Trichloroethene: are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- JD10241-5: Dilution required due to high concentration of target compound.

Matrix: AQ **Batch ID:** V4D4597

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD10241-2MS, JD10241-2MSD were used as the QC samples indicated.
- Blank Spike Recovery(s) for 1,2-Dibromoethane are outside control limits. High percent recovery and no associated positive reported in the QC batch.
- Matrix Spike Recovery(s) for 1,2-Dibromoethane are outside control limits.
- RPD(s) for MSD for Bromomethane are outside control limits for sample JD10241-2MSD. Outside control limits due to matrix interference.
- JD10241-2 for 1,2-Dibromoethane: Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
- JD10241-2 for Bromomethane: Associated CCV outside of control limits low.
- JD10241-7 for 1,2-Dibromoethane: Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
- JD10241-7 for Bromomethane: Associated CCV outside of control limits low.
- JD10241-8 for 1,2-Dibromoethane: Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
- JD10241-8 for Bromomethane: Associated CCV outside of control limits low.

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS North America Inc indicated via signature on the report cover

Summary of Hits

Job Number: JD10241
Account: Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY
Collected: 07/14/20 thru 07/15/20

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD10241-1	**CC1MW01G0720**					
No hits reported in this sample.						
JD10241-2	**CC1MW106G0720**					
1,1-Dichloroethane		11.4	1.0	0.57	ug/l	SW846 8260C
1,1-Dichloroethene		0.74 J	1.0	0.59	ug/l	SW846 8260C
1,1,1-Trichloroethane		2.6	1.0	0.54	ug/l	SW846 8260C
Vinyl chloride		0.88 J	1.0	0.79	ug/l	SW846 8260C
JD10241-3	**CC1MW107G0720**					
1,1-Dichloroethane		12.0	1.0	0.57	ug/l	SW846 8260C
cis-1,2-Dichloroethene		31.8	1.0	0.51	ug/l	SW846 8260C
Vinyl chloride		3.6	1.0	0.79	ug/l	SW846 8260C
JD10241-4	**CC1MW107H0720**					
1,1-Dichloroethane		12.6	1.0	0.57	ug/l	SW846 8260C
cis-1,2-Dichloroethene		33.7	1.0	0.51	ug/l	SW846 8260C
Vinyl chloride		3.6	1.0	0.79	ug/l	SW846 8260C
JD10241-5	**CC1MW13DG0720**					
1,1-Dichloroethane [a]		65.7	10	5.7	ug/l	SW846 8260C
1,1-Dichloroethene [a]		9.9 J	10	5.9	ug/l	SW846 8260C
cis-1,2-Dichloroethene [a]		1420	10	5.1	ug/l	SW846 8260C
trans-1,2-Dichloroethene [a]		9.2 J	10	5.4	ug/l	SW846 8260C
Trichloroethene [a]		32.5	10	5.3	ug/l	SW846 8260C
Vinyl chloride [a]		207	10	7.9	ug/l	SW846 8260C
JD10241-6	**CC1MWSB2G0720**					
1,1-Dichloroethane		23.5	1.0	0.57	ug/l	SW846 8260C
cis-1,2-Dichloroethene		58.1	1.0	0.51	ug/l	SW846 8260C
trans-1,2-Dichloroethene		4.6	1.0	0.54	ug/l	SW846 8260C
Toluene		0.70 J	1.0	0.53	ug/l	SW846 8260C
Vinyl chloride		281	10	7.9	ug/l	SW846 8260C
JD10241-7	**CC1STSW0720**					
Acetone		18.2	10	6.0	ug/l	SW846 8260C
1,1-Dichloroethane		19.1	1.0	0.57	ug/l	SW846 8260C
1,1-Dichloroethene		4.3	1.0	0.59	ug/l	SW846 8260C

Summary of Hits

Job Number: JD10241
Account: Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY
Collected: 07/14/20 thru 07/15/20

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
cis-1,2-Dichloroethene		184	20	10	ug/l	SW846 8260C
trans-1,2-Dichloroethene		0.71 J	1.0	0.54	ug/l	SW846 8260C
1,1,1-Trichloroethane		15.0	1.0	0.54	ug/l	SW846 8260C
Trichloroethene		17.0	1.0	0.53	ug/l	SW846 8260C
Vinyl chloride		29.9	1.0	0.79	ug/l	SW846 8260C
JD10241-8	**CC1SDSW0720**					
Acetone		15.1	10	6.0	ug/l	SW846 8260C
1,1-Dichloroethane		9.6	1.0	0.57	ug/l	SW846 8260C
1,1-Dichloroethene		1.8	1.0	0.59	ug/l	SW846 8260C
cis-1,2-Dichloroethene		119	1.0	0.51	ug/l	SW846 8260C
1,1,1-Trichloroethane		6.6	1.0	0.54	ug/l	SW846 8260C
Trichloroethene		16.6	1.0	0.53	ug/l	SW846 8260C
Vinyl chloride		12.3	1.0	0.79	ug/l	SW846 8260C
JD10241-9	**CC1IDW01Z0720**					
cis-1,2-Dichloroethene		0.58 J	1.0	0.51	ug/l	SW846 8260C
JD10241-10	**CC1TB01T0720**					
No hits reported in this sample.						
JD10241-11	**CC1FB01F0720**					
No hits reported in this sample.						
JD10241-12	**CC1IDW02Z0720**					
1,1-Dichloroethane		5.7	1.0	0.57	ug/l	SW846 8260C
cis-1,2-Dichloroethene		79.7	1.0	0.51	ug/l	SW846 8260C
Trichloroethene		1.3	1.0	0.53	ug/l	SW846 8260C
Vinyl chloride		10.8	1.0	0.79	ug/l	SW846 8260C

(a) Dilution required due to high concentration of target compound.

Sample Results

Report of Analysis

SGS North America Inc.

Report of Analysis

Client Sample ID:	CC1MW01G0720		
Lab Sample ID:	JD10241-1	**Date Sampled:**	07/15/20
Matrix:	AQ - Ground Water	**Date Received:**	07/16/20
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Former Carlysle Compressor, Syracuse, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E162985.D	1	07/20/20 19:20	KC	n/a	n/a	V2E8165
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	6.0	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.55	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	6.9	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.52	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.62	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.69	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.63	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.60	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.2	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.4	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.43	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CC1MW01G0720		
Lab Sample ID:	JD10241-1	**Date Sampled:**	07/15/20
Matrix:	AQ - Ground Water	**Date Received:**	07/16/20
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Former Carlysle Compressor, Syracuse, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
594-20-7	2,2-Dichloropropane	ND	1.0	0.52	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.82	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.56	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.66	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.48	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	2.5	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.60	ug/l	
100-42-5	Styrene	ND	1.0	0.70	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.90	ug/l	
108-88-3	Toluene	ND	1.0	0.53	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.84	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		80-120%
17060-07-0	1,2-Dichloroethane-D4	100%		81-124%
2037-26-5	Toluene-D8	98%		80-120%
460-00-4	4-Bromofluorobenzene	98%		80-120%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	CC1MW106G0720		
Lab Sample ID:	JD10241-2	**Date Sampled:**	07/15/20
Matrix:	AQ - Ground Water	**Date Received:**	07/16/20
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Former Carlysle Compressor, Syracuse, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D103630.D	1	07/27/20 11:13	KC	n/a	n/a	V4D4597
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	6.0	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.55	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane [a]	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	6.9	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.52	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.62	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.69	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.63	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.60	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.2	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane [b]	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.4	ug/l	
75-34-3	1,1-Dichloroethane	11.4	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	0.74	1.0	0.59	ug/l	J
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.43	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CC1MW106G0720		
Lab Sample ID:	JD10241-2	**Date Sampled:**	07/15/20
Matrix:	AQ - Ground Water	**Date Received:**	07/16/20
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Former Carlysle Compressor, Syracuse, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
594-20-7	2,2-Dichloropropane	ND	1.0	0.52	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.82	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.56	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.66	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.48	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	2.5	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.60	ug/l	
100-42-5	Styrene	ND	1.0	0.70	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.90	ug/l	
108-88-3	Toluene	ND	1.0	0.53	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	2.6	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.84	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	1.0	ug/l	
75-01-4	Vinyl chloride	0.88	1.0	0.79	ug/l	J
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		80-120%
17060-07-0	1,2-Dichloroethane-D4	92%		81-124%
2037-26-5	Toluene-D8	100%		80-120%
460-00-4	4-Bromofluorobenzene	96%		80-120%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CC1MW106G0720		
Lab Sample ID:	JD10241-2	**Date Sampled:**	07/15/20
Matrix:	AQ - Ground Water	**Date Received:**	07/16/20
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Former Carlysle Compressor, Syracuse, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q

(a) Associated CCV outside of control limits low.
(b) Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	CC1MW107G0720		
Lab Sample ID:	JD10241-3	**Date Sampled:**	07/15/20
Matrix:	AQ - Ground Water	**Date Received:**	07/16/20
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Former Carlysle Compressor, Syracuse, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E162986.D	1	07/20/20 19:50	KC	n/a	n/a	V2E8165
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	6.0	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.55	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	6.9	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.52	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.62	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.69	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.63	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.60	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.2	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.4	ug/l	
75-34-3	1,1-Dichloroethane	12.0	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	31.8	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.43	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CC1MW107G0720		
Lab Sample ID:	JD10241-3	**Date Sampled:**	07/15/20
Matrix:	AQ - Ground Water	**Date Received:**	07/16/20
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Former Carlysle Compressor, Syracuse, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
594-20-7	2,2-Dichloropropane	ND	1.0	0.52	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.82	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.56	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.66	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.48	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	2.5	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.60	ug/l	
100-42-5	Styrene	ND	1.0	0.70	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.90	ug/l	
108-88-3	Toluene	ND	1.0	0.53	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.84	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	1.0	ug/l	
75-01-4	Vinyl chloride	3.6	1.0	0.79	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		80-120%
17060-07-0	1,2-Dichloroethane-D4	101%		81-124%
2037-26-5	Toluene-D8	98%		80-120%
460-00-4	4-Bromofluorobenzene	100%		80-120%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	CC1MW107H0720		
Lab Sample ID:	JD10241-4	**Date Sampled:**	07/15/20
Matrix:	AQ - Ground Water	**Date Received:**	07/16/20
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Former Carlysle Compressor, Syracuse, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E162987.D	1	07/20/20 20:20	KC	n/a	n/a	V2E8165
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	6.0	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.55	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	6.9	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.52	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.62	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.69	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.63	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.60	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.2	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.4	ug/l	
75-34-3	1,1-Dichloroethane	12.6	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	33.7	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.43	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CC1MW107H0720		
Lab Sample ID:	JD10241-4	**Date Sampled:**	07/15/20
Matrix:	AQ - Ground Water	**Date Received:**	07/16/20
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Former Carlysle Compressor, Syracuse, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
594-20-7	2,2-Dichloropropane	ND	1.0	0.52	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.82	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.56	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.66	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.48	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	2.5	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.60	ug/l	
100-42-5	Styrene	ND	1.0	0.70	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.90	ug/l	
108-88-3	Toluene	ND	1.0	0.53	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.84	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	1.0	ug/l	
75-01-4	Vinyl chloride	3.6	1.0	0.79	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		80-120%
17060-07-0	1,2-Dichloroethane-D4	101%		81-124%
2037-26-5	Toluene-D8	100%		80-120%
460-00-4	4-Bromofluorobenzene	98%		80-120%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	CC1MW13DG0720		
Lab Sample ID:	JD10241-5	**Date Sampled:**	07/15/20
Matrix:	AQ - Ground Water	**Date Received:**	07/16/20
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Former Carlysle Compressor, Syracuse, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	2E162991.D	10	07/20/20 22:19	KC	n/a	n/a	V2E8165
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	100	60	ug/l	
71-43-2	Benzene	ND	5.0	4.3	ug/l	
108-86-1	Bromobenzene	ND	10	5.5	ug/l	
74-97-5	Bromochloromethane	ND	10	4.8	ug/l	
75-27-4	Bromodichloromethane	ND	10	5.8	ug/l	
75-25-2	Bromoform	ND	10	6.3	ug/l	
74-83-9	Bromomethane	ND	20	16	ug/l	
78-93-3	2-Butanone (MEK)	ND	100	69	ug/l	
104-51-8	n-Butylbenzene	ND	20	5.2	ug/l	
135-98-8	sec-Butylbenzene	ND	20	6.2	ug/l	
98-06-6	tert-Butylbenzene	ND	20	6.9	ug/l	
56-23-5	Carbon tetrachloride	ND	10	5.5	ug/l	
108-90-7	Chlorobenzene	ND	10	5.6	ug/l	
75-00-3	Chloroethane	ND	10	7.3	ug/l	
67-66-3	Chloroform	ND	10	5.0	ug/l	
74-87-3	Chloromethane	ND	10	7.6	ug/l	
95-49-8	o-Chlorotoluene	ND	20	6.3	ug/l	
106-43-4	p-Chlorotoluene	ND	20	6.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	20	12	ug/l	
124-48-1	Dibromochloromethane	ND	10	5.6	ug/l	
106-93-4	1,2-Dibromoethane	ND	10	4.8	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	10	5.3	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	10	5.4	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	10	5.1	ug/l	
75-71-8	Dichlorodifluoromethane	ND	20	14	ug/l	
75-34-3	1,1-Dichloroethane	65.7	10	5.7	ug/l	
107-06-2	1,2-Dichloroethane	ND	10	6.0	ug/l	
75-35-4	1,1-Dichloroethene	9.9	10	5.9	ug/l	J
156-59-2	cis-1,2-Dichloroethene	1420	10	5.1	ug/l	
156-60-5	trans-1,2-Dichloroethene	9.2	10	5.4	ug/l	J
78-87-5	1,2-Dichloropropane	ND	10	5.1	ug/l	
142-28-9	1,3-Dichloropropane	ND	10	4.3	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CC1MW13DG0720		
Lab Sample ID:	JD10241-5	**Date Sampled:**	07/15/20
Matrix:	AQ - Ground Water	**Date Received:**	07/16/20
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Former Carlysle Compressor, Syracuse, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
594-20-7	2,2-Dichloropropane	ND	10	5.2	ug/l	
563-58-6	1,1-Dichloropropene	ND	10	8.2	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	10	4.7	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	10	4.3	ug/l	
100-41-4	Ethylbenzene	ND	10	6.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	20	5.6	ug/l	
98-82-8	Isopropylbenzene	ND	10	6.5	ug/l	
99-87-6	p-Isopropyltoluene	ND	20	6.6	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	10	5.1	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	50	19	ug/l	
74-95-3	Methylene bromide	ND	10	4.8	ug/l	
75-09-2	Methylene chloride	ND	20	10	ug/l	
91-20-3	Naphthalene	ND	50	25	ug/l	
103-65-1	n-Propylbenzene	ND	20	6.0	ug/l	
100-42-5	Styrene	ND	10	7.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	10	6.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	10	6.5	ug/l	
127-18-4	Tetrachloroethene	ND	10	9.0	ug/l	
108-88-3	Toluene	ND	10	5.3	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	10	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	10	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	10	5.4	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	10	5.3	ug/l	
79-01-6	Trichloroethene	32.5	10	5.3	ug/l	
75-69-4	Trichlorofluoromethane	ND	20	8.4	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	20	7.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	20	10	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	20	10	ug/l	
75-01-4	Vinyl chloride	207	10	7.9	ug/l	
	m,p-Xylene	ND	10	7.8	ug/l	
95-47-6	o-Xylene	ND	10	5.9	ug/l	
1330-20-7	Xylene (total)	ND	10	5.9	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		80-120%
17060-07-0	1,2-Dichloroethane-D4	100%		81-124%
2037-26-5	Toluene-D8	99%		80-120%
460-00-4	4-Bromofluorobenzene	99%		80-120%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CC1MW13DG0720		
Lab Sample ID:	JD10241-5	**Date Sampled:**	07/15/20
Matrix:	AQ - Ground Water	**Date Received:**	07/16/20
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Former Carlysle Compressor, Syracuse, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q

(a) Dilution required due to high concentration of target compound.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	CC1MWSB2G0720		
Lab Sample ID:	JD10241-6	**Date Sampled:**	07/15/20
Matrix:	AQ - Surface Water	**Date Received:**	07/16/20
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Former Carlysle Compressor, Syracuse, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E162988.D	1	07/20/20 20:50	KC	n/a	n/a	V2E8165
Run #2	4D103633.D	10	07/27/20 12:41	KC	n/a	n/a	V4D4597

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	6.0	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.55	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	6.9	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.52	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.62	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.69	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.63	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.60	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.2	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.4	ug/l	
75-34-3	1,1-Dichloroethane	23.5	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	58.1	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	4.6	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.43	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CC1MWSB2G0720		
Lab Sample ID:	JD10241-6	**Date Sampled:**	07/15/20
Matrix:	AQ - Surface Water	**Date Received:**	07/16/20
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Former Carlysle Compressor, Syracuse, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
594-20-7	2,2-Dichloropropane	ND	1.0	0.52	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.82	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.56	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.66	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.48	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	2.5	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.60	ug/l	
100-42-5	Styrene	ND	1.0	0.70	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.90	ug/l	
108-88-3	Toluene	0.70	1.0	0.53	ug/l	J
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.84	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	1.0	ug/l	
75-01-4	Vinyl chloride	281 [a]	10	7.9	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%	107%	80-120%
17060-07-0	1,2-Dichloroethane-D4	99%	98%	81-124%
2037-26-5	Toluene-D8	99%	99%	80-120%
460-00-4	4-Bromofluorobenzene	100%	97%	80-120%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CC1MWSB2G0720		
Lab Sample ID:	JD10241-6	**Date Sampled:**	07/15/20
Matrix:	AQ - Surface Water	**Date Received:**	07/16/20
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Former Carlysle Compressor, Syracuse, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	CC1STSW0720		
Lab Sample ID:	JD10241-7	**Date Sampled:**	07/14/20
Matrix:	AQ - Surface Water	**Date Received:**	07/16/20
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Former Carlysle Compressor, Syracuse, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D103631.D	1	07/27/20 11:42	KC	n/a	n/a	V4D4597
Run #2	2E162992.D	20	07/20/20 22:49	KC	n/a	n/a	V2E8165

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	18.2	10	6.0	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.55	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane [a]	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	6.9	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.52	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.62	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.69	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.63	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.60	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.2	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane [b]	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.4	ug/l	
75-34-3	1,1-Dichloroethane	19.1	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	4.3	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	184 [c]	20	10	ug/l	
156-60-5	trans-1,2-Dichloroethene	0.71	1.0	0.54	ug/l	J
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.43	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CC1STSW0720		
Lab Sample ID:	JD10241-7	**Date Sampled:**	07/14/20
Matrix:	AQ - Surface Water	**Date Received:**	07/16/20
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Former Carlysle Compressor, Syracuse, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
594-20-7	2,2-Dichloropropane	ND	1.0	0.52	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.82	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.56	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.66	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.48	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	2.5	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.60	ug/l	
100-42-5	Styrene	ND	1.0	0.70	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.90	ug/l	
108-88-3	Toluene	ND	1.0	0.53	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	15.0	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	17.0	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.84	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	1.0	ug/l	
75-01-4	Vinyl chloride	29.9	1.0	0.79	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%	99%	80-120%
17060-07-0	1,2-Dichloroethane-D4	95%	100%	81-124%
2037-26-5	Toluene-D8	100%	98%	80-120%
460-00-4	4-Bromofluorobenzene	96%	99%	80-120%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CC1STSW0720		
Lab Sample ID:	JD10241-7	**Date Sampled:**	07/14/20
Matrix:	AQ - Surface Water	**Date Received:**	07/16/20
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Former Carlysle Compressor, Syracuse, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q

(a) Associated CCV outside of control limits low.
(b) Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
(c) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	CC1SDSW0720		
Lab Sample ID:	JD10241-8	**Date Sampled:**	07/14/20
Matrix:	AQ - Surface Water	**Date Received:**	07/16/20
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Former Carlysle Compressor, Syracuse, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D103632.D	1	07/27/20 12:11	KC	n/a	n/a	V4D4597
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	15.1	10	6.0	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.55	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane [a]	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	6.9	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.52	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.62	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.69	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.63	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.60	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.2	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane [b]	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.4	ug/l	
75-34-3	1,1-Dichloroethane	9.6	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	1.8	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	119	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.43	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CC1SDSW0720		
Lab Sample ID:	JD10241-8	**Date Sampled:**	07/14/20
Matrix:	AQ - Surface Water	**Date Received:**	07/16/20
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Former Carlysle Compressor, Syracuse, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
594-20-7	2,2-Dichloropropane	ND	1.0	0.52	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.82	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.56	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.66	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.48	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	2.5	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.60	ug/l	
100-42-5	Styrene	ND	1.0	0.70	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.90	ug/l	
108-88-3	Toluene	ND	1.0	0.53	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	6.6	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	16.6	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.84	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	1.0	ug/l	
75-01-4	Vinyl chloride	12.3	1.0	0.79	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		80-120%
17060-07-0	1,2-Dichloroethane-D4	95%		81-124%
2037-26-5	Toluene-D8	100%		80-120%
460-00-4	4-Bromofluorobenzene	95%		80-120%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CC1SDSW0720		
Lab Sample ID:	JD10241-8	**Date Sampled:**	07/14/20
Matrix:	AQ - Surface Water	**Date Received:**	07/16/20
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Former Carlysle Compressor, Syracuse, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q

(a) Associated CCV outside of control limits low.
(b) Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	CC1IDW01Z0720		
Lab Sample ID:	JD10241-9	**Date Sampled:**	07/15/20
Matrix:	AQ - Ground Water	**Date Received:**	07/16/20
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Former Carlysle Compressor, Syracuse, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E162989.D	1	07/20/20 21:19	KC	n/a	n/a	V2E8165
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	6.0	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.55	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	6.9	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.52	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.62	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.69	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.63	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.60	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.2	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.4	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	0.58	1.0	0.51	ug/l	J
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.43	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CC1IDW01Z0720		
Lab Sample ID:	JD10241-9	**Date Sampled:**	07/15/20
Matrix:	AQ - Ground Water	**Date Received:**	07/16/20
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Former Carlysle Compressor, Syracuse, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
594-20-7	2,2-Dichloropropane	ND	1.0	0.52	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.82	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.56	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.66	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.48	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	2.5	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.60	ug/l	
100-42-5	Styrene	ND	1.0	0.70	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.90	ug/l	
108-88-3	Toluene	ND	1.0	0.53	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.84	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		80-120%
17060-07-0	1,2-Dichloroethane-D4	100%		81-124%
2037-26-5	Toluene-D8	98%		80-120%
460-00-4	4-Bromofluorobenzene	99%		80-120%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	CC1TB01T0720		
Lab Sample ID:	JD10241-10	**Date Sampled:**	07/15/20
Matrix:	AQ - Trip Blank Water	**Date Received:**	07/16/20
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Former Carlysle Compressor, Syracuse, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E162983.D	1	07/20/20 18:20	KC	n/a	n/a	V2E8165
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	6.0	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.55	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	6.9	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.52	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.62	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.69	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.63	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.60	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.2	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.4	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.43	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CC1TB01T0720		
Lab Sample ID:	JD10241-10	**Date Sampled:**	07/15/20
Matrix:	AQ - Trip Blank Water	**Date Received:**	07/16/20
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Former Carlysle Compressor, Syracuse, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
594-20-7	2,2-Dichloropropane	ND	1.0	0.52	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.82	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.56	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.66	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.48	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	2.5	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.60	ug/l	
100-42-5	Styrene	ND	1.0	0.70	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.90	ug/l	
108-88-3	Toluene	ND	1.0	0.53	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.84	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		80-120%
17060-07-0	1,2-Dichloroethane-D4	100%		81-124%
2037-26-5	Toluene-D8	99%		80-120%
460-00-4	4-Bromofluorobenzene	100%		80-120%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	CC1FB01F0720		
Lab Sample ID:	JD10241-11	**Date Sampled:**	07/15/20
Matrix:	AQ - Field Blank Water	**Date Received:**	07/16/20
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Former Carlysle Compressor, Syracuse, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E162984.D	1	07/20/20 18:50	KC	n/a	n/a	V2E8165
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	6.0	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.55	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	6.9	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.52	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.62	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.69	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.63	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.60	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.2	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.4	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.43	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CC1FB01F0720		
Lab Sample ID:	JD10241-11	**Date Sampled:**	07/15/20
Matrix:	AQ - Field Blank Water	**Date Received:**	07/16/20
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Former Carlysle Compressor, Syracuse, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
594-20-7	2,2-Dichloropropane	ND	1.0	0.52	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.82	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.56	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.66	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.48	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	2.5	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.60	ug/l	
100-42-5	Styrene	ND	1.0	0.70	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.90	ug/l	
108-88-3	Toluene	ND	1.0	0.53	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.84	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		80-120%
17060-07-0	1,2-Dichloroethane-D4	99%		81-124%
2037-26-5	Toluene-D8	99%		80-120%
460-00-4	4-Bromofluorobenzene	100%		80-120%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	CC1IDW02Z0720		
Lab Sample ID:	JD10241-12	**Date Sampled:**	07/15/20
Matrix:	AQ - Ground Water	**Date Received:**	07/16/20
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Former Carlysle Compressor, Syracuse, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E162990.D	1	07/20/20 21:49	KC	n/a	n/a	V2E8165
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	6.0	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.55	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	6.9	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.52	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.62	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.69	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.63	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.60	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.2	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.4	ug/l	
75-34-3	1,1-Dichloroethane	5.7	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	79.7	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.43	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CC1IDW02Z0720		
Lab Sample ID:	JD10241-12	**Date Sampled:**	07/15/20
Matrix:	AQ - Ground Water	**Date Received:**	07/16/20
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Former Carlysle Compressor, Syracuse, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
594-20-7	2,2-Dichloropropane	ND	1.0	0.52	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.82	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.56	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.66	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.48	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	2.5	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.60	ug/l	
100-42-5	Styrene	ND	1.0	0.70	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.90	ug/l	
108-88-3	Toluene	ND	1.0	0.53	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	1.3	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.84	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	1.0	ug/l	
75-01-4	Vinyl chloride	10.8	1.0	0.79	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		80-120%
17060-07-0	1,2-Dichloroethane-D4	101%		81-124%
2037-26-5	Toluene-D8	99%		80-120%
460-00-4	4-Bromofluorobenzene	99%		80-120%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody

1709 6391 1011 ISW-0635-20-144 JD10241

CHAIN OF CUSTODY AND ANALYTICAL REQUEST RECORD

ENSAFE

EnSafe Inc.
800-588-7962

COC No: YT1001 REQUEST REC... Page: 1 of 1

Project Name: UTC - Former Carlysle Compressor (Syracuse, NY) PO No: Project No: 888814574 Phase: 006

Site Location: Syracuse, New York

Send Results To: mheflin@ensafe.com; sgoodnight@ensafe.com; tclemmey@ensafe.com

Sampler/Site Phone# Marshall Gibson 603.770.4444

Lab Name: SGS New Jersey Turnaround Time(specify): Standard

Sample Analysis Requested (*Enter number of containers for each test*)

Lab ID	Sample ID (sys_samp_code)	Location ID (sys_loc_code)	(mm/dd/yy)	Time (Military) (hhmm)	Matrix Code (1)	Sample Type (2)	Field Filtered (Y/N)	(3)→ Total No. of Containers	VOCs - 8260C	Extra Volume for MS/MSD	HOLD
1	CC1MW01G0720	MW01	7/15/2020	1040	WG	N	N	3	x		
2	CC1MW106G0720	MW106	7/15/2020	1235	WG	N	N	9	x	x	
3	CC1MW107G0720	MW107	7/15/2020	0835	WG	N	N	3	x		
4	CC1MW107H0720	MW107	7/15/2020	0840	FD WG	N	N	3	x		
5	CC1MW13DG0720	MW13D	7/15/2020	1500	WG	N	N	3	x		
6	CC1MWSB2W0720	MWSB2	7/15/2020	1435	WS	N	N	3	x		
7	CC1STSW0720	—	7/14/2020	1355	WS	N	N	3	x		
8	CC1SDSW0720	—	7/14/2020	1345	WS	N	N	3	x		
9	CC1IDW01Z0720	—	7/ /2020	1520	WG	N	N	3	X		
10	CC1TB01T0720	—	6/25/20	—	WQ WG	TB	N	2	X		
11	CC1FB01F0720	MW106	7/15/20	1330	WQ WG	FB	N	3	X		
12	CC1IDW02Z0720	—	7/15/20	1525	WG	N	N	3	X		

Initial Assessment JB

***Field* Comments:** Label Verification_____

***Lab* Comments:**

Sample Shipment and Delivery Details

Number of coolers in shipment:

Samples Iced?(check) Yes ✓ No____

Method of Shipment: 3.9°C JD

Airbill No:

Date Shipped:

	Relinquished by (signature)	Date	Time	Received by (signature)	Date	Time
1		7/15/20	1530		7/15/20	15:30
2		7/15/20	1710	Fed Ex		
3	Rel. Fed Ex	7/16/2020	0810			

(1) Matrix Code: AA=Air, AQ=Air QC Matrix, CK=Caulk, GS=Soil Gas, LP=Free Product, LH=Liquid Waste, MS=Mastic, OB=Oil, PT=Paint, SC=Cement/Concrete, SE=Sediment, SF=Filter Sandpack, SL=Sludge, SM=Miscellaneous Solid/Building Materials, SO=Soil, SQ=Soil/Solid QC Matrix, ST=Solid Waste, SW=Swab/Wipe, TA=Animal Tissue, TP=Plant Tissue, WG=Ground Water, WL=Leachate, WO=Ocean Water, WP=Drinking Water, WQ=Water QC Matrix, WS=Surface Water, SU=Storm Water, WW=Waste Water

(2) Sample Type: AB=Ambient Blank, EB=Equipment Blank, FB=Field Blank, FD=Field Duplicate Sample, FR=Field Replicate, MB=Material Blank, N=Normal Environmental Sample, RB=Material Rinse Blank, TB=Trip Blank

(3) Preservative added: HA=Hydrochloric Acid, NI=Nitric Acid, SH=Sodium Hydroxide, SA=Sulfuric Acid, AA=Ascorbic Acid, HX=Hexane, ME=Methanol, SB=Sodium bisulfate, ST=Sodium Thiosulfate, If NO preservative added leave blank

Rev. 12/12

IR-4

JD10241: Chain of Custody
Page 1 of 4

SGS Sample Receipt Summary

Job Number: JD10241 **Client:** ENSAFE **Project:** ENSTNN: FORMER CARLYSLE COMPRESSOR,

Date / Time Received: 7/16/2020 10:00:00 AM **Delivery Method:** **Airbill #'s:**

Cooler Temps (Raw Measured) °C: Cooler 1: (3.9);

Cooler Temps (Corrected) °C: Cooler 1: (3.6);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR Gun		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 229517 pH 12+: 208717 Other: (Specify)

Comments
-2 Received 3 of 9, 40mL HCL vials broken. No screen designated.
-8 Received 1 of 3, 40mL HCL vials broken. No screen designated.

SM089-02 Rev. Date 12/1/16

Responded to by: Beth Wasserman Response Date: 7/17/20

OK to proceed as noted.
Per Shane Goodnight

Job Change Order: JD10241

Requested Date:	8/5/2020	**Received Date:**	7/16/2020
Account Name:	Raytheon Technologies Corporati	**Due Date:**	7/30/2020
Project Description:	ENSTNN: Former Carlysle Compressor, Syracuse,	**Deliverable:**	COMMB
C/O Initiated By:	BW **PM:** BW	**TAT (Days):**	14

==========

Sample #: JD10241-All

Dept:

TAT: 14

Change:

Move to ENSCTN86805. Upgrade deliverable to FULT1 and reissue report.

==========

Above Changes Per: Shane Goodnight **Date/Time:** 8/5/2020 9:17:14 AM

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

JD10241: Chain of Custody

Page 4 of 4

Internal Sample Tracking Chronicle

Ensafe, Inc

Job No: JD10241

Former Carlysle Compressor, Syracuse, NY
Project No: Carrier Corporation 888814574 Phase:006

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD10241-1	Collected: 15-JUL-20 10:40 By: MG		Received: 16-JUL-20 By: JP			
CC1MW01G0720						
JD10241-1	SW846 8260C	20-JUL-20 19:20	KC			V8260STD
JD10241-2	Collected: 15-JUL-20 12:35 By: MG		Received: 16-JUL-20 By: JP			
CC1MW106G0720						
JD10241-2	SW846 8260C	27-JUL-20 11:13	KC			V8260STD
JD10241-3	Collected: 15-JUL-20 08:35 By: MG		Received: 16-JUL-20 By: JP			
CC1MW107G0720						
JD10241-3	SW846 8260C	20-JUL-20 19:50	KC			V8260STD
JD10241-4	Collected: 15-JUL-20 08:40 By: MG		Received: 16-JUL-20 By: JP			
CC1MW107H0720						
JD10241-4	SW846 8260C	20-JUL-20 20:20	KC			V8260STD
JD10241-5	Collected: 15-JUL-20 15:00 By: MG		Received: 16-JUL-20 By: JP			
CC1MW13DG0720						
JD10241-5	SW846 8260C	20-JUL-20 22:19	KC			V8260STD
JD10241-6	Collected: 15-JUL-20 14:25 By: MG		Received: 16-JUL-20 By: JP			
CC1MWSB2G0720						
JD10241-6	SW846 8260C	20-JUL-20 20:50	KC			V8260STD
JD10241-6	SW846 8260C	27-JUL-20 12:41	KC			V8260STD
JD10241-7	Collected: 14-JUL-20 13:55 By: MG		Received: 16-JUL-20 By: JP			
CC1STSW0720						
JD10241-7	SW846 8260C	20-JUL-20 22:49	KC			V8260STD
JD10241-7	SW846 8260C	27-JUL-20 11:42	KC			V8260STD
JD10241-8	Collected: 14-JUL-20 13:45 By: MG		Received: 16-JUL-20 By: JP			
CC1SDSW0720						

Internal Sample Tracking Chronicle

Ensafe, Inc

Job No: JD10241

Former Carlysle Compressor, Syracuse, NY
Project No: Carrier Corporation 888814574 Phase:006

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD10241-8	SW846 8260C	27-JUL-20 12:11	KC			V8260STD
JD10241-9	Collected: 15-JUL-20 15:20 By: MG CC1IDW01Z0720		Received: 16-JUL-20 By: JP			
JD10241-9	SW846 8260C	20-JUL-20 21:19	KC			V8260STD
JD10241-10	Collected: 15-JUL-20 15:25 By: MG CC1TB01T0720		Received: 16-JUL-20 By: JP			
JD10241-10	SW846 8260C	20-JUL-20 18:20	KC			V8260STD
JD10241-11	Collected: 15-JUL-20 13:10 By: MG CC1FB01F0720		Received: 16-JUL-20 By: JP			
JD10241-11	SW846 8260C	20-JUL-20 18:50	KC			V8260STD
JD10241-12	Collected: 15-JUL-20 15:25 By: MG CC1IDW02Z0720		Received: 16-JUL-20 By: JP			
JD10241-12	SW846 8260C	20-JUL-20 21:49	KC			V8260STD

SGS Internal Chain of Custody

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY
Received: 07/16/20

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD10241-1.1	Secured Storage	Krizhka Cuenta	07/20/20 13:38	Retrieve from Storage
JD10241-1.1	Krizhka Cuenta	GCMS2E	07/20/20 13:38	Load on Instrument
JD10241-1.1	GCMS2E	Krizhka Cuenta	07/21/20 08:08	Unload from Instrument
JD10241-1.1	Krizhka Cuenta	Secured Storage	07/21/20 08:08	Return to Storage
JD10241-2.1	Secured Storage	Krizhka Cuenta	07/24/20 17:02	Retrieve from Storage
JD10241-2.1	Krizhka Cuenta	GCMS2E	07/24/20 17:02	Load on Instrument
JD10241-2.1	GCMS2E	Krizhka Cuenta	07/27/20 08:42	Unload from Instrument
JD10241-2.1	Krizhka Cuenta	Secured Storage	07/27/20 08:42	Return to Storage
JD10241-2.2	Secured Storage	Krizhka Cuenta	07/27/20 11:31	Retrieve from Storage
JD10241-2.2	Krizhka Cuenta	GCMS4D	07/27/20 11:31	Load on Instrument
JD10241-2.2	GCMS4D	Krizhka Cuenta	07/28/20 15:34	Unload from Instrument
JD10241-2.2	Krizhka Cuenta	Secured Storage	07/28/20 15:34	Return to Storage
JD10241-2.3	Secured Storage	Krizhka Cuenta	07/27/20 11:38	Retrieve from Storage
JD10241-2.3	Krizhka Cuenta	GCMS4D	07/27/20 11:38	Load on Instrument
JD10241-2.3	GCMS4D	Krizhka Cuenta	07/28/20 15:34	Unload from Instrument
JD10241-2.3	Krizhka Cuenta	Secured Storage	07/28/20 15:34	Return to Storage
JD10241-2.4	Secured Storage	Krizhka Cuenta	07/27/20 11:38	Retrieve from Storage
JD10241-2.4	Krizhka Cuenta	GCMS4D	07/27/20 11:38	Load on Instrument
JD10241-2.4	GCMS4D	Krizhka Cuenta	07/28/20 15:34	Unload from Instrument
JD10241-2.4	Krizhka Cuenta	Secured Storage	07/28/20 15:34	Return to Storage
JD10241-3.1	Secured Storage	Krizhka Cuenta	07/20/20 13:38	Retrieve from Storage
JD10241-3.1	Krizhka Cuenta	GCMS2E	07/20/20 13:38	Load on Instrument
JD10241-3.1	GCMS2E	Krizhka Cuenta	07/21/20 08:08	Unload from Instrument
JD10241-3.1	Krizhka Cuenta	Secured Storage	07/21/20 08:08	Return to Storage
JD10241-4.1	Secured Storage	Krizhka Cuenta	07/20/20 13:38	Retrieve from Storage
JD10241-4.1	Krizhka Cuenta	GCMS2E	07/20/20 13:38	Load on Instrument
JD10241-4.1	GCMS2E	Krizhka Cuenta	07/21/20 08:08	Unload from Instrument
JD10241-4.1	Krizhka Cuenta	Secured Storage	07/21/20 08:08	Return to Storage
JD10241-5.1	Secured Storage	Krizhka Cuenta	07/20/20 13:38	Retrieve from Storage
JD10241-5.1	Krizhka Cuenta	GCMS2E	07/20/20 13:38	Load on Instrument
JD10241-5.1	GCMS2E	Krizhka Cuenta	07/21/20 08:08	Unload from Instrument
JD10241-5.1	Krizhka Cuenta	Secured Storage	07/21/20 08:08	Return to Storage
JD10241-6.1	Secured Storage	Krizhka Cuenta	07/20/20 13:38	Retrieve from Storage
JD10241-6.1	Krizhka Cuenta	GCMS2E	07/20/20 13:38	Load on Instrument
JD10241-6.1	GCMS2E	Krizhka Cuenta	07/21/20 08:08	Unload from Instrument
JD10241-6.1	Krizhka Cuenta	Secured Storage	07/21/20 08:08	Return to Storage

SGS Internal Chain of Custody

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY
Received: 07/16/20

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD10241-6.2	Secured Storage	Krizhka Cuenta	07/27/20 11:31	Retrieve from Storage
JD10241-6.2	Krizhka Cuenta	GCMS4D	07/27/20 11:31	Load on Instrument
JD10241-6.2	GCMS4D	Krizhka Cuenta	07/28/20 15:34	Unload from Instrument
JD10241-6.2	Krizhka Cuenta	Secured Storage	07/28/20 15:34	Return to Storage
JD10241-7.1	Secured Storage	Krizhka Cuenta	07/20/20 13:38	Retrieve from Storage
JD10241-7.1	Krizhka Cuenta	GCMS2E	07/20/20 13:38	Load on Instrument
JD10241-7.1	GCMS2E	Krizhka Cuenta	07/21/20 08:08	Unload from Instrument
JD10241-7.1	Krizhka Cuenta	Secured Storage	07/21/20 08:08	Return to Storage
JD10241-7.2	Secured Storage	Krizhka Cuenta	07/27/20 11:31	Retrieve from Storage
JD10241-7.2	Krizhka Cuenta	GCMS4D	07/27/20 11:31	Load on Instrument
JD10241-7.2	GCMS4D	Krizhka Cuenta	07/28/20 15:34	Unload from Instrument
JD10241-7.2	Krizhka Cuenta	Secured Storage	07/28/20 15:34	Return to Storage
JD10241-8.1	Secured Storage	Krizhka Cuenta	07/24/20 17:02	Retrieve from Storage
JD10241-8.1	Krizhka Cuenta	GCMS2E	07/24/20 17:02	Load on Instrument
JD10241-8.1	GCMS2E	Krizhka Cuenta	07/27/20 08:42	Unload from Instrument
JD10241-8.1	Krizhka Cuenta	Secured Storage	07/27/20 08:42	Return to Storage
JD10241-8.2	Secured Storage	Krizhka Cuenta	07/27/20 11:31	Retrieve from Storage
JD10241-8.2	Krizhka Cuenta	GCMS4D	07/27/20 11:31	Load on Instrument
JD10241-8.2	GCMS4D	Krizhka Cuenta	07/28/20 15:34	Unload from Instrument
JD10241-8.2	Krizhka Cuenta	Secured Storage	07/28/20 15:34	Return to Storage
JD10241-9.1	Secured Storage	Krizhka Cuenta	07/20/20 13:38	Retrieve from Storage
JD10241-9.1	Krizhka Cuenta	GCMS2E	07/20/20 13:38	Load on Instrument
JD10241-9.1	GCMS2E	Krizhka Cuenta	07/21/20 08:08	Unload from Instrument
JD10241-9.1	Krizhka Cuenta	Secured Storage	07/21/20 08:08	Return to Storage
JD10241-10.1	Secured Storage	Krizhka Cuenta	07/20/20 13:38	Retrieve from Storage
JD10241-10.1	Krizhka Cuenta	GCMS2E	07/20/20 13:38	Load on Instrument
JD10241-10.1	GCMS2E	Krizhka Cuenta	07/21/20 08:08	Unload from Instrument
JD10241-10.1	Krizhka Cuenta	Secured Storage	07/21/20 08:08	Return to Storage
JD10241-11.1	Secured Storage	Krizhka Cuenta	07/20/20 13:38	Retrieve from Storage
JD10241-11.1	Krizhka Cuenta	GCMS2E	07/20/20 13:38	Load on Instrument
JD10241-11.1	GCMS2E	Krizhka Cuenta	07/21/20 08:08	Unload from Instrument
JD10241-11.1	Krizhka Cuenta	Secured Storage	07/21/20 08:08	Return to Storage
JD10241-12.1	Secured Storage	Krizhka Cuenta	07/20/20 13:38	Retrieve from Storage
JD10241-12.1	Krizhka Cuenta	GCMS2E	07/20/20 13:38	Load on Instrument
JD10241-12.1	GCMS2E	Krizhka Cuenta	07/21/20 08:08	Unload from Instrument

SGS Internal Chain of Custody

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY
Received: 07/16/20

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD10241-12.1	Krizhka Cuenta	Secured Storage	07/21/20 08:08	Return to Storage

MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries
- Run Sequence Reports

Method Blank Summary

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2E8165-MB	2E162973.D	1	07/20/20	KC	n/a	n/a	V2E8165

The QC reported here applies to the following samples: **Method:** SW846 8260C

JD10241-1, JD10241-3, JD10241-4, JD10241-5, JD10241-6, JD10241-7, JD10241-9, JD10241-10, JD10241-11, JD10241-12

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	6.0	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.55	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	6.9	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.52	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.62	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.69	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.63	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.60	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.2	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.4	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.43	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.52	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.82	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	

Method Blank Summary

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2E8165-MB	2E162973.D	1	07/20/20	KC	n/a	n/a	V2E8165

The QC reported here applies to the following samples: **Method:** SW846 8260C

JD10241-1, JD10241-3, JD10241-4, JD10241-5, JD10241-6, JD10241-7, JD10241-9, JD10241-10, JD10241-11, JD10241-12

CAS No.	Compound	Result	RL	MDL	Units	Q
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.56	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.66	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.48	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	2.5	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.60	ug/l	
100-42-5	Styrene	ND	1.0	0.70	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.90	ug/l	
108-88-3	Toluene	ND	1.0	0.53	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.84	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	101%	80-120%
17060-07-0	1,2-Dichloroethane-D4	100%	81-124%
2037-26-5	Toluene-D8	99%	80-120%
460-00-4	4-Bromofluorobenzene	99%	80-120%

Method Blank Summary

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2E8165-MB	2E162973.D	1	07/20/20	KC	n/a	n/a	V2E8165

The QC reported here applies to the following samples: **Method:**

JD10241-1, JD10241-3, JD10241-4, JD10241-5, JD10241-6, JD10241-7, JD10241-9, JD10241-10, JD10241-11, JD10241-12

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Method Blank Summary

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V4D4597-MB	4D103629.D	1	07/27/20	KC	n/a	n/a	V4D4597

The QC reported here applies to the following samples: **Method:** SW846 8260C

JD10241-2, JD10241-6, JD10241-7, JD10241-8

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	6.0	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.55	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	6.9	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.52	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.62	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.69	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.63	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.60	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.2	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.4	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.43	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.52	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.82	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	

Method Blank Summary

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V4D4597-MB	4D103629.D	1	07/27/20	KC	n/a	n/a	V4D4597

The QC reported here applies to the following samples: **Method:** SW846 8260C

JD10241-2, JD10241-6, JD10241-7, JD10241-8

CAS No.	Compound	Result	RL	MDL	Units	Q
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.56	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.66	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.48	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	2.5	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.60	ug/l	
100-42-5	Styrene	ND	1.0	0.70	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.90	ug/l	
108-88-3	Toluene	ND	1.0	0.53	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.84	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	102%	80-120%
17060-07-0	1,2-Dichloroethane-D4	89%	81-124%
2037-26-5	Toluene-D8	100%	80-120%
460-00-4	4-Bromofluorobenzene	96%	80-120%

Method Blank Summary

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V4D4597-MB	4D103629.D	1	07/27/20	KC	n/a	n/a	V4D4597

The QC reported here applies to the following samples: **Method:**

JD10241-2, JD10241-6, JD10241-7, JD10241-8

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Blank Spike Summary

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V4D4597-BS	4D103627.D	1	07/27/20	KC	n/a	n/a	V4D4597

The QC reported here applies to the following samples: **Method:** SW846 8260C

JD10241-2, JD10241-6, JD10241-7, JD10241-8

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	200	183	92	42-150
71-43-2	Benzene	50	46.7	93	80-120
108-86-1	Bromobenzene	50	49.9	100	82-118
74-97-5	Bromochloromethane	50	55.3	111	84-121
75-27-4	Bromodichloromethane	50	51.3	103	83-120
75-25-2	Bromoform	50	59.6	119	76-129
74-83-9	Bromomethane	50	35.0	70	57-138
78-93-3	2-Butanone (MEK)	200	207	104	64-137
104-51-8	n-Butylbenzene	50	48.0	96	81-123
135-98-8	sec-Butylbenzene	50	46.3	93	84-121
98-06-6	tert-Butylbenzene	50	48.0	96	83-122
56-23-5	Carbon tetrachloride	50	46.1	92	75-135
108-90-7	Chlorobenzene	50	49.5	99	84-117
75-00-3	Chloroethane	50	48.4	97	63-132
67-66-3	Chloroform	50	45.0	90	80-119
74-87-3	Chloromethane	50	39.4	79	46-136
95-49-8	o-Chlorotoluene	50	47.9	96	84-118
106-43-4	p-Chlorotoluene	50	46.1	92	83-116
96-12-8	1,2-Dibromo-3-chloropropane	50	54.2	108	72-127
124-48-1	Dibromochloromethane	50	56.7	113	80-123
106-93-4	1,2-Dibromoethane	50	66.0	132* [a]	84-117
95-50-1	1,2-Dichlorobenzene	50	50.6	101	84-119
541-73-1	1,3-Dichlorobenzene	50	49.0	98	81-117
106-46-7	1,4-Dichlorobenzene	50	49.4	99	82-117
75-71-8	Dichlorodifluoromethane	50	48.8	98	36-149
75-34-3	1,1-Dichloroethane	50	46.5	93	79-120
107-06-2	1,2-Dichloroethane	50	43.2	86	78-126
75-35-4	1,1-Dichloroethene	50	46.6	93	69-126
156-59-2	cis-1,2-Dichloroethene	50	49.9	100	80-120
156-60-5	trans-1,2-Dichloroethene	50	47.7	95	76-120
78-87-5	1,2-Dichloropropane	50	50.2	100	82-121
142-28-9	1,3-Dichloropropane	50	50.9	102	83-115
594-20-7	2,2-Dichloropropane	50	46.6	93	65-133
563-58-6	1,1-Dichloropropene	50	44.9	90	80-121
10061-01-5	cis-1,3-Dichloropropene	50	52.8	106	83-120
10061-02-6	trans-1,3-Dichloropropene	50	51.9	104	82-121

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V4D4597-BS	4D103627.D	1	07/27/20	KC	n/a	n/a	V4D4597

The QC reported here applies to the following samples: **Method:** SW846 8260C

JD10241-2, JD10241-6, JD10241-7, JD10241-8

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
100-41-4	Ethylbenzene	50	46.3	93	80-120
87-68-3	Hexachlorobutadiene	50	44.3	89	75-129
98-82-8	Isopropylbenzene	50	47.8	96	83-120
99-87-6	p-Isopropyltoluene	50	47.2	94	83-122
1634-04-4	Methyl Tert Butyl Ether	50	48.5	97	80-119
108-10-1	4-Methyl-2-pentanone(MIBK)	200	213	107	71-131
74-95-3	Methylene bromide	50	52.7	105	85-120
75-09-2	Methylene chloride	50	50.3	101	77-120
91-20-3	Naphthalene	50	50.1	100	73-131
103-65-1	n-Propylbenzene	50	44.7	89	82-119
100-42-5	Styrene	50	51.3	103	82-122
630-20-6	1,1,1,2-Tetrachloroethane	50	54.6	109	82-121
79-34-5	1,1,2,2-Tetrachloroethane	50	51.0	102	76-119
127-18-4	Tetrachloroethene	50	47.8	96	70-131
108-88-3	Toluene	50	47.0	94	80-120
87-61-6	1,2,3-Trichlorobenzene	50	51.4	103	76-134
120-82-1	1,2,4-Trichlorobenzene	50	52.4	105	79-132
71-55-6	1,1,1-Trichloroethane	50	46.0	92	81-128
79-00-5	1,1,2-Trichloroethane	50	54.1	108	83-118
79-01-6	Trichloroethene	50	50.8	102	80-120
75-69-4	Trichlorofluoromethane	50	44.9	90	64-136
96-18-4	1,2,3-Trichloropropane	50	50.6	101	79-120
95-63-6	1,2,4-Trimethylbenzene	50	46.3	93	84-120
108-67-8	1,3,5-Trimethylbenzene	50	46.2	92	83-119
75-01-4	Vinyl chloride	50	44.2	88	51-135
	m,p-Xylene	100	98.8	99	80-120
95-47-6	o-Xylene	50	49.4	99	80-120
1330-20-7	Xylene (total)	150	148	99	80-120

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	101%	80-120%
17060-07-0	1,2-Dichloroethane-D4	89%	81-124%
2037-26-5	Toluene-D8	98%	80-120%
460-00-4	4-Bromofluorobenzene	94%	80-120%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V4D4597-BS	4D103627.D	1	07/27/20	KC	n/a	n/a	V4D4597

The QC reported here applies to the following samples: **Method:** SW846 8260C

JD10241-2, JD10241-6, JD10241-7, JD10241-8

(a) High percent recovery and no associated positive reported in the QC batch.

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2E8165-BS	2E162970.D	1	07/20/20	KC	n/a	n/a	V2E8165
V2E8165-BSD	2E162971.D	1	07/20/20	KC	n/a	n/a	V2E8165

The QC reported here applies to the following samples: **Method:** SW846 8260C

JD10241-1, JD10241-3, JD10241-4, JD10241-5, JD10241-6, JD10241-7, JD10241-9, JD10241-10, JD10241-11, JD10241-12

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	200	192	96	187	94	3	42-150/22
71-43-2	Benzene	50	44.0	88	43.2	86	2	80-120/20
108-86-1	Bromobenzene	50	44.8	90	44.9	90	0	82-118/20
74-97-5	Bromochloromethane	50	47.1	94	46.3	93	2	84-121/20
75-27-4	Bromodichloromethane	50	45.5	91	45.3	91	0	83-120/20
75-25-2	Bromoform	50	51.5	103	50.9	102	1	76-129/20
74-83-9	Bromomethane	50	42.9	86	41.6	83	3	57-138/20
78-93-3	2-Butanone (MEK)	200	214	107	213	107	0	64-137/20
104-51-8	n-Butylbenzene	50	48.7	97	48.3	97	1	81-123/20
135-98-8	sec-Butylbenzene	50	45.4	91	45.5	91	0	84-121/20
98-06-6	tert-Butylbenzene	50	45.4	91	45.6	91	0	83-122/20
56-23-5	Carbon tetrachloride	50	45.8	92	44.7	89	2	75-135/20
108-90-7	Chlorobenzene	50	45.7	91	45.5	91	0	84-117/20
75-00-3	Chloroethane	50	40.6	81	39.8	80	2	63-132/20
67-66-3	Chloroform	50	44.0	88	43.2	86	2	80-119/20
74-87-3	Chloromethane	50	40.9	82	40.1	80	2	46-136/20
95-49-8	o-Chlorotoluene	50	45.1	90	45.6	91	1	84-118/20
106-43-4	p-Chlorotoluene	50	44.4	89	44.3	89	0	83-116/20
96-12-8	1,2-Dibromo-3-chloropropane	50	51.1	102	51.2	102	0	72-127/20
124-48-1	Dibromochloromethane	50	47.4	95	47.5	95	0	80-123/20
106-93-4	1,2-Dibromoethane	50	48.2	96	47.9	96	1	84-117/20
95-50-1	1,2-Dichlorobenzene	50	46.0	92	45.5	91	1	84-119/20
541-73-1	1,3-Dichlorobenzene	50	45.5	91	45.5	91	0	81-117/20
106-46-7	1,4-Dichlorobenzene	50	45.3	91	45.3	91	0	82-117/20
75-71-8	Dichlorodifluoromethane	50	42.2	84	40.4	81	4	36-149/20
75-34-3	1,1-Dichloroethane	50	45.2	90	44.3	89	2	79-120/20
107-06-2	1,2-Dichloroethane	50	44.8	90	44.3	89	1	78-126/20
75-35-4	1,1-Dichloroethene	50	44.3	89	42.9	86	3	69-126/20
156-59-2	cis-1,2-Dichloroethene	50	45.5	91	44.8	90	2	80-120/20
156-60-5	trans-1,2-Dichloroethene	50	45.0	90	44.5	89	1	76-120/20
78-87-5	1,2-Dichloropropane	50	45.6	91	45.2	90	1	82-121/20
142-28-9	1,3-Dichloropropane	50	45.9	92	45.8	92	0	83-115/20
594-20-7	2,2-Dichloropropane	50	42.3	85	40.6	81	4	65-133/20
563-58-6	1,1-Dichloropropene	50	45.3	91	44.1	88	3	80-121/20
10061-01-5	cis-1,3-Dichloropropene	50	47.2	94	46.5	93	1	83-120/20
10061-02-6	trans-1,3-Dichloropropene	50	47.9	96	47.9	96	0	82-121/20

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2E8165-BS	2E162970.D	1	07/20/20	KC	n/a	n/a	V2E8165
V2E8165-BSD	2E162971.D	1	07/20/20	KC	n/a	n/a	V2E8165

The QC reported here applies to the following samples: **Method:** SW846 8260C

JD10241-1, JD10241-3, JD10241-4, JD10241-5, JD10241-6, JD10241-7, JD10241-9, JD10241-10, JD10241-11, JD10241-12

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
100-41-4	Ethylbenzene	50	46.2	92	45.8	92	1	80-120/20
87-68-3	Hexachlorobutadiene	50	44.5	89	44.8	90	1	75-129/20
98-82-8	Isopropylbenzene	50	47.2	94	46.6	93	1	83-120/20
99-87-6	p-Isopropyltoluene	50	46.8	94	46.9	94	0	83-122/20
1634-04-4	Methyl Tert Butyl Ether	50	47.2	94	46.5	93	1	80-119/20
108-10-1	4-Methyl-2-pentanone(MIBK)	200	203	102	203	102	0	71-131/20
74-95-3	Methylene bromide	50	47.3	95	46.2	92	2	85-120/20
75-09-2	Methylene chloride	50	45.6	91	44.9	90	2	77-120/20
91-20-3	Naphthalene	50	54.7	109	54.6	109	0	73-131/20
103-65-1	n-Propylbenzene	50	45.2	90	45.2	90	0	82-119/20
100-42-5	Styrene	50	50.1	100	49.6	99	1	82-122/20
630-20-6	1,1,1,2-Tetrachloroethane	50	47.6	95	47.6	95	0	82-121/20
79-34-5	1,1,2,2-Tetrachloroethane	50	45.6	91	45.8	92	0	76-119/20
127-18-4	Tetrachloroethene	50	45.2	90	44.6	89	1	70-131/20
108-88-3	Toluene	50	45.8	92	45.6	91	0	80-120/20
87-61-6	1,2,3-Trichlorobenzene	50	52.2	104	53.2	106	2	76-134/20
120-82-1	1,2,4-Trichlorobenzene	50	52.6	105	52.4	105	0	79-132/20
71-55-6	1,1,1-Trichloroethane	50	45.9	92	44.6	89	3	81-128/20
79-00-5	1,1,2-Trichloroethane	50	46.6	93	46.3	93	1	83-118/20
79-01-6	Trichloroethene	50	45.8	92	45.0	90	2	80-120/20
75-69-4	Trichlorofluoromethane	50	43.8	88	42.6	85	3	64-136/20
96-18-4	1,2,3-Trichloropropane	50	46.9	94	47.9	96	2	79-120/20
95-63-6	1,2,4-Trimethylbenzene	50	47.1	94	46.6	93	1	84-120/20
108-67-8	1,3,5-Trimethylbenzene	50	45.7	91	46.1	92	1	83-119/20
75-01-4	Vinyl chloride	50	42.6	85	41.5	83	3	51-135/20
	m,p-Xylene	100	93.9	94	92.6	93	1	80-120/20
95-47-6	o-Xylene	50	46.7	93	46.1	92	1	80-120/20
1330-20-7	Xylene (total)	150	141	94	139	93	1	80-120/20

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	102%	102%	80-120%
17060-07-0	1,2-Dichloroethane-D4	99%	99%	81-124%
2037-26-5	Toluene-D8	99%	99%	80-120%
460-00-4	4-Bromofluorobenzene	97%	98%	80-120%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD10196-7MS	2E162980.D	10	07/20/20	KC	n/a	n/a	V2E8165
JD10196-7MSD	2E162981.D	10	07/20/20	KC	n/a	n/a	V2E8165
JD10196-7 [a]	2E162979.D	10	07/20/20	KC	n/a	n/a	V2E8165
JD10196-7	2E162978.D	100	07/20/20	KC	n/a	n/a	V2E8165

The QC reported here applies to the following samples: **Method:** SW846 8260C

JD10241-1, JD10241-3, JD10241-4, JD10241-5, JD10241-6, JD10241-7, JD10241-9, JD10241-10, JD10241-11, JD10241-12

CAS No.	Compound	JD10196-7 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		2000	1650	83	2000	1620	81	2	34-149/17
71-43-2	Benzene	ND		500	401	80	500	399	80	1	54-136/10
108-86-1	Bromobenzene	ND		500	416	83	500	424	85	2	78-122/11
74-97-5	Bromochloromethane	ND		500	430	86	500	425	85	1	79-124/11
75-27-4	Bromodichloromethane	ND		500	421	84	500	418	84	1	79-124/11
75-25-2	Bromoform	ND		500	474	95	500	470	94	1	71-130/11
74-83-9	Bromomethane	ND		500	399	80	500	387	77	3	53-142/14
78-93-3	2-Butanone (MEK)	ND		2000	1910	96	2000	1860	93	3	54-142/15
104-51-8	n-Butylbenzene	ND		500	412	82	500	429	86	4	73-133/12
135-98-8	sec-Butylbenzene	ND		500	394	79	500	414	83	5	76-132/12
98-06-6	tert-Butylbenzene	ND		500	400	80	500	419	84	5	76-131/12
56-23-5	Carbon tetrachloride	ND		500	388	78	500	392	78	1	70-143/12
108-90-7	Chlorobenzene	ND		500	420	84	500	423	85	1	78-123/10
75-00-3	Chloroethane	ND		500	371	74	500	364	73	2	57-141/14
67-66-3	Chloroform	ND		500	398	80	500	393	79	1	76-123/11
74-87-3	Chloromethane	ND		500	357	71	500	355	71	1	43-141/16
95-49-8	o-Chlorotoluene	ND		500	414	83	500	423	85	2	78-124/11
106-43-4	p-Chlorotoluene	ND		500	405	81	500	412	82	2	77-122/11
96-12-8	1,2-Dibromo-3-chloropropane	ND		500	460	92	500	471	94	2	66-130/13
124-48-1	Dibromochloromethane	ND		500	441	88	500	441	88	0	76-125/11
106-93-4	1,2-Dibromoethane	ND		500	446	89	500	441	88	1	78-119/11
95-50-1	1,2-Dichlorobenzene	ND		500	425	85	500	433	87	2	77-123/11
541-73-1	1,3-Dichlorobenzene	ND		500	418	84	500	427	85	2	76-122/11
106-46-7	1,4-Dichlorobenzene	ND		500	414	83	500	418	84	1	76-122/11
75-71-8	Dichlorodifluoromethane	ND		500	340	68	500	346	69	2	31-159/16
75-34-3	1,1-Dichloroethane	ND		500	408	82	500	405	81	1	73-126/11
107-06-2	1,2-Dichloroethane	ND		500	413	83	500	407	81	1	72-131/11
75-35-4	1,1-Dichloroethene	ND		500	374	75	500	382	76	2	63-136/14
156-59-2	cis-1,2-Dichloroethene	98.1		500	489	78	500	496	80	1	60-136/11
156-60-5	trans-1,2-Dichloroethene	ND		500	399	80	500	399	80	0	70-126/11
78-87-5	1,2-Dichloropropane	ND		500	417	83	500	416	83	0	78-124/10
142-28-9	1,3-Dichloropropane	ND		500	428	86	500	423	85	1	78-118/11
594-20-7	2,2-Dichloropropane	ND		500	371	74	500	363	73	2	59-141/14
563-58-6	1,1-Dichloropropene	ND		500	384	77	500	388	78	1	75-130/11
10061-01-5	cis-1,3-Dichloropropene	ND		500	423	85	500	429	86	1	79-123/11
10061-02-6	trans-1,3-Dichloropropene	ND		500	447	89	500	448	90	0	77-123/11

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD10196-7MS	2E162980.D	10	07/20/20	KC	n/a	n/a	V2E8165
JD10196-7MSD	2E162981.D	10	07/20/20	KC	n/a	n/a	V2E8165
JD10196-7 [a]	2E162979.D	10	07/20/20	KC	n/a	n/a	V2E8165
JD10196-7	2E162978.D	100	07/20/20	KC	n/a	n/a	V2E8165

The QC reported here applies to the following samples: **Method:** SW846 8260C

JD10241-1, JD10241-3, JD10241-4, JD10241-5, JD10241-6, JD10241-7, JD10241-9, JD10241-10, JD10241-11, JD10241-12

CAS No.	Compound	JD10196-7 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
100-41-4	Ethylbenzene	ND		500	419	84	500	420	84	0	51-140/20
87-68-3	Hexachlorobutadiene	ND		500	385	77	500	414	83	7	64-141/14
98-82-8	Isopropylbenzene	ND		500	418	84	500	424	85	1	75-129/11
99-87-6	p-Isopropyltoluene	ND		500	413	83	500	429	86	4	76-131/12
1634-04-4	Methyl Tert Butyl Ether	ND		500	431	86	500	426	85	1	72-123/11
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		2000	1820	91	2000	1820	91	0	66-136/13
74-95-3	Methylene bromide	ND		500	434	87	500	430	86	1	81-121/11
75-09-2	Methylene chloride	ND		500	417	83	500	413	83	1	73-125/13
91-20-3	Naphthalene	ND		500	500	100	500	511	102	2	62-141/13
103-65-1	n-Propylbenzene	ND		500	402	80	500	415	83	3	68-133/11
100-42-5	Styrene	ND		500	459	92	500	458	92	0	75-129/11
630-20-6	1,1,1,2-Tetrachloroethane	ND		500	437	87	500	438	88	0	77-124/11
79-34-5	1,1,2,2-Tetrachloroethane	ND		500	426	85	500	423	85	1	71-122/11
127-18-4	Tetrachloroethene	19.5		500	410	78	500	421	80	3	61-139/11
108-88-3	Toluene	ND		500	419	84	500	419	84	0	60-135/10
87-61-6	1,2,3-Trichlorobenzene	ND		500	481	96	500	495	99	3	70-138/13
120-82-1	1,2,4-Trichlorobenzene	ND		500	477	95	500	496	99	4	72-137/13
71-55-6	1,1,1-Trichloroethane	ND		500	394	79	500	394	79	0	74-138/12
79-00-5	1,1,2-Trichloroethane	ND		500	434	87	500	431	86	1	78-121/11
79-01-6	Trichloroethene	2300 [c]		500	2440	28* [b]	500	2520	44* [b]	3	62-141/10
75-69-4	Trichlorofluoromethane	ND		500	365	73	500	370	74	1	57-149/14
96-18-4	1,2,3-Trichloropropane	ND		500	436	87	500	434	87	0	74-122/11
95-63-6	1,2,4-Trimethylbenzene	ND		500	425	85	500	437	87	3	54-143/10
108-67-8	1,3,5-Trimethylbenzene	ND		500	418	84	500	427	85	2	67-133/11
75-01-4	Vinyl chloride	ND		500	362	72	500	366	73	1	43-146/15
	m,p-Xylene	ND		1000	853	85	1000	854	85	0	50-144/20
95-47-6	o-Xylene	ND		500	425	85	500	429	86	1	63-134/10
1330-20-7	Xylene (total)	ND		1500	1280	85	1500	1280	85	0	56-139/20

CAS No.	Surrogate Recoveries	MS	MSD	JD10196-7	JD10196-7	Limits
1868-53-7	Dibromofluoromethane	101%	100%	102%	101%	80-120%
17060-07-0	1,2-Dichloroethane-D4	99%	98%	101%	100%	81-124%
2037-26-5	Toluene-D8	100%	100%	98%	99%	80-120%
460-00-4	4-Bromofluorobenzene	97%	99%	100%	101%	80-120%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD10196-7MS	2E162980.D	10	07/20/20	KC	n/a	n/a	V2E8165
JD10196-7MSD	2E162981.D	10	07/20/20	KC	n/a	n/a	V2E8165
JD10196-7 [a]	2E162979.D	10	07/20/20	KC	n/a	n/a	V2E8165
JD10196-7	2E162978.D	100	07/20/20	KC	n/a	n/a	V2E8165

The QC reported here applies to the following samples: **Method:** SW846 8260C

JD10241-1, JD10241-3, JD10241-4, JD10241-5, JD10241-6, JD10241-7, JD10241-9, JD10241-10, JD10241-11, JD10241-12

(a) Dilution required due to high concentration of target compound.
(b) Outside control limits due to high level in sample relative to spike amount.
(c) Result is from Run #2.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD10241-2MS	4D103640.D	1	07/27/20	KC	n/a	n/a	V4D4597
JD10241-2MSD	4D103641.D	1	07/27/20	KC	n/a	n/a	V4D4597
JD10241-2	4D103630.D	1	07/27/20	KC	n/a	n/a	V4D4597

The QC reported here applies to the following samples: **Method:** SW846 8260C

JD10241-2, JD10241-6, JD10241-7, JD10241-8

CAS No.	Compound	JD10241-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		200	164	82	200	165	83	1	34-149/17
71-43-2	Benzene	ND		50	47.2	94	50	47.0	94	0	54-136/10
108-86-1	Bromobenzene	ND		50	46.2	92	50	46.3	93	0	78-122/11
74-97-5	Bromochloromethane	ND		50	52.3	105	50	52.2	104	0	79-124/11
75-27-4	Bromodichloromethane	ND		50	48.4	97	50	48.5	97	0	79-124/11
75-25-2	Bromoform	ND		50	50.7	101	50	50.7	101	0	71-130/11
74-83-9	Bromomethane	ND		50	33.4	67	50	41.0	82	20* [a]	53-142/14
78-93-3	2-Butanone (MEK)	ND		200	183	92	200	183	92	0	54-142/15
104-51-8	n-Butylbenzene	ND		50	48.4	97	50	49.1	98	1	73-133/12
135-98-8	sec-Butylbenzene	ND		50	46.9	94	50	47.8	96	2	76-132/12
98-06-6	tert-Butylbenzene	ND		50	47.9	96	50	48.2	96	1	76-131/12
56-23-5	Carbon tetrachloride	ND		50	49.5	99	50	49.4	99	0	70-143/12
108-90-7	Chlorobenzene	ND		50	47.4	95	50	47.5	95	0	78-123/10
75-00-3	Chloroethane	ND		50	59.5	119	50	54.5	109	9	57-141/14
67-66-3	Chloroform	ND		50	43.6	87	50	43.2	86	1	76-123/11
74-87-3	Chloromethane	ND		50	49.0	98	50	45.9	92	7	43-141/16
95-49-8	o-Chlorotoluene	ND		50	46.2	92	50	47.2	94	2	78-124/11
106-43-4	p-Chlorotoluene	ND		50	44.2	88	50	44.4	89	0	77-122/11
96-12-8	1,2-Dibromo-3-chloropropane	ND		50	46.9	94	50	47.4	95	1	66-130/13
124-48-1	Dibromochloromethane	ND		50	51.0	102	50	50.0	100	2	76-125/11
106-93-4	1,2-Dibromoethane	ND		50	59.9	120* [b]	50	58.0	116	3	78-119/11
95-50-1	1,2-Dichlorobenzene	ND		50	46.1	92	50	46.3	93	0	77-123/11
541-73-1	1,3-Dichlorobenzene	ND		50	45.8	92	50	46.0	92	0	76-122/11
106-46-7	1,4-Dichlorobenzene	ND		50	45.2	90	50	45.7	91	1	76-122/11
75-71-8	Dichlorodifluoromethane	ND		50	70.9	142	50	65.6	131	8	31-159/16
75-34-3	1,1-Dichloroethane	11.4		50	57.4	92	50	56.7	91	1	73-126/11
107-06-2	1,2-Dichloroethane	ND		50	39.0	78	50	38.9	78	0	72-131/11
75-35-4	1,1-Dichloroethene	0.74	J	50	49.6	98	50	50.0	99	1	63-136/14
156-59-2	cis-1,2-Dichloroethene	ND		50	50.9	102	50	50.8	102	0	60-136/11
156-60-5	trans-1,2-Dichloroethene	ND		50	49.0	98	50	49.2	98	0	70-126/11
78-87-5	1,2-Dichloropropane	ND		50	48.2	96	50	48.1	96	0	78-124/10
142-28-9	1,3-Dichloropropane	ND		50	45.5	91	50	44.9	90	1	78-118/11
594-20-7	2,2-Dichloropropane	ND		50	43.5	87	50	42.4	85	3	59-141/14
563-58-6	1,1-Dichloropropene	ND		50	47.6	95	50	47.6	95	0	75-130/11
10061-01-5	cis-1,3-Dichloropropene	ND		50	48.3	97	50	48.1	96	0	79-123/11
10061-02-6	trans-1,3-Dichloropropene	ND		50	45.0	90	50	45.0	90	0	77-123/11

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD10241-2MS	4D103640.D	1	07/27/20	KC	n/a	n/a	V4D4597
JD10241-2MSD	4D103641.D	1	07/27/20	KC	n/a	n/a	V4D4597
JD10241-2	4D103630.D	1	07/27/20	KC	n/a	n/a	V4D4597

The QC reported here applies to the following samples: **Method:** SW846 8260C

JD10241-2, JD10241-6, JD10241-7, JD10241-8

CAS No.	Compound	JD10241-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
100-41-4	Ethylbenzene	ND		50	46.7	93	50	46.2	92	1	51-140/20
87-68-3	Hexachlorobutadiene	ND		50	45.6	91	50	47.2	94	3	64-141/14
98-82-8	Isopropylbenzene	ND		50	48.3	97	50	48.3	97	0	75-129/11
99-87-6	p-Isopropyltoluene	ND		50	47.3	95	50	48.1	96	2	76-131/12
1634-04-4	Methyl Tert Butyl Ether	ND		50	43.8	88	50	44.0	88	0	72-123/11
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		200	187	94	200	188	94	1	66-136/13
74-95-3	Methylene bromide	ND		50	48.6	97	50	48.4	97	0	81-121/11
75-09-2	Methylene chloride	ND		50	47.4	95	50	47.9	96	1	73-125/13
91-20-3	Naphthalene	ND		50	44.6	89	50	45.9	92	3	62-141/13
103-65-1	n-Propylbenzene	ND		50	45.6	91	50	45.4	91	0	68-133/11
100-42-5	Styrene	ND		50	48.4	97	50	48.5	97	0	75-129/11
630-20-6	1,1,1,2-Tetrachloroethane	ND		50	50.9	102	50	50.3	101	1	77-124/11
79-34-5	1,1,2,2-Tetrachloroethane	ND		50	44.3	89	50	43.9	88	1	71-122/11
127-18-4	Tetrachloroethene	ND		50	49.5	99	50	49.4	99	0	61-139/11
108-88-3	Toluene	ND		50	47.7	95	50	46.9	94	2	60-135/10
87-61-6	1,2,3-Trichlorobenzene	ND		50	48.3	97	50	50.2	100	4	70-138/13
120-82-1	1,2,4-Trichlorobenzene	ND		50	48.4	97	50	49.3	99	2	72-137/13
71-55-6	1,1,1-Trichloroethane	2.6		50	51.0	97	50	51.1	97	0	74-138/12
79-00-5	1,1,2-Trichloroethane	ND		50	48.3	97	50	48.1	96	0	78-121/11
79-01-6	Trichloroethene	ND		50	52.9	106	50	52.9	106	0	62-141/10
75-69-4	Trichlorofluoromethane	ND		50	59.4	119	50	54.8	110	8	57-149/14
96-18-4	1,2,3-Trichloropropane	ND		50	42.8	86	50	42.7	85	0	74-122/11
95-63-6	1,2,4-Trimethylbenzene	ND		50	47.1	94	50	45.9	92	3	54-143/10
108-67-8	1,3,5-Trimethylbenzene	ND		50	46.4	93	50	46.1	92	1	67-133/11
75-01-4	Vinyl chloride	0.88	J	50	59.4	117	50	54.5	107	9	43-146/15
	m,p-Xylene	ND		100	98.9	99	100	97.6	98	1	50-144/20
95-47-6	o-Xylene	ND		50	48.4	97	50	47.7	95	1	63-134/10
1330-20-7	Xylene (total)	ND		150	147	98	150	145	97	1	56-139/20

CAS No.	Surrogate Recoveries	MS	MSD	JD10241-2	Limits
1868-53-7	Dibromofluoromethane	102%	103%	103%	80-120%
17060-07-0	1,2-Dichloroethane-D4	87%	89%	92%	81-124%
2037-26-5	Toluene-D8	96%	96%	100%	80-120%
460-00-4	4-Bromofluorobenzene	95%	96%	96%	80-120%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD10241-2MS	4D103640.D	1	07/27/20	KC	n/a	n/a	V4D4597
JD10241-2MSD	4D103641.D	1	07/27/20	KC	n/a	n/a	V4D4597
JD10241-2	4D103630.D	1	07/27/20	KC	n/a	n/a	V4D4597

The QC reported here applies to the following samples: **Method:** SW846 8260C

JD10241-2, JD10241-6, JD10241-7, JD10241-8

(a) Outside control limits due to matrix interference.
(b) Outside in house control limits.

* = Outside of Control Limits.

Instrument Performance Check (BFB)

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample: V2E8157-BFB
Lab File ID: 2E162815.D
Instrument ID: GCMS2E
Injection Date: 07/14/20
Injection Time: 17:48

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	18733	18.2		Pass
75	30.0 - 60.0% of mass 95	49488	48.1		Pass
95	Base peak, 100% relative abundance	102965	100.0		Pass
96	5.0 - 9.0% of mass 95	7136	6.93		Pass
173	Less than 2.0% of mass 174	599	0.58	(0.76) [a]	Pass
174	50.0 - 120.0% of mass 95	78920	76.6		Pass
175	5.0 - 9.0% of mass 174	6023	5.85	(7.63) [a]	Pass
176	95.0 - 101.0% of mass 174	75560	73.4	(95.7) [a]	Pass
177	5.0 - 9.0% of mass 176	5239	5.09	(6.93) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V2E8157-IC8157	2E162816.D	07/14/20	18:33	00:45	Initial cal 0.2
V2E8157-IC8157	2E162817.D	07/14/20	19:03	01:15	Initial cal 0.5
V2E8157-IC8157	2E162818.D	07/14/20	19:33	01:45	Initial cal 1
V2E8157-IC8157	2E162819.D	07/14/20	20:03	02:15	Initial cal 2
V2E8157-IC8157	2E162820.D	07/14/20	20:32	02:44	Initial cal 4
V2E8157-IC8157	2E162821.D	07/14/20	21:03	03:15	Initial cal 8
V2E8157-IC8157	2E162822.D	07/14/20	21:33	03:45	Initial cal 20
V2E8157-ICC8157	2E162823.D	07/14/20	22:03	04:15	Initial cal 50
V2E8157-IC8157	2E162824.D	07/14/20	22:33	04:45	Initial cal 100
V2E8157-IC8157	2E162825.D	07/14/20	23:03	05:15	Initial cal 200
V2E8157-ICV8157	2E162828.D	07/15/20	00:33	06:45	Initial cal verification 50
V2E8157-ICV8157	2E162829.D	07/15/20	01:03	07:15	Initial cal verification 50

Instrument Performance Check (BFB)

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample: V2E8157-BFB2
Lab File ID: 2E162833.D
Instrument ID: GCMS2E
Injection Date: 07/15/20
Injection Time: 11:51

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	18957	17.6		Pass
75	30.0 - 60.0% of mass 95	50368	46.7		Pass
95	Base peak, 100% relative abundance	107877	100.0		Pass
96	5.0 - 9.0% of mass 95	7900	7.32		Pass
173	Less than 2.0% of mass 174	526	0.49	(0.64) [a]	Pass
174	50.0 - 120.0% of mass 95	82547	76.5		Pass
175	5.0 - 9.0% of mass 174	6005	5.57	(7.27) [a]	Pass
176	95.0 - 101.0% of mass 174	79341	73.5	(96.1) [a]	Pass
177	5.0 - 9.0% of mass 176	5226	4.84	(6.59) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V2E8157-ICV8157	2E162834.D	07/15/20	12:22	00:31	Initial cal verification 50

Instrument Performance Check (BFB)

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample: V2E8165-BFB
Lab File ID: 2E162969.D
Instrument ID: GCMS2E
Injection Date: 07/20/20
Injection Time: 11:05

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	16362	16.8		Pass
75	30.0 - 60.0% of mass 95	45477	46.7		Pass
95	Base peak, 100% relative abundance	97384	100.0		Pass
96	5.0 - 9.0% of mass 95	6706	6.89		Pass
173	Less than 2.0% of mass 174	338	0.35	(0.44) [a]	Pass
174	50.0 - 120.0% of mass 95	77029	79.1		Pass
175	5.0 - 9.0% of mass 174	5527	5.68	(7.18) [a]	Pass
176	95.0 - 101.0% of mass 174	73595	75.6	(95.5) [a]	Pass
177	5.0 - 9.0% of mass 176	4930	5.06	(6.70) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V2E8165-CC8157	2E162969.D	07/20/20	11:05	00:00	Continuing cal 20
V2E8165-BS	2E162970.D	07/20/20	11:42	00:37	Blank Spike
V2E8165-BSD	2E162971.D	07/20/20	12:12	01:07	Blank Spike Duplicate
V2E8165-MB	2E162973.D	07/20/20	13:12	02:07	Method Blank
ZZZZZZ	2E162974.D	07/20/20	13:51	02:46	(unrelated sample)
ZZZZZZ	2E162975.D	07/20/20	14:20	03:15	(unrelated sample)
ZZZZZZ	2E162976.D	07/20/20	14:50	03:45	(unrelated sample)
ZZZZZZ	2E162977.D	07/20/20	15:20	04:15	(unrelated sample)
JD10196-7	2E162978.D	07/20/20	15:50	04:45	(used for QC only; not part of job JD10241)
JD10196-7	2E162979.D	07/20/20	16:20	05:15	(used for QC only; not part of job JD10241)
JD10196-7MS	2E162980.D	07/20/20	16:50	05:45	Matrix Spike
JD10196-7MSD	2E162981.D	07/20/20	17:20	06:15	Matrix Spike Duplicate
JD10241-10	2E162983.D	07/20/20	18:20	07:15	CC1TB01T0720
JD10241-11	2E162984.D	07/20/20	18:50	07:45	CC1FB01F0720
JD10241-1	2E162985.D	07/20/20	19:20	08:15	CC1MW01G0720
JD10241-3	2E162986.D	07/20/20	19:50	08:45	CC1MW107G0720
JD10241-4	2E162987.D	07/20/20	20:20	09:15	CC1MW107H0720
JD10241-6	2E162988.D	07/20/20	20:50	09:45	CC1MWSB2G0720
JD10241-9	2E162989.D	07/20/20	21:19	10:14	CC1IDW01Z0720
JD10241-12	2E162990.D	07/20/20	21:49	10:44	CC1IDW02Z0720
JD10241-5	2E162991.D	07/20/20	22:19	11:14	CC1MW13DG0720
JD10241-7	2E162992.D	07/20/20	22:49	11:44	CC1STSW0720

Instrument Performance Check (BFB)

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample: V4D4496-BFB
Lab File ID: 4D101403.D
Instrument ID: GCMS4D
Injection Date: 04/16/20
Injection Time: 15:37

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	14.99 - 40.0% of mass 95	11366	16.9		Pass
75	30.0 - 60.0% of mass 95	31219	46.4		Pass
95	Base peak, 100% relative abundance	67261	100.0		Pass
96	5.0 - 9.0% of mass 95	4551	6.77		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	61328	91.2		Pass
175	5.0 - 9.0% of mass 174	4897	7.28	(7.98) [a]	Pass
176	95.0 - 101.0% of mass 174	59496	88.5	(97.0) [a]	Pass
177	5.0 - 9.0% of mass 176	3966	5.90	(6.67) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V4D4496-IC4496	4D101404.D	04/16/20	16:32	00:55	Initial cal 0.2
V4D4496-IC4496	4D101405.D	04/16/20	17:01	01:24	Initial cal 0.5
V4D4496-IC4496	4D101406.D	04/16/20	17:29	01:52	Initial cal 1
V4D4496-IC4496	4D101407.D	04/16/20	17:58	02:21	Initial cal 2
V4D4496-IC4496	4D101408.D	04/16/20	18:27	02:50	Initial cal 4
V4D4496-IC4496	4D101409.D	04/16/20	18:55	03:18	Initial cal 8
V4D4496-IC4496	4D101410.D	04/16/20	19:23	03:46	Initial cal 20
V4D4496-ICC4496	4D101411.D	04/16/20	19:52	04:15	Initial cal 50
V4D4496-IC4496	4D101412.D	04/16/20	20:21	04:44	Initial cal 100
V4D4496-IC4496	4D101413.D	04/16/20	20:49	05:12	Initial cal 200
V4D4496-ICV4496	4D101416.D	04/16/20	22:15	06:38	Initial cal verification 50
V4D4496-ICV4496	4D101417.D	04/16/20	22:44	07:07	Initial cal verification 50

Instrument Performance Check (BFB)

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample: V4D4597-BFB
Lab File ID: 4D103625.D
Instrument ID: GCMS4D
Injection Date: 07/27/20
Injection Time: 08:27

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	14.99 - 40.0% of mass 95	10266	15.0		Pass
75	30.0 - 60.0% of mass 95	29096	42.6		Pass
95	Base peak, 100% relative abundance	68379	100.0		Pass
96	5.0 - 9.0% of mass 95	4516	6.60		Pass
173	Less than 2.0% of mass 174	483	0.71	(0.77) [a]	Pass
174	50.0 - 120.0% of mass 95	62989	92.1		Pass
175	5.0 - 9.0% of mass 174	4779	6.99	(7.59) [a]	Pass
176	95.0 - 101.0% of mass 174	60512	88.5	(96.1) [a]	Pass
177	5.0 - 9.0% of mass 176	4122	6.03	(6.81) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V4D4597-CC4496	4D103625.D	07/27/20	08:27	00:00	Continuing cal 20
V4D4597-BS	4D103627.D	07/27/20	09:35	01:08	Blank Spike
V4D4597-MB	4D103629.D	07/27/20	10:33	02:06	Method Blank
JD10241-2	4D103630.D	07/27/20	11:13	02:46	CC1MW106G0720
JD10241-7	4D103631.D	07/27/20	11:42	03:15	CC1STSW0720
JD10241-8	4D103632.D	07/27/20	12:11	03:44	CC1SDSW0720
JD10241-6	4D103633.D	07/27/20	12:41	04:14	CC1MWSB2G0720
ZZZZZZ	4D103634.D	07/27/20	13:10	04:43	(unrelated sample)
ZZZZZZ	4D103635.D	07/27/20	13:40	05:13	(unrelated sample)
ZZZZZZ	4D103636.D	07/27/20	14:09	05:42	(unrelated sample)
ZZZZZZ	4D103637.D	07/27/20	14:39	06:12	(unrelated sample)
ZZZZZZ	4D103638.D	07/27/20	15:08	06:41	(unrelated sample)
ZZZZZZ	4D103639.D	07/27/20	15:38	07:11	(unrelated sample)
JD10241-2MS	4D103640.D	07/27/20	16:08	07:41	Matrix Spike
JD10241-2MSD	4D103641.D	07/27/20	16:37	08:10	Matrix Spike Duplicate
ZZZZZZ	4D103643.D	07/27/20	17:37	09:10	(unrelated sample)
ZZZZZZ	4D103644.D	07/27/20	18:06	09:39	(unrelated sample)
ZZZZZZ	4D103645.D	07/27/20	18:36	10:09	(unrelated sample)
ZZZZZZ	4D103646.D	07/27/20	19:06	10:39	(unrelated sample)
ZZZZZZ	4D103647.D	07/27/20	19:35	11:08	(unrelated sample)
ZZZZZZ	4D103648.D	07/27/20	20:05	11:38	(unrelated sample)

Internal Standard Area Summary

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Check Std:	V2E8165-CC8157	**Injection Date:**	07/20/20
Lab File ID:	2E162969.D	**Injection Time:**	11:05
Instrument ID:	GCMS2E	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	129757	7.30	239256	9.53	356773	10.44	292613	13.59	148260	15.88
Upper Limit [a]	259514	7.80	478512	10.03	713546	10.94	585226	14.09	296520	16.38
Lower Limit [b]	64879	6.80	119628	9.03	178387	9.94	146307	13.09	74130	15.38

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
V2E8165-BS	131659	7.30	233528	9.53	354036	10.45	288902	13.58	149914	15.88
V2E8165-BSD	132835	7.30	241296	9.53	362101	10.45	292629	13.59	148877	15.88
V2E8165-MB	142560	7.30	250948	9.53	377299	10.45	305676	13.59	150471	15.88
ZZZZZZ	130779	7.29	246805	9.53	373604	10.45	306144	13.59	149642	15.88
ZZZZZZ	117411	7.30	252642	9.53	377337	10.45	311058	13.59	152434	15.88
ZZZZZZ	119965	7.30	245061	9.53	369189	10.45	298362	13.59	148593	15.88
ZZZZZZ	195050	7.30	248008	9.53	370353	10.45	309317	13.59	151472	15.88
JD10196-7	117286	7.30	247075	9.53	370675	10.45	303338	13.59	147776	15.88
JD10196-7	116506	7.30	243514	9.53	364579	10.45	297680	13.59	145373	15.88
JD10196-7MS	109889	7.29	238713	9.53	356594	10.44	287012	13.59	148214	15.88
JD10196-7MSD	116971	7.29	244392	9.52	362281	10.44	292026	13.58	147880	15.88
JD10241-10	140881	7.30	249603	9.53	373456	10.45	305096	13.58	149437	15.88
JD10241-11	137491	7.30	247671	9.53	370015	10.45	302608	13.59	146571	15.88
JD10241-1	126362	7.29	246504	9.52	369296	10.45	302246	13.59	152517	15.88
JD10241-3	113752	7.30	250194	9.53	370307	10.45	303776	13.59	150462	15.88
JD10241-4	111378	7.30	244083	9.53	363684	10.45	293796	13.59	146248	15.88
JD10241-6	130409	7.30	243999	9.53	365670	10.45	297749	13.59	147837	15.88
JD10241-9	110090	7.29	243373	9.53	361128	10.44	295840	13.59	145510	15.88
JD10241-12	110856	7.29	241322	9.53	360679	10.44	295265	13.59	145045	15.88
JD10241-5 [c]	105813	7.30	241546	9.53	359689	10.44	295573	13.59	145415	15.88
JD10241-7	106875	7.30	248532	9.53	368814	10.45	304958	13.59	150057	15.88

IS 1 = Tert Butyl Alcohol-D9
IS 2 = Pentafluorobenzene
IS 3 = 1,4-Difluorobenzene
IS 4 = Chlorobenzene-D5
IS 5 = 1,4-Dichlorobenzene-d4

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(c) Dilution required due to high concentration of target compound.

Internal Standard Area Summary

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Check Std:	V4D4597-CC4496	**Injection Date:**	07/27/20
Lab File ID:	4D103625.D	**Injection Time:**	08:27
Instrument ID:	GCMS4D	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	196595	8.64	241013	11.13	339426	12.02	258033	14.91	116909	17.02
Upper Limit [a]	393190	9.14	482026	11.63	678852	12.52	516066	15.41	233818	17.52
Lower Limit [b]	98298	8.14	120507	10.63	169713	11.52	129017	14.41	58455	16.52

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
V4D4597-BS	192039	8.64	228869	11.13	324490	12.02	251323	14.91	115580	17.02
V4D4597-MB	200864	8.64	239625	11.13	344778	12.02	259053	14.91	115082	17.01
JD10241-2	207665	8.63	233933	11.13	338439	12.02	254334	14.91	113344	17.02
JD10241-7	207962	8.63	222703	11.13	324983	12.02	246817	14.91	110642	17.02
JD10241-8	201184	8.64	218839	11.13	322005	12.02	241388	14.91	108599	17.02
JD10241-6	203057	8.64	219416	11.13	323631	12.02	244686	14.91	108566	17.02
ZZZZZZ	203828	8.64	195432	11.13	288287	12.02	224312	14.91	103081	17.02
ZZZZZZ	207723	8.64	211854	11.13	312033	12.02	243793	14.91	109148	17.02
ZZZZZZ	223448	8.64	224202	11.13	320159	12.02	250800	14.91	114868	17.02
ZZZZZZ	215282	8.64	223604	11.13	327566	12.02	256621	14.91	112613	17.02
ZZZZZZ	222719	8.64	230175	11.13	336252	12.02	270436	14.91	120799	17.02
ZZZZZZ	227946	8.64	229437	11.13	336515	12.02	267670	14.91	121156	17.02
JD10241-2MS	219251	8.64	240289	11.13	344190	12.02	271500	14.91	124378	17.01
JD10241-2MSD	220772	8.65	238607	11.13	342515	12.02	272879	14.91	125086	17.02
ZZZZZZ	212937	8.64	247656	11.13	359312	12.02	278740	14.91	124162	17.02
ZZZZZZ	209627	8.64	245746	11.13	354603	12.02	272816	14.91	122954	17.02
ZZZZZZ	217308	8.64	241531	11.13	349511	12.02	270926	14.91	121950	17.02
ZZZZZZ	223935	8.64	236936	11.13	343543	12.02	266321	14.91	120492	17.02
ZZZZZZ	204695	8.63	234041	11.13	334409	12.02	260026	14.91	116673	17.02
ZZZZZZ	213740	8.64	227459	11.13	332063	12.02	254584	14.91	114145	17.02

IS 1 = Tert Butyl Alcohol-D9
IS 2 = Pentafluorobenzene
IS 3 = 1,4-Difluorobenzene
IS 4 = Chlorobenzene-D5
IS 5 = 1,4-Dichlorobenzene-d4

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Surrogate Recovery Summary

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Method: SW846 8260C **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JD10241-1	2E162985.D	101	100	98	98
JD10241-2	4D103630.D	103	92	100	96
JD10241-3	2E162986.D	99	101	98	100
JD10241-4	2E162987.D	100	101	100	98
JD10241-5	2E162991.D	101	100	99	99
JD10241-6	2E162988.D	100	99	99	100
JD10241-6	4D103633.D	107	98	99	97
JD10241-7	4D103631.D	104	95	100	96
JD10241-7	2E162992.D	99	100	98	99
JD10241-8	4D103632.D	106	95	100	95
JD10241-9	2E162989.D	101	100	98	99
JD10241-10	2E162983.D	101	100	99	100
JD10241-11	2E162984.D	100	99	99	100
JD10241-12	2E162990.D	100	101	99	99
JD10196-7MS	2E162980.D	101	99	100	97
JD10196-7MSD	2E162981.D	100	98	100	99
JD10241-2MS	4D103640.D	102	87	96	95
JD10241-2MSD	4D103641.D	103	89	96	96
V2E8165-BS	2E162970.D	102	99	99	97
V2E8165-BSD	2E162971.D	102	99	99	98
V2E8165-MB	2E162973.D	101	100	99	99
V4D4597-BS	4D103627.D	101	89	98	94
V4D4597-MB	4D103629.D	102	89	100	96

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	80-120%
S2 = 1,2-Dichloroethane-D4	81-124%
S3 = Toluene-D8	80-120%
S4 = 4-Bromofluorobenzene	80-120%

Initial Calibration Summary

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample: V2E8157-ICC8157
Lab FileID: 2E162823.D

Response Factor Report VOAMS2E

Method : C:\MSDCHEM\1\METHODS\M2E8157.M (RTE Integrator)
Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
Last Update : Thu Jul 16 11:01:59 2020
Response via : Initial Calibration

Calibration Files
4 =2E162820.D 2 =2E162819.D 0.5 =2E162817.D 50 =2E162823.D
100 =2E162824.D 1 =2E162818.D 200 =2E162825.D 20 =2E162822.D
8 =2E162821.D 0.2 =2E162816.D = =

Compound	4	2	0.5	50	100	1	200	20	8	0.2	Avg	%RSD
1) I tert butyl alcohol-d9	----------ISTD----------											
2) ethanol	0.145	0.164	0.135	0.134	0.166	0.126	0.135	0.139			0.143	10.22
3) tertiary butyl alcohol	1.639	1.841	1.737	1.476	1.452	1.941	1.405	1.562	1.611	1.778	1.644	10.80
4) 1,4-dioxane	0.105	0.127	0.110	0.114		0.109	0.111	0.113			0.113	6.17
5) I pentafluorobenzene	----------ISTD----------											
6) chlorodifluoromethane	1.049	1.119	0.993	1.040	1.033	1.094	0.918	1.050	1.021	1.108	1.042	5.68
7) dichlorodifluoromethane	1.057	1.094	1.016	1.147	1.075	1.112	1.038	1.099	1.075		1.079	3.67
8) chloromethane	1.151	1.216	1.163	1.120	1.421	1.092	1.137	1.135			1.179	8.83
9) vinyl chloride	1.037	1.064	1.006	1.089	1.055	1.140	1.019	1.058	1.059	0.967	1.049	4.49
10) bromomethane	0.617	0.663	0.609	0.577	0.711	0.531	0.599	0.610			0.615	8.76
11) chloroethane	0.559	0.606	0.646	0.591	0.563	0.656	0.531	0.568	0.578	0.690	0.599	8.39
12) trichlorofluoromethane	1.005	1.065	1.026	1.060	1.035	1.139	1.006	1.023	1.026		1.043	3.99
13) 1,3-butadiene	0.777	0.847	0.754	0.802	0.794	0.841	0.692	0.784	0.757	0.816	0.786	5.82
14) vinyl bromide	0.389	0.408	0.405	0.417	0.409	0.469	0.394	0.398	0.395	0.409	0.409	5.54
15) ethyl ether	0.374	0.407	0.403	0.379	0.377	0.397	0.360	0.377	0.371		0.383	4.14
16) acrolein	0.125	0.126	0.128	0.122	0.131	0.116	0.124	0.125			0.125	3.66
17) freon 113	0.488	0.531	0.451	0.501	0.496	0.532	0.473	0.491	0.485		0.494	5.19
18) 1,1-dichloroethene	1.023	1.101	0.956	1.018	1.016	1.057	0.964	1.000	0.974	0.918	1.003	5.28
19) acetone	0.161	0.194	0.159	0.153	0.195	0.147	0.161	0.159			0.166	11.03
20) acetonitrile	0.094	0.108	0.086	0.082		0.078	0.087	0.088			0.089	10.99
21) iodomethane	0.970	1.084	1.070	1.056	1.020	1.073	0.953	1.034	1.002	1.053	1.031	4.35
22) carbon disulfide	1.784	1.909	1.695	1.811	1.805	1.861	1.696	1.767	1.718	1.903	1.795	4.39
23) methylene chloride												

	0.709	0.757	0.738	0.693	0.681	0.747	0.653	0.693	0.674	0.709	0.705	4.74
24)	methyl acetate											
	0.502	0.577	0.532	0.488	0.475	0.543	0.465	0.488	0.487		0.506	7.26
25)	methyl tert butyl ether											
	1.768	1.848	1.714	1.810	1.805	1.829	1.738	1.758	1.687	1.929	1.789	3.97
26)	trans-1,2-dichloroethene											
	0.993	1.050	0.932	0.986	0.978	0.989	0.942	0.974	0.958	0.961	0.976	3.37
27)	hexane											
	0.520	0.556	0.532	0.530	0.531	0.553	0.507	0.520	0.511	0.460	0.522	5.19
28)	di-isopropyl ether											
	2.281	2.483	2.267	2.420	2.396	2.330	2.282	2.366	2.292	2.344	2.346	3.01
29)	ethyl tert-butyl ether											
	2.147	2.317	2.094	2.241	2.227	2.251	2.123	2.187	2.116	2.139	2.184	3.31
30)	2-butanone											
	0.057	0.062		0.065	0.064	0.050	0.062	0.064	0.062		0.061	8.19
31)	1,1-dichloroethane											
	1.246	1.334	1.230	1.224	1.214	1.258	1.132	1.242	1.197	1.194	1.227	4.22
32)	chloroprene											
	0.914	0.953	0.919	0.985	0.998	0.909	0.969	0.956	0.907		0.946	3.66
33)	acrylonitrile											
	0.242	0.256	0.218	0.242	0.239	0.255	0.229	0.240	0.229		0.239	5.07
34)	vinyl acetate											
	0.110	0.105		0.140	0.139		0.132	0.130	0.113		0.124	11.76
35)	ethyl acetate											
	0.086	0.089		0.103	0.100	0.090	0.097	0.102	0.100		0.096	7.04
36)	2,2-dichloropropane											
	0.904	0.996	0.981	0.895	0.871	1.007	0.825	0.894	0.884	1.127	0.938	9.44
37)	cis-1,2-dichloroethene											
	0.704	0.790	0.727	0.698	0.690	0.744	0.655	0.701	0.669	0.699	0.708	5.41
38)	propionitrile											
	0.088	0.096		0.087	0.083	0.095	0.079	0.086	0.087		0.088	6.49
39)	methyl acrylate											
	0.074	0.061		0.088	0.083		0.082	0.082	0.073		0.078	11.53
40)	bromochloromethane											
	0.318	0.351	0.310	0.325	0.320	0.329	0.308	0.312	0.310	0.341	0.322	4.50
41)	tetrahydrofuran											
	0.079	0.085		0.076	0.077	0.075	0.072	0.075	0.075		0.077	5.14
42)	chloroform											
	1.122	1.217	1.210	1.079	1.067	1.215	1.028	1.077	1.056	1.337	1.141	8.69
43)	t-butyl formate											
	0.461	0.497		0.559	0.578		0.572	0.511	0.460		0.520	9.71
44)	1,1-dichloropropene											
	0.899	0.981	0.813	0.901	0.899	0.945	0.868	0.887	0.875	0.877	0.894	5.03
45)	carbon tetrachloride											
	0.802	0.859	0.754	0.829	0.833	0.836	0.807	0.809	0.798	0.792	0.812	3.55
46)	isopropyl acetate											
	0.135	0.142		0.139	0.140	0.107	0.137	0.138	0.129		0.134	8.49
47)	dibromofluoromethane (s)											
	0.498	0.499	0.496	0.498	0.504	0.500	0.496	0.500	0.497	0.500	0.499	0.51
48)	methacrylonitrile											
	0.236	0.239	0.172	0.245	0.242	0.225	0.237	0.236	0.238		0.230	9.69
49)	1,1,1-trichloroethane											
	0.965	1.009	0.940	0.967	0.969	0.956	0.942	0.949	0.930	0.876	0.950	3.60
50)	cyclohexane											
	1.003	1.047	0.987	1.101	1.071	1.136	1.046	1.042	1.021	0.981	1.043	4.72
51)	iso-butyl alcohol											
	0.025	0.030	0.029	0.025	0.024	0.028	0.023	0.025	0.023		0.026	9.00
52)	tert amyl alcohol											
	0.030	0.036		0.030	0.029	0.035	0.027	0.031	0.030		0.031	9.29

Initial Calibration Summary

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample: V2E8157-ICC8157
Lab FileID: 2E162823.D

53) I 1,4-difluorobenzene ----------ISTD----------
54) 1,2-dichloroethane-d4 (s)
0.378 0.384 0.379 0.378 0.373 0.383 0.374 0.381 0.379 0.382 0.379 0.92
55) 2,2,4-trimethylpentane
1.596 1.714 1.579 1.723 1.667 1.656 1.594 1.640 1.628 1.525 1.632 3.76
56) n-butyl alcohol
0.010 0.011 0.012 0.011 0.009 0.010 0.011 0.010 0.011 6.87
57) benzene
1.793 1.922 1.885 1.775 1.717 1.912 1.626 1.769 1.750 1.971 1.812 5.93
58) tert-amyl methyl ether
1.386 1.492 1.338 1.397 1.355 1.417 1.285 1.389 1.350 1.425 1.383 4.06
59) heptane
0.318 0.320 0.274 0.334 0.330 0.338 0.325 0.321 0.319 0.280 0.316 6.81
60) 1,2-dichloroethane
0.554 0.606 0.592 0.538 0.526 0.609 0.509 0.538 0.534 0.556 6.64
61) ethyl acrylate
0.452 0.467 0.505 0.502 0.452 0.495 0.478 0.452 0.475 4.80
62) trichloroethene
0.423 0.446 0.386 0.422 0.416 0.432 0.405 0.419 0.414 0.388 0.415 4.41
63) 2-nitropropane
0.127 0.135 0.112 0.126 0.126 0.146 0.125 0.125 0.124 0.127 7.22
64) 2-chloroethyl vinyl ether
0.228 0.227 0.185 0.245 0.238 0.215 0.228 0.238 0.231 0.188 0.222 9.24
65) methyl methacrylate
0.085 0.087 0.103 0.101 0.100 0.097 0.092 0.095 7.27
66) 1,2-dichloropropane
0.487 0.504 0.436 0.476 0.467 0.458 0.450 0.474 0.469 0.480 0.470 4.07
67) methylcyclohexane
0.811 0.869 0.787 0.861 0.838 0.807 0.810 0.826 0.794 0.823 3.46
68) dibromomethane
0.242 0.259 0.223 0.244 0.237 0.242 0.231 0.244 0.237 0.247 0.241 3.94
69) bromodichloromethane
0.513 0.560 0.534 0.546 0.546 0.566 0.540 0.536 0.526 0.590 0.546 4.01
70) epichlorohydrin
0.039 0.040 0.039 0.038 0.037 0.037 0.039 0.039 0.039 2.32
71) cis-1,3-dichloropropene
0.677 0.726 0.636 0.720 0.711 0.677 0.698 0.692 0.672 0.668 0.688 3.98
72) 4-methyl-2-pentanone
0.153 0.156 0.134 0.158 0.152 0.145 0.144 0.154 0.153 0.127 0.147 6.81
73) 3-methyl-1-butanol
0.010 0.010 0.011 0.010 0.009 0.009 0.011 0.010 0.010 7.60

74) I chlorobenzene-d5 ----------ISTD----------
75) toluene-d8 (s)
1.589 1.588 1.568 1.580 1.588 1.583 1.597 1.605 1.572 1.578 1.585 0.71
76) toluene
1.251 1.325 1.123 1.255 1.245 1.256 1.214 1.251 1.230 1.245 1.239 4.04
77) ethyl methacrylate
0.537 0.554 0.623 0.630 0.502 0.616 0.589 0.545 0.575 8.13
78) trans-1,3-dichloropropene
0.671 0.739 0.633 0.744 0.735 0.677 0.716 0.720 0.690 0.703 5.34
79) 1,1,2-trichloroethane
0.363 0.404 0.348 0.358 0.354 0.381 0.350 0.356 0.353 0.340 0.361 5.18
80) tetrachloroethene
0.412 0.446 0.379 0.403 0.398 0.419 0.383 0.407 0.395 0.405 4.99
81) 2-hexanone
0.153 0.157 0.175 0.169 0.132 0.158 0.169 0.156 0.159 8.29
82) 1,3-dichloropropane
0.758 0.797 0.731 0.744 0.719 0.774 0.682 0.744 0.738 0.729 0.742 4.22
83) butyl acetate

Initial Calibration Summary

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample: V2E8157-ICC8157
Lab FileID: 2E162823.D

```
      0.328 0.331 0.259 0.341 0.336 0.278 0.325 0.333 0.315        0.316    9.03
 84)  dibromochloromethane
      0.415 0.462 0.478 0.460 0.467 0.444 0.467 0.445 0.412 0.454  0.450    4.88
 85)  1,2-dibromoethane
      0.528 0.565 0.532 0.552 0.545 0.531 0.537 0.535 0.537        0.540    2.17
 86)  n-butyl ether
      2.131 2.224 1.911 2.361 2.345 2.091 2.261 2.288 2.160        2.197    6.44
 87)  chlorobenzene
      1.312 1.405 1.276 1.305 1.288 1.317 1.252 1.305 1.274 1.296  1.303    3.14
 88)  1,1,1,2-tetrachloroethane
      0.443 0.474 0.439 0.460 0.459 0.437 0.445 0.458 0.446 0.425  0.449    3.17
 89)  ethylbenzene
      2.259 2.346 2.068 2.265 2.244 2.279 2.135 2.262 2.211 2.097  2.217    4.00
 90)  m,p-xylene
      0.856 0.879 0.810 0.865 0.854 0.815 0.805 0.867 0.838 0.775  0.836    4.01
 91)  o-xylene
      1.794 1.860 1.656 1.836 1.806 1.780 1.718 1.832 1.785 1.689  1.776    3.77
 92)  styrene
      1.264 1.287 1.136 1.403 1.400 1.219 1.325 1.387 1.289 1.161  1.287    7.39
 93)  butyl acrylate
      0.768 0.791       0.950 0.981       0.975 0.879 0.796        0.877   10.56
 94)  bromoform
      0.253 0.268 0.251 0.286 0.294 0.243 0.296 0.269 0.255 0.239  0.265    7.80
 95)  isopropylbenzene
      2.124 2.198 1.842 2.220 2.209 2.033 2.133 2.196 2.104 1.948  2.101    5.95
 96)  cis-1,4-dichloro-2-butene
      0.159 0.155 0.183 0.187 0.192 0.160 0.192 0.175 0.160        0.174    8.89

 97) I   1,4-dichlorobenzene-d ----------------ISTD---------------------
 98)  4-bromofluorobenzene (s)
      1.124 1.133 1.137 1.114 1.114 1.145 1.123 1.137 1.126 1.141  1.129    0.96
 99)  bromobenzene
      1.062 1.130 1.101 1.049 1.026 1.131 0.985 1.059 1.032 1.087  1.066    4.39
100)  1,1,2,2-tetrachloroethane
      1.027 1.135 1.119 1.042 1.005 1.059 0.979 1.039 1.034 1.084  1.052    4.61
101)  trans-1,4-dichloro-2-butene
      0.245 0.292 0.249 0.283 0.283 0.239 0.280 0.268 0.255        0.266    7.29
102)  1,2,3-trichloropropane
      0.276 0.298 0.263 0.280 0.269 0.301 0.257 0.277 0.281        0.278    5.28
103)  n-propylbenzene
      4.969 5.288 4.778 5.044 4.907 4.990 4.577 5.071 4.979 4.874  4.948    3.79
104)  2-chlorotoluene
      1.029 1.130 0.933 1.008 0.984 1.063 0.919 1.021 1.014 0.901  1.000    6.97
105)  4-chlorotoluene
      3.028 3.240 3.110 3.017 2.973 3.046 2.863 3.013 3.016 3.117  3.042    3.26
106)  1,3,5-trimethylbenzene
      3.491 3.733 3.158 3.624 3.530 3.491 3.330 3.639 3.522 3.206  3.472    5.39
107)  tert-butylbenzene
      2.968 3.121       3.181 3.100 2.950 2.962 3.111 2.983        3.047    2.97
108)  1,2,4-trimethylbenzene
      3.434 3.562 3.190 3.596 3.536 3.294 3.365 3.595 3.504 3.112  3.419    5.06
109)  sec-butylbenzene
      4.300 4.578 3.803 4.564 4.411 4.410 4.200 4.490 4.399 4.083  4.324    5.53
110)  1,3-dichlorobenzene
      1.924 2.051 1.951 1.917 1.908 1.937 1.843 1.913 1.915 1.885  1.924    2.77
111)  p-isopropyltoluene
      3.529 3.708 3.182 3.806 3.723 3.415 3.565 3.736 3.590 3.425  3.568    5.31
112)  1,4-dichlorobenzene
      1.928 2.154 1.960 1.946 1.925 2.091 1.872 1.922 1.892 2.094  1.978    4.94
113)  1,2-dichlorobenzene
```

Initial Calibration Summary

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY
Sample: V2E8157-ICC8157
Lab FileID: 2E162823.D

```
       1.875 1.983 1.897 1.912 1.876 1.873 1.815 1.897 1.868 2.009  1.901    2.99
114)  n-butylbenzene
       1.731 1.812 1.520 1.906 1.885 1.679 1.800 1.858 1.774        1.774    6.74
115)  1,2-dibromo-3-chloropropane
       0.189 0.212 0.190 0.219 0.220 0.199 0.214 0.211 0.200        0.206    5.70
116)  1,3,5-trichlorobenzene
       1.494 1.595 1.504 1.640 1.618 1.548 1.532 1.575 1.516 1.637  1.566    3.52
117)  1,2,4-trichlorobenzene
       1.180 1.246 1.169 1.402 1.398 1.117 1.317 1.307 1.214 1.245  1.260    7.60
118)  2-ethylhexyl acrylate
                     0.774 0.862       0.947 0.549 0.457        0.718   28.98
             ----- Linear regression -----  Coefficient =  0.9954
               Response Ratio = -0.02119 + 0.94017 *A

119)  hexachlorobutadiene
       0.682 0.731 0.621 0.719 0.705 0.711 0.675 0.697 0.683 0.655  0.688    4.74
120)  naphthalene
       2.633 2.655       3.167 3.099 2.395 2.902 2.989 2.731        2.821    9.32
121)  1,2,3-trichlorobenzene
       1.097 1.179 1.030 1.283 1.248 1.142 1.187 1.212 1.162 1.144  1.169    6.22
122)  hexachloroethane
       0.543 0.607 0.475 0.626 0.635 0.535 0.633 0.580 0.563        0.577    9.32
123)  benzyl chloride
       1.575 1.742 1.658 1.836 1.838 1.639 1.794 1.741 1.627 1.771  1.722    5.34
124)  2-methylnaphthalene
                     1.410 1.490       1.470 1.164 0.935        1.294   18.50
125)  Bis(chloromethyl)ether
                                                                0.000#  -1.00
126)  Ethylenimine
                                                                0.000#  -1.00

127) I   pentafluorobenzene(a) ----------------ISTD---------------------
128)  freon 142B
       0.698 0.701       0.697 0.715 0.678 0.689 0.688 0.643        0.689    3.12
129)  allyl chloride
       0.354 0.373       0.350 0.370 0.332 0.360 0.350 0.334        0.353    4.23

130) I   1,4-dichlorobenzene-d ---------------ISTD---------------------
131)  4-ethyltoluene
       3.662 3.682       3.855 3.942 3.358 3.692 3.760 3.523        3.684    4.97
132)  pentachloroethane
       0.557 0.560       0.615 0.648 0.608 0.636 0.575 0.558        0.595    6.18
133)  1,4-diethylbenzene
       1.902 1.835       2.092 2.157 1.806 2.044 2.021 1.849        1.963    6.73
134)  1,2,4,5-tetramethylbenzene
       3.125 3.090       3.521 3.610 2.935 3.392 3.392 3.124        3.274    7.26
 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          M2E8157.M         Thu Jul 16 12:13:31 2020
```

Initial Calibration Verification

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample: V2E8157-ICV8157
Lab FileID: 2E162828.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\V2E8157\2E162828.D Vial: 15
Acq On : 15 Jul 2020 12:33 am Operator: brittank
Sample : icv8157-50 Inst : VOAMS2E
Misc : MS44041,V2E8157,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M2E8157.M (RTE Integrator)
Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
Last Update : Wed Jul 15 11:31:23 2020
Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	tert butyl alcohol-d9	1.000	1.000	0.0	100	0.00	7.29
2		ethanol	0.143	0.121	15.4	90	-0.01	6.04
3	M	tertiary butyl alcohol	1.644	1.363	17.1	93	-0.01	7.40
4		1,4-dioxane	0.113	0.098	13.3	90	0.00	11.16
5	I	pentafluorobenzene	1.000	1.000	0.0	104	0.00	9.52
6		chlorodifluoromethane		----------NA----------				
7	M	dichlorodifluoromethane	1.079	0.758	29.7	69	0.00	3.97
8	M	chloromethane	1.179	0.943	20.0	85	-0.02	4.36
9	M	vinyl chloride	1.049	0.921	12.2	88	-0.01	4.59
10	M	bromomethane	0.615	0.540	12.2	92	-0.01	5.22
11	M	chloroethane	0.599	0.524	12.5	92	0.00	5.37
12	M	trichlorofluoromethane	1.043	0.952	8.7	94	-0.02	5.82
13		1,3-butadiene	0.786	0.746	5.1	97	-0.01	4.62
14		vinyl bromide	0.409	0.410	-0.2	102	-0.01	5.71
15	M	ethyl ether	0.383	0.358	6.5	98	0.00	6.21
16	M	acrolein	0.125	0.116	7.2	94	-0.01	6.46
17		freon 113	0.494	0.471	4.7	98	-0.01	6.60
18	M	1,1-dichloroethene	1.003	0.877	12.6	90	0.00	6.63
19	M	acetone	0.166	0.147	11.4	96	0.00	6.67
20		acetonitrile	0.089	0.070	21.3	85	-0.01	7.10
21	M	iodomethane	1.031	0.902	12.5	89	0.00	6.91
22	M	carbon disulfide	1.795	1.986	-10.6	114	-0.01	7.03
23	M	methylene chloride	0.705	0.642	8.9	97	0.00	7.34
24	M	methyl acetate	0.506	0.435	14.0	93	0.00	7.13
25	M	methyl tert butyl ether	1.789	1.727	3.5	100	0.00	7.67
26	M	trans-1,2-dichloroethene	0.976	0.911	6.7	96	0.00	7.71
27		hexane	0.522	0.546	-4.6	107	0.00	8.01
28	M	di-isopropyl ether	2.346	2.170	7.5	93	0.00	8.25
29	M	ethyl tert-butyl ether	2.184	1.990	8.9	93	0.00	8.72
30	M	2-butanone	0.061	0.065	-6.6	104	0.00	8.97
31	M	1,1-dichloroethane	1.227	1.168	4.8	99	0.00	8.27
32	M	chloroprene	0.946	0.961	-1.6	102	0.00	8.38
33	M	acrylonitrile	0.239	0.249	-4.2	107	0.00	7.66
34	M	vinyl acetate	0.124	0.123	0.8	91	0.00	8.26
35	M	ethyl acetate	0.096	0.095	1.0	96	0.00	9.00
36	M	2,2-dichloropropane	0.938	0.790	15.8	92	0.00	9.01
37	M	cis-1,2-dichloroethene	0.708	0.646	8.8	96	0.00	9.01
38	M	propionitrile	0.088	0.084	4.5	101	0.00	9.07
39		methyl acrylate	0.078	0.082	-5.1	97	-0.01	9.07
40	M	bromochloromethane	0.322	0.312	3.1	100	0.00	9.32
41	M	tetrahydrofuran	0.077	0.074	3.9	103	0.00	9.37

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Sample: V2E8157-ICV8157
Lab FileID: 2E162828.D

42	M	chloroform	1.141	1.020	10.6	99	0.00	9.38
43		t-butyl formate	0.520	0.440	15.4	82	0.00	9.41
44		1,1-dichloropropene	0.894	0.855	4.4	99	0.00	9.81
45		carbon tetrachloride	0.812	0.780	3.9	98	0.00	9.84
46		isopropyl acetate	0.134	0.127	5.2	95	0.00	9.99
47	S	dibromofluoromethane (s)	0.499	0.488	2.2	102	0.00	9.58
48	M	methacrylonitrile	0.230	0.242	-5.2	103	0.00	9.26
49	M	1,1,1-trichloroethane	0.950	0.901	5.2	97	0.00	9.63
50		cyclohexane	1.043	1.075	-3.1	102	0.00	9.71
51		iso-butyl alcohol	0.026	0.024	7.7	97	0.00	9.81
52		tert amyl alcohol	0.031	0.029	6.5	100	0.00	9.94
53	I	1,4-difluorobenzene	1.000	1.000	0.0	104	0.00	10.44
54	S	1,2-dichloroethane-d4 (s)	0.379	0.375	1.1	103	0.00	9.99
55		2,2,4-trimethylpentane	1.632	1.564	4.2	94	0.00	10.07
56	M	n-butyl alcohol	0.011	0.010	9.1	91	0.00	10.57
57	M	benzene	1.812	1.682	7.2	99	0.00	10.07
58		tert-amyl methyl ether	1.383	1.222	11.6	91	0.00	10.10
59	M	heptane	0.316	0.318	-0.6	99	0.00	10.24
60	M	1,2-dichloroethane	0.556	0.519	6.7	100	0.00	10.08
61		ethyl acrylate	0.475	0.473	0.4	98	0.00	10.79
62	M	trichloroethene	0.415	0.409	1.4	101	0.00	10.79
63	M	2-nitropropane	0.127	0.125	1.6	103	0.00	11.55
64	M	2-chloroethyl vinyl ether	0.222	0.229	-3.2	97	0.00	11.57
65	M	methyl methacrylate	0.095	0.101	-6.3	102	0.00	11.05
66	M	1,2-dichloropropane	0.470	0.450	4.3	98	0.00	11.05
67	M	methylcyclohexane	0.823	0.802	2.6	97	0.00	11.01
68	M	dibromomethane	0.241	0.228	5.4	97	0.00	11.21
69	M	bromodichloromethane	0.546	0.507	7.1	97	0.00	11.34
70		epichlorohydrin	0.039	0.038	2.6	101	0.00	11.69
71	M	cis-1,3-dichloropropene	0.688	0.670	2.6	97	0.00	11.79
72	M	4-methyl-2-pentanone	0.147	0.150	-2.0	99	0.00	11.88
73	M	3-methyl-1-butanol	0.010	0.011	-10.0	99	0.00	11.90
74	I	chlorobenzene-d5	1.000	1.000	0.0	102	0.00	13.58
75	S	toluene-d8 (s)	1.585	1.591	-0.4	103	0.00	12.08
76		toluene	1.239	1.218	1.7	99	0.00	12.15
77		ethyl methacrylate	0.575	0.621	-8.0	102	0.00	12.34
78		trans-1,3-dichloropropene	0.703	0.724	-3.0	100	0.00	12.35
79		1,1,2-trichloroethane	0.361	0.348	3.6	99	0.00	12.56
80	M	tetrachloroethene	0.405	0.401	1.0	102	0.00	12.74
81		2-hexanone	0.159	0.166	-4.4	97	0.00	12.73
82	M	1,3-dichloropropane	0.742	0.715	3.6	98	0.00	12.74
83	M	butyl acetate	0.316	0.326	-3.2	98	0.00	12.80
84	M	dibromochloromethane	0.450	0.463	-2.9	103	0.00	13.01
85	M	1,2-dibromoethane	0.540	0.554	-2.6	103	0.00	13.16
86		n-butyl ether	2.197	2.269	-3.3	98	0.00	13.53
87	M	chlorobenzene	1.303	1.269	2.6	99	0.00	13.61
88	M	1,1,1,2-tetrachloroethane	0.449	0.448	0.2	100	0.00	13.67
89	M	ethylbenzene	2.217	2.195	1.0	99	0.00	13.67
90	M	m,p-xylene	0.836	0.841	-0.6	99	0.00	13.77
91	M	o-xylene	1.776	1.774	0.1	99	0.00	14.19
92	M	styrene	1.287	1.370	-6.4	100	0.00	14.20
93		butyl acrylate	0.877	0.915	-4.3	99	0.00	14.02
94	M	bromoform	0.265	0.295	-11.3	106	0.00	14.46
95		isopropylbenzene	2.101	2.134	-1.6	98	0.00	14.53
96		cis-1,4-dichloro-2-butene	0.174	0.189	-8.6	103	0.00	14.60
97	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	105	0.00	15.88
98	S	4-bromofluorobenzene (s)	1.129	1.109	1.8	104	0.00	14.73

Initial Calibration Verification

Job Number: JD10241
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Project: Former Carlysle Compressor, Syracuse, NY

Sample: V2E8157-ICV8157
Lab FileID: 2E162828.D

99	M	bromobenzene	1.066	1.004	5.8	100	0.00	14.92
100	M	1,1,2,2-tetrachloroethane	1.052	0.975	7.3	98	0.00	14.83
101	M	trans-1,4-dichloro-2-bute	0.266	0.275	-3.4	102	0.00	14.87
102	M	1,2,3-trichloropropane	0.278	0.263	5.4	98	0.00	14.90
103	M	n-propylbenzene	4.948	4.771	3.6	99	0.00	14.93
104	M	2-chlorotoluene	1.000	0.929	7.1	97	0.00	15.08
105	M	4-chlorotoluene	3.042	2.917	4.1	101	0.00	15.18
106	M	1,3,5-trimethylbenzene	3.472	3.391	2.3	98	0.00	15.09
107	M	tert-butylbenzene	3.047	2.975	2.4	98	0.00	15.43
108	M	1,2,4-trimethylbenzene	3.419	3.451	-0.9	101	0.00	15.47
109	M	sec-butylbenzene	4.324	4.249	1.7	98	0.00	15.64
110	M	1,3-dichlorobenzene	1.924	1.875	2.5	103	0.00	15.82
111	M	p-isopropyltoluene	3.568	3.596	-0.8	99	0.00	15.76
112	M	1,4-dichlorobenzene	1.978	1.883	4.8	101	0.00	15.91
113	M	1,2-dichlorobenzene	1.901	1.834	3.5	101	0.00	16.29
114	M	n-butylbenzene	1.774	1.786	-0.7	98	0.00	16.16
115	M	1,2-dibromo-3-chloropropa	0.206	0.205	0.5	98	0.00	17.01
116		1,3,5-trichlorobenzene	1.566	1.576	-0.6	101	0.00	17.18
117	M	1,2,4-trichlorobenzene	1.260	1.320	-4.8	99	0.00	17.76
			True	Calc.	% Drift			
118		2-ethylhexyl acrylate	10.000	9.284	7.2	104	0.00	17.73
			AvgRF	CCRF	% Dev			
119	M	hexachlorobutadiene	0.688	0.662	3.8	97	0.00	17.86
120	M	naphthalene	2.821	3.019	-7.0	100	0.00	18.01
121	M	1,2,3-trichlorobenzene	1.169	1.198	-2.5	98	0.00	18.24
122	M	hexachloroethane	0.577	0.603	-4.5	101	0.00	16.54
123		benzyl chloride	1.722	1.358	21.1	78	0.00	16.02
124		2-methylnaphthalene	1.294	1.435	-10.9	107	0.00	19.10
125		Bis(chloromethyl)ether		----------NA----------				
126		Ethylenimine		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2E162823.D M2E8157.M Wed Jul 15 11:53:25 2020

Initial Calibration Verification

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample: V2E8157-ICV8157
Lab FileID: 2E162829.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\V2E8157\2E162829.D Vial: 16
Acq On : 15 Jul 2020 1:03 am Operator: brittank
Sample : icv8157-50 Inst : VOAMS2E
Misc : MS44041,V2E8157,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M2E8157.M (RTE Integrator)
Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
Last Update : Wed Jul 15 11:31:23 2020
Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	tert butyl alcohol-d9	1.000	1.000	0.0	108	0.00	7.29
2		ethanol		----------NA----------				
3	M	tertiary butyl alcohol		----------NA----------				
4		1,4-dioxane		----------NA----------				
5	I	pentafluorobenzene	1.000	1.000	0.0	107	0.00	9.53
6		chlorodifluoromethane		----------NA----------				
7	M	dichlorodifluoromethane		----------NA----------				
8	M	chloromethane		----------NA----------				
9	M	vinyl chloride		----------NA----------				
10	M	bromomethane		----------NA----------				
11	M	chloroethane		----------NA----------				
12	M	trichlorofluoromethane		----------NA----------				
13		1,3-butadiene		----------NA----------				
14		vinyl bromide		----------NA----------				
15	M	ethyl ether		----------NA----------				
16	M	acrolein		----------NA----------				
17		freon 113		----------NA----------				
18	M	1,1-dichloroethene		----------NA----------				
19	M	acetone		----------NA----------				
20		acetonitrile	0.089	0.084	5.6	104	0.00	7.10
21	M	iodomethane		----------NA----------				
22	M	carbon disulfide		----------NA----------				
23	M	methylene chloride		----------NA----------				
24	M	methyl acetate		----------NA----------				
25	M	methyl tert butyl ether		----------NA----------				
26	M	trans-1,2-dichloroethene		----------NA----------				
27		hexane		----------NA----------				
28	M	di-isopropyl ether		----------NA----------				
29	M	ethyl tert-butyl ether		----------NA----------				
30	M	2-butanone		----------NA----------				
31	M	1,1-dichloroethane		----------NA----------				
32	M	chloroprene		----------NA----------				
33	M	acrylonitrile	0.239	0.238	0.4	106	0.00	7.66
34	M	vinyl acetate		----------NA----------				
35	M	ethyl acetate		----------NA----------				
36	M	2,2-dichloropropane		----------NA----------				
37	M	cis-1,2-dichloroethene		----------NA----------				
38	M	propionitrile		----------NA----------				
39		methyl acrylate		----------NA----------				
40	M	bromochloromethane		----------NA----------				
41	M	tetrahydrofuran		----------NA----------				

Initial Calibration Verification

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample: V2E8157-ICV8157
Lab FileID: 2E162829.D

42	M	chloroform		----------NA----------				
43		t-butyl formate		----------NA----------				
44		1,1-dichloropropene		----------NA----------				
45		carbon tetrachloride		----------NA----------				
46		isopropyl acetate		----------NA----------				
47	S	dibromofluoromethane (s)	0.499	0.489	2.0	105	0.00	9.58
48	M	methacrylonitrile		----------NA----------				
49	M	1,1,1-trichloroethane		----------NA----------				
50		cyclohexane		----------NA----------				
51		iso-butyl alcohol		----------NA----------				
52		tert amyl alcohol		----------NA----------				
53	I	1,4-difluorobenzene	1.000	1.000	0.0	106	0.00	10.45
54	S	1,2-dichloroethane-d4 (s)	0.379	0.383	-1.1	108	0.00	9.99
55		2,2,4-trimethylpentane		----------NA----------				
56	M	n-butyl alcohol		----------NA----------				
57	M	benzene		----------NA----------				
58		tert-amyl methyl ether		----------NA----------				
59	M	heptane		----------NA----------				
60	M	1,2-dichloroethane		----------NA----------				
61		ethyl acrylate		----------NA----------				
62	M	trichloroethene		----------NA----------				
63	M	2-nitropropane		----------NA----------				
64	M	2-chloroethyl vinyl ether		----------NA----------				
65	M	methyl methacrylate		----------NA----------				
66	M	1,2-dichloropropane		----------NA----------				
67	M	methylcyclohexane		----------NA----------				
68	M	dibromomethane		----------NA----------				
69	M	bromodichloromethane		----------NA----------				
70		epichlorohydrin		----------NA----------				
71	M	cis-1,3-dichloropropene		----------NA----------				
72	M	4-methyl-2-pentanone		----------NA----------				
73	M	3-methyl-1-butanol		----------NA----------				
74	I	chlorobenzene-d5	1.000	1.000	0.0	105	0.00	13.59
75	S	toluene-d8 (s)	1.585	1.569	1.0	105	0.00	12.08
76		toluene		----------NA----------				
77		ethyl methacrylate		----------NA----------				
78		trans-1,3-dichloropropene		----------NA----------				
79		1,1,2-trichloroethane		----------NA----------				
80	M	tetrachloroethene	0.405	0.400	1.2	105	0.00	12.74
81		2-hexanone		----------NA----------				
82	M	1,3-dichloropropane		----------NA----------				
83	M	butyl acetate		----------NA----------				
84	M	dibromochloromethane		----------NA----------				
85	M	1,2-dibromoethane		----------NA----------				
86		n-butyl ether		----------NA----------				
87	M	chlorobenzene		----------NA----------				
88	M	1,1,1,2-tetrachloroethane		----------NA----------				
89	M	ethylbenzene		----------NA----------				
90	M	m,p-xylene		----------NA----------				
91	M	o-xylene		----------NA----------				
92	M	styrene		----------NA----------				
93		butyl acrylate		----------NA----------				
94	M	bromoform		----------NA----------				
95		isopropylbenzene		----------NA----------				
96		cis-1,4-dichloro-2-butene		----------NA----------				
97	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	103	0.00	15.88
98	S	4-bromofluorobenzene (s)	1.129	1.148	-1.7	106	0.00	14.73

Initial Calibration Verification

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample: V2E8157-ICV8157
Lab FileID: 2E162829.D

```
 99 M   bromobenzene                        ----------NA----------
100 M   1,1,2,2-tetrachloroethane           ----------NA----------
101 M   trans-1,4-dichloro-2-bute           ----------NA----------
102 M   1,2,3-trichloropropane              ----------NA----------
103 M   n-propylbenzene                     ----------NA----------
104 M   2-chlorotoluene                     ----------NA----------
105 M   4-chlorotoluene                     ----------NA----------
106 M   1,3,5-trimethylbenzene              ----------NA----------
107 M   tert-butylbenzene                   ----------NA----------
108 M   1,2,4-trimethylbenzene              ----------NA----------
109 M   sec-butylbenzene                    ----------NA----------
110 M   1,3-dichlorobenzene                 ----------NA----------
111 M   p-isopropyltoluene                  ----------NA----------
112 M   1,4-dichlorobenzene                 ----------NA----------
113 M   1,2-dichlorobenzene                 ----------NA----------
114 M   n-butylbenzene                      ----------NA----------
115 M   1,2-dibromo-3-chloropropa           ----------NA----------
116     1,3,5-trichlorobenzene              ----------NA----------
117 M   1,2,4-trichlorobenzene              ----------NA----------

            ----------------------- True    Calc.   % Drift  ------------
118     2-ethylhexyl acrylate               ----------NA----------

            ----------------------- AvgRF   CCRF     % Dev   -------------
119 M   hexachlorobutadiene                ----------NA----------
120 M   naphthalene                         ----------NA----------
121 M   1,2,3-trichlorobenzene              ----------NA----------
122 M   hexachloroethane                    ----------NA----------
123     benzyl chloride                     ----------NA----------
124     2-methylnaphthalene                 ----------NA----------
125     Bis(chloromethyl)ether              ----------NA----------
126     Ethylenimine                        ----------NA----------
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    (#) = Out of Range              SPCC's out = 0  CCC's out = 0
     2E162823.D M2E8157.M        Wed Jul 15 11:53:28 2020
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Initial Calibration Verification

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample: V2E8157-ICV8157
Lab FileID: 2E162834.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\V2E8157\2E162834.D Vial: 21
Acq On : 15 Jul 2020 12:22 pm Operator: brittank
Sample : icv8157-50 Inst : VOAMS2E
Misc : MS44041,V2E8157,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M2E8157.M (RTE Integrator)
Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
Last Update : Wed Jul 15 11:31:23 2020
Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	tert butyl alcohol-d9	1.000	1.000	0.0	107	0.00	7.30
2		ethanol		----------NA----------				
3	M	tertiary butyl alcohol		----------NA----------				
4		1,4-dioxane		----------NA----------				
5	I	pentafluorobenzene	1.000	1.000	0.0	101	0.00	9.53
6		chlorodifluoromethane	1.042	1.116	-7.1	109	0.00	4.00
7	M	dichlorodifluoromethane		----------NA----------				
8	M	chloromethane		----------NA----------				
9	M	vinyl chloride		----------NA----------				
10	M	bromomethane		----------NA----------				
11	M	chloroethane		----------NA----------				
12	M	trichlorofluoromethane		----------NA----------				
13		1,3-butadiene		----------NA----------				
14		vinyl bromide		----------NA----------				
15	M	ethyl ether		----------NA----------				
16	M	acrolein		----------NA----------				
17		freon 113		----------NA----------				
18	M	1,1-dichloroethene		----------NA----------				
19	M	acetone		----------NA----------				
20		acetonitrile		----------NA----------				
21	M	iodomethane		----------NA----------				
22	M	carbon disulfide		----------NA----------				
23	M	methylene chloride		----------NA----------				
24	M	methyl acetate		----------NA----------				
25	M	methyl tert butyl ether		----------NA----------				
26	M	trans-1,2-dichloroethene		----------NA----------				
27		hexane		----------NA----------				
28	M	di-isopropyl ether		----------NA----------				
29	M	ethyl tert-butyl ether		----------NA----------				
30	M	2-butanone		----------NA----------				
31	M	1,1-dichloroethane		----------NA----------				
32	M	chloroprene		----------NA----------				
33	M	acrylonitrile		----------NA----------				
34	M	vinyl acetate		----------NA----------				
35	M	ethyl acetate		----------NA----------				
36	M	2,2-dichloropropane		----------NA----------				
37	M	cis-1,2-dichloroethene		----------NA----------				
38	M	propionitrile		----------NA----------				
39		methyl acrylate		----------NA----------				
40	M	bromochloromethane		----------NA----------				
41	M	tetrahydrofuran		----------NA----------				

Initial Calibration Verification

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample: V2E8157-ICV8157
Lab FileID: 2E162834.D

42	M	chloroform		----------NA----------					
43		t-butyl formate		----------NA----------					
44		1,1-dichloropropene		----------NA----------					
45		carbon tetrachloride		----------NA----------					
46		isopropyl acetate		----------NA----------					
47	S	dibromofluoromethane (s)	0.499	0.497	0.4	101	0.00	9.58	
48	M	methacrylonitrile		----------NA----------					
49	M	1,1,1-trichloroethane		----------NA----------					
50		cyclohexane		----------NA----------					
51		iso-butyl alcohol		----------NA----------					
52		tert amyl alcohol		----------NA----------					
53	I	1,4-difluorobenzene	1.000	1.000	0.0	102	0.00	10.45	
54	S	1,2-dichloroethane-d4 (s)	0.379	0.385	-1.6	103	0.00	9.99	
55		2,2,4-trimethylpentane		----------NA----------					
56	M	n-butyl alcohol		----------NA----------					
57	M	benzene		----------NA----------					
58		tert-amyl methyl ether		----------NA----------					
59	M	heptane		----------NA----------					
60	M	1,2-dichloroethane		----------NA----------					
61		ethyl acrylate		----------NA----------					
62	M	trichloroethene		----------NA----------					
63	M	2-nitropropane		----------NA----------					
64	M	2-chloroethyl vinyl ether		----------NA----------					
65	M	methyl methacrylate		----------NA----------					
66	M	1,2-dichloropropane		----------NA----------					
67	M	methylcyclohexane		----------NA----------					
68	M	dibromomethane		----------NA----------					
69	M	bromodichloromethane		----------NA----------					
70		epichlorohydrin		----------NA----------					
71	M	cis-1,3-dichloropropene		----------NA----------					
72	M	4-methyl-2-pentanone		----------NA----------					
73	M	3-methyl-1-butanol		----------NA----------					
74	I	chlorobenzene-d5	1.000	1.000	0.0	101	0.00	13.59	
75	S	toluene-d8 (s)	1.585	1.589	-0.3	102	0.00	12.08	
76		toluene		----------NA----------					
77		ethyl methacrylate		----------NA----------					
78		trans-1,3-dichloropropene		----------NA----------					
79		1,1,2-trichloroethane		----------NA----------					
80	M	tetrachloroethene		----------NA----------					
81		2-hexanone		----------NA----------					
82	M	1,3-dichloropropane		----------NA----------					
83	M	butyl acetate		----------NA----------					
84	M	dibromochloromethane		----------NA----------					
85	M	1,2-dibromoethane		----------NA----------					
86		n-butyl ether		----------NA----------					
87	M	chlorobenzene		----------NA----------					
88	M	1,1,1,2-tetrachloroethane		----------NA----------					
89	M	ethylbenzene		----------NA----------					
90	M	m,p-xylene		----------NA----------					
91	M	o-xylene		----------NA----------					
92	M	styrene		----------NA----------					
93		butyl acrylate		----------NA----------					
94	M	bromoform		----------NA----------					
95		isopropylbenzene		----------NA----------					
96		cis-1,4-dichloro-2-butene		----------NA----------					
97	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	97	0.00	15.88	
98	S	4-bromofluorobenzene (s)	1.129	1.159	-2.7	101	0.00	14.73	

Initial Calibration Verification

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample: V2E8157-ICV8157
Lab FileID: 2E162834.D

99	M	bromobenzene	----------NA----------	
100	M	1,1,2,2-tetrachloroethane	----------NA----------	
101	M	trans-1,4-dichloro-2-bute	----------NA----------	
102	M	1,2,3-trichloropropane	----------NA----------	
103	M	n-propylbenzene	----------NA----------	
104	M	2-chlorotoluene	----------NA----------	
105	M	4-chlorotoluene	----------NA----------	
106	M	1,3,5-trimethylbenzene	----------NA----------	
107	M	tert-butylbenzene	----------NA----------	
108	M	1,2,4-trimethylbenzene	----------NA----------	
109	M	sec-butylbenzene	----------NA----------	
110	M	1,3-dichlorobenzene	----------NA----------	
111	M	p-isopropyltoluene	----------NA----------	
112	M	1,4-dichlorobenzene	----------NA----------	
113	M	1,2-dichlorobenzene	----------NA----------	
114	M	n-butylbenzene	----------NA----------	
115	M	1,2-dibromo-3-chloropropa	----------NA----------	
116		1,3,5-trichlorobenzene	----------NA----------	
117	M	1,2,4-trichlorobenzene	----------NA----------	
		---------- True	Calc.	% Drift ----------
118		2-ethylhexyl acrylate	----------NA----------	
		---------- AvgRF	CCRF	% Dev ----------
119	M	hexachlorobutadiene	----------NA----------	
120	M	naphthalene	----------NA----------	
121	M	1,2,3-trichlorobenzene	----------NA----------	
122	M	hexachloroethane	----------NA----------	
123		benzyl chloride	----------NA----------	
124		2-methylnaphthalene	----------NA----------	
125		Bis(chloromethyl)ether	----------NA----------	
126		Ethylenimine	----------NA----------	

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2E162823.D M2E8157.M Wed Jul 15 13:41:22 2020

Continuing Calibration Summary

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample: V2E8165-CC8157
Lab FileID: 2E162969.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\lo...e8165-rush\2e162969.d Vial: 4
Acq On : 20 Jul 2020 11:05 am Operator: krizhkac
Sample : CC8157-20 Inst : VOAMS2E
Misc : MS44525,V2E8165,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M2E8157.M (RTE Integrator)
Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
Last Update : Thu Jul 16 11:01:59 2020
Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	tert butyl alcohol-d9	1.000	1.000	0.0	93	0.00	7.30
2		ethanol	0.143	0.126	11.9	87	0.00	6.05
3	M	tertiary butyl alcohol	1.644	1.449	11.9	86	0.00	7.42
4		1,4-dioxane	0.113	0.108	4.4	91	0.00	11.16
5	I	pentafluorobenzene	1.000	1.000	0.0	87	0.00	9.53
6		chlorodifluoromethane	1.042	0.955	8.3	79	0.00	4.00
7	M	dichlorodifluoromethane	1.079	0.906	16.0	72	0.00	3.97
8	M	chloromethane	1.179	1.032	12.5	79	0.00	4.37
9	M	vinyl chloride	1.049	0.943	10.1	78	0.00	4.60
10	M	bromomethane	0.615	0.583	5.2	85	0.00	5.23
11	M	chloroethane	0.599	0.534	10.9	82	0.00	5.38
12	M	trichlorofluoromethane	1.043	0.939	10.0	80	0.00	5.84
13		1,3-butadiene	0.786	0.700	10.9	78	0.00	4.63
14		vinyl bromide	0.409	0.350	14.4	77	0.00	5.73
15	M	ethyl ether	0.383	0.368	3.9	85	0.00	6.21
16	M	acrolein	0.125	0.118	5.6	83	0.00	6.47
17		freon 113	0.494	0.449	9.1	80	0.00	6.61
18	M	1,1-dichloroethene	1.003	0.932	7.1	81	0.00	6.64
19	M	acetone	0.166	0.162	2.4	88	0.00	6.68
20		acetonitrile	0.089	0.090	-1.1	90	0.00	7.11
21	M	iodomethane	1.031	1.043	-1.2	88	0.00	6.92
22	M	carbon disulfide	1.795	1.681	6.4	83	0.00	7.05
23	M	methylene chloride	0.705	0.693	1.7	87	0.00	7.34
24	M	methyl acetate	0.506	0.497	1.8	89	0.00	7.14
25	M	methyl tert butyl ether	1.789	1.757	1.8	87	0.00	7.68
26	M	trans-1,2-dichloroethene	0.976	0.934	4.3	84	0.00	7.72
27		hexane	0.522	0.471	9.8	79	0.00	8.02
28	M	di-isopropyl ether	2.346	2.285	2.6	84	0.00	8.26
29	M	ethyl tert-butyl ether	2.184	2.127	2.6	85	0.00	8.73
30	M	2-butanone	0.061	0.065	-6.6	89	0.01	8.98
31	M	1,1-dichloroethane	1.227	1.177	4.1	83	0.00	8.28
32	M	chloroprene	0.946	0.887	6.2	81	0.00	8.39
33	M	acrylonitrile	0.239	0.247	-3.3	90	0.00	7.67
34	M	vinyl acetate	0.124	0.130	-4.8	87	0.00	8.26
35	M	ethyl acetate	0.096	0.101	-5.2	86	0.00	9.00
36	M	2,2-dichloropropane	0.938	0.834	11.1	81	0.00	9.01
37	M	cis-1,2-dichloroethene	0.708	0.673	4.9	84	0.00	9.01
38	M	propionitrile	0.088	0.088	0.0	89	0.00	9.07
39		methyl acrylate	0.078	0.083	-6.4	89	0.00	9.09
40	M	bromochloromethane	0.322	0.315	2.2	88	0.00	9.32
41	M	tetrahydrofuran	0.077	0.078	-1.3	90	0.00	9.37

Continuing Calibration Summary

Job Number: JD10241 **Sample:** V2E8165-CC8157
Account: ENSCTN Ensafe, Inc **Lab FileID:** 2E162969.D
Project: Former Carlysle Compressor, Syracuse, NY

42	M	chloroform	1.141	1.079	5.4	87	0.00	9.38
43		t-butyl formate	0.520	0.432	16.9	74	0.00	9.41
44		1,1-dichloropropene	0.894	0.843	5.7	83	0.00	9.81
45		carbon tetrachloride	0.812	0.763	6.0	82	0.00	9.84
46		isopropyl acetate	0.134	0.139	-3.7	88	0.00	9.99
47	S	dibromofluoromethane (s)	0.499	0.502	-0.6	88	0.00	9.58
48	M	methacrylonitrile	0.230	0.239	-3.9	88	0.01	9.27
49	M	1,1,1-trichloroethane	0.950	0.902	5.1	83	0.00	9.63
50		cyclohexane	1.043	0.959	8.1	80	0.00	9.71
51		iso-butyl alcohol	0.026	0.026	0.0	90	0.00	9.82
52		tert amyl alcohol	0.031	0.031	0.0	88	0.00	9.94
53	I	1,4-difluorobenzene	1.000	1.000	0.0	87	0.00	10.44
54	S	1,2-dichloroethane-d4 (s)	0.379	0.376	0.8	86	0.00	9.99
55		2,2,4-trimethylpentane	1.632	1.489	8.8	79	0.00	10.07
56	M	n-butyl alcohol	0.011	0.012	-9.1	94	0.00	10.57
57	M	benzene	1.812	1.700	6.2	84	0.00	10.07
58		tert-amyl methyl ether	1.383	1.357	1.9	85	0.00	10.10
59	M	heptane	0.316	0.290	8.2	79	0.00	10.25
60	M	1,2-dichloroethane	0.556	0.536	3.6	87	0.00	10.08
61		ethyl acrylate	0.475	0.475	0.0	87	0.00	10.79
62	M	trichloroethene	0.415	0.403	2.9	84	0.00	10.79
63	M	2-nitropropane	0.127	0.128	-0.8	89	0.00	11.56
64	M	2-chloroethyl vinyl ether	0.222	0.240	-8.1	88	0.00	11.57
65	M	methyl methacrylate	0.095	0.098	-3.2	88	0.00	11.06
66	M	1,2-dichloropropane	0.470	0.459	2.3	85	0.00	11.05
67	M	methylcyclohexane	0.823	0.728	11.5	77	0.00	11.01
68	M	dibromomethane	0.241	0.244	-1.2	87	0.00	11.21
69	M	bromodichloromethane	0.546	0.522	4.4	85	0.00	11.34
70		epichlorohydrin	0.039	0.039	0.0	88	0.00	11.70
71	M	cis-1,3-dichloropropene	0.688	0.670	2.6	85	0.00	11.79
72	M	4-methyl-2-pentanone	0.147	0.154	-4.8	87	0.00	11.88
73	M	3-methyl-1-butanol	0.010	0.011	-10.0	91	0.00	11.90
74	I	chlorobenzene-d5	1.000	1.000	0.0	88	0.00	13.59
75	S	toluene-d8 (s)	1.585	1.560	1.6	85	0.00	12.08
76		toluene	1.239	1.193	3.7	84	0.00	12.15
77		ethyl methacrylate	0.575	0.581	-1.0	87	0.00	12.34
78		trans-1,3-dichloropropene	0.703	0.707	-0.6	86	0.00	12.35
79		1,1,2-trichloroethane	0.361	0.348	3.6	86	0.00	12.56
80	M	tetrachloroethene	0.405	0.377	6.9	81	0.00	12.74
81		2-hexanone	0.159	0.164	-3.1	85	0.00	12.73
82	M	1,3-dichloropropane	0.742	0.722	2.7	85	0.00	12.74
83	M	butyl acetate	0.316	0.330	-4.4	87	0.00	12.80
84	M	dibromochloromethane	0.450	0.435	3.3	86	0.00	13.01
85	M	1,2-dibromoethane	0.540	0.542	-0.4	89	0.00	13.16
86		n-butyl ether	2.197	2.066	6.0	79	0.00	13.53
87	M	chlorobenzene	1.303	1.251	4.0	84	0.00	13.62
88	M	1,1,1,2-tetrachloroethane	0.449	0.435	3.1	83	0.00	13.68
89	M	ethylbenzene	2.217	2.115	4.6	82	0.00	13.67
90	M	m,p-xylene	0.836	0.810	3.1	82	0.00	13.77
91	M	o-xylene	1.776	1.724	2.9	83	0.00	14.19
92	M	styrene	1.287	1.332	-3.5	84	0.00	14.20
93		butyl acrylate	0.877	0.854	2.6	85	0.00	14.02
94	M	bromoform	0.265	0.273	-3.0	89	0.00	14.46
95		isopropylbenzene	2.101	2.024	3.7	81	0.00	14.53
96		cis-1,4-dichloro-2-butene	0.174	0.168	3.4	84	0.00	14.60
97	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	88	0.00	15.88
98	S	4-bromofluorobenzene (s)	1.129	1.111	1.6	86	0.00	14.73

Continuing Calibration Summary

Job Number: JD10241 **Sample:** V2E8165-CC8157
Account: ENSCTN Ensafe, Inc **Lab FileID:** 2E162969.D
Project: Former Carlysle Compressor, Syracuse, NY

99	M	bromobenzene	1.066	1.022	4.1	85	0.00	14.92
100	M	1,1,2,2-tetrachloroethane	1.052	1.021	2.9	87	0.00	14.83
101	M	trans-1,4-dichloro-2-bute	0.266	0.262	1.5	87	0.00	14.87
102	M	1,2,3-trichloropropane	0.278	0.282	-1.4	90	0.00	14.90
103	M	n-propylbenzene	4.948	4.704	4.9	82	0.00	14.93
104	M	2-chlorotoluene	1.000	0.963	3.7	83	0.00	15.08
105	M	4-chlorotoluene	3.042	2.886	5.1	85	0.00	15.18
106	M	1,3,5-trimethylbenzene	3.472	3.370	2.9	82	0.00	15.09
107	M	tert-butylbenzene	3.047	2.892	5.1	82	0.00	15.43
108	M	1,2,4-trimethylbenzene	3.419	3.379	1.2	83	0.00	15.47
109	M	sec-butylbenzene	4.324	4.104	5.1	81	0.00	15.64
110	M	1,3-dichlorobenzene	1.924	1.863	3.2	86	0.00	15.82
111	M	p-isopropyltoluene	3.568	3.481	2.4	82	0.00	15.76
112	M	1,4-dichlorobenzene	1.978	1.876	5.2	86	0.00	15.91
113	M	1,2-dichlorobenzene	1.901	1.844	3.0	86	0.00	16.29
114	M	n-butylbenzene	1.774	1.725	2.8	82	0.00	16.16
115	M	1,2-dibromo-3-chloropropa	0.206	0.208	-1.0	87	0.00	17.02
116		1,3,5-trichlorobenzene	1.566	1.534	2.0	86	0.00	17.18
117	M	1,2,4-trichlorobenzene	1.260	1.327	-5.3	90	0.00	17.76
		----------	True	Calc.	% Drift	----------		
118		2-ethylhexyl acrylate	4.000	3.689	7.8	97	0.00	17.73
		----------	AvgRF	CCRF	% Dev	----------		
119	M	hexachlorobutadiene	0.688	0.654	4.9	83	0.00	17.86
120	M	naphthalene	2.821	3.073	-8.9	91	0.00	18.01
121	M	1,2,3-trichlorobenzene	1.169	1.246	-6.6	91	0.00	18.24
122	M	hexachloroethane	0.577	0.547	5.2	83	0.00	16.54
123		benzyl chloride	1.722	1.744	-1.3	89	0.00	16.02
124		2-methylnaphthalene	1.294	1.316	-1.7	100	0.00	19.10
125		Bis(chloromethyl)ether		----------NA----------				
126		Ethylenimine		----------NA----------				
127	I	pentafluorobenzene(a)	1.000	1.000	0.0	87	0.00	9.53
128		freon 142B		----------NA----------				
129		allyl chloride		----------NA----------				
130		1,4-dichlorobenzene-d4(a)	N/A	1.00	0.0	65	-1.00#	15.88
131		4-ethyltoluene		----------NA----------				
132		pentachloroethane		----------NA----------				
133		1,4-diethylbenzene		----------NA----------				
134		1,2,4,5-tetramethylbenzen		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2E162822.D M2E8157.M Tue Jul 21 00:31:55 2020

Initial Calibration Summary

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample: V4D4496-ICC4496
Lab FileID: 4D101411.D

Response Factor Report MS4D

Method : C:\MSDCHEM\1\METHODS\M4D4496.M (RTE Integrator)
Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
Last Update : Fri Apr 17 16:29:00 2020
Response via : Initial Calibration

Calibration Files
1 =4D101406.D 0.5 =4D101405.D 100 =4D101412.D 50 =4D101411.D
20 =4D101410.D 200 =4D101413.D 4 =4D101408.D 2 =4D101407.D
8 =4D101409.D 0.2 =4D101404.D = =

Compound	1	0.5	100	50	20	200	4	2	8	0.2	Avg	%RSD
1) tert butyl alcohol-d9	----------ISTD----------											
2) tertiary butyl alcohol	1.149	1.125	1.144	1.119	1.143	1.112	1.097	1.125			1.127	1.60
3) ethanol	0.108	0.120	0.122	0.117	0.122	0.116	0.108	0.119			0.116	4.86
4) 1,4-dioxane	0.080	0.093	0.095	0.094	0.093	0.098	0.089	0.097			0.092	6.16
5) I pentafluorobenzene	----------ISTD----------											
6) chlorodifluoromethane											0.000	-1.00
7) dichlorodifluoromethane		0.452	0.446	0.421	0.471	0.379	0.405	0.379			0.422	8.59
8) chloromethane	0.395	0.429	0.428	0.400	0.466	0.389	0.420	0.390			0.415	6.38
9) vinyl chloride	0.371	0.371	0.459	0.441	0.416	0.493	0.402	0.399	0.408		0.418	9.61
10) bromomethane		0.181	0.150	0.127		0.104	0.094	0.114			0.128	25.29
----- Quadratic regression ----- Coefficient = 1.0000												
Response Ratio = -0.00147 + 0.11926 *A + 0.03134 *A^2												
11) chloroethane	0.201	0.276	0.274	0.268	0.278	0.249	0.245	0.255			0.256	10.00
12) trichlorofluoromethane		0.636	0.626	0.595	0.660	0.545	0.553	0.554			0.596	7.76
13) vinyl bromide	0.213	0.315	0.303	0.290	0.328	0.270	0.264	0.279			0.283	12.62
14) ethyl ether		0.244	0.231	0.219	0.239	0.200	0.173	0.212			0.217	11.37
15) acrolein		0.101	0.096	0.090	0.099			0.077			0.093	10.82
16) freon 113		0.291	0.281	0.264	0.290	0.240	0.227	0.244			0.262	9.84
17) 1,1-dichloroethene	0.320	0.293	0.379	0.367	0.368	0.373	0.338	0.339	0.352		0.348	8.09
18) acetone	0.176	0.198	0.194	0.188	0.191	0.180	0.168	0.182			0.184	5.51
19) acetonitrile	0.088	0.094	0.092	0.089	0.091	0.088	0.087	0.089			0.090	2.69
20) iodomethane												
This compound does not meet initial calibration criteria		0.348	0.283	0.180	0.357	0.027		0.065			0.210	67.85
21) carbon disulfide												

	0.972	0.961	0.908	0.898	0.951	0.903	0.909	0.902		0.925	3.30
22)	methylene chloride										
	0.358	0.420	0.403	0.390	0.416	0.379	0.373	0.386		0.391	5.47
23)	methyl acetate										
		0.516	0.499	0.492	0.503	0.428		0.440		0.480	7.58
24)	methyl tert butyl ether										
	1.112	1.088	1.272	1.216	1.207	1.251	1.168	1.141	1.183	1.182	5.19
25)	trans-1,2-dichloroethene										
	0.335	0.395	0.381	0.375	0.391	0.360	0.361	0.371		0.371	5.25
26)	di-isopropyl ether										
	1.188	1.120	1.338	1.310	1.308	1.303	1.283	1.251	1.293	1.266	5.49
27)	2-butanone										
		0.084	0.082	0.079	0.083	0.075	0.070	0.078		0.079	6.32
28)	1,1-dichloroethane										
	0.634	0.609	0.743	0.713	0.703	0.733	0.682	0.663	0.692	0.686	6.48
29)	chloroprene										
	0.441		0.589	0.572	0.566	0.575	0.514	0.483	0.550	0.536	9.74
30)	acrylonitrile										
		0.227	0.217	0.207	0.226	0.181	0.155	0.191		0.201	13.23
31)	hexane										
		0.260	0.258	0.244	0.263	0.204	0.180	0.223		0.233	13.66
32)	vinyl acetate										
		0.110	0.101	0.096	0.110			0.083		0.100	11.01
33)	ethyl tert-butyl ether										
	1.180	1.067	1.336	1.277	1.269	1.320	1.226	1.193	1.234	1.233	6.63
34)	ethyl acetate										
		0.076	0.071	0.068	0.074	0.060		0.063		0.069	8.96
35)	2,2-dichloropropane										
	0.521	0.435	0.572	0.564	0.558	0.555	0.550	0.528	0.539	0.536	7.69
36)	cis-1,2-dichloroethene										
	0.420	0.343	0.443	0.427	0.429	0.431	0.416	0.423	0.428	0.418	6.99
37)	methyl acrylate										
		0.536	0.526	0.520	0.524	0.499	0.446	0.510		0.509	5.93
38)	propionitrile										
	0.091	0.075	0.101	0.101	0.098	0.098	0.098	0.096	0.098	0.095	8.62
39)	bromochloromethane										
	0.184		0.207	0.204	0.208	0.204	0.200	0.195	0.203	0.201	3.90
40)	tetrahydrofuran										
		0.091	0.090	0.087	0.089	0.082	0.075	0.082		0.085	6.72
41)	chloroform										
	0.558		0.462	0.452	0.457	0.455	0.469	0.495	0.455	0.475	7.56
42)	t-butyl formate										
	0.434		0.497	0.475	0.464	0.489	0.427	0.418	0.443	0.456	6.55
43)	dibromofluoromethane (s)										
	0.475	0.474	0.487	0.484	0.483	0.486	0.478	0.477	0.480	0.475	0.480	1.04
44)	methacrylonitrile										
		0.238	0.231	0.224	0.234	0.210	0.193	0.214		0.221	7.21
45)	1,1,1-trichloroethane										
	0.536	0.455	0.608	0.588	0.578	0.605	0.556	0.542	0.557	0.558	8.35
46)	cyclohexane										
	0.335		0.464	0.463	0.459	0.476	0.434	0.442	0.437	0.439	10.13
47)	1,1-dichloropropene										
	0.446	0.468	0.521	0.509	0.509	0.515	0.491	0.492	0.505	0.495	4.87
48)	isobutyl alcohol										
		0.004	0.004	0.004	0.004	0.002		0.003		0.004	18.99
49)	carbon tetrachloride										
	0.435		0.531	0.513	0.503	0.529	0.475	0.465	0.486	0.492	6.74
50)	tert amyl alcohol										
		0.032	0.032	0.031	0.030	0.030	0.029	0.030		0.030	3.79

Initial Calibration Summary

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample: V4D4496-ICC4496
Lab FileID: 4D101411.D

51) I 1,4-difluorobenzene ----------ISTD----------
52) 1,2-dichloroethane-d4 (s)
0.348 0.349 0.344 0.347 0.357 0.335 0.354 0.350 0.356 0.341 0.348 1.99
53) n-butyl alcohol
0.015 0.013 0.018 0.018 0.017 0.017 0.017 0.016 0.017 0.016 10.23
54) 2,2,4-trimethylpentane
0.426 0.620 0.610 0.590 0.616 0.547 0.515 0.559 0.560 11.74
55) benzene
0.981 1.040 1.016 0.986 0.991 0.992 1.002 0.992 1.002 0.922 0.992 3.03
56) tert-amyl methyl ether
0.170 0.202 0.193 0.191 0.196 0.188 0.175 0.191 0.188 5.62
57) heptane
0.147 0.144 0.141 0.150 0.127 0.116 0.134 0.137 8.94
58) isopropyl acetate
0.084 0.080 0.079 0.083 0.070 0.075 0.079 6.89
59) 1,2-dichloroethane
0.417 0.423 0.382 0.369 0.376 0.368 0.382 0.385 0.377 0.387 5.11
60) trichloroethene
0.237 0.212 0.271 0.261 0.255 0.269 0.255 0.253 0.259 0.252 7.20
61) ethyl acrylate
0.382 0.489 0.470 0.459 0.480 0.441 0.433 0.451 0.451 7.47
62) 2-nitropropane
0.113 0.108 0.101 0.112 0.101 0.096 0.105 6.23
63) 2-chloroethyl vinyl ether
0.177 0.166 0.203 0.195 0.193 0.197 0.192 0.184 0.192 0.189 5.95
64) methyl methacrylate
0.095 0.089 0.087 0.092 0.075 0.085 0.087 7.81
65) 1,2-dichloropropane
0.242 0.204 0.268 0.258 0.259 0.263 0.251 0.244 0.256 0.249 7.63
66) dibromomethane
0.152 0.186 0.176 0.175 0.181 0.171 0.169 0.175 0.173 5.79
67) methylcyclohexane
0.347 0.338 0.327 0.346 0.308 0.279 0.315 0.323 7.64
68) bromodichloromethane
0.326 0.302 0.368 0.351 0.348 0.366 0.326 0.324 0.334 0.338 6.40
69) epichlorohydrin
0.042 0.047 0.047 0.045 0.046 0.044 0.043 0.045 0.045 4.12
70) cis-1,3-dichloropropene
0.384 0.322 0.429 0.409 0.395 0.427 0.387 0.377 0.386 0.391 8.19
71) 4-methyl-2-pentanone
0.142 0.130 0.148 0.146 0.145 0.141 0.146 0.144 0.144 0.114 0.140 7.43
72) 3-methyl-1-butanol
0.015 0.015 0.014 0.015 0.013 0.012 0.014 0.014 8.16

73) I chlorobenzene-d5 ----------ISTD----------
74) toluene-d8 (s)
1.358 1.356 1.317 1.331 1.356 1.305 1.369 1.369 1.369 1.370 1.350 1.77
75) toluene
0.725 0.668 0.746 0.731 0.734 0.730 0.735 0.726 0.735 0.721 0.725 2.92
76) trans-1,3-dichloropropene
0.457 0.372 0.510 0.491 0.480 0.499 0.463 0.453 0.478 0.467 8.63
77) ethyl methacrylate
0.437 0.486 0.468 0.470 0.466 0.457 0.446 0.458 0.461 3.29
78) 1,1,2-trichloroethane
0.227 0.203 0.266 0.255 0.256 0.259 0.253 0.252 0.260 0.248 8.12
79) tetrachloroethene
0.272 0.225 0.273 0.270 0.273 0.263 0.291 0.270 0.276 0.268 6.66
80) 1,3-dichloropropane
0.485 0.437 0.488 0.475 0.479 0.470 0.493 0.466 0.483 0.475 3.48
81) 2-hexanone

Initial Calibration Summary

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample: V4D4496-ICC4496
Lab FileID: 4D101411.D

```
      0.179 0.151 0.201 0.200 0.196 0.190 0.206 0.191 0.201        0.191    8.81
 82)  butyl acetate
                0.291 0.283 0.280 0.278 0.281 0.253 0.276        0.278    4.29
 83)  dibromochloromethane
      0.315 0.285 0.377 0.352 0.346 0.372 0.333 0.318 0.339        0.337    8.59
 84)  1,2-dibromoethane
      0.362 0.312 0.403 0.387 0.388 0.400 0.384 0.373 0.380        0.377    7.23
 85)  n-butyl ether
      1.170 1.089 1.270 1.223 1.218 1.246 1.177 1.180 1.193        1.196    4.37
 86)  chlorobenzene
      0.760 0.749 0.809 0.784 0.777 0.802 0.768 0.767 0.780 0.741  0.774    2.78
 87)  1,1,1,2-tetrachloroethane
      0.251       0.312 0.296 0.280 0.310 0.272 0.257 0.273        0.281    8.09
 88)  ethylbenzene
      1.247 1.186 1.328 1.287 1.284 1.296 1.271 1.240 1.267 1.262  1.267    3.00
 89)  m,p-xylene
      0.465 0.441 0.506 0.494 0.483 0.489 0.482 0.476 0.485 0.401  0.472    6.50
 90)  o-xylene
      0.444 0.416 0.490 0.473 0.470 0.472 0.462 0.457 0.463        0.461    4.56
 91)  styrene
      0.700 0.676 0.841 0.805 0.790 0.816 0.775 0.741 0.774        0.769    7.05
 92)  bromoform
      0.214       0.287 0.268 0.255 0.285 0.243 0.236 0.250        0.254    9.74
 93)  butyl acrylate
      0.579       0.727 0.704 0.681 0.701 0.652 0.592 0.663        0.662    8.03
 94)  isopropylbenzene
      1.047 1.066 1.221 1.165 1.127 1.192 1.113 1.090 1.110 1.021  1.115    5.70
 95)  cis-1,4-dichloro-2-butene
                0.180 0.169 0.157 0.178 0.146       0.152        0.164    8.48

 96) I   1,4-dichlorobenzene-d ----------------ISTD--------------------
 97)  4-bromofluorobenzene (s)
      1.012 1.001 0.995 0.987 1.000 1.012 1.028 1.012 1.026 1.015  1.009    1.29
 98)  bromobenzene
      0.706 0.680 0.784 0.753 0.763 0.789 0.739 0.763 0.767        0.749    4.78
 99)  1,1,2,2-tetrachloroethane
      1.003 0.995 1.057 1.010 1.015 1.058 0.999 1.015 1.014        1.018    2.31
100)  trans-1,4-dichloro-2-butene
                0.290 0.276 0.267 0.291 0.246       0.255        0.271    6.81
101)  1,2,3-trichloropropane
      0.237       0.292 0.278 0.282 0.291 0.288 0.278 0.292        0.280    6.48
102)  n-propylbenzene
      2.903 2.784 3.121 2.998 2.990 3.117 3.010 2.854 2.994 2.894  2.966    3.65
103)  2-chlorotoluene
      0.563       0.679 0.658 0.664 0.680 0.634 0.632 0.649        0.645    5.83
104)  4-chlorotoluene
      1.811 1.758 1.924 1.857 1.866 1.891 1.848 1.836 1.888 1.605  1.828    4.97
105)  1,3,5-trimethylbenzene
      1.956 1.914 2.180 2.093 2.060 2.190 1.983 1.989 2.072 1.789  2.023    6.06
106)  tert-butylbenzene
                0.401 0.372 0.360 0.407 0.358 0.355 0.363        0.374    5.70
107)  1,2,4-trimethylbenzene
      1.980 1.899 2.186 2.053 2.063 2.188 2.018 1.976 2.065 1.998  2.043    4.45
108)  sec-butylbenzene
      2.186 2.160 2.521 2.365 2.299 2.547 2.239 2.222 2.293        2.315    6.02
109)  1,3-dichlorobenzene
      1.181 1.160 1.287 1.243 1.229 1.285 1.217 1.194 1.257 1.242  1.230    3.44
110)  p-isopropyltoluene
      1.791 1.762 2.128 2.008 1.957 2.156 1.907 1.865 1.935 1.683  1.919    7.94
111)  1,4-dichlorobenzene
```

Initial Calibration Summary

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample: V4D4496-ICC4496
Lab FileID: 4D101411.D

```
       1.193 1.193 1.314 1.259 1.250 1.311 1.231 1.218 1.254 1.279  1.250    3.44
112)  benzyl chloride
       1.423 1.334 1.711 1.644 1.579 1.716 1.487 1.446 1.559        1.544    8.58
113)  1,2-dichlorobenzene
       1.142 1.006 1.244 1.187 1.173 1.233 1.158 1.124 1.197        1.163    6.07
114)  n-butylbenzene
       0.760       0.975 0.912 0.874 1.003 0.829 0.772 0.879        0.875   10.02
115)  1,2-dibromo-3-chloropropane
                   0.303 0.284 0.269 0.308 0.239 0.224 0.252        0.268   11.93
116)  1,3,5-trichlorobenzene
       0.660       0.832 0.771 0.750 0.863 0.727 0.691 0.746        0.755    8.91
117)  2-ethylhexyl acrylate
                   0.414 0.372 0.314 0.406             0.228        0.347   22.30
              ----- Linear regression -----  Coefficient =  0.9992
                Response Ratio = -0.00672 + 0.41748 *A

118)  1,2,4-trichlorobenzene
       0.552       0.715 0.645 0.607 0.745 0.581 0.573 0.601        0.627   11.05
119)  hexachlorobutadiene
       0.254       0.307 0.286 0.281 0.312 0.280 0.269 0.293        0.285    6.66
120)  naphthalene
       1.789 1.588 1.940 1.801 1.730 2.010 1.772 1.751 1.797 1.863  1.804    6.41
121)  1,2,3-trichlorobenzene
       0.497       0.648 0.591 0.560 0.677 0.543 0.517 0.549        0.573   10.92
122)  hexachloroethane
                   0.383 0.353 0.322 0.406 0.300 0.283 0.305        0.336   13.59
123)  2-methylnaphthalene
                   0.841 0.785 0.704 0.739 0.599       0.640        0.718   12.53
124)  bis(chloromethyl)ether
                                                                    0.000   -1.00
125)  ethylenimine
                                                                    0.000   -1.00
 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

           M4D4496.M         Fri Apr 17 16:33:25 2020   RPT1
```

Initial Calibration Verification

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample: V4D4496-ICV4496
Lab FileID: 4D101416.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\V4D4496\4D101416.D Vial: 15
Acq On : 16 Apr 2020 10:15 pm Operator: ROBERTS
Sample : ICV4496-50 Inst : MS4D
Misc : MS42511,V4D4496,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M4D4496.M (RTE Integrator)
Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
Last Update : Fri Apr 17 16:29:00 2020
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1		tert butyl alcohol-d9	1.000	1.000	0.0	106	0.00	8.65
2	M	tertiary butyl alcohol	1.127	1.170	-3.8	109	0.00	8.78
3		ethanol	0.116	0.126	-8.6	110	0.00	7.18
4	M	1,4-dioxane	0.092	0.099	-7.6	111	0.00	12.67
5	I	pentafluorobenzene	1.000	1.000	0.0	110	0.00	11.13
6	M	chlorodifluoromethane		----------NA----------				
7	M	dichlorodifluoromethane	0.422	0.455	-7.8	113	0.00	4.60
8	M	chloromethane	0.415	0.427	-2.9	110	-0.01	5.11
9	M	vinyl chloride	0.418	0.460	-10.0	115	0.00	5.36
		----------	True	Calc.	% Drift	----------		
10	M	bromomethane	50.000	59.337	-18.7	136	0.00	6.14
		----------	AvgRF	CCRF	% Dev	----------		
11	M	chloroethane	0.256	0.242	5.5	97	0.00	6.38
12	M	trichlorofluoromethane	0.596	0.592	0.7	104	0.00	6.95
13		vinyl bromide	0.283	0.333	-17.7	121	0.00	6.80
14	M	ethyl ether	0.217	0.235	-8.3	112	0.00	7.48
15	M	acrolein	0.093	0.091	2.2	105	0.00	7.69
16		freon 113	0.262	0.299	-14.1	117	0.00	7.94
17	M	1,1-dichloroethene	0.348	0.347	0.3	105	0.00	7.94
18	M	acetone	0.184	0.185	-0.5	105	0.00	7.94
19	M	acetonitrile		----------NA----------				
20	M	iodomethane	0.210	0.142	32.4#	55	0.00	8.23
21	M	carbon disulfide	0.925	1.073	-16.0	130	0.00	8.39
22	M	methylene chloride	0.391	0.406	-3.8	111	0.00	8.71
23	M	methyl acetate	0.480	0.463	3.5	102	0.00	8.51
24	M	methyl tert butyl ether	1.182	1.200	-1.5	109	0.00	9.14
25	M	trans-1,2-dichloroethene	0.371	0.379	-2.2	110	0.00	9.17
26	M	di-isopropyl ether	1.266	1.233	2.6	104	0.00	9.83
27	M	2-butanone	0.079	0.082	-3.8	110	0.00	10.51
28	M	1,1-dichloroethane	0.686	0.731	-6.6	113	0.00	9.77
29	M	chloroprene	0.536	0.580	-8.2	112	0.00	9.92
30	M	acrylonitrile		----------NA----------				
31		hexane	0.233	0.259	-11.2	111	0.00	9.59
32	M	vinyl acetate	0.100	0.100	0.0	109	0.00	9.78
33	M	ethyl tert-butyl ether	1.233	1.187	3.7	103	0.00	10.33
34	M	ethyl acetate	0.069	0.069	0.0	108	0.00	10.56
35	M	2,2-dichloropropane	0.536	0.523	2.4	102	0.00	10.59
36	M	cis-1,2-dichloroethene	0.418	0.427	-2.2	110	0.00	10.56
37		methyl acrylate	0.509	0.532	-4.5	112	0.00	10.64

Initial Calibration Verification

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample: V4D4496-ICV4496
Lab FileID: 4D101416.D

38	M	propionitrile	0.095	0.101	-6.3	110	0.00	10.56
39	M	bromochloromethane	0.201	0.214	-6.5	116	0.00	10.87
40	M	tetrahydrofuran	0.085	0.091	-7.1	111	0.00	10.94
41	M	chloroform	0.475	0.454	4.4	111	0.00	10.94
42	M	t-butyl formate	0.456	0.364	20.2	84	0.00	11.01
43	S	dibromofluoromethane (s)	0.480	0.484	-0.8	110	0.00	11.13
44	M	methacrylonitrile	0.221	0.236	-6.8	113	0.00	10.79
45	M	1,1,1-trichloroethane	0.558	0.572	-2.5	107	0.00	11.24
46		cyclohexane	0.439	0.464	-5.7	111	0.00	11.36
47		1,1-dichloropropene	0.495	0.507	-2.4	110	0.00	11.42
48		isobutyl alcohol	0.004	0.004	0.0	107	0.00	11.36
49		carbon tetrachloride	0.492	0.507	-3.0	109	0.00	11.46
50		tert amyl alcohol	0.030	0.031	-3.3	109	0.00	11.50
51	I	1,4-difluorobenzene	1.000	1.000	0.0	111	0.00	12.02
52	S	1,2-dichloroethane-d4 (s)	0.348	0.329	5.5	105	0.00	11.56
53	M	n-butyl alcohol	0.016	0.017	-6.3	106	0.00	12.08
54		2,2,4-trimethylpentane	0.560	0.609	-8.7	110	0.00	11.75
55	M	benzene	0.992	1.002	-1.0	112	0.00	11.68
56	M	tert-amyl methyl ether	0.188	0.178	5.3	102	0.00	11.73
57	M	heptane	0.137	0.148	-8.0	113	0.00	11.91
58	M	isopropyl acetate	0.079	0.078	1.3	107	0.00	11.60
59	M	1,2-dichloroethane	0.387	0.362	6.5	108	0.00	11.64
60	M	trichloroethene	0.252	0.276	-9.5	117	0.00	12.35
61		ethyl acrylate	0.451	0.460	-2.0	108	0.00	12.34
62	M	2-nitropropane	0.105	0.109	-3.8	112	0.00	13.00
63	M	2-chloroethyl vinyl ether	0.189	0.197	-4.2	111	0.00	13.05
64	M	methyl methacrylate	0.087	0.093	-6.9	116	0.00	12.59
65	M	1,2-dichloropropane	0.249	0.262	-5.2	112	0.00	12.58
66	M	dibromomethane	0.173	0.174	-0.6	109	0.00	12.70
67	M	methylcyclohexane	0.323	0.347	-7.4	113	0.00	12.60
68	M	bromodichloromethane	0.338	0.338	0.0	106	0.00	12.82
69		epichlorohydrin	0.045	0.045	0.0	106	0.00	13.14
70	M	cis-1,3-dichloropropene	0.391	0.405	-3.6	109	0.00	13.25
71	M	4-methyl-2-pentanone	0.140	0.145	-3.6	109	0.00	13.35
72	M	3-methyl-1-butanol	0.014	0.015	-7.1	110	0.00	13.33
73	I	chlorobenzene-d5	1.000	1.000	0.0	111	0.00	14.91
74	S	toluene-d8 (s)	1.350	1.322	2.1	110	0.00	13.55
75		toluene	0.725	0.735	-1.4	112	0.00	13.62
76		trans-1,3-dichloropropene	0.467	0.494	-5.8	112	0.00	13.75
77		ethyl methacrylate	0.461	0.481	-4.3	114	0.00	13.78
78		1,1,2-trichloroethane	0.248	0.262	-5.6	114	0.00	13.95
79	M	tetrachloroethene		----------NA----------				
80	M	1,3-dichloropropane	0.475	0.483	-1.7	113	0.00	14.11
81		2-hexanone	0.191	0.194	-1.6	108	0.00	14.12
82	M	butyl acetate	0.278	0.283	-1.8	111	0.00	14.20
83	M	dibromochloromethane	0.337	0.366	-8.6	115	0.00	14.36
84	M	1,2-dibromoethane	0.377	0.394	-4.5	113	0.00	14.50
85		n-butyl ether	1.196	1.217	-1.8	110	0.00	14.90
86	M	chlorobenzene	0.774	0.801	-3.5	113	0.00	14.94
87	M	1,1,1,2-tetrachloroethane	0.281	0.301	-7.1	113	0.00	14.98
88	M	ethylbenzene	1.267	1.298	-2.4	112	0.00	15.01
89	M	m,p-xylene	0.472	0.499	-5.7	112	0.00	15.10
90	M	o-xylene	0.461	0.477	-3.5	112	0.00	15.48
91	M	styrene	0.769	0.822	-6.9	113	0.00	15.48
92	M	bromoform	0.254	0.287	-13.0	119	0.00	15.69
93		butyl acrylate	0.662	0.680	-2.7	107	0.00	15.30
94		isopropylbenzene	1.115	1.175	-5.4	112	0.00	15.79
95		cis-1,4-dichloro-2-butene	0.164	0.168	-2.4	111	0.00	15.80

Initial Calibration Verification

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample: V4D4496-ICV4496
Lab FileID: 4D101416.D

96	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	107	0.00	17.02
97	S	4-bromofluorobenzene (s)	1.009	1.004	0.5	109	0.00	15.95
98	M	bromobenzene	0.749	0.794	-6.0	113	0.00	16.14
99	M	1,1,2,2-tetrachloroethane	1.018	1.045	-2.7	111	0.00	16.01
100	M	trans-1,4-dichloro-2-bute	0.271	0.282	-4.1	110	0.00	16.05
101	M	1,2,3-trichloropropane	0.280	0.284	-1.4	110	0.00	16.08
102	M	n-propylbenzene	2.966	3.135	-5.7	112	0.00	16.16
103	M	2-chlorotoluene	0.645	0.671	-4.0	109	0.00	16.28
104	M	4-chlorotoluene	1.828	1.950	-6.7	113	0.00	16.37
105	M	1,3,5-trimethylbenzene	2.023	2.149	-6.2	110	0.00	16.30
106	M	tert-butylbenzene	0.374	0.394	-5.3	114	0.00	16.62
107	M	1,2,4-trimethylbenzene	2.043	2.171	-6.3	114	0.00	16.66
108	M	sec-butylbenzene	2.315	2.481	-7.2	113	0.00	16.82
109	M	1,3-dichlorobenzene	1.230	1.308	-6.3	113	0.00	16.97
110	M	p-isopropyltoluene	1.919	2.099	-9.4	112	0.00	16.92
111	M	1,4-dichlorobenzene	1.250	1.325	-6.0	113	0.00	17.04
112		benzyl chloride	1.544	1.301	15.7	85	0.00	17.13
113	M	1,2-dichlorobenzene	1.163	1.234	-6.1	112	0.00	17.40
114	M	n-butylbenzene	0.875	0.938	-7.2	110	0.00	17.31
115	M	1,2-dibromo-3-chloropropa	0.268	0.284	-6.0	107	0.00	18.10
116		1,3,5-trichlorobenzene	0.755	0.816	-8.1	114	0.00	18.32
			True	Calc.	% Drift			
117		2-ethylhexyl acrylate	10.000	10.437	-4.4	116	0.00	18.91
			AvgRF	CCRF	% Dev			
118	M	1,2,4-trichlorobenzene	0.627	0.659	-5.1	110	0.00	18.91
119	M	hexachlorobutadiene	0.285	0.288	-1.1	108	0.00	19.05
120	M	naphthalene	1.804	1.848	-2.4	110	0.00	19.17
121	M	1,2,3-trichlorobenzene	0.573	0.605	-5.6	110	0.00	19.40
122	m	hexachloroethane	0.336	0.364	-8.3	111	0.00	17.68
123		2-methylnaphthalene	0.718	0.881	-22.7	121	0.00	20.26
124		bis(chloromethyl)ether		----------NA----------				
125		ethylenimine		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4D101411.D M4D4496.M Fri Apr 17 16:33:09 2020 RPT1

Initial Calibration Verification

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample: V4D4496-ICV4496
Lab FileID: 4D101417.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\V4D4496\4D101417.D Vial: 16
Acq On : 16 Apr 2020 10:44 pm Operator: ROBERTS
Sample : ICV4496-50 Inst : MS4D
Misc : MS42511,V4D4496,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M4D4496.M (RTE Integrator)
Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
Last Update : Fri Apr 17 16:29:00 2020
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1		tert butyl alcohol-d9	1.000	1.000	0.0	113	0.00	8.64
2	M	tertiary butyl alcohol		----------NA----------				
3		ethanol		----------NA----------				
4	M	1,4-dioxane		----------NA----------				
5	I	pentafluorobenzene	1.000	1.000	0.0	122	0.00	11.13
6	M	chlorodifluoromethane		----------NA----------				
7	M	dichlorodifluoromethane		----------NA----------				
8	M	chloromethane		----------NA----------				
9	M	vinyl chloride		----------NA----------				
		----------	True	Calc.	% Drift	----------		
10	M	bromomethane		----------NA----------				
		----------	AvgRF	CCRF	% Dev	----------		
11	M	chloroethane		----------NA----------				
12	M	trichlorofluoromethane		----------NA----------				
13		vinyl bromide		----------NA----------				
14	M	ethyl ether		----------NA----------				
15	M	acrolein		----------NA----------				
16		freon 113		----------NA----------				
17	M	1,1-dichloroethene		----------NA----------				
18	M	acetone		----------NA----------				
19	M	acetonitrile	0.090	0.097	-7.8	128	0.00	8.38
20	M	iodomethane		----------NA----------				
21	M	carbon disulfide		----------NA----------				
22	M	methylene chloride		----------NA----------				
23	M	methyl acetate		----------NA----------				
24	M	methyl tert butyl ether		----------NA----------				
25	M	trans-1,2-dichloroethene		----------NA----------				
26	M	di-isopropyl ether		----------NA----------				
27	M	2-butanone		----------NA----------				
28	M	1,1-dichloroethane		----------NA----------				
29	M	chloroprene		----------NA----------				
30	M	acrylonitrile	0.201	0.237	-17.9	133	0.00	9.03
31		hexane		----------NA----------				
32	M	vinyl acetate		----------NA----------				
33	M	ethyl tert-butyl ether		----------NA----------				
34	M	ethyl acetate		----------NA----------				
35	M	2,2-dichloropropane		----------NA----------				
36	M	cis-1,2-dichloroethene		----------NA----------				
37		methyl acrylate		----------NA----------				

Initial Calibration Verification

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample: V4D4496-ICV4496
Lab FileID: 4D101417.D

38	M	propionitrile		----------NA----------					
39	M	bromochloromethane		----------NA----------					
40	M	tetrahydrofuran		----------NA----------					
41	M	chloroform		----------NA----------					
42	M	t-butyl formate		----------NA----------					
43	S	dibromofluoromethane (s)	0.480	0.471	1.9	118	0.00	11.13	
44	M	methacrylonitrile		----------NA----------					
45	M	1,1,1-trichloroethane		----------NA----------					
46		cyclohexane		----------NA----------					
47		1,1-dichloropropene		----------NA----------					
48		isobutyl alcohol		----------NA----------					
49		carbon tetrachloride		----------NA----------					
50		tert amyl alcohol		----------NA----------					
51	I	1,4-difluorobenzene	1.000	1.000	0.0	122	0.00	12.02	
52	S	1,2-dichloroethane-d4 (s)	0.348	0.332	4.6	116	0.00	11.56	
53	M	n-butyl alcohol		----------NA----------					
54		2,2,4-trimethylpentane		----------NA----------					
55	M	benzene		----------NA----------					
56	M	tert-amyl methyl ether		----------NA----------					
57	M	heptane		----------NA----------					
58	M	isopropyl acetate		----------NA----------					
59	M	1,2-dichloroethane		----------NA----------					
60	M	trichloroethene		----------NA----------					
61		ethyl acrylate		----------NA----------					
62	M	2-nitropropane		----------NA----------					
63	M	2-chloroethyl vinyl ether		----------NA----------					
64	M	methyl methacrylate		----------NA----------					
65	M	1,2-dichloropropane		----------NA----------					
66	M	dibromomethane		----------NA----------					
67	M	methylcyclohexane		----------NA----------					
68	M	bromodichloromethane		----------NA----------					
69		epichlorohydrin		----------NA----------					
70	M	cis-1,3-dichloropropene		----------NA----------					
71	M	4-methyl-2-pentanone		----------NA----------					
72	M	3-methyl-1-butanol		----------NA----------					
73	I	chlorobenzene-d5	1.000	1.000	0.0	120	0.00	14.92	
74	S	toluene-d8 (s)	1.350	1.353	-0.2	122	0.00	13.55	
75		toluene		----------NA----------					
76		trans-1,3-dichloropropene		----------NA----------					
77		ethyl methacrylate		----------NA----------					
78		1,1,2-trichloroethane		----------NA----------					
79	M	tetrachloroethene	0.268	0.290	-8.2	129	0.00	14.17	
80	M	1,3-dichloropropane		----------NA----------					
81		2-hexanone		----------NA----------					
82	M	butyl acetate		----------NA----------					
83	M	dibromochloromethane		----------NA----------					
84	M	1,2-dibromoethane		----------NA----------					
85		n-butyl ether		----------NA----------					
86	M	chlorobenzene		----------NA----------					
87	M	1,1,1,2-tetrachloroethane		----------NA----------					
88	M	ethylbenzene		----------NA----------					
89	M	m,p-xylene		----------NA----------					
90	M	o-xylene		----------NA----------					
91	M	styrene		----------NA----------					
92	M	bromoform		----------NA----------					
93		butyl acrylate		----------NA----------					
94		isopropylbenzene		----------NA----------					
95		cis-1,4-dichloro-2-butene		----------NA----------					

Initial Calibration Verification

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample: V4D4496-ICV4496
Lab FileID: 4D101417.D

96	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	115	0.00	17.02
97	S	4-bromofluorobenzene (s)	1.009	0.996	1.3	116	0.00	15.95
98	M	bromobenzene		----------NA----------				
99	M	1,1,2,2-tetrachloroethane		----------NA----------				
100	M	trans-1,4-dichloro-2-bute		----------NA----------				
101	M	1,2,3-trichloropropane		----------NA----------				
102	M	n-propylbenzene		----------NA----------				
103	M	2-chlorotoluene		----------NA----------				
104	M	4-chlorotoluene		----------NA----------				
105	M	1,3,5-trimethylbenzene		----------NA----------				
106	M	tert-butylbenzene		----------NA----------				
107	M	1,2,4-trimethylbenzene		----------NA----------				
108	M	sec-butylbenzene		----------NA----------				
109	M	1,3-dichlorobenzene		----------NA----------				
110	M	p-isopropyltoluene		----------NA----------				
111	M	1,4-dichlorobenzene		----------NA----------				
112		benzyl chloride		----------NA----------				
113	M	1,2-dichlorobenzene		----------NA----------				
114	M	n-butylbenzene		----------NA----------				
115	M	1,2-dibromo-3-chloropropa		----------NA----------				
116		1,3,5-trichlorobenzene		----------NA----------				
		----------	True	Calc.	% Drift	----------		
117		2-ethylhexyl acrylate		----------NA----------				
		----------	AvgRF	CCRF	% Dev	----------		
118	M	1,2,4-trichlorobenzene		----------NA----------				
119	M	hexachlorobutadiene		----------NA----------				
120	M	naphthalene		----------NA----------				
121	M	1,2,3-trichlorobenzene		----------NA----------				
122	m	hexachloroethane		----------NA----------				
123		2-methylnaphthalene		----------NA----------				
124		bis(chloromethyl)ether		----------NA----------				
125		ethylenimine		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4D101411.D M4D4496.M Fri Apr 17 16:33:11 2020 RPT1

Continuing Calibration Summary

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample: V4D4597-CC4496
Lab FileID: 4D103625.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\ja...20\v4d4597\4d103625.d Vial: 2
Acq On : 27 Jul 2020 8:27 am Operator: mariceld
Sample : CC4496-20 Inst : MS4D
Misc : MS44684,V4D4597,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M4D4496.M (RTE Integrator)
Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
Last Update : Fri Apr 17 16:29:00 2020
Response via : Multiple Level Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1		tert butyl alcohol-d9	1.000	1.000	0.0	103	0.00	8.64
2	M	tertiary butyl alcohol	1.127	1.139	-1.1	105	0.00	8.77
3		ethanol	0.116	0.120	-3.4	106	0.00	7.18
4	M	1,4-dioxane	0.092	0.104	-13.0	114	0.00	12.67
5	I	pentafluorobenzene	1.000	1.000	0.0	111	0.00	11.13
6	M	chlorodifluoromethane		----------NA----------				
7	M	dichlorodifluoromethane	0.422	0.438	-3.8	116	0.00	4.60
8	M	chloromethane	0.415	0.348	16.1	97	0.00	5.11
9	M	vinyl chloride	0.418	0.394	5.7	106	0.00	5.36
		----------	True	Calc.	% Drift	----------		
10	M	bromomethane	20.000	12.523	37.4#	67	0.01	6.15
		----------	AvgRF	CCRF	% Dev	----------		
11	M	chloroethane	0.256	0.257	-0.4	107	0.00	6.38
12	M	trichlorofluoromethane	0.596	0.559	6.2	105	0.00	6.95
13		vinyl bromide	0.283	0.192	32.2#	74	0.00	6.80
14	M	ethyl ether	0.217	0.216	0.5	110	0.00	7.48
15	M	acrolein	0.093	0.074	20.4#	92	0.00	7.70
16		freon 113	0.262	0.277	-5.7	117	0.00	7.93
17	M	1,1-dichloroethene	0.348	0.343	1.4	104	0.00	7.94
18	M	acetone	0.184	0.161	12.5	95	0.00	7.94
19	M	acetonitrile	0.090	0.081	10.0	101	0.00	8.38
20	M	iodomethane	0.210	0.083	60.5#	51	0.00	8.22
21	M	carbon disulfide	0.925	0.843	8.9	105	0.00	8.39
22	M	methylene chloride	0.391	0.394	-0.8	113	0.00	8.70
23	M	methyl acetate	0.480	0.442	7.9	100	0.00	8.51
24	M	methyl tert butyl ether	1.182	1.125	4.8	104	0.00	9.14
25	M	trans-1,2-dichloroethene	0.371	0.372	-0.3	110	0.00	9.17
26	M	di-isopropyl ether	1.266	1.203	5.0	103	0.00	9.83
27	M	2-butanone	0.079	0.076	3.8	107	0.00	10.51
28	M	1,1-dichloroethane	0.686	0.663	3.4	105	0.00	9.77
29	M	chloroprene	0.536	0.473	11.8	93	0.00	9.92
30	M	acrylonitrile	0.201	0.187	7.0	101	0.00	9.03
31		hexane	0.233	0.237	-1.7	108	0.00	9.59
32	M	vinyl acetate	0.100	0.099	1.0	115	0.00	9.78
33	M	ethyl tert-butyl ether	1.233	0.739	40.1#	65	0.00	10.32
34	M	ethyl acetate	0.069	0.068	1.4	113	0.00	10.56
35	M	2,2-dichloropropane	0.536	0.535	0.2	107	0.00	10.59
36	M	cis-1,2-dichloroethene	0.418	0.440	-5.3	114	0.00	10.55
37		methyl acrylate	0.509	0.486	4.5	104	0.00	10.64

Continuing Calibration Summary

Job Number: JD10241 **Sample:** V4D4597-CC4496
Account: ENSCTN Ensafe, Inc **Lab FileID:** 4D103625.D
Project: Former Carlysle Compressor, Syracuse, NY

38	M	propionitrile	0.095	0.090	5.3	103	0.00	10.56
39	M	bromochloromethane	0.201	0.227	-12.9	121	0.00	10.86
40	M	tetrahydrofuran	0.085	0.085	0.0	109	0.00	10.94
41	M	chloroform	0.475	0.442	6.9	108	0.00	10.93
42	M	t-butyl formate	0.456	0.273	40.1#	66	0.00	11.01
43	S	dibromofluoromethane (s)	0.480	0.484	-0.8	112	0.00	11.13
44	M	methacrylonitrile	0.221	0.222	-0.5	110	0.00	10.79
45	M	1,1,1-trichloroethane	0.558	0.537	3.8	104	0.00	11.24
46		cyclohexane	0.439	0.475	-8.2	115	0.00	11.35
47		1,1-dichloropropene	0.495	0.467	5.7	102	0.00	11.42
48		isobutyl alcohol	0.004	0.004	0.0	116	0.00	11.36
49		carbon tetrachloride	0.492	0.479	2.6	106	0.00	11.46
50		tert amyl alcohol	0.030	0.028	6.7	102	0.00	11.50
51	I	1,4-difluorobenzene	1.000	1.000	0.0	109	0.00	12.02
52	S	1,2-dichloroethane-d4 (s)	0.348	0.314	9.8	96	0.00	11.55
53	M	n-butyl alcohol	0.016	0.018	-12.5	111	0.00	12.08
54		2,2,4-trimethylpentane	0.560	0.157	72.0#	29#	0.00	11.75
55	M	benzene	0.992	0.972	2.0	107	0.00	11.67
56	M	tert-amyl methyl ether	0.188	0.128	31.9#	74	0.00	11.73
57	M	heptane	0.137	0.153	-11.7	119	0.00	11.91
58	M	isopropyl acetate	0.079	0.085	-7.6	117	0.00	11.60
59	M	1,2-dichloroethane	0.387	0.336	13.2	98	0.00	11.64
60	M	trichloroethene	0.252	0.276	-9.5	118	0.00	12.35
61		ethyl acrylate	0.451	0.426	5.5	102	0.00	12.34
62	M	2-nitropropane	0.105	0.090	14.3	97	0.00	13.00
63	M	2-chloroethyl vinyl ether	0.189	0.130	31.2#	74	0.00	13.05
64	M	methyl methacrylate	0.087	0.092	-5.7	116	0.00	12.59
65	M	1,2-dichloropropane	0.249	0.256	-2.8	108	0.00	12.57
66	M	dibromomethane	0.173	0.184	-6.4	115	0.00	12.70
67	M	methylcyclohexane	0.323	0.337	-4.3	113	0.00	12.60
68	M	bromodichloromethane	0.338	0.347	-2.7	109	0.00	12.82
69		epichlorohydrin	0.045	0.034	24.4#	82	0.00	13.14
70	M	cis-1,3-dichloropropene	0.391	0.406	-3.8	112	0.00	13.25
71	M	4-methyl-2-pentanone	0.140	0.145	-3.6	109	0.00	13.35
72	M	3-methyl-1-butanol	0.014	0.016	-14.3	120	0.00	13.33
73	I	chlorobenzene-d5	1.000	1.000	0.0	111	0.00	14.91
74	S	toluene-d8 (s)	1.350	1.342	0.6	110	0.00	13.55
75		toluene	0.725	0.716	1.2	109	0.00	13.62
76		trans-1,3-dichloropropene	0.467	0.483	-3.4	112	0.00	13.75
77		ethyl methacrylate	0.461	0.458	0.7	108	0.00	13.78
78		1,1,2-trichloroethane	0.248	0.267	-7.7	116	0.00	13.95
79	M	tetrachloroethene	0.268	0.277	-3.4	113	0.00	14.16
80	M	1,3-dichloropropane	0.475	0.481	-1.3	112	0.00	14.11
81		2-hexanone	0.191	0.193	-1.0	109	0.00	14.11
82	M	butyl acetate	0.278	0.284	-2.2	113	0.00	14.20
83	M	dibromochloromethane	0.337	0.382	-13.4	123	0.00	14.36
84	M	1,2-dibromoethane	0.377	0.486	-28.9#	139	0.00	14.50
85		n-butyl ether	1.196	1.046	12.5	96	0.00	14.90
86	M	chlorobenzene	0.774	0.795	-2.7	114	0.00	14.94
87	M	1,1,1,2-tetrachloroethane	0.281	0.310	-10.3	123	0.00	14.98
88	M	ethylbenzene	1.267	1.218	3.9	106	0.00	15.01
89	M	m,p-xylene	0.472	0.483	-2.3	111	0.00	15.10
90	M	o-xylene	0.461	0.467	-1.3	111	0.00	15.48
91	M	styrene	0.769	0.793	-3.1	112	0.00	15.47
92	M	bromoform	0.254	0.287	-13.0	125	0.00	15.68
93		butyl acrylate	0.662	0.636	3.9	104	0.00	15.30
94		isopropylbenzene	1.115	1.087	2.5	107	0.00	15.79
95		cis-1,4-dichloro-2-butene	0.164	0.142	13.4	101	0.00	15.80

Continuing Calibration Summary

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample: V4D4597-CC4496
Lab FileID: 4D103625.D

96	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	117	0.00	17.02
97	S	4-bromofluorobenzene (s)	1.009	0.958	5.1	112	0.00	15.95
98	M	bromobenzene	0.749	0.760	-1.5	116	0.00	16.13
99	M	1,1,2,2-tetrachloroethane	1.018	1.008	1.0	116	0.00	16.01
100	M	trans-1,4-dichloro-2-bute	0.271	0.223	17.7	97	0.00	16.05
101	M	1,2,3-trichloropropane	0.280	0.271	3.2	112	0.00	16.08
102	M	n-propylbenzene	2.966	2.754	7.1	108	0.00	16.16
103	M	2-chlorotoluene	0.645	0.645	0.0	113	0.00	16.28
104	M	4-chlorotoluene	1.828	1.736	5.0	109	0.00	16.37
105	M	1,3,5-trimethylbenzene	2.023	1.922	5.0	109	0.00	16.30
106	M	tert-butylbenzene	0.374	0.366	2.1	119	0.00	16.62
107	M	1,2,4-trimethylbenzene	2.043	1.925	5.8	109	0.00	16.65
108	M	sec-butylbenzene	2.315	2.164	6.5	110	0.00	16.81
109	M	1,3-dichlorobenzene	1.230	1.219	0.9	116	0.00	16.97
110	M	p-isopropyltoluene	1.919	1.828	4.7	109	0.00	16.92
111	M	1,4-dichlorobenzene	1.250	1.237	1.0	116	0.00	17.04
112		benzyl chloride	1.544	1.695	-9.8	125	0.00	17.13
113	M	1,2-dichlorobenzene	1.163	1.157	0.5	115	0.00	17.40
114	M	n-butylbenzene	0.875	0.850	2.9	113	0.00	17.30
115	M	1,2-dibromo-3-chloropropa	0.268	0.270	-0.7	117	0.00	18.10
116		1,3,5-trichlorobenzene	0.755	0.768	-1.7	120	0.00	18.32
		----------	True	Calc.	% Drift	----------		
117		2-ethylhexyl acrylate	4.000	3.981	0.5	123	0.00	18.91
		----------	AvgRF	CCRF	% Dev	----------		
118	M	1,2,4-trichlorobenzene	0.627	0.627	0.0	120	0.00	18.91
119	M	hexachlorobutadiene	0.285	0.257	9.8	107	0.00	19.05
120	M	naphthalene	1.804	1.713	5.0	116	0.00	19.17
121	M	1,2,3-trichlorobenzene	0.573	0.555	3.1	116	0.00	19.40
122	m	hexachloroethane	0.336	0.335	0.3	121	0.00	17.67
123		2-methylnaphthalene	0.718	0.668	7.0	111	0.00	20.26
124		bis(chloromethyl)ether		----------NA----------				
125		ethylenimine		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4D101410.D M4D4496.M Mon Jul 27 23:29:28 2020

Run Sequence Report

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Run ID: V2E8157	**Method:** SW846 8260C	**Instrument ID:** GCMS2E

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V2E8157-BFB	2E162815.D	07/14/20 17:48	n/a	BFB Tune
V2E8157-IC8157	2E162816.D	07/14/20 18:33	n/a	Initial cal 0.2
V2E8157-IC8157	2E162817.D	07/14/20 19:03	n/a	Initial cal 0.5
V2E8157-IC8157	2E162818.D	07/14/20 19:33	n/a	Initial cal 1
V2E8157-IC8157	2E162819.D	07/14/20 20:03	n/a	Initial cal 2
V2E8157-IC8157	2E162820.D	07/14/20 20:32	n/a	Initial cal 4
V2E8157-IC8157	2E162821.D	07/14/20 21:03	n/a	Initial cal 8
V2E8157-IC8157	2E162822.D	07/14/20 21:33	n/a	Initial cal 20
V2E8157-ICC8157	2E162823.D	07/14/20 22:03	n/a	Initial cal 50
V2E8157-IC8157	2E162824.D	07/14/20 22:33	n/a	Initial cal 100
V2E8157-IC8157	2E162825.D	07/14/20 23:03	n/a	Initial cal 200
V2E8157-ICV8157	2E162828.D	07/15/20 00:33	n/a	Initial cal verification 50
V2E8157-ICV8157	2E162829.D	07/15/20 01:03	n/a	Initial cal verification 50
V2E8157-BFB2	2E162833.D	07/15/20 11:51	n/a	BFB Tune
V2E8157-ICV8157	2E162834.D	07/15/20 12:22	n/a	Initial cal verification 50

Run Sequence Report

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Run ID: V2E8165	**Method:** SW846 8260C	**Instrument ID:** GCMS2E

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V2E8165-BFB	2E162969.D	07/20/20 11:05	n/a	BFB Tune
V2E8165-CC8157	2E162969.D	07/20/20 11:05	n/a	Continuing cal 20
V2E8165-BS	2E162970.D	07/20/20 11:42	n/a	Blank Spike
V2E8165-BSD	2E162971.D	07/20/20 12:12	n/a	Blank Spike Duplicate
V2E8165-MB	2E162973.D	07/20/20 13:12	n/a	Method Blank
ZZZZZZ	2E162974.D	07/20/20 13:51	n/a	(unrelated sample)
ZZZZZZ	2E162975.D	07/20/20 14:20	n/a	(unrelated sample)
ZZZZZZ	2E162976.D	07/20/20 14:50	n/a	(unrelated sample)
ZZZZZZ	2E162977.D	07/20/20 15:20	n/a	(unrelated sample)
JD10196-7	2E162978.D	07/20/20 15:50	n/a	(used for QC only; not part of job JD10241)
JD10196-7	2E162979.D	07/20/20 16:20	n/a	(used for QC only; not part of job JD10241)
JD10196-7MS	2E162980.D	07/20/20 16:50	n/a	Matrix Spike
JD10196-7MSD	2E162981.D	07/20/20 17:20	n/a	Matrix Spike Duplicate
JD10241-10	2E162983.D	07/20/20 18:20	n/a	CC1TB01T0720
JD10241-11	2E162984.D	07/20/20 18:50	n/a	CC1FB01F0720
JD10241-1	2E162985.D	07/20/20 19:20	n/a	CC1MW01G0720
JD10241-3	2E162986.D	07/20/20 19:50	n/a	CC1MW107G0720
JD10241-4	2E162987.D	07/20/20 20:20	n/a	CC1MW107H0720
JD10241-6	2E162988.D	07/20/20 20:50	n/a	CC1MWSB2G0720
JD10241-9	2E162989.D	07/20/20 21:19	n/a	CC1IDW01Z0720
JD10241-12	2E162990.D	07/20/20 21:49	n/a	CC1IDW02Z0720
JD10241-5	2E162991.D	07/20/20 22:19	n/a	CC1MW13DG0720
JD10241-7	2E162992.D	07/20/20 22:49	n/a	CC1STSW0720

Run Sequence Report

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Run ID: V4D4496	**Method:** SW846 8260C	**Instrument ID:** GCMS4D

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V4D4496-BFB	4D101403.D	04/16/20 15:37	n/a	BFB Tune
V4D4496-IC4496	4D101404.D	04/16/20 16:32	n/a	Initial cal 0.2
V4D4496-IC4496	4D101405.D	04/16/20 17:01	n/a	Initial cal 0.5
V4D4496-IC4496	4D101406.D	04/16/20 17:29	n/a	Initial cal 1
V4D4496-IC4496	4D101407.D	04/16/20 17:58	n/a	Initial cal 2
V4D4496-IC4496	4D101408.D	04/16/20 18:27	n/a	Initial cal 4
V4D4496-IC4496	4D101409.D	04/16/20 18:55	n/a	Initial cal 8
V4D4496-IC4496	4D101410.D	04/16/20 19:23	n/a	Initial cal 20
V4D4496-ICC4496	4D101411.D	04/16/20 19:52	n/a	Initial cal 50
V4D4496-IC4496	4D101412.D	04/16/20 20:21	n/a	Initial cal 100
V4D4496-IC4496	4D101413.D	04/16/20 20:49	n/a	Initial cal 200
V4D4496-ICV4496	4D101416.D	04/16/20 22:15	n/a	Initial cal verification 50
V4D4496-ICV4496	4D101417.D	04/16/20 22:44	n/a	Initial cal verification 50

Run Sequence Report

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Run ID: V4D4597	**Method:** SW846 8260C	**Instrument ID:** GCMS4D

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V4D4597-BFB	4D103625.D	07/27/20 08:27	n/a	BFB Tune
V4D4597-CC4496	4D103625.D	07/27/20 08:27	n/a	Continuing cal 20
V4D4597-BS	4D103627.D	07/27/20 09:35	n/a	Blank Spike
V4D4597-MB	4D103629.D	07/27/20 10:33	n/a	Method Blank
JD10241-2	4D103630.D	07/27/20 11:13	n/a	CC1MW106G0720
JD10241-7	4D103631.D	07/27/20 11:42	n/a	CC1STSW0720
JD10241-8	4D103632.D	07/27/20 12:11	n/a	CC1SDSW0720
JD10241-6	4D103633.D	07/27/20 12:41	n/a	CC1MWSB2G0720
ZZZZZZ	4D103634.D	07/27/20 13:10	n/a	(unrelated sample)
ZZZZZZ	4D103635.D	07/27/20 13:40	n/a	(unrelated sample)
ZZZZZZ	4D103636.D	07/27/20 14:09	n/a	(unrelated sample)
ZZZZZZ	4D103637.D	07/27/20 14:39	n/a	(unrelated sample)
ZZZZZZ	4D103638.D	07/27/20 15:08	n/a	(unrelated sample)
ZZZZZZ	4D103639.D	07/27/20 15:38	n/a	(unrelated sample)
JD10241-2MS	4D103640.D	07/27/20 16:08	n/a	Matrix Spike
JD10241-2MSD	4D103641.D	07/27/20 16:37	n/a	Matrix Spike Duplicate
ZZZZZZ	4D103643.D	07/27/20 17:37	n/a	(unrelated sample)
ZZZZZZ	4D103644.D	07/27/20 18:06	n/a	(unrelated sample)
ZZZZZZ	4D103645.D	07/27/20 18:36	n/a	(unrelated sample)
ZZZZZZ	4D103646.D	07/27/20 19:06	n/a	(unrelated sample)
ZZZZZZ	4D103647.D	07/27/20 19:35	n/a	(unrelated sample)
ZZZZZZ	4D103648.D	07/27/20 20:05	n/a	(unrelated sample)

MS Volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\July-2020\7-21\v2e8165-rush\
Data File : 2e162985.d
Acq On : 20 Jul 2020 7:20 pm
Operator : krizhkac
Sample : jd10241-1 Inst : VOAMS2E
Misc : MS44522,V2E8165,5,,,,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 21 01:10:48 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Fri Jul 17 14:25:39 2020
Response via : Initial Calibration

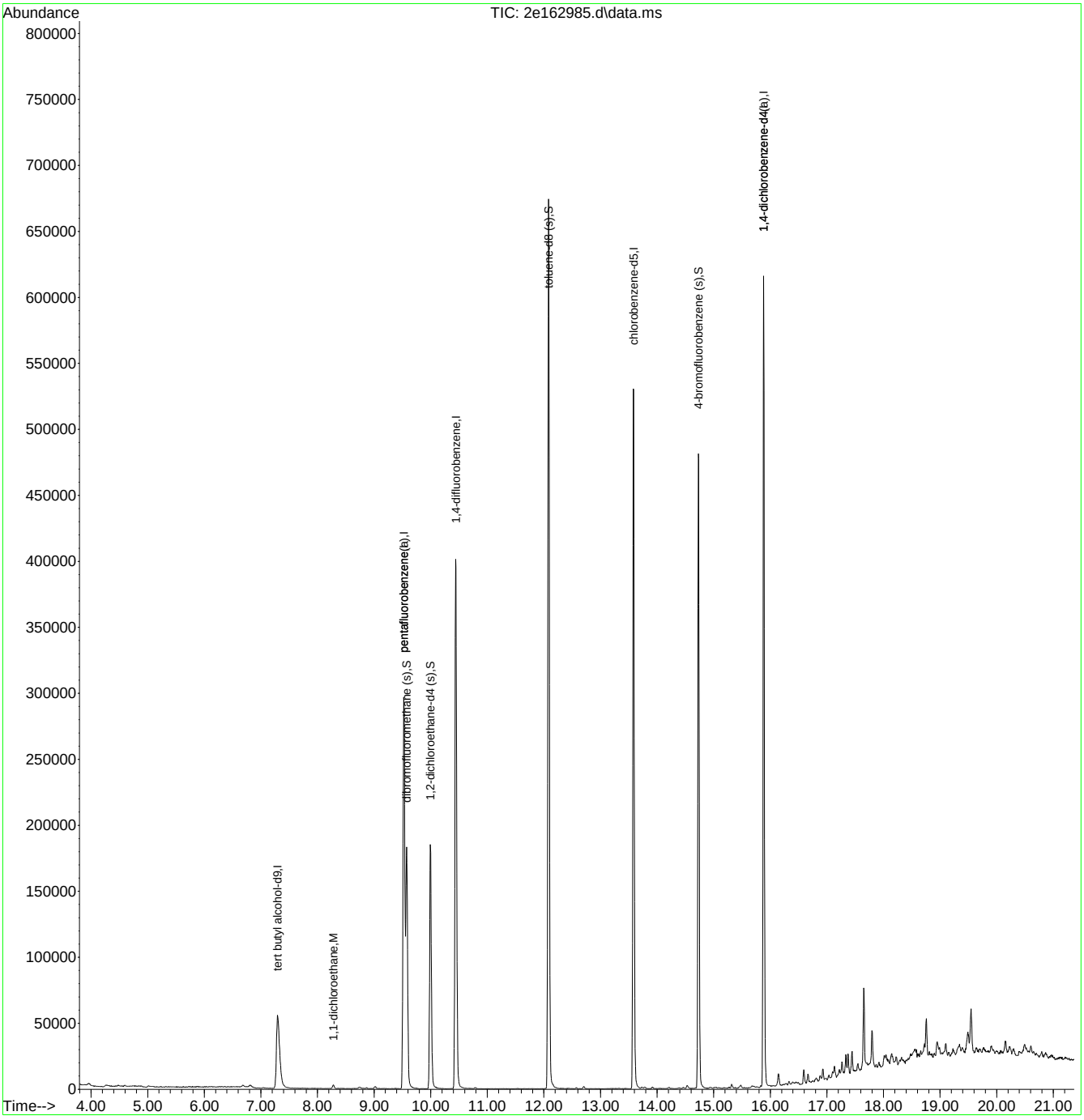
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.294	65	126362	500.00	ug/L	0.00
5) pentafluorobenzene	9.523	168	246504	50.00	ug/L	0.00
53) 1,4-difluorobenzene	10.446	114	369296	50.00	ug/L	0.00
74) chlorobenzene-d5	13.586	117	302246	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	15.883	152	152517	50.00	ug/L	0.00
127) pentafluorobenzene(a)	9.523	168	246504	50.00	ug/L	0.00
130) 1,4-dichlorobenzene-d4(a)	15.883	152	152517	50.00	ug/L	0.00
System Monitoring Compounds						
47) dibromofluoromethane (s)	9.575	113	123572	50.25	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.50%			
54) 1,2-dichloroethane-d4 (s)	9.995	65	140441	50.16	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 100.32%			
75) toluene-d8 (s)	12.081	98	469839	49.04	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 98.08%			
98) 4-bromofluorobenzene (s)	14.729	95	168680	48.97	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 97.94%			
Target Compounds						Qvalue
31) 1,1-dichloroethane	8.280	63	3370	0.56	ug/L	96

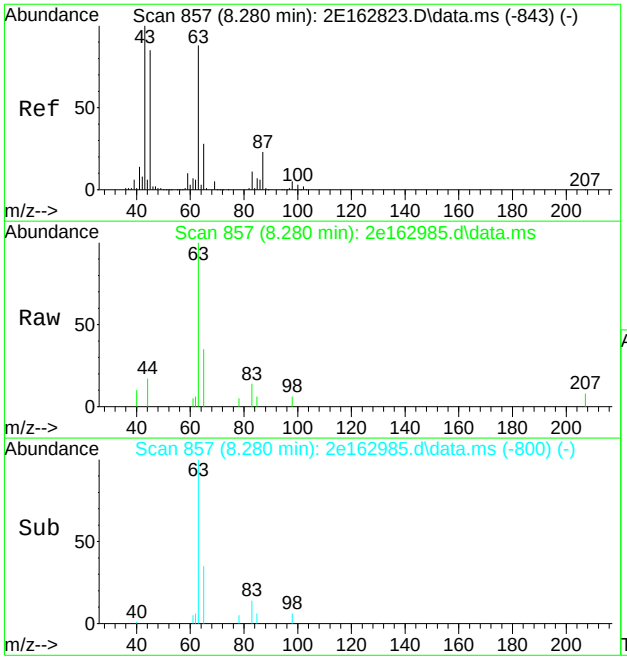
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\July-2020\7-21\v2e8165-rush\
Data File : 2e162985.d
Acq On : 20 Jul 2020 7:20 pm
Operator : krizhkac
Sample : jd10241-1 Inst : VOAMS2E
Misc : MS44522,V2E8165,5,,,,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 21 01:10:48 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Fri Jul 17 14:25:39 2020
Response via : Initial Calibration

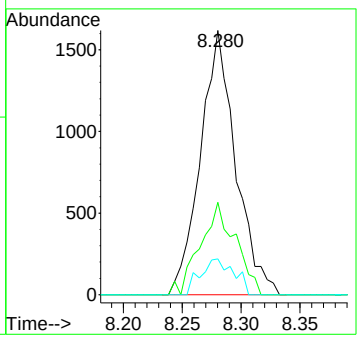




#31
1,1-dichloroethane
Concen: 0.56 ug/L
RT: 8.280 min Scan# 857
Delta R.T. 0.000 min
Lab File: 2e162985.d
Acq: 20 Jul 2020 7:20 pm

Tgt Ion: 63 Resp: 3370

Ion	Ratio	Lower	Upper
63	100		
65	35.0	2.4	62.4
83	13.6	0.0	42.4



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\janellac\07-28-2020\v4d4597\
Data File : 4d103630.d
Acq On : 27 Jul 2020 11:13 am
Operator : krizhkac
Sample : jd10241-2 Inst : MS4D
Misc : MS44522,V4D4597,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Results File: M4D4496.RES
Quant Time: Jul 27 22:10:38 2020
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 16:29:00 2020
Response via : Initial Calibration

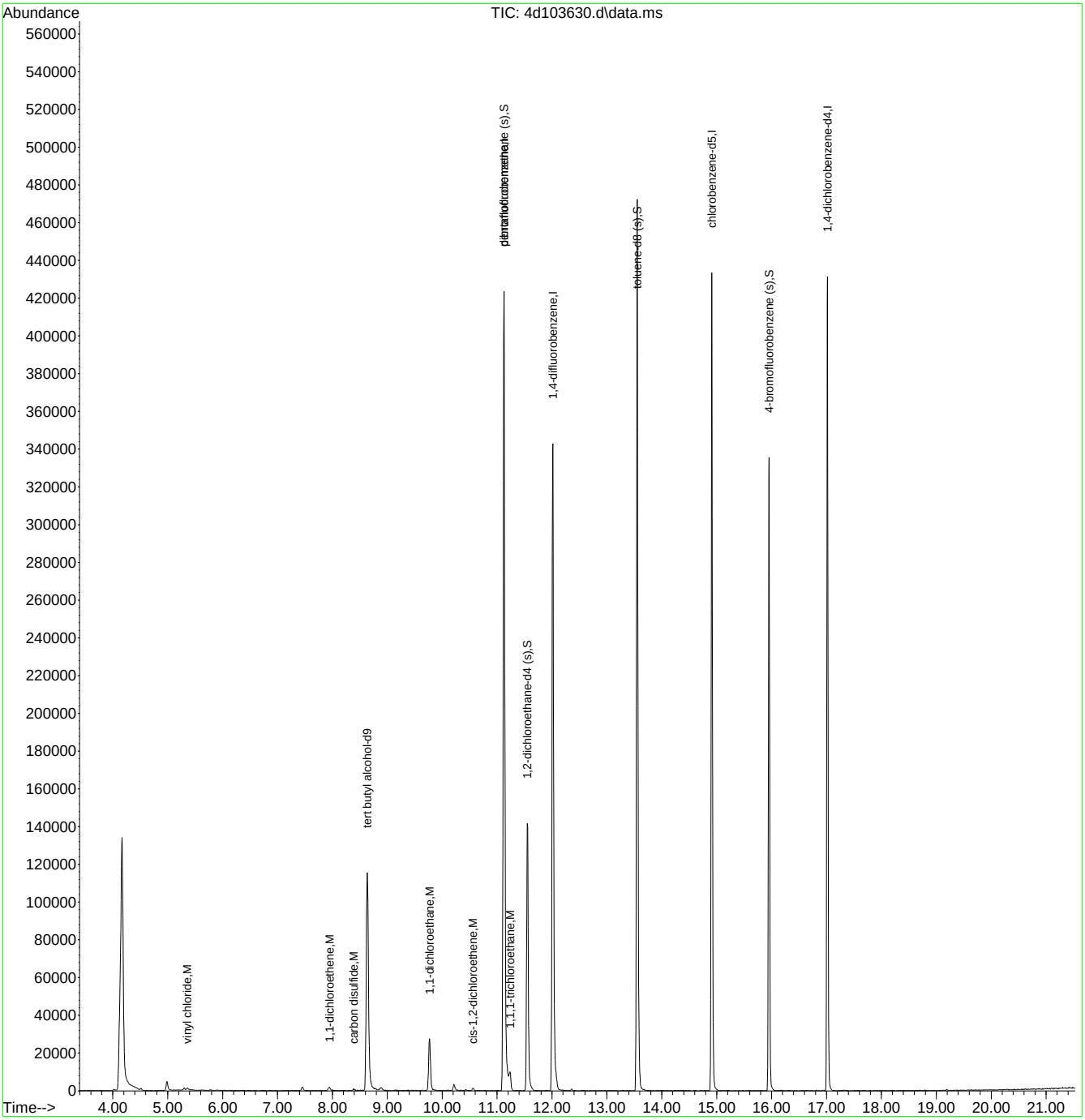
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	8.635	65	207665	500.00	ug/L	-0.01
5) pentafluorobenzene	11.125	168	233933	50.00	ug/L	0.00
51) 1,4-difluorobenzene	12.017	114	338439	50.00	ug/L	0.00
73) chlorobenzene-d5	14.911	117	254334	50.00	ug/L	0.00
96) 1,4-dichlorobenzene-d4	17.019	152	113344	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	11.125	113	115999	51.65	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 103.30%			
52) 1,2-dichloroethane-d4 (s)	11.550	65	107886	45.78	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 91.56%			
74) toluene-d8 (s)	13.553	98	342974	49.95	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.90%			
97) 4-bromofluorobenzene (s)	15.954	95	109213	47.76	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 95.52%			
Target Compounds						Qvalue
9) vinyl chloride	5.358	62	1718	0.88	ug/L	91
17) 1,1-dichloroethene	7.948	96	1205	0.74	ug/L #	76
21) carbon disulfide	8.389	76	1403	0.32	ug/L	67
28) 1,1-dichloroethane	9.768	63	36494	11.37	ug/L	99
36) cis-1,2-dichloroethene	10.559	96	881	0.45	ug/L #	77
45) 1,1,1-trichloroethane	11.241	97	6702	2.57	ug/L	93

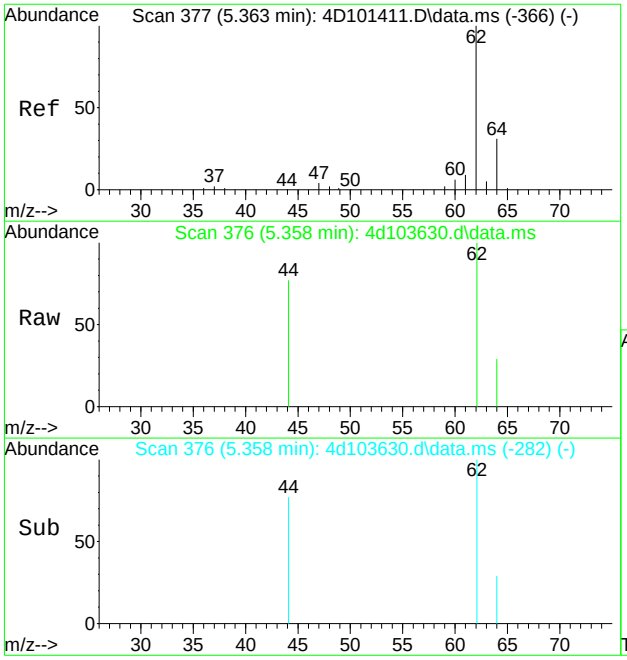
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\janellac\07-28-2020\v4d4597\
Data File : 4d103630.d
Acq On : 27 Jul 2020 11:13 am
Operator : krizhkac
Sample : jd10241-2 Inst : MS4D
Misc : MS44522,V4D4597,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Results File: M4D4496.RES
Quant Time: Jul 27 22:10:38 2020
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 16:29:00 2020
Response via : Initial Calibration

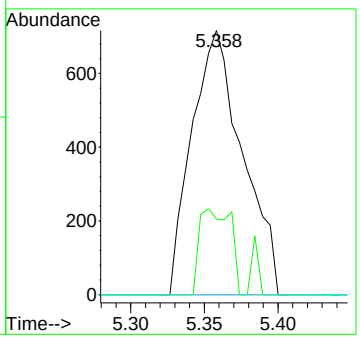


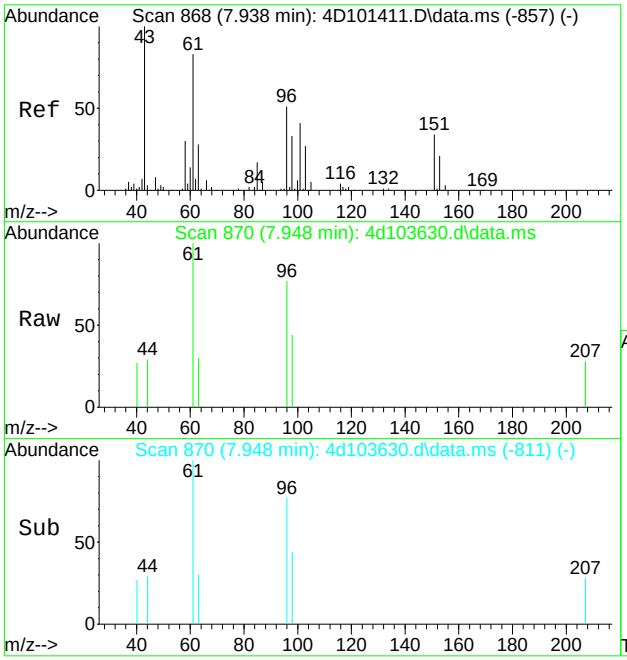


#9
vinyl chloride
Concen: 0.88 ug/L
RT: 5.358 min Scan# 376
Delta R.T. -0.005 min
Lab File: 4d103630.d
Acq: 27 Jul 2020 11:13 am

Tgt Ion: 62 Resp: 1718

Ion	Ratio	Lower	Upper
62	100		
64	28.6	0.7	60.7
61	0.0	0.0	39.0

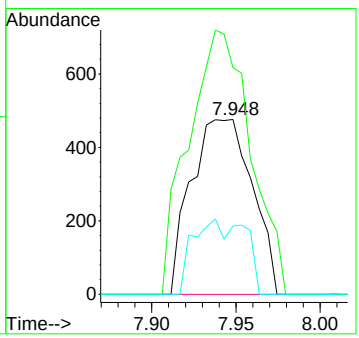


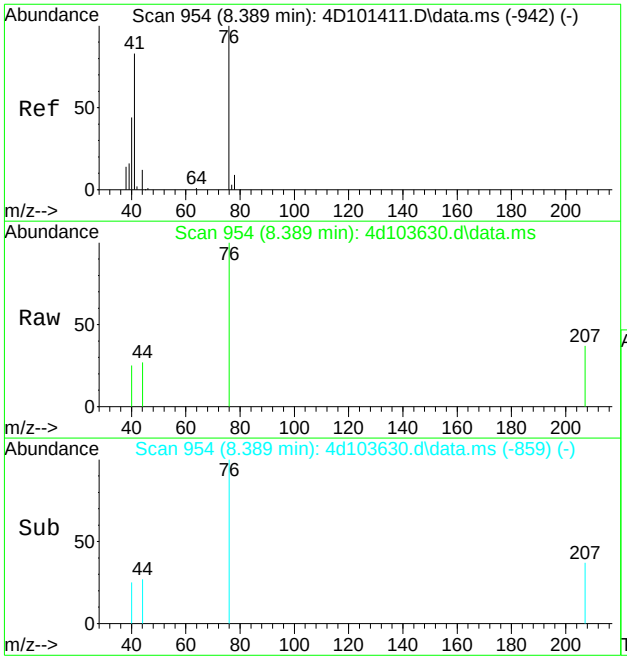


#17
1,1-dichloroethene
Concen: 0.74 ug/L
RT: 7.948 min Scan# 870
Delta R.T. 0.010 min
Lab File: 4d103630.d
Acq: 27 Jul 2020 11:13 am

Tgt Ion: 96 Resp: 1205

Ion	Ratio	Lower	Upper
96	100		
61	129.6	132.9	192.9#
63	39.1	24.9	84.9

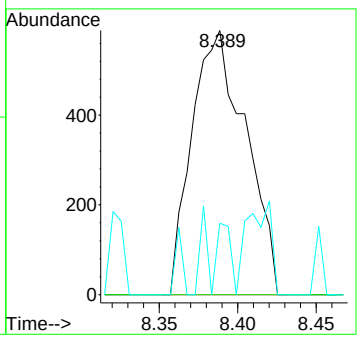


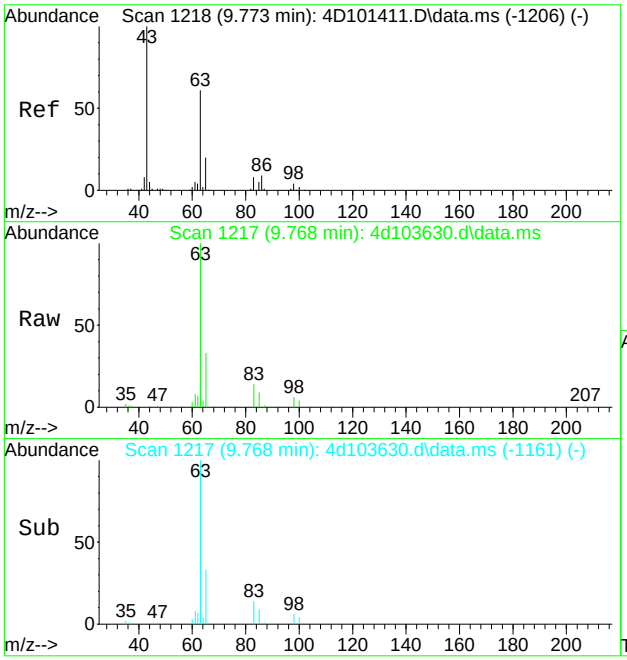


#21
carbon disulfide
Concen: 0.32 ug/L
RT: 8.389 min Scan# 954
Delta R.T. -0.000 min
Lab File: 4d103630.d
Acq: 27 Jul 2020 11:13 am

Tgt Ion: 76 Resp: 1403

Ion	Ratio	Lower	Upper
76	100		
78	0.0	0.0	39.3
44	27.0	0.0	42.2

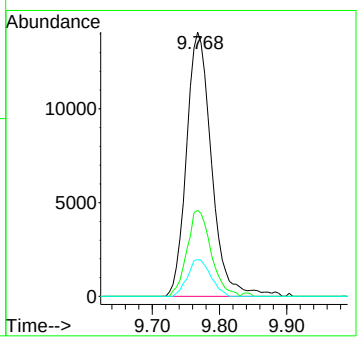


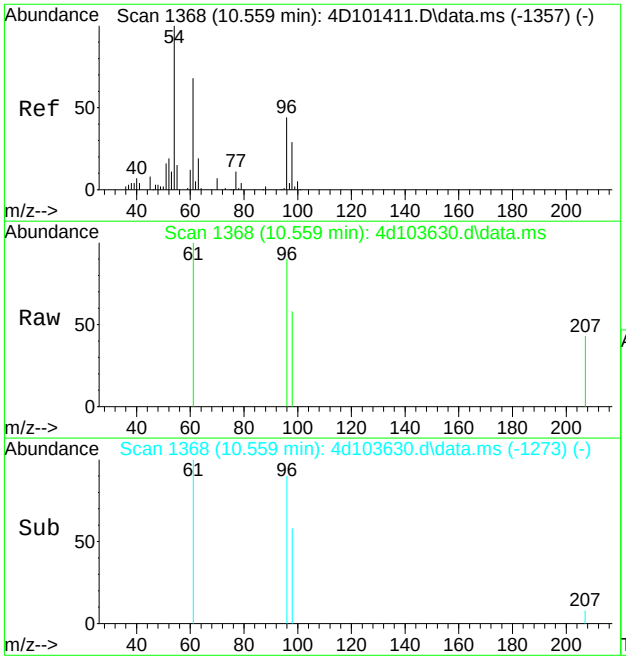


#28
1,1-dichloroethane
Concen: 11.37 ug/L
RT: 9.768 min Scan# 1217
Delta R.T. -0.005 min
Lab File: 4d103630.d
Acq: 27 Jul 2020 11:13 am

Tgt Ion: 63 Resp: 36494

Ion	Ratio	Lower	Upper
63	100		
65	32.6	1.9	61.9
83	13.9	0.0	43.3

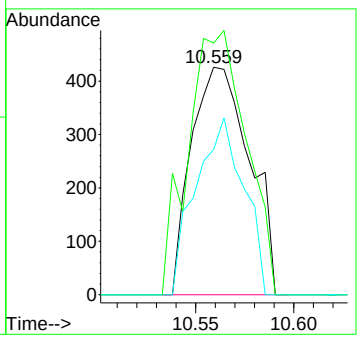


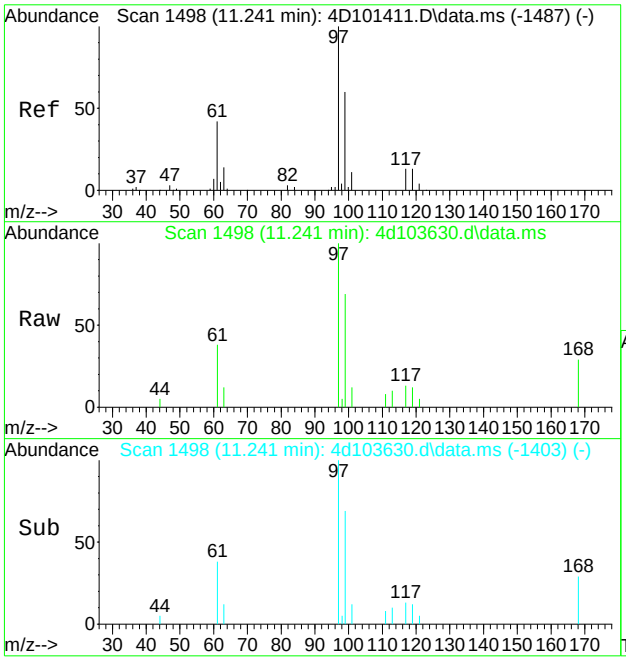


#36
cis-1,2-dichloroethene
Concen: 0.45 ug/L
RT: 10.559 min Scan# 1368
Delta R.T. -0.000 min
Lab File: 4d103630.d
Acq: 27 Jul 2020 11:13 am

Tgt Ion: 96 Resp: 881

Ion	Ratio	Lower	Upper
96	100		
61	110.6	122.3	182.3#
98	63.8	35.3	95.3

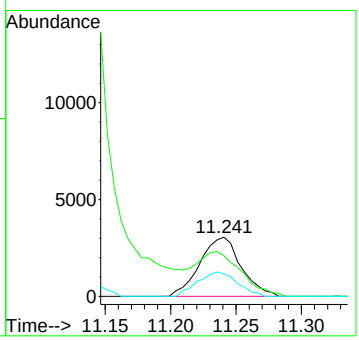




#45
1,1,1-trichloroethane
Concen: 2.57 ug/L
RT: 11.241 min Scan# 1498
Delta R.T. -0.000 min
Lab File: 4d103630.d
Acq: 27 Jul 2020 11:13 am

Tgt Ion: 97 Resp: 6702

Ion	Ratio	Lower	Upper
97	100		
99	68.6	33.0	93.0
61	38.1	11.7	71.7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\July-2020\7-21\v2e8165-rush\
Data File : 2e162986.d
Acq On : 20 Jul 2020 7:50 pm
Operator : krizhkac
Sample : jd10241-3 Inst : VOAMS2E
Misc : MS44522,V2E8165,5,,,,1
ALS Vial : 21 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 21 01:12:31 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Fri Jul 17 14:25:39 2020
Response via : Initial Calibration

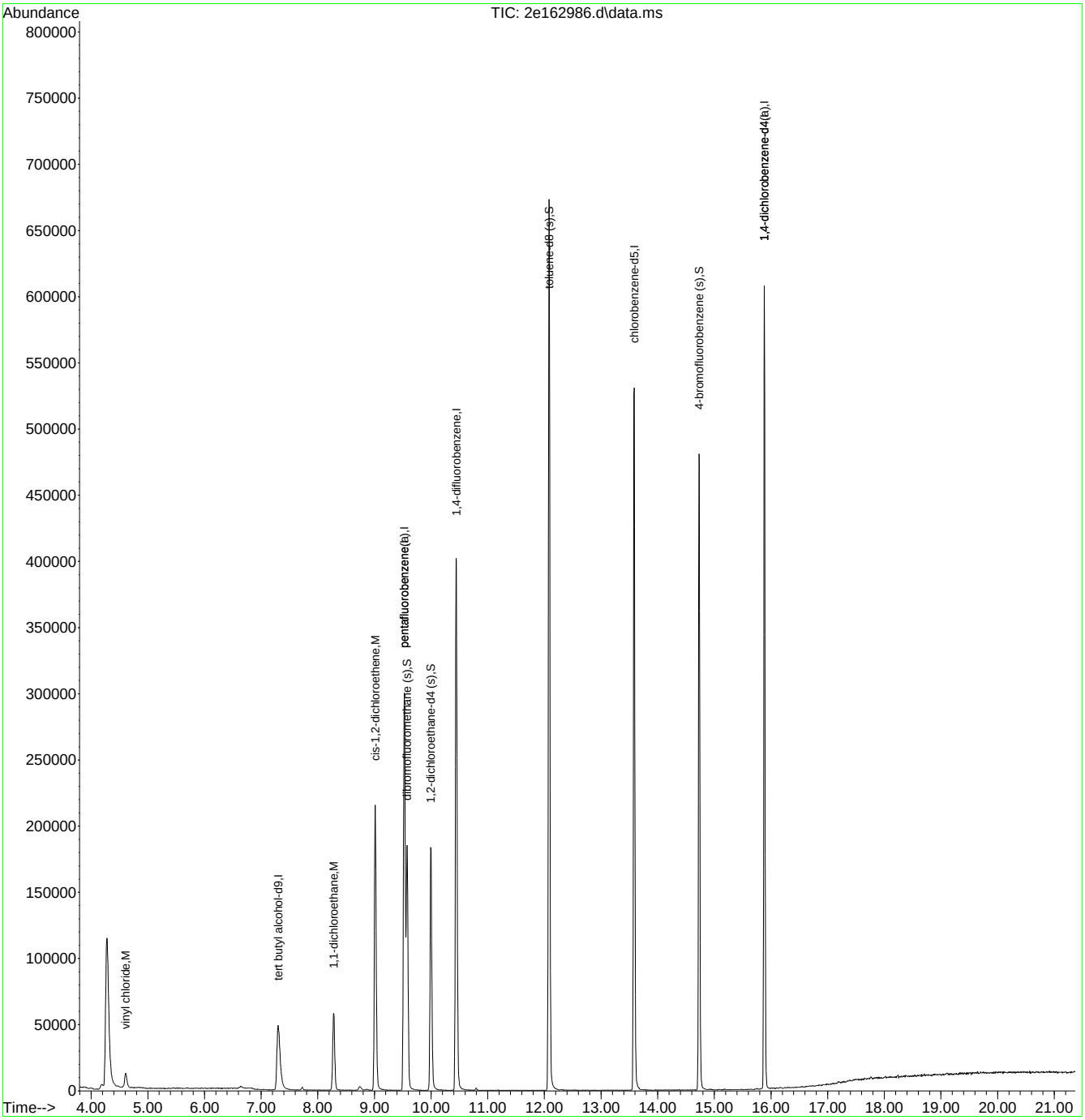
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.300	65	113752	500.00	ug/L	0.00
5) pentafluorobenzene	9.528	168	250194	50.00	ug/L	0.00
53) 1,4-difluorobenzene	10.446	114	370307	50.00	ug/L	0.00
74) chlorobenzene-d5	13.586	117	303776	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	15.883	152	150462	50.00	ug/L	0.00
127) pentafluorobenzene(a)	9.528	168	250194	50.00	ug/L	0.00
130) 1,4-dichlorobenzene-d4(a)	15.883	152	150462	50.00	ug/L	0.00
System Monitoring Compounds						
47) dibromofluoromethane (s)	9.575	113	124113	49.73	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.46%			
54) 1,2-dichloroethane-d4 (s)	9.995	65	141121	50.27	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 100.54%			
75) toluene-d8 (s)	12.081	98	473746	49.20	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 98.40%			
98) 4-bromofluorobenzene (s)	14.729	95	170546	50.19	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.38%			
Target Compounds						Qvalue
9) vinyl chloride	4.605	62	18976	3.61	ug/L	97
31) 1,1-dichloroethane	8.280	63	73681	12.00	ug/L	100
37) cis-1,2-dichloroethene	9.014	96	112764	31.84	ug/L #	82

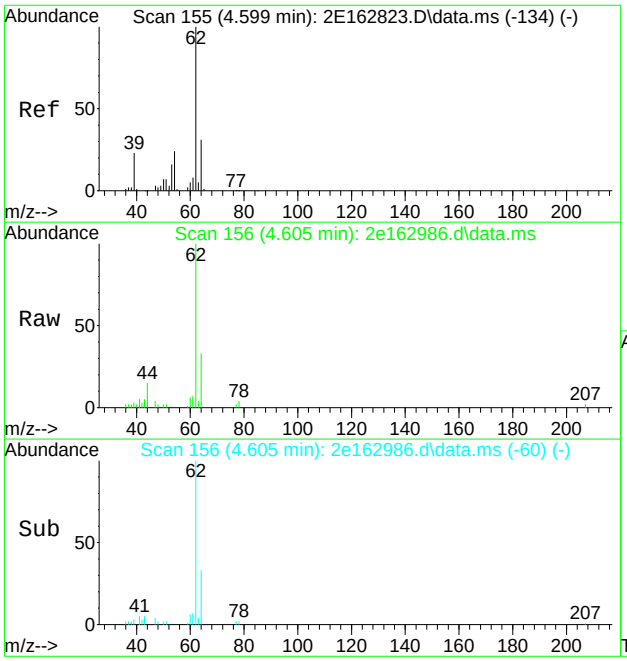
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\July-2020\7-21\v2e8165-rush\
Data File : 2e162986.d
Acq On : 20 Jul 2020 7:50 pm
Operator : krizhkac
Sample : jd10241-3 Inst : VOAMS2E
Misc : MS44522,V2E8165,5,,,,1
ALS Vial : 21 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 21 01:12:31 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Fri Jul 17 14:25:39 2020
Response via : Initial Calibration

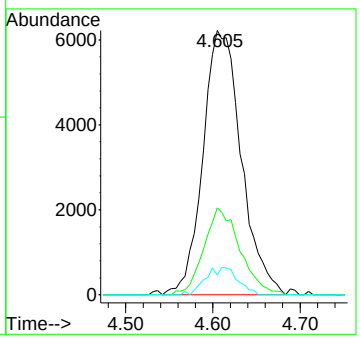


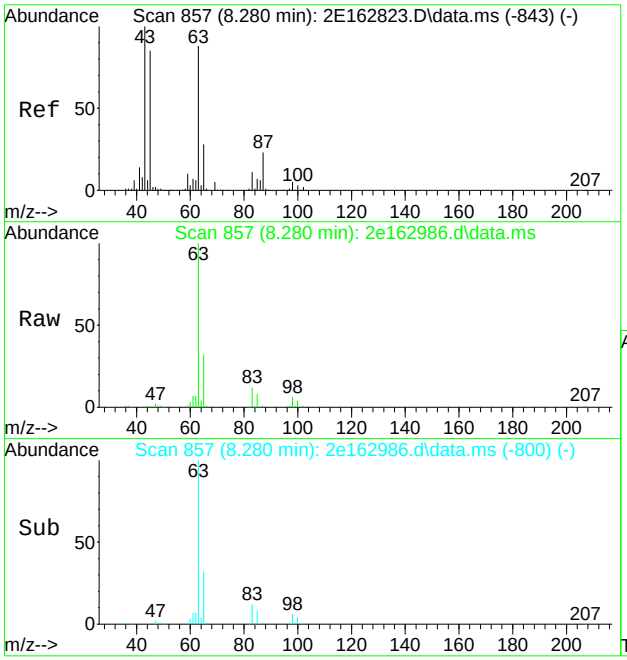


#9
vinyl chloride
Concen: 3.61 ug/L
RT: 4.605 min Scan# 156
Delta R.T. 0.006 min
Lab File: 2e162986.d
Acq: 20 Jul 2020 7:50 pm

Tgt Ion: 62 Resp: 18976

Ion	Ratio	Lower	Upper
62	100		
64	32.9	1.4	61.4
61	7.4	0.0	38.4

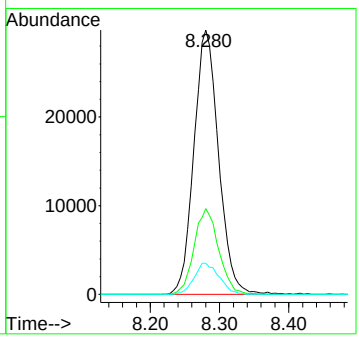


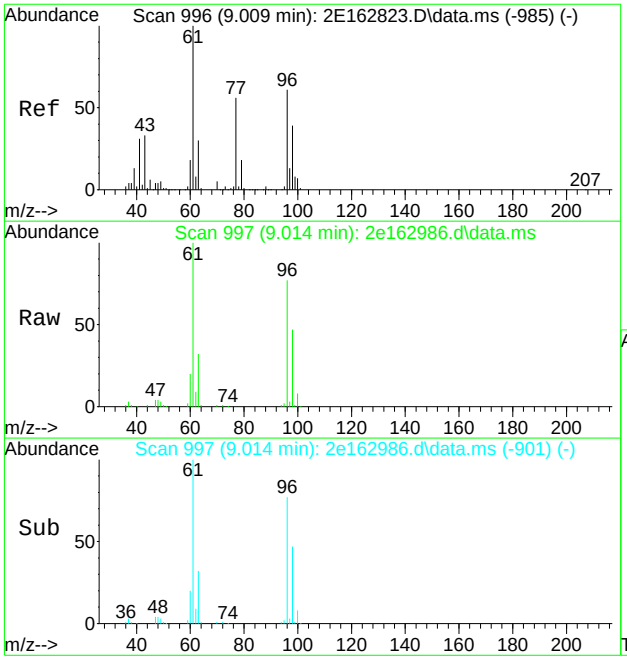


#31
1,1-dichloroethane
Concen: 12.00 ug/L
RT: 8.280 min Scan# 857
Delta R.T. 0.000 min
Lab File: 2e162986.d
Acq: 20 Jul 2020 7:50 pm

Tgt Ion: 63 Resp: 73681

Ion	Ratio	Lower	Upper
63	100		
65	32.4	2.4	62.4
83	11.8	0.0	42.4

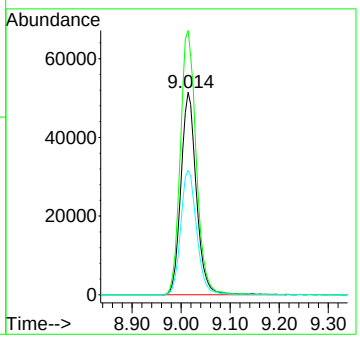




#37
cis-1,2-dichloroethene
Concen: 31.84 ug/L
RT: 9.014 min Scan# 997
Delta R.T. 0.005 min
Lab File: 2e162986.d
Acq: 20 Jul 2020 7:50 pm

Tgt Ion: 96 Resp: 112764

Ion	Ratio	Lower	Upper
96	100		
61	130.4	132.8	192.8#
98	61.3	34.0	94.0



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\July-2020\7-21\v2e8165-rush\
Data File : 2e162987.d
Acq On : 20 Jul 2020 8:20 pm
Operator : krizhkac
Sample : jd10241-4 Inst : VOAMS2E
Misc : MS44522,V2E8165,5,,,,1
ALS Vial : 22 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 21 01:14:04 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Fri Jul 17 14:25:39 2020
Response via : Initial Calibration

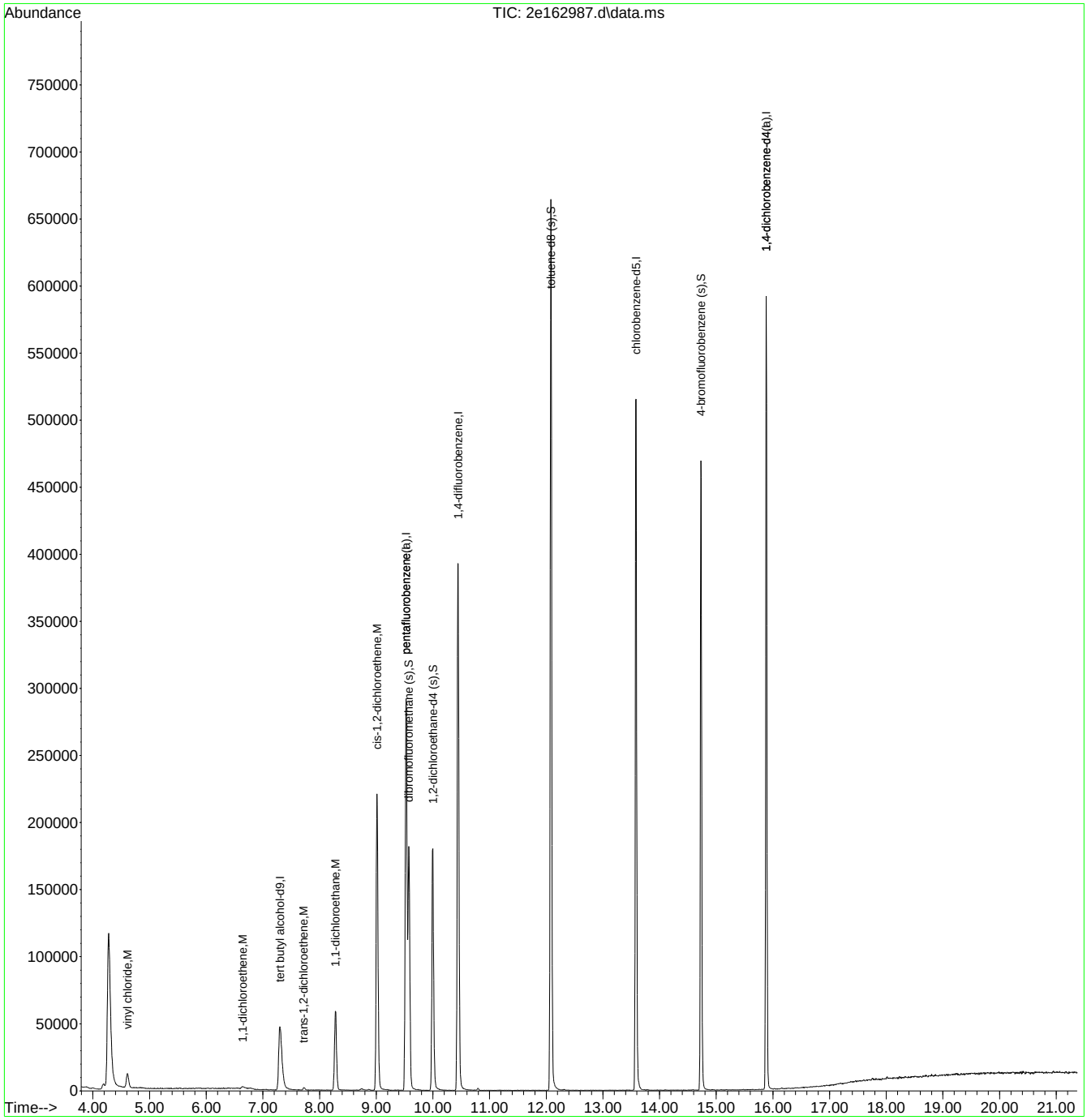
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.300	65	111378	500.00	ug/L	0.00
5) pentafluorobenzene	9.528	168	244083	50.00	ug/L	0.00
53) 1,4-difluorobenzene	10.445	114	363684	50.00	ug/L	0.00
74) chlorobenzene-d5	13.586	117	293796	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	15.882	152	146248	50.00	ug/L	0.00
127) pentafluorobenzene(a)	9.528	168	244083	50.00	ug/L	0.00
130) 1,4-dichlorobenzene-d4(a)	15.882	152	146248	50.00	ug/L	0.00
System Monitoring Compounds						
47) dibromofluoromethane (s)	9.575	113	121642	49.96	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.92%			
54) 1,2-dichloroethane-d4 (s)	10.000	65	138687	50.30	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 100.60%			
75) toluene-d8 (s)	12.081	98	464058	49.83	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.66%			
98) 4-bromofluorobenzene (s)	14.729	95	162383	49.16	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 98.32%			
Target Compounds						Qvalue
9) vinyl chloride	4.610	62	18507	3.61	ug/L	96
18) 1,1-dichloroethene	6.644	61	1253	0.26	ug/L	78
26) trans-1,2-dichloroethene	7.719	61	1405	0.29	ug/L	86
31) 1,1-dichloroethane	8.280	63	75358	12.58	ug/L	99
37) cis-1,2-dichloroethene	9.014	96	116499	33.72	ug/L	84

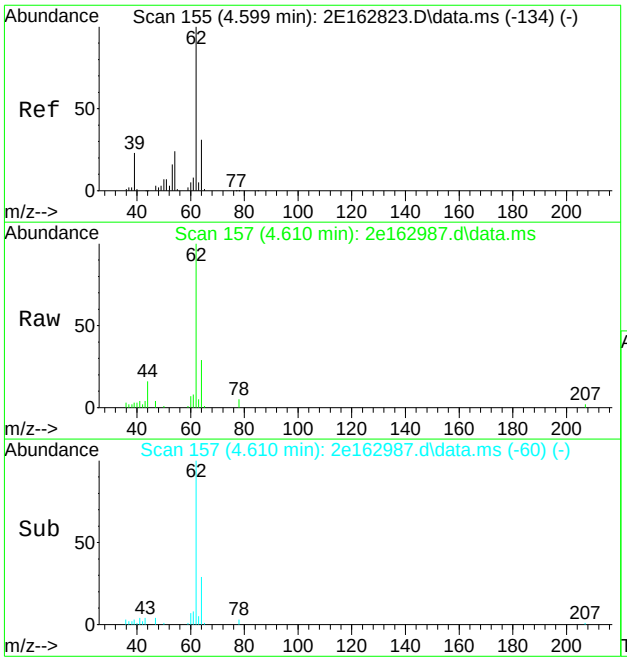
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\July-2020\7-21\v2e8165-rush\
Data File : 2e162987.d
Acq On : 20 Jul 2020 8:20 pm
Operator : krizhkac
Sample : jd10241-4 Inst : VOAMS2E
Misc : MS44522,V2E8165,5,,,,1
ALS Vial : 22 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 21 01:14:04 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Fri Jul 17 14:25:39 2020
Response via : Initial Calibration

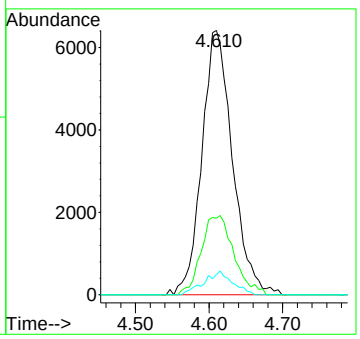


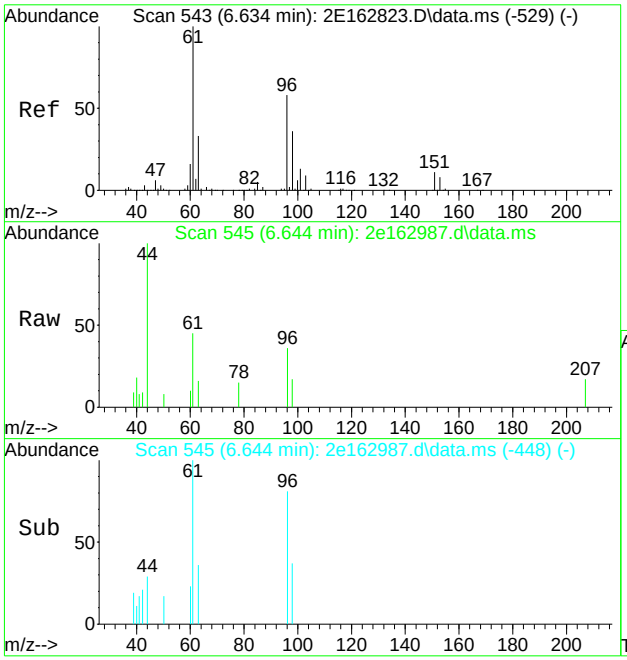


#9
vinyl chloride
Concen: 3.61 ug/L
RT: 4.610 min Scan# 157
Delta R.T. 0.011 min
Lab File: 2e162987.d
Acq: 20 Jul 2020 8:20 pm

Tgt Ion: 62 Resp: 18507

Ion	Ratio	Lower	Upper
62	100		
64	28.9	1.4	61.4
61	7.6	0.0	38.4

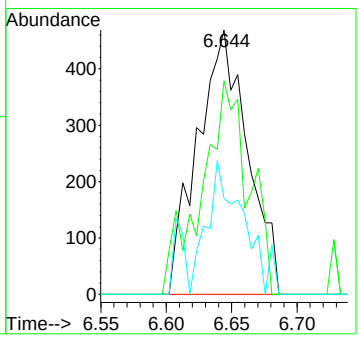


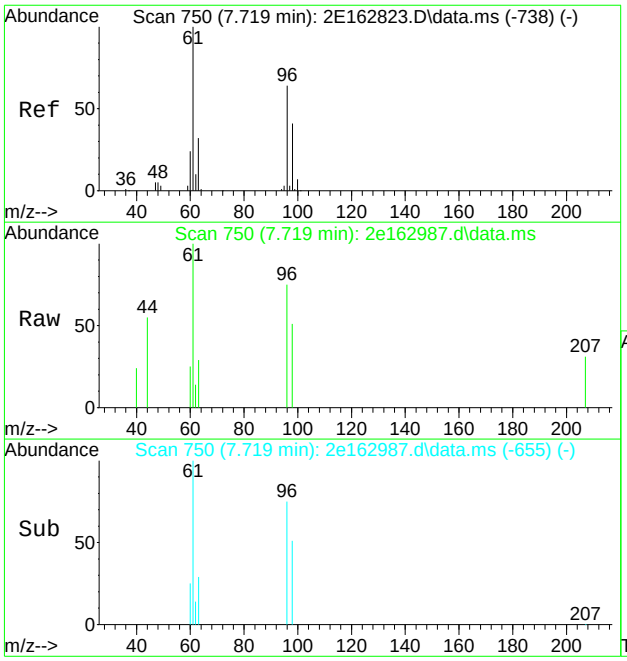


#18
1,1-dichloroethene
Concen: 0.26 ug/L
RT: 6.644 min Scan# 545
Delta R.T. 0.010 min
Lab File: 2e162987.d
Acq: 20 Jul 2020 8:20 pm

Tgt Ion: 61 Resp: 1253

Ion	Ratio	Lower	Upper
61	100		
96	80.8	27.8	87.8
63	36.2	2.6	62.6

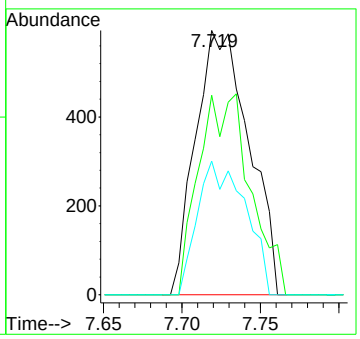


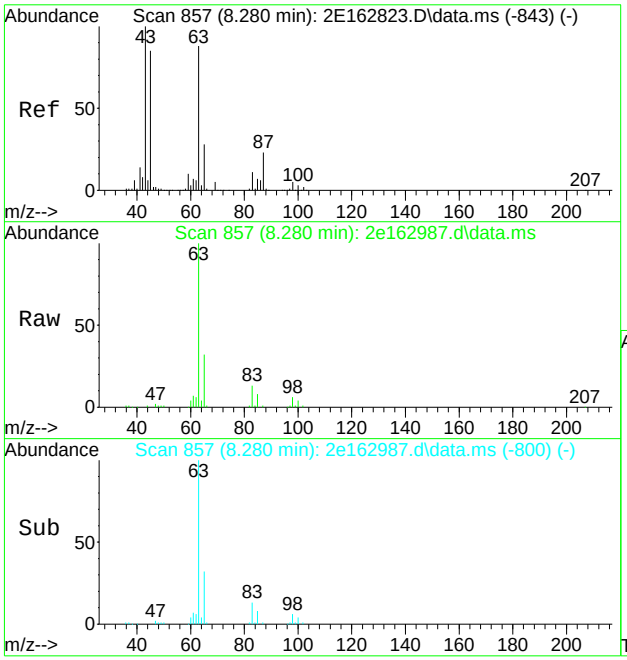


#26
trans-1,2-dichloroethene
Concen: 0.29 ug/L
RT: 7.719 min Scan# 750
Delta R.T. -0.000 min
Lab File: 2e162987.d
Acq: 20 Jul 2020 8:20 pm

Tgt Ion: 61 Resp: 1405

Ion	Ratio	Lower	Upper
61	100		
96	75.5	34.3	94.3
98	50.6	11.3	71.3

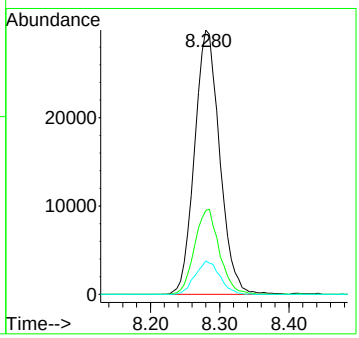


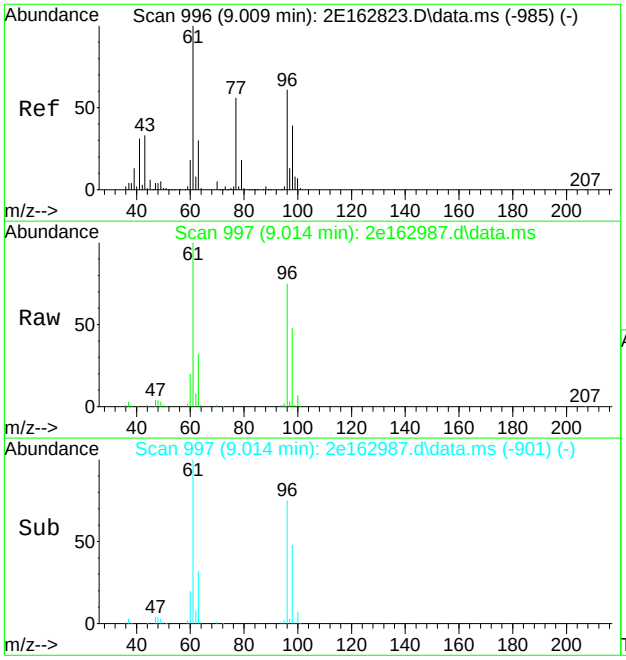


#31
1,1-dichloroethane
Concen: 12.58 ug/L
RT: 8.280 min Scan# 857
Delta R.T. -0.000 min
Lab File: 2e162987.d
Acq: 20 Jul 2020 8:20 pm

Tgt Ion: 63 Resp: 75358

Ion	Ratio	Lower	Upper
63	100		
65	31.7	2.4	62.4
83	12.6	0.0	42.4

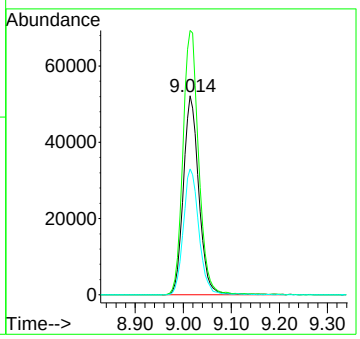




#37
cis-1,2-dichloroethene
Concen: 33.72 ug/L
RT: 9.014 min Scan# 997
Delta R.T. 0.005 min
Lab File: 2e162987.d
Acq: 20 Jul 2020 8:20 pm

Tgt Ion: 96 Resp: 116499

Ion	Ratio	Lower	Upper
96	100		
61	132.9	132.8	192.8
98	63.3	34.0	94.0



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\kristelv\july 2020\07222020\v2e8165 rest of batch\
Data File : 2e162991.d
Acq On : 20 Jul 2020 10:19 pm
Operator : krizhkac
Sample : jd10241-5 Inst : VOAMS2E
Misc : MS44522,V2E8165,5,,,,10
ALS Vial : 26 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 21 10:05:10 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Jul 16 11:01:59 2020
Response via : Initial Calibration

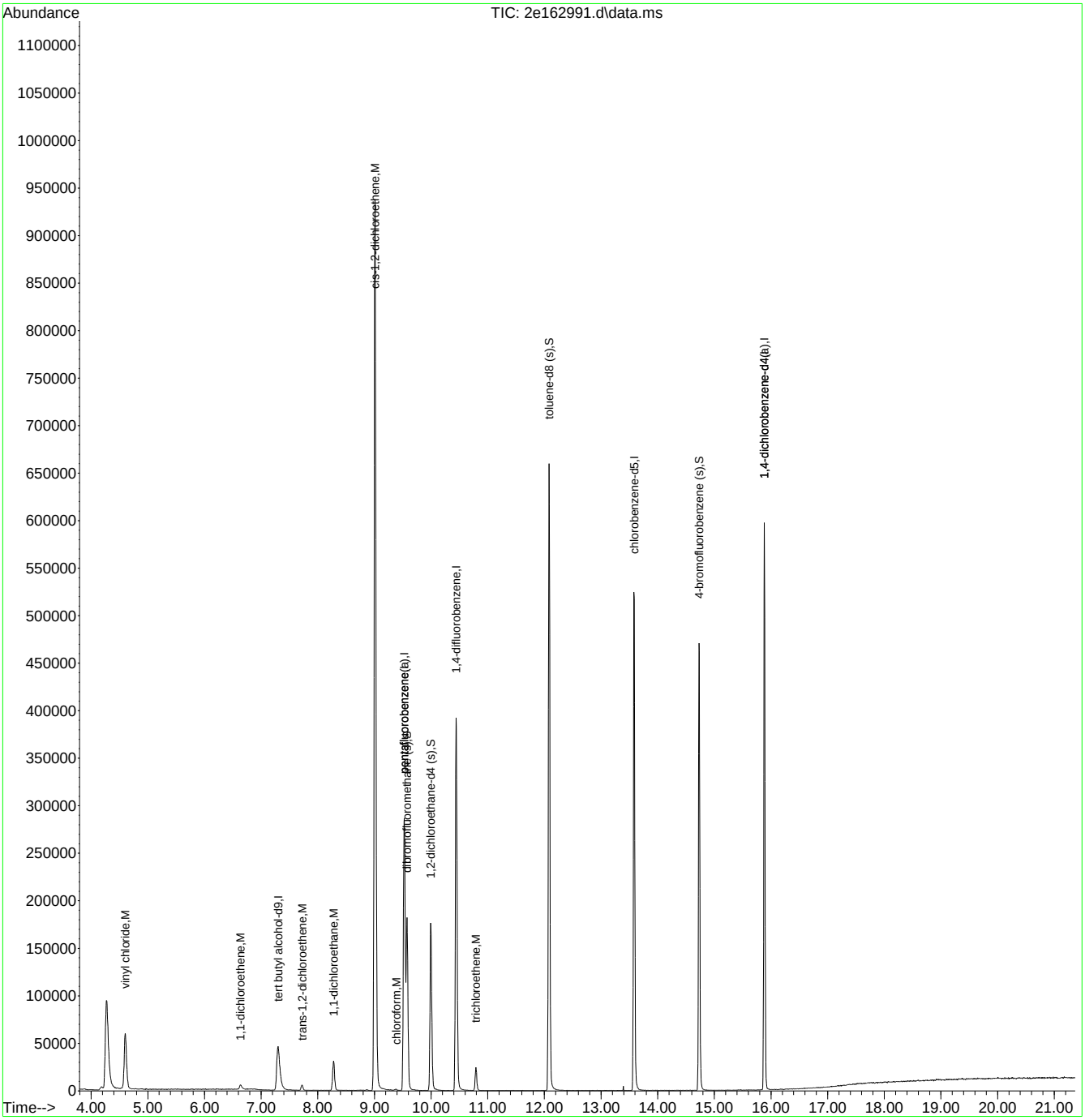
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.300	65	105813	500.00	ug/L	0.00
5) pentafluorobenzene	9.528	168	241546	50.00	ug/L	0.00
53) 1,4-difluorobenzene	10.440	114	359689	50.00	ug/L	0.00
74) chlorobenzene-d5	13.586	117	295573	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	15.883	152	145415	50.00	ug/L	0.00
127) pentafluorobenzene(a)	9.528	168	241546	50.00	ug/L	0.00
130) 1,4-dichlorobenzene-d4(a)	15.883	152	145415	50.00	ug/L	0.00
System Monitoring Compounds						
47) dibromofluoromethane (s)	9.575	113	121430	50.40	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.80%			
54) 1,2-dichloroethane-d4 (s)	9.995	65	135877	49.83	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 99.66%			
75) toluene-d8 (s)	12.081	98	461492	49.26	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 98.52%			
98) 4-bromofluorobenzene (s)	14.729	95	162236	49.40	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 98.80%			
Target Compounds						Qvalue
9) vinyl chloride	4.599	62	105117	20.74	ug/L	99
18) 1,1-dichloroethene	6.634	61	4771	0.99	ug/L	98
26) trans-1,2-dichloroethene	7.724	61	4343	0.92	ug/L	92
31) 1,1-dichloroethane	8.280	63	38936	6.57	ug/L	100
37) cis-1,2-dichloroethene	9.009	96	486030	142.16	ug/L	85
42) chloroform	9.386	83	1254	0.23	ug/L	90
62) trichloroethene	10.791	95	9700	3.25	ug/L	95

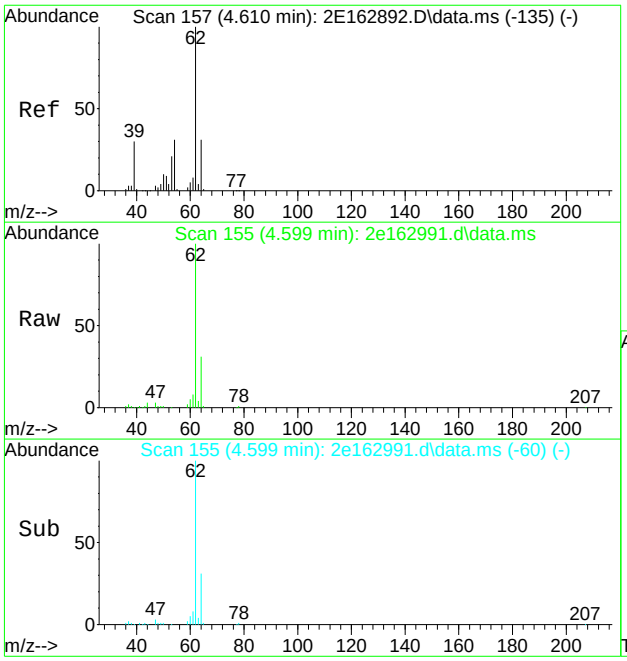
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\kristelv\july 2020\07222020\v2e8165 rest of batch\
Data File : 2e162991.d
Acq On : 20 Jul 2020 10:19 pm
Operator : krizhkac
Sample : jd10241-5 Inst : VOAMS2E
Misc : MS44522,V2E8165,5,,,,10
ALS Vial : 26 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 21 10:05:10 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Jul 16 11:01:59 2020
Response via : Initial Calibration

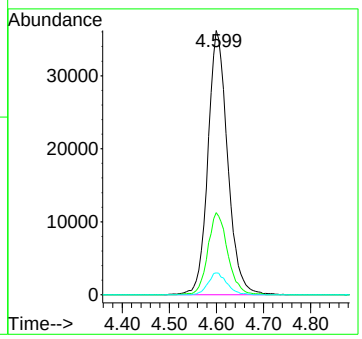


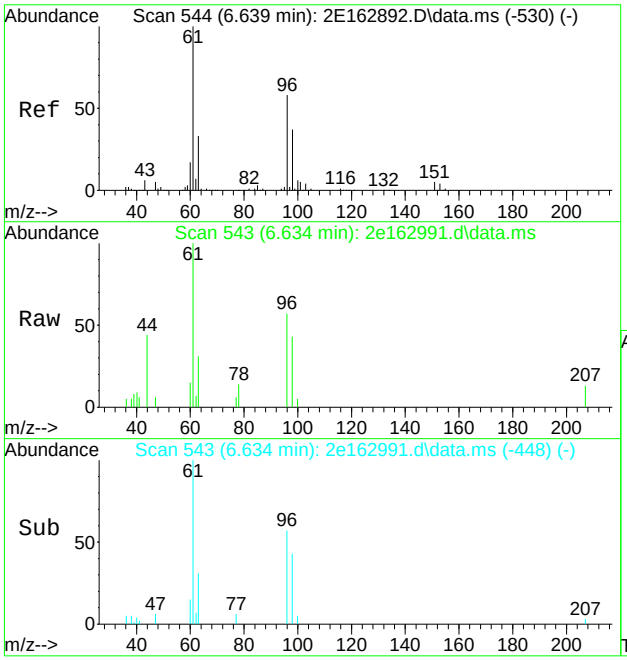


#9
vinyl chloride
Concen: 20.74 ug/L
RT: 4.599 min Scan# 155
Delta R.T. 0.000 min
Lab File: 2e162991.d
Acq: 20 Jul 2020 10:19 pm

Tgt Ion: 62 Resp: 105117

Ion	Ratio	Lower	Upper
62	100		
64	31.0	1.4	61.4
61	8.3	0.0	38.4

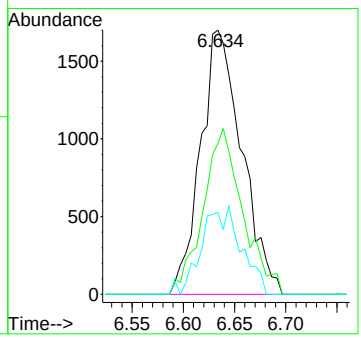


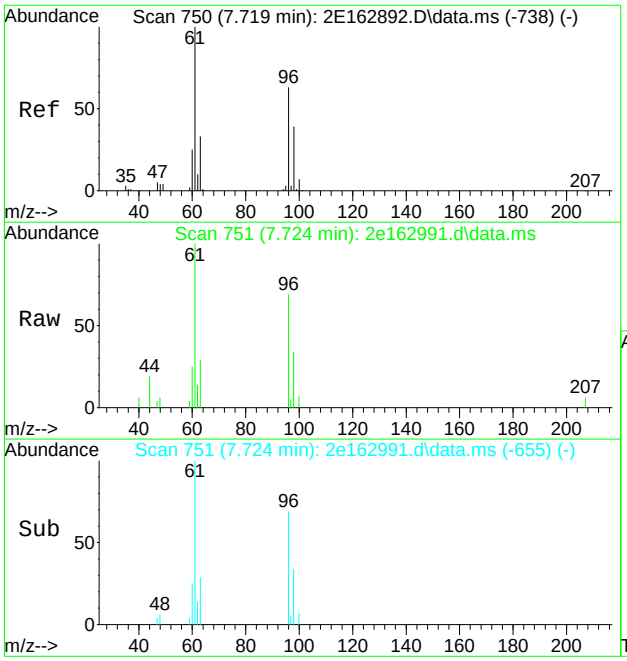


#18
1,1-dichloroethene
Concen: 0.99 ug/L
RT: 6.634 min Scan# 543
Delta R.T. -0.000 min
Lab File: 2e162991.d
Acq: 20 Jul 2020 10:19 pm

Tgt Ion: 61 Resp: 4771

Ion	Ratio	Lower	Upper
61	100		
96	57.1	27.8	87.8
63	31.0	2.6	62.6

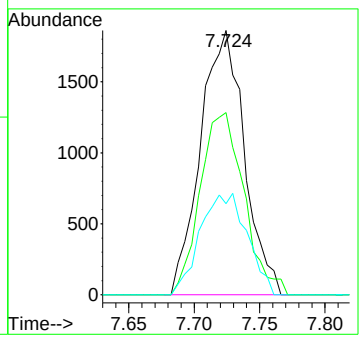


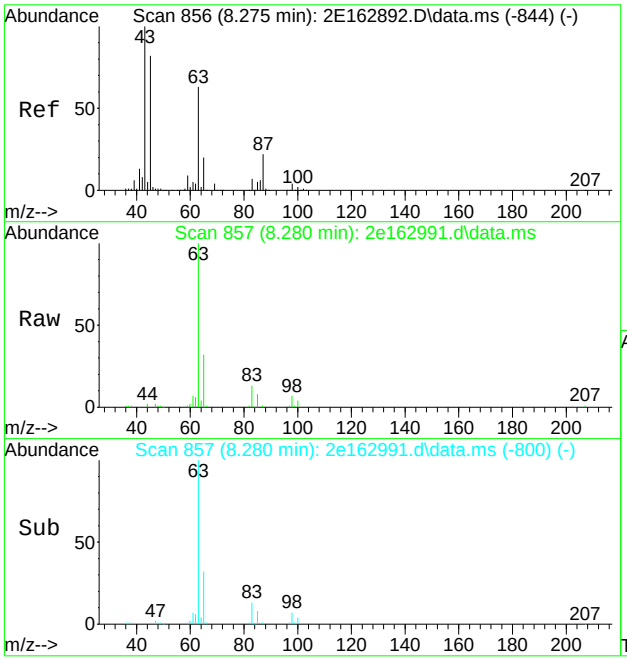


#26
trans-1,2-dichloroethene
Concen: 0.92 ug/L
RT: 7.724 min Scan# 751
Delta R.T. 0.005 min
Lab File: 2e162991.d
Acq: 20 Jul 2020 10:19 pm

Tgt Ion: 61 Resp: 4343

Ion	Ratio	Lower	Upper
61	100		
96	68.9	34.3	94.3
98	34.5	11.3	71.3

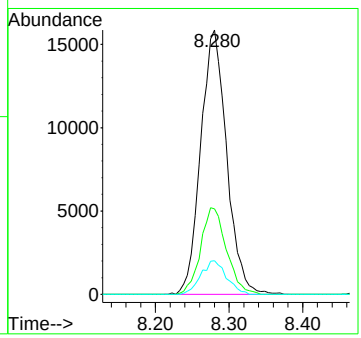


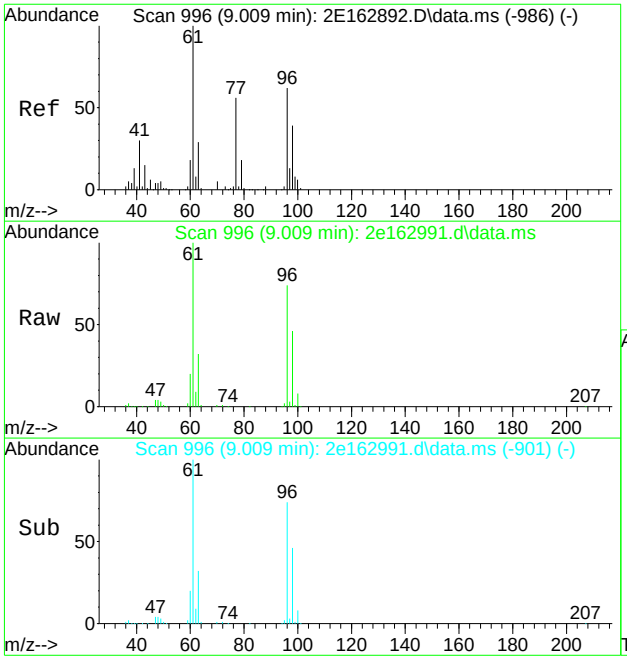


#31
1,1-dichloroethane
Concen: 6.57 ug/L
RT: 8.280 min Scan# 857
Delta R.T. 0.000 min
Lab File: 2e162991.d
Acq: 20 Jul 2020 10:19 pm

Tgt Ion: 63 Resp: 38936

Ion	Ratio	Lower	Upper
63	100		
65	32.4	2.4	62.4
83	12.8	0.0	42.4

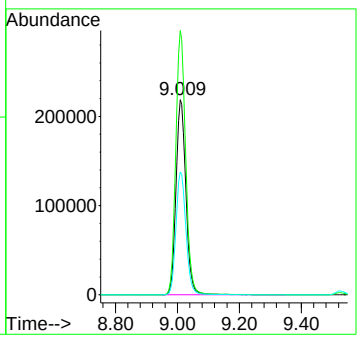


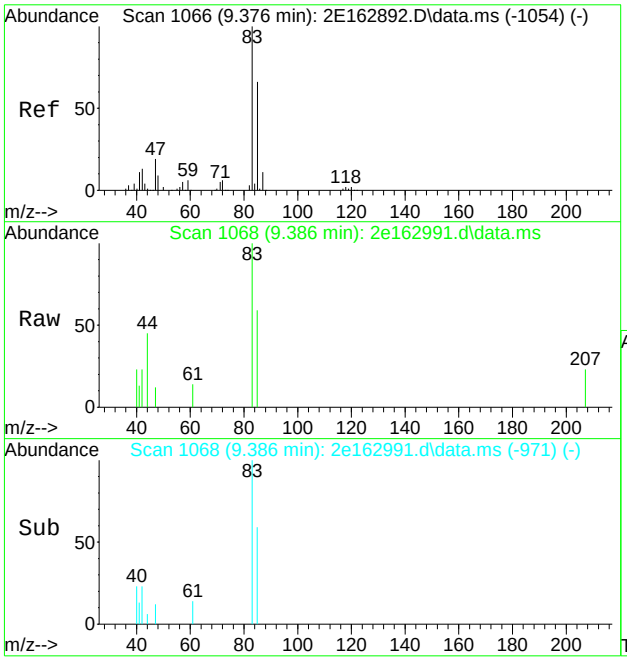


#37
cis-1,2-dichloroethene
Concen: 142.16 ug/L
RT: 9.009 min Scan# 996
Delta R.T. -0.000 min
Lab File: 2e162991.d
Acq: 20 Jul 2020 10:19 pm

Tgt Ion: 96 Resp: 486030

Ion	Ratio	Lower	Upper
96	100		
61	135.5	132.8	192.8
98	63.0	34.0	94.0

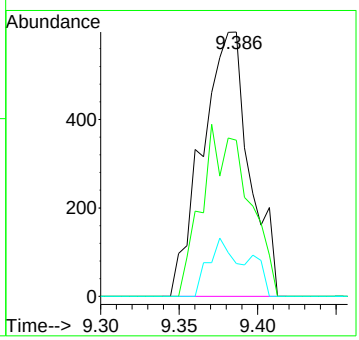


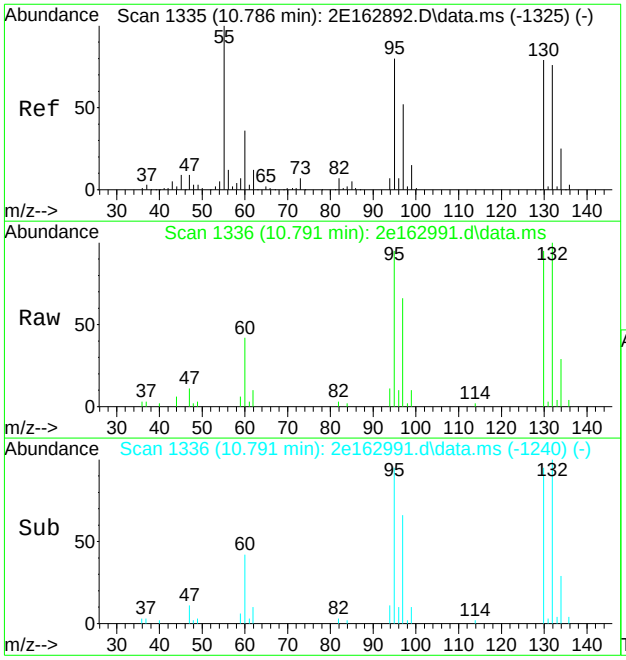


#42
chloroform
Concen: 0.23 ug/L
RT: 9.386 min Scan# 1068
Delta R.T. 0.010 min
Lab File: 2e162991.d
Acq: 20 Jul 2020 10:19 pm

Tgt Ion: 83 Resp: 1254

Ion	Ratio	Lower	Upper
83	100		
85	59.0	33.5	93.5
47	12.4	0.0	53.0

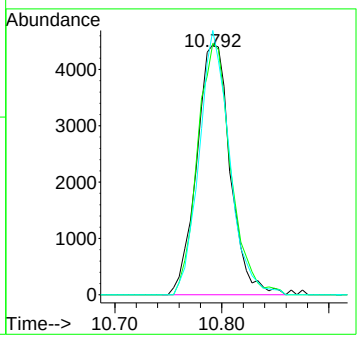




#62
trichloroethene
Concen: 3.25 ug/L
RT: 10.791 min Scan# 1336
Delta R.T. 0.005 min
Lab File: 2e162991.d
Acq: 20 Jul 2020 10:19 pm

Tgt Ion: 95 Resp: 9700

Ion	Ratio	Lower	Upper
95	100		
130	100.6	69.0	129.0
132	105.8	68.2	128.2



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\July-2020\7-21\v2e8165-rush\
Data File : 2e162988.d
Acq On : 20 Jul 2020 8:50 pm
Operator : krizhkac
Sample : jd10241-6 Inst : VOAMS2E
Misc : MS44522,V2E8165,5,,,,1
ALS Vial : 23 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 21 01:16:13 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Fri Jul 17 14:25:39 2020
Response via : Initial Calibration

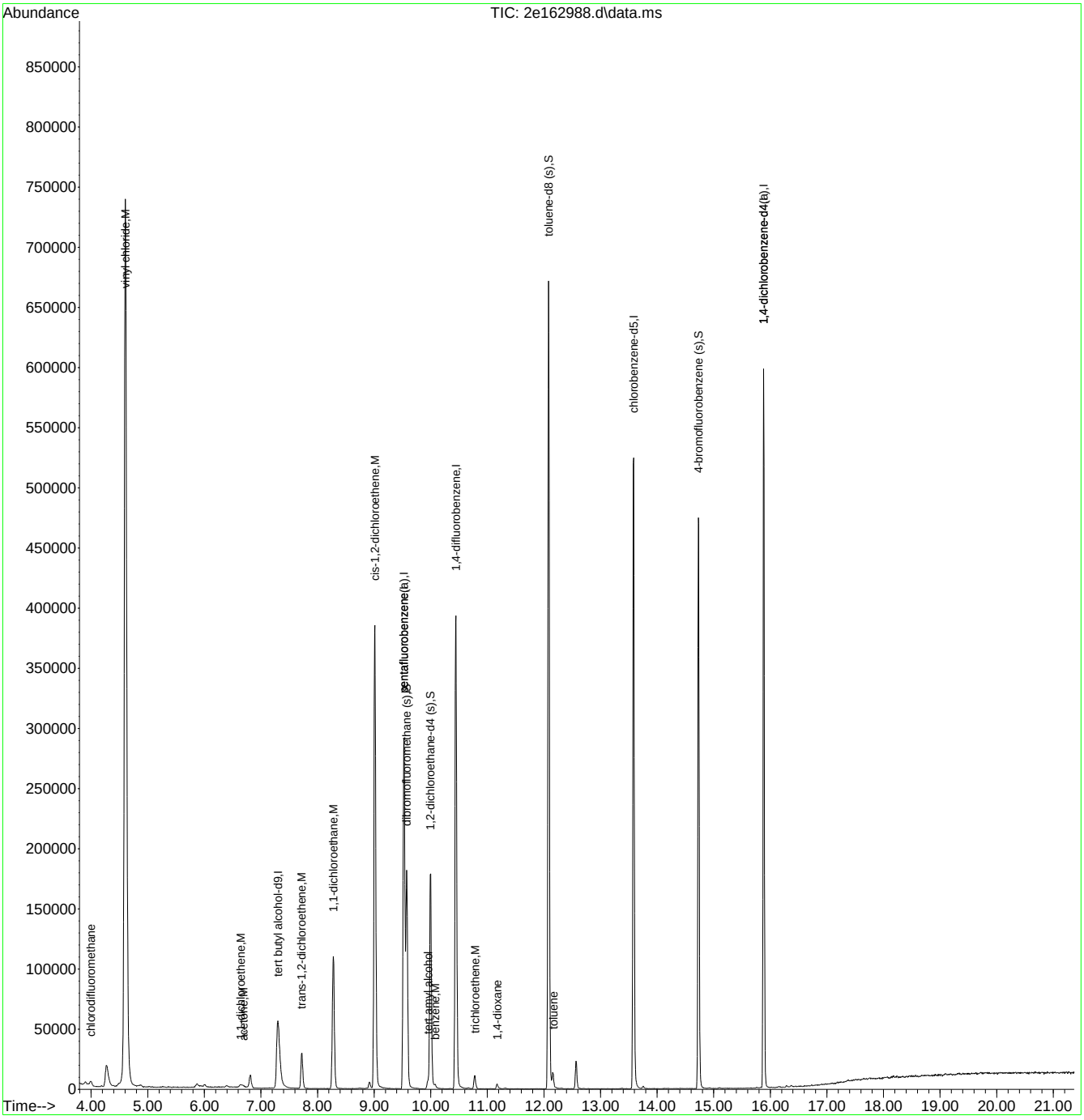
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.300	65	130409	500.00	ug/L	0.00
5) pentafluorobenzene	9.528	168	243999	50.00	ug/L	0.00
53) 1,4-difluorobenzene	10.445	114	365670	50.00	ug/L	0.00
74) chlorobenzene-d5	13.586	117	297749	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	15.882	152	147837	50.00	ug/L	0.00
127) pentafluorobenzene(a)	9.528	168	243999	50.00	ug/L	0.00
130) 1,4-dichlorobenzene-d4(a)	15.882	152	147837	50.00	ug/L	0.00
System Monitoring Compounds						
47) dibromofluoromethane (s)	9.575	113	121671	49.99	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.98%			
54) 1,2-dichloroethane-d4 (s)	9.995	65	137838	49.72	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 99.44%			
75) toluene-d8 (s)	12.081	98	467090	49.49	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 98.98%			
98) 4-bromofluorobenzene (s)	14.729	95	166726	49.93	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.86%			
Target Compounds						Qvalue
4) 1,4-dioxane	11.174	88	3357	114.08	ug/L	94
6) chlorodifluoromethane	3.996	51	7713	1.52	ug/L	90
9) vinyl chloride	4.605	62	1348629	263.37	ug/L	100
18) 1,1-dichloroethene	6.644	61	2302	0.47	ug/L	84
19) acetone	6.691	43	2762	3.41	ug/L	98
26) trans-1,2-dichloroethene	7.719	61	21971	4.61	ug/L	98
31) 1,1-dichloroethane	8.280	63	140510	23.46	ug/L	99
37) cis-1,2-dichloroethene	9.014	96	200799	58.14	ug/L	85
52) tert amyl alcohol	9.958	73	3644	24.15	ug/L	85
57) benzene	10.078	78	2674	0.20	ug/L	91
62) trichloroethene	10.786	95	864	0.28	ug/L #	68
76) toluene	12.165	92	5187	0.70	ug/L	92

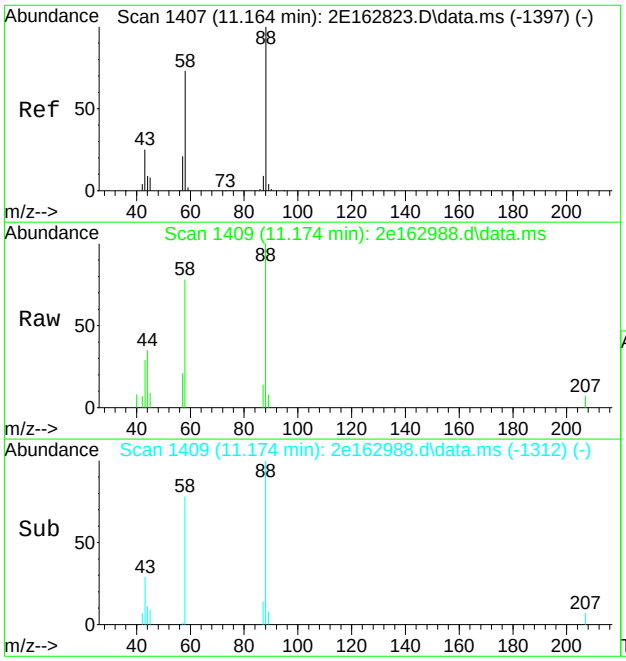
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\July-2020\7-21\v2e8165-rush\
Data File : 2e162988.d
Acq On : 20 Jul 2020 8:50 pm
Operator : krizhkac
Sample : jd10241-6 Inst : VOAMS2E
Misc : MS44522,V2E8165,5,,,,1
ALS Vial : 23 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 21 01:16:13 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Fri Jul 17 14:25:39 2020
Response via : Initial Calibration

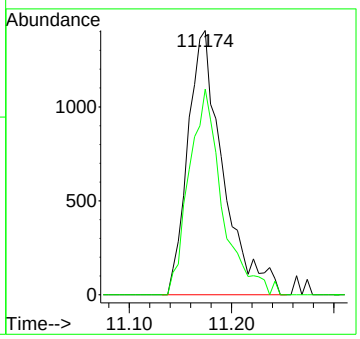


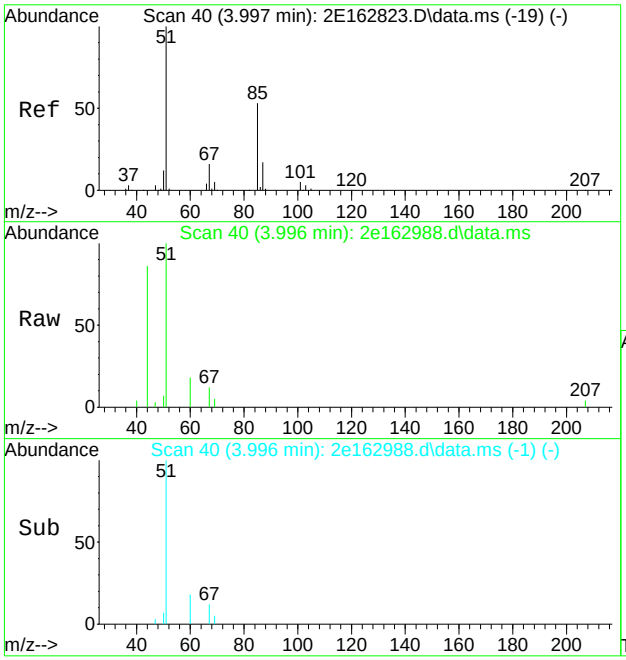


#4
1,4-dioxane
Concen: 114.08 ug/L
RT: 11.174 min Scan# 1409
Delta R.T. 0.010 min
Lab File: 2e162988.d
Acq: 20 Jul 2020 8:50 pm

Tgt Ion: 88 Resp: 3357

Ion	Ratio	Lower	Upper
88	100		
58	77.8	53.0	93.0

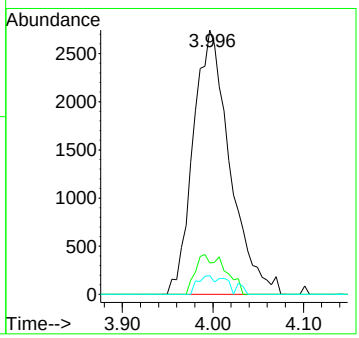


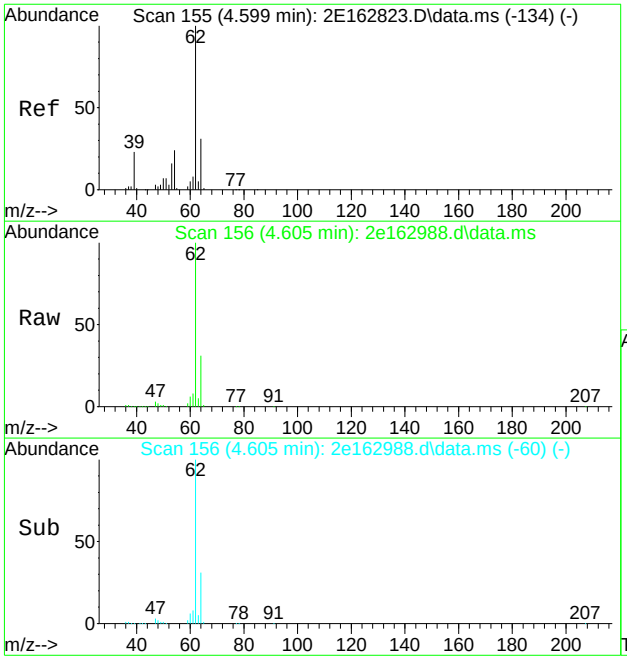


#6
chlorodifluoromethane
Concen: 1.52 ug/L
RT: 3.996 min Scan# 40
Delta R.T. -0.001 min
Lab File: 2e162988.d
Acq: 20 Jul 2020 8:50 pm

Tgt Ion: 51 Resp: 7713

Ion	Ratio	Lower	Upper
51	100		
67	11.9	0.0	35.9
50	7.1	0.0	31.5

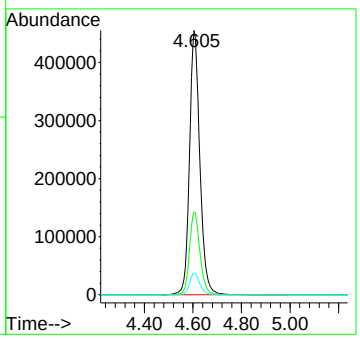


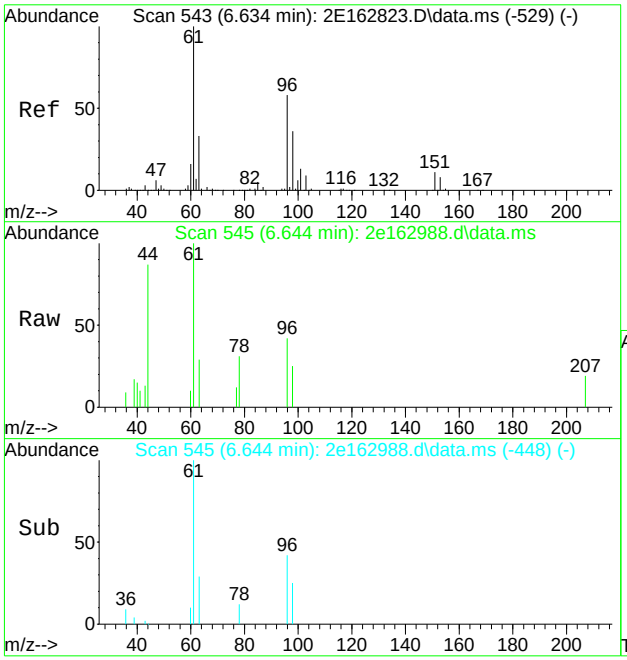


#9
vinyl chloride
Concen: 263.37 ug/L
RT: 4.605 min Scan# 156
Delta R.T. 0.006 min
Lab File: 2e162988.d
Acq: 20 Jul 2020 8:50 pm

Tgt Ion: 62 Resp: 1348629

Ion	Ratio	Lower	Upper
62	100		
64	31.3	1.4	61.4
61	8.2	0.0	38.4

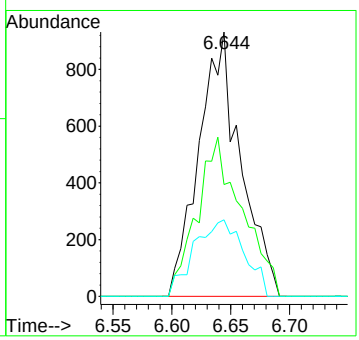


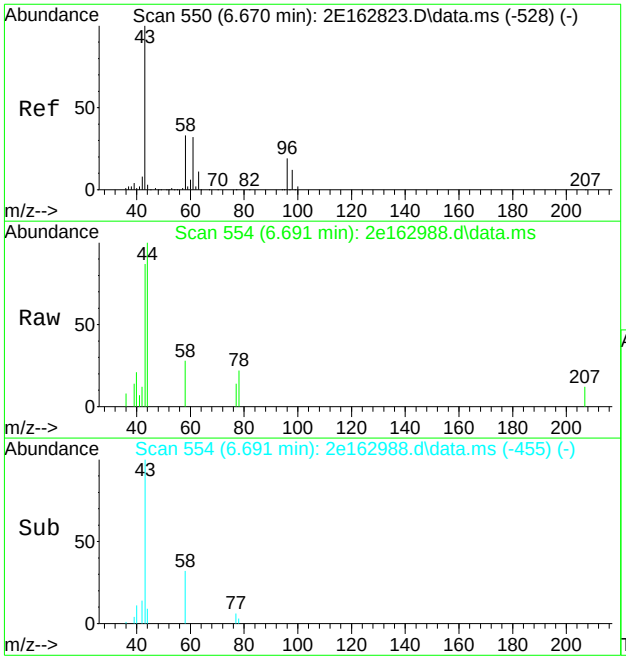


#18
1,1-dichloroethene
Concen: 0.47 ug/L
RT: 6.644 min Scan# 545
Delta R.T. 0.010 min
Lab File: 2e162988.d
Acq: 20 Jul 2020 8:50 pm

Tgt Ion: 61 Resp: 2302

Ion	Ratio	Lower	Upper
61	100		
96	42.3	27.8	87.8
63	29.0	2.6	62.6

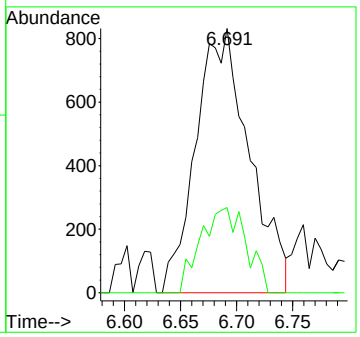


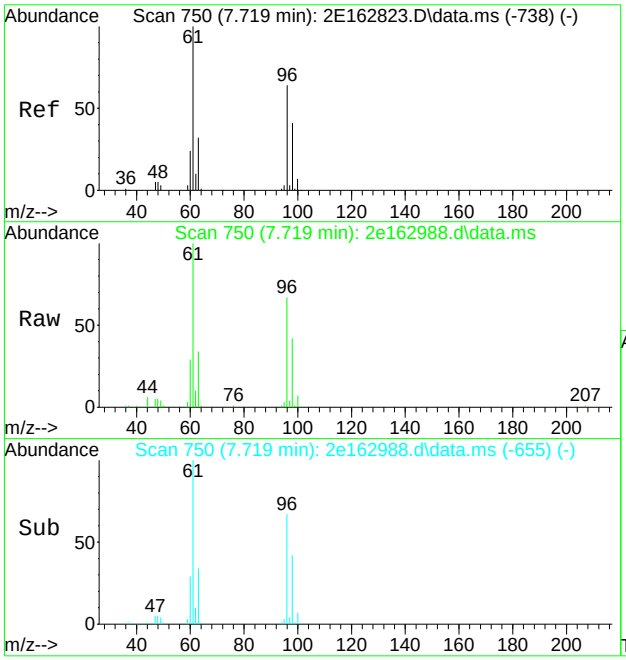


#19
acetone
Concen: 3.41 ug/L
RT: 6.691 min Scan# 554
Delta R.T. 0.021 min
Lab File: 2e162988.d
Acq: 20 Jul 2020 8:50 pm

Tgt Ion: 43 Resp: 2762

Ion	Ratio	Lower	Upper
43	100		
58	32.2	3.2	63.2

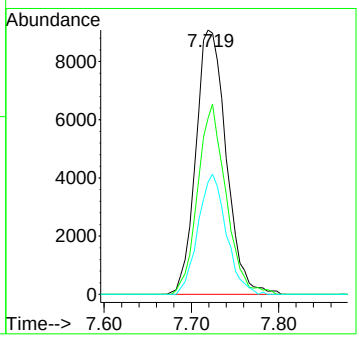


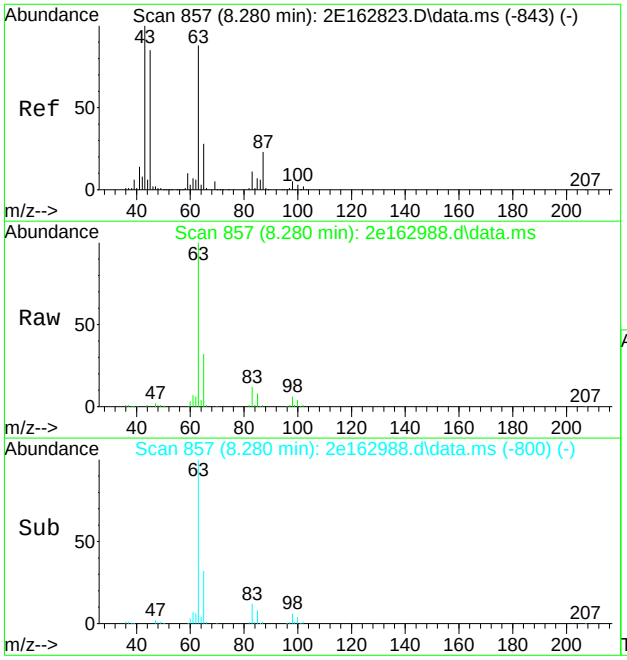


#26
trans-1,2-dichloroethene
Concen: 4.61 ug/L
RT: 7.719 min Scan# 750
Delta R.T. 0.000 min
Lab File: 2e162988.d
Acq: 20 Jul 2020 8:50 pm

Tgt Ion: 61 Resp: 21971

Ion	Ratio	Lower	Upper
61	100		
96	66.6	34.3	94.3
98	42.4	11.3	71.3

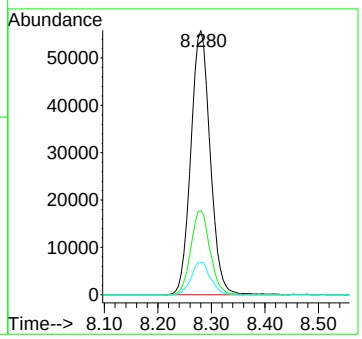


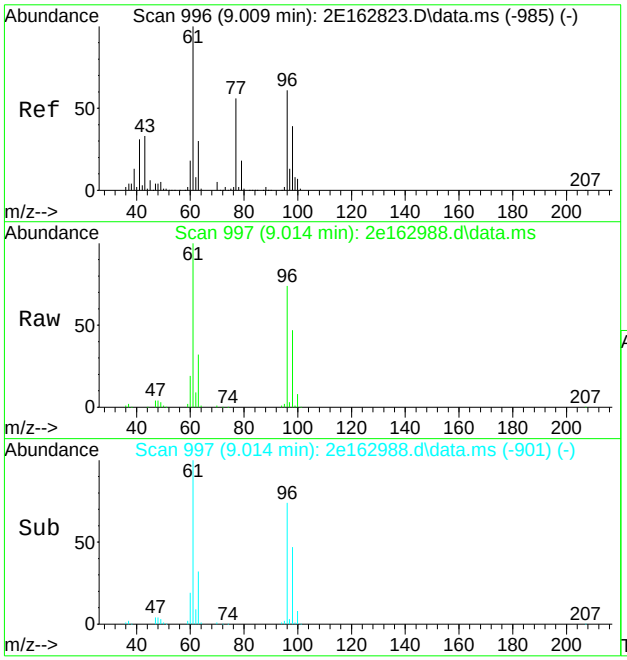


#31
1,1-dichloroethane
Concen: 23.46 ug/L
RT: 8.280 min Scan# 857
Delta R.T. 0.000 min
Lab File: 2e162988.d
Acq: 20 Jul 2020 8:50 pm

Tgt Ion: 63 Resp: 140510

Ion	Ratio	Lower	Upper
63	100		
65	31.9	2.4	62.4
83	12.3	0.0	42.4

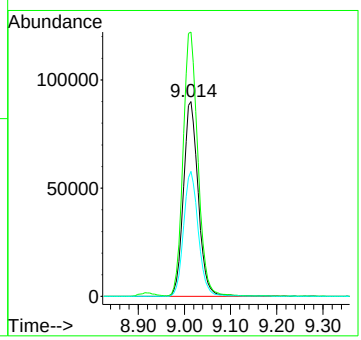


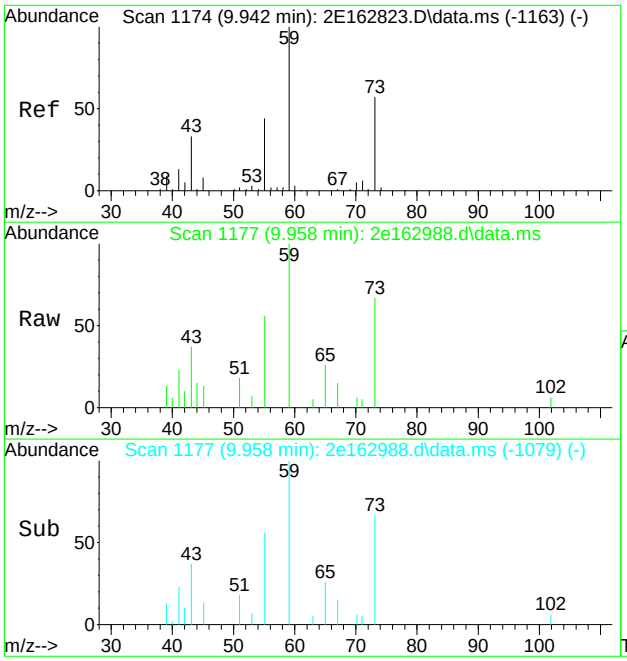


#37
cis-1,2-dichloroethene
Concen: 58.14 ug/L
RT: 9.014 min Scan# 997
Delta R.T. 0.005 min
Lab File: 2e162988.d
Acq: 20 Jul 2020 8:50 pm

Tgt Ion: 96 Resp: 200799

Ion	Ratio	Lower	Upper
96	100		
61	135.6	132.8	192.8
98	64.3	34.0	94.0

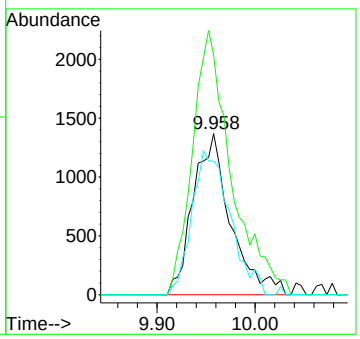


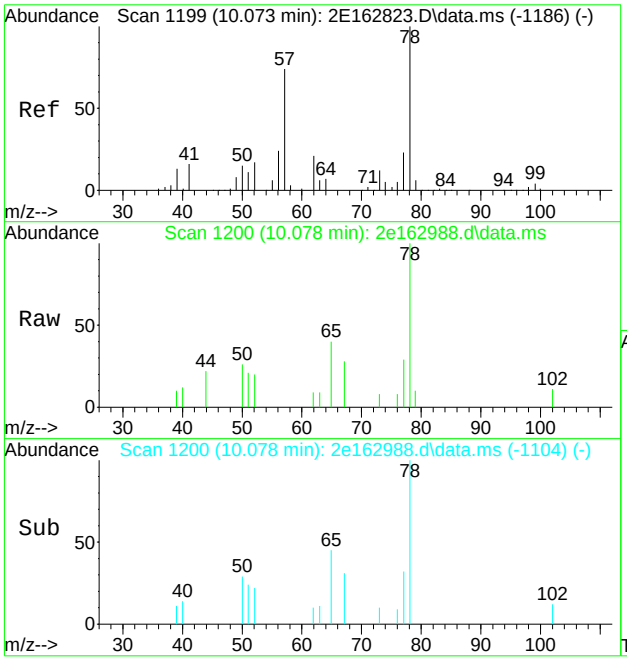


#52
tert amyl alcohol
Concen: 24.15 ug/L
RT: 9.958 min Scan# 1177
Delta R.T. 0.016 min
Lab File: 2e162988.d
Acq: 20 Jul 2020 8:50 pm

Tgt Ion: 73 Resp: 3644

Ion	Ratio	Lower	Upper
73	100		
59	148.7	146.4	206.4
55	82.9	47.9	107.9

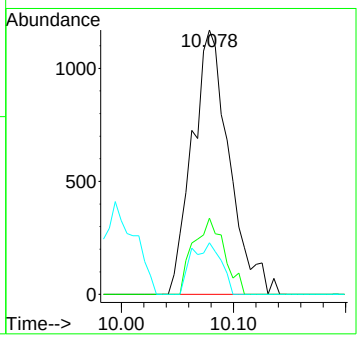


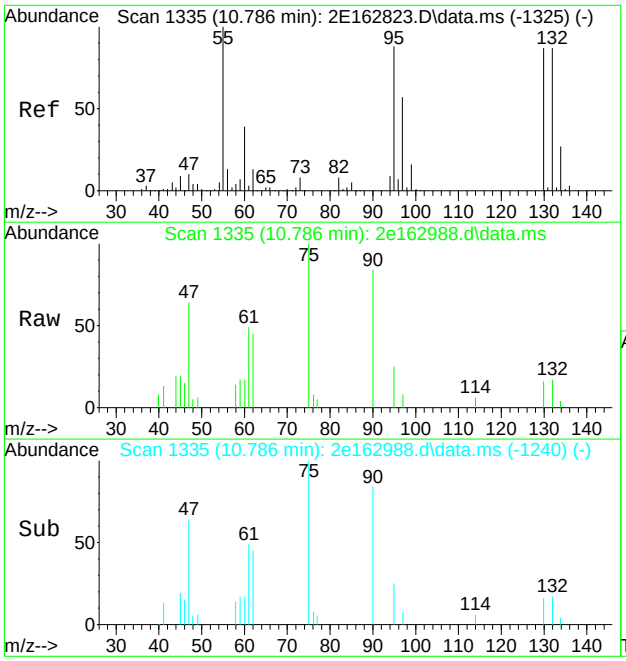


#57
benzene
Concen: 0.20 ug/L
RT: 10.078 min Scan# 1200
Delta R.T. 0.005 min
Lab File: 2e162988.d
Acq: 20 Jul 2020 8:50 pm

Tgt Ion: 78 Resp: 2674

Ion	Ratio	Lower	Upper
78	100		
77	28.8	0.0	53.3
52	19.6	0.0	46.9

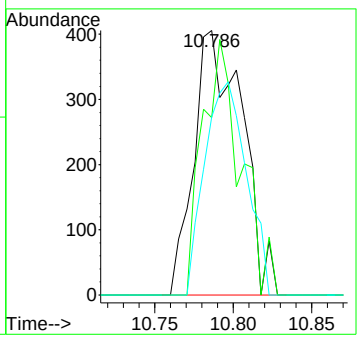


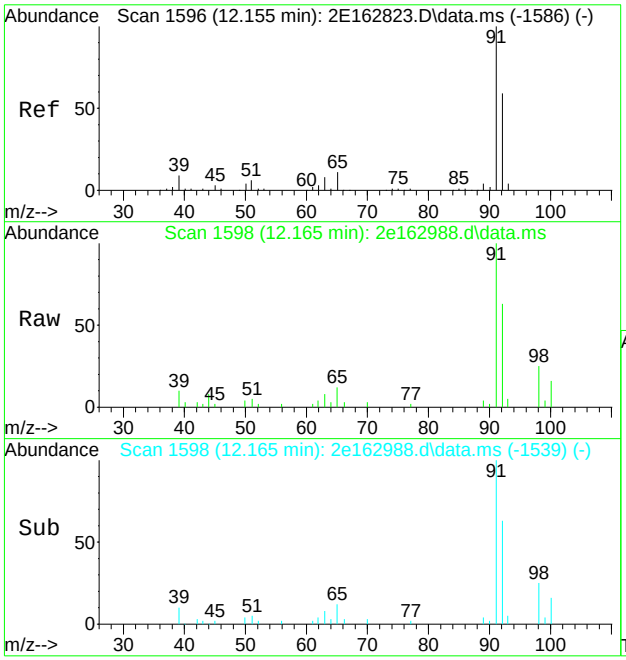


#62
trichloroethene
Concen: 0.28 ug/L
RT: 10.786 min Scan# 1335
Delta R.T. 0.000 min
Lab File: 2e162988.d
Acq: 20 Jul 2020 8:50 pm

Tgt Ion: 95 Resp: 864

Ion	Ratio	Lower	Upper
95	100		
130	67.0	69.0	129.0#
132	67.2	68.2	128.2#

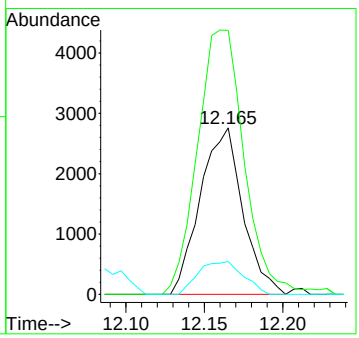




#76
toluene
Concen: 0.70 ug/L
RT: 12.165 min Scan# 1598
Delta R.T. 0.010 min
Lab File: 2e162988.d
Acq: 20 Jul 2020 8:50 pm

Tgt Ion: 92 Resp: 5187

Ion	Ratio	Lower	Upper
92	100		
91	158.4	150.2	190.2
65	19.8	0.0	39.6



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\janellac\07-28-2020\v4d4597\
Data File : 4d103633.d
Acq On : 27 Jul 2020 12:41 pm
Operator : krizhkac
Sample : jd10241-6 Inst : MS4D
Misc : MS44522,V4D4597,5,,,,10
ALS Vial : 10 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Results File: M4D4496.RES
Quant Time: Jul 27 22:13:40 2020
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 16:29:00 2020
Response via : Initial Calibration

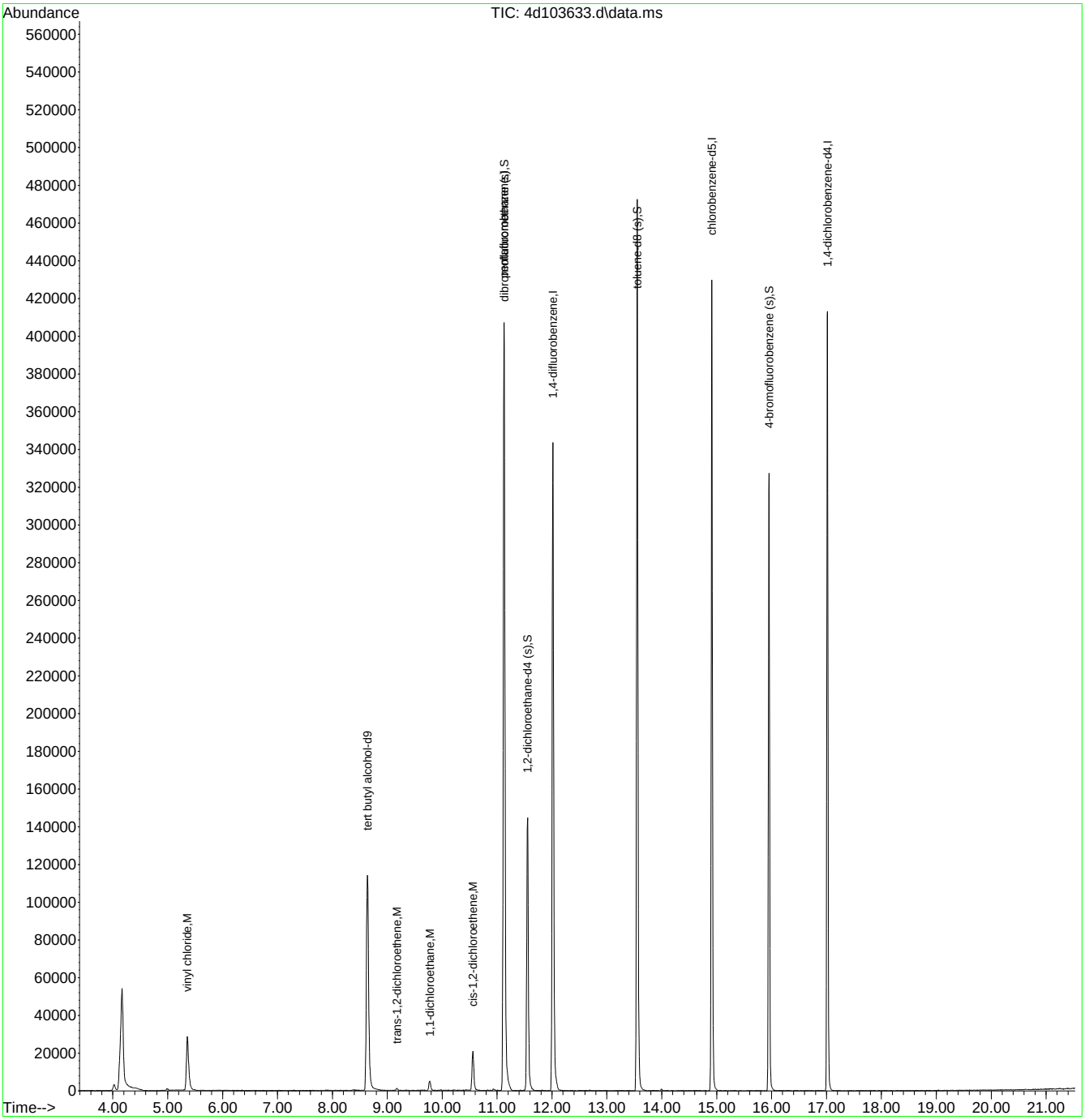
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	8.640	65	203057	500.00	ug/L	0.00
5) pentafluorobenzene	11.125	168	219416	50.00	ug/L	0.00
51) 1,4-difluorobenzene	12.017	114	323631	50.00	ug/L	0.00
73) chlorobenzene-d5	14.911	117	244686	50.00	ug/L	0.00
96) 1,4-dichlorobenzene-d4	17.018	152	108566	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	11.130	113	112593	53.45	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 106.90%			
52) 1,2-dichloroethane-d4 (s)	11.555	65	110250	48.92	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 97.84%			
74) toluene-d8 (s)	13.553	98	326794	49.47	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 98.94%			
97) 4-bromofluorobenzene (s)	15.954	95	106635	48.68	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 97.36%			
Target Compounds						Qvalue
9) vinyl chloride	5.358	62	51492	28.08	ug/L	99
25) trans-1,2-dichloroethene	9.175	96	686	0.42	ug/L #	73
28) 1,1-dichloroethane	9.773	63	7209	2.40	ug/L	95
36) cis-1,2-dichloroethene	10.559	96	12975	7.08	ug/L	86

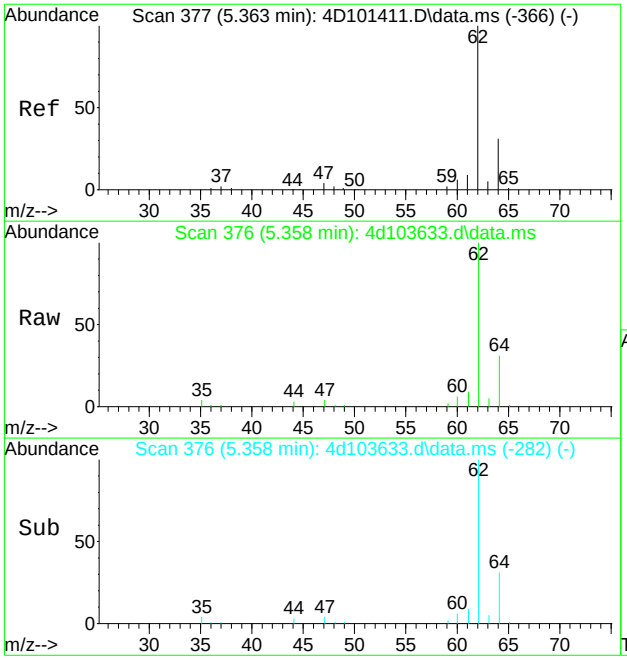
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\janellac\07-28-2020\v4d4597\
Data File : 4d103633.d
Acq On : 27 Jul 2020 12:41 pm
Operator : krizhkac
Sample : jd10241-6 Inst : MS4D
Misc : MS44522,V4D4597,5,,,,10
ALS Vial : 10 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Results File: M4D4496.RES
Quant Time: Jul 27 22:13:40 2020
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 16:29:00 2020
Response via : Initial Calibration

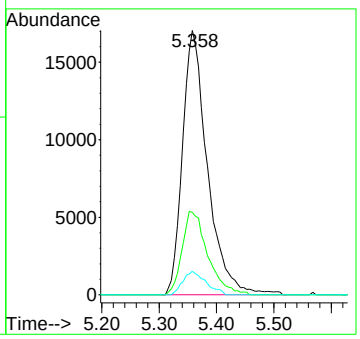


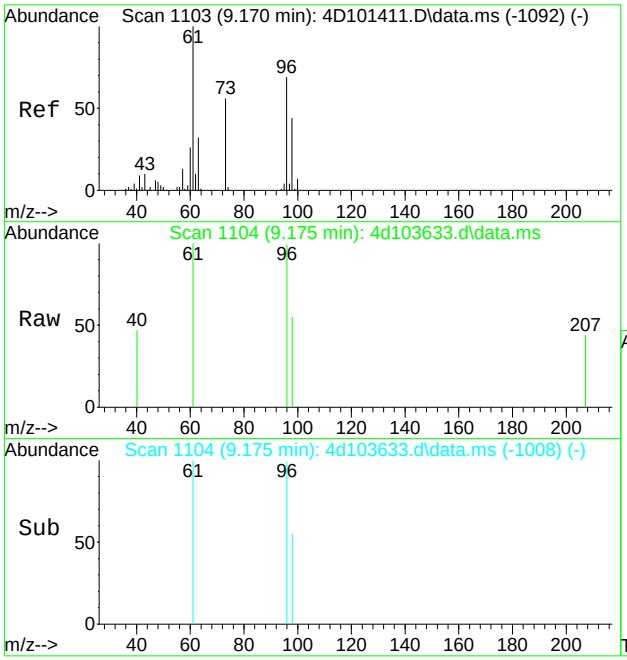


#9
vinyl chloride
Concen: 28.08 ug/L
RT: 5.358 min Scan# 376
Delta R.T. -0.006 min
Lab File: 4d103633.d
Acq: 27 Jul 2020 12:41 pm

Tgt Ion: 62 Resp: 51492

Ion	Ratio	Lower	Upper
62	100		
64	31.2	0.7	60.7
61	8.9	0.0	39.0

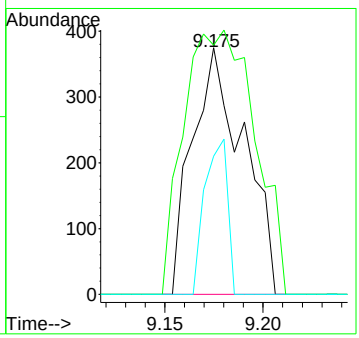


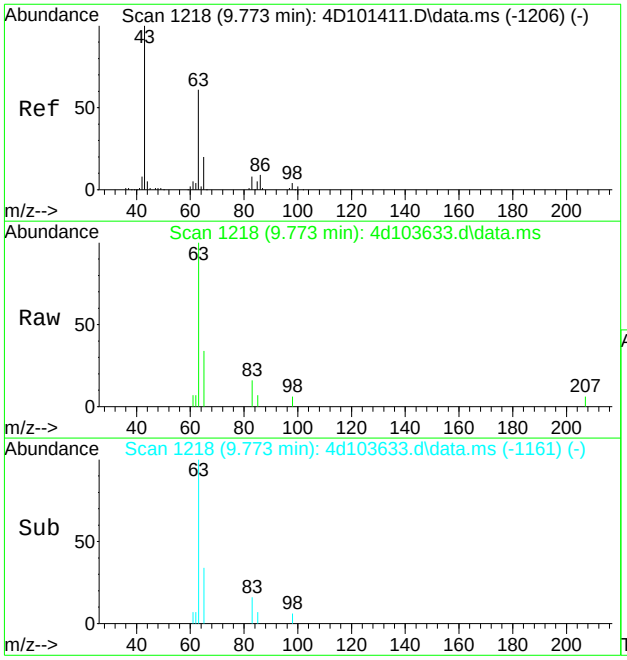


#25
trans-1,2-dichloroethene
Concen: 0.42 ug/L
RT: 9.175 min Scan# 1104
Delta R.T. 0.005 min
Lab File: 4d103633.d
Acq: 27 Jul 2020 12:41 pm

Tgt Ion: 96 Resp: 686

Ion	Ratio	Lower	Upper
96	100		
61	101.1	114.4	174.4#
98	56.0	34.1	94.1

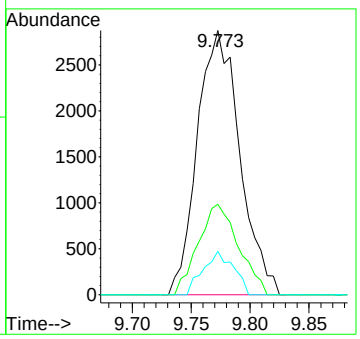


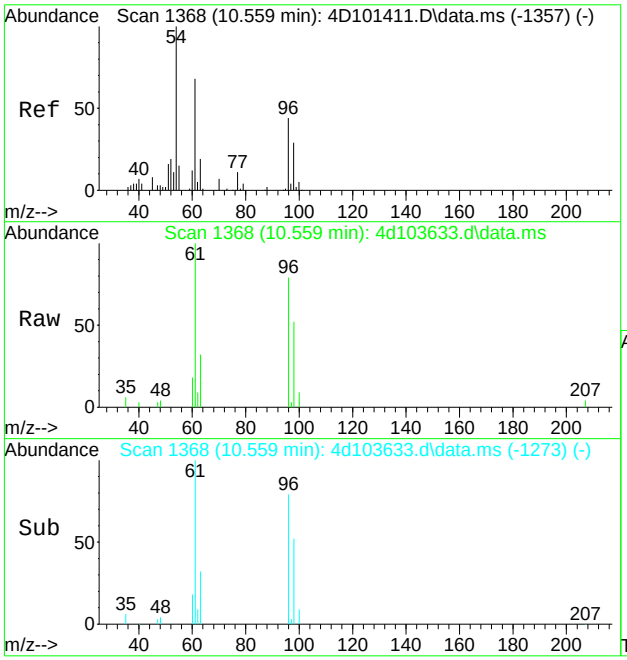


#28
1,1-dichloroethane
Concen: 2.40 ug/L
RT: 9.773 min Scan# 1218
Delta R.T. -0.000 min
Lab File: 4d103633.d
Acq: 27 Jul 2020 12:41 pm

Tgt Ion: 63 Resp: 7209

Ion	Ratio	Lower	Upper
63	100		
65	34.2	1.9	61.9
83	16.4	0.0	43.3

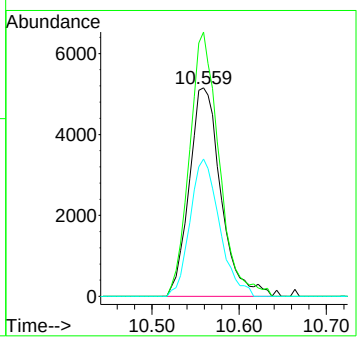




#36
cis-1,2-dichloroethene
Concen: 7.08 ug/L
RT: 10.559 min Scan# 1368
Delta R.T. -0.000 min
Lab File: 4d103633.d
Acq: 27 Jul 2020 12:41 pm

Tgt Ion: 96 Resp: 12975

Ion	Ratio	Lower	Upper
96	100		
61	126.7	122.3	182.3
98	65.8	35.3	95.3



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\kristelv\july 2020\07222020\v2e8165 rest of batch\
Data File : 2e162992.d
Acq On : 20 Jul 2020 10:49 pm
Operator : krizhkac
Sample : jd10241-7 Inst : VOAMS2E
Misc : MS44522,V2E8165,5,,,,20
ALS Vial : 27 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 21 10:06:20 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Jul 16 11:01:59 2020
Response via : Initial Calibration

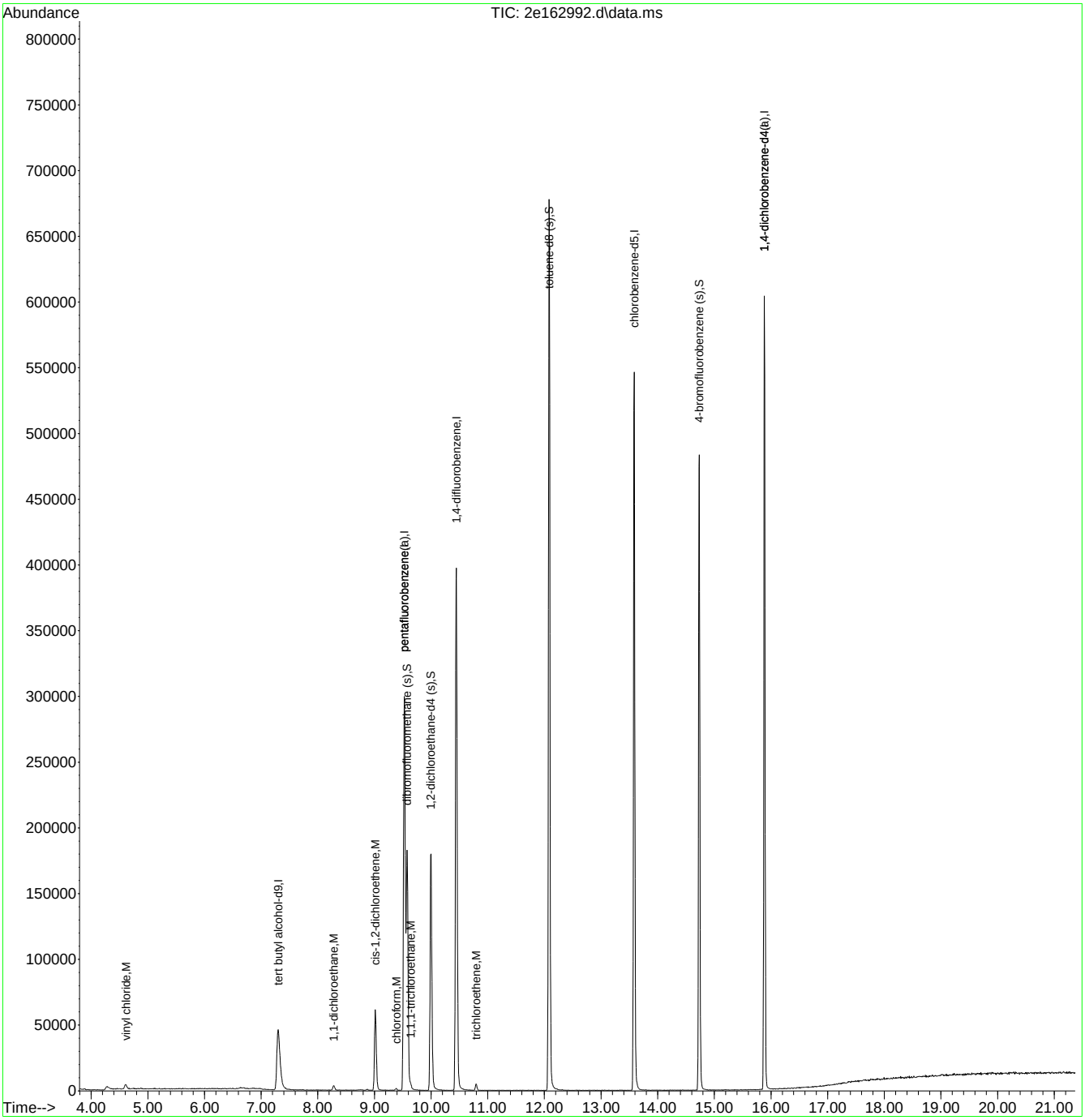
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.300	65	106875	500.00	ug/L	0.00
5) pentafluorobenzene	9.528	168	248532	50.00	ug/L	0.00
53) 1,4-difluorobenzene	10.446	114	368814	50.00	ug/L	0.00
74) chlorobenzene-d5	13.586	117	304958	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	15.883	152	150057	50.00	ug/L	0.00
127) pentafluorobenzene(a)	9.528	168	248532	50.00	ug/L	0.00
130) 1,4-dichlorobenzene-d4(a)	15.883	152	150057	50.00	ug/L	0.00
System Monitoring Compounds						
47) dibromofluoromethane (s)	9.575	113	123199	49.69	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.38%			
54) 1,2-dichloroethane-d4 (s)	9.995	65	140044	50.08	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 100.16%			
75) toluene-d8 (s)	12.081	98	472571	48.89	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 97.78%			
98) 4-bromofluorobenzene (s)	14.729	95	168360	49.68	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.36%			
Target Compounds						Qvalue
9) vinyl chloride	4.615	62	5925	1.14	ug/L	94
31) 1,1-dichloroethane	8.280	63	4817	0.79	ug/L	95
37) cis-1,2-dichloroethene	9.014	96	32443	9.22	ug/L #	82
42) chloroform	9.386	83	1267	0.22	ug/L	67
49) 1,1,1-trichloroethane	9.638	97	2609	0.55	ug/L	87
62) trichloroethene	10.797	95	2043	0.67	ug/L	87

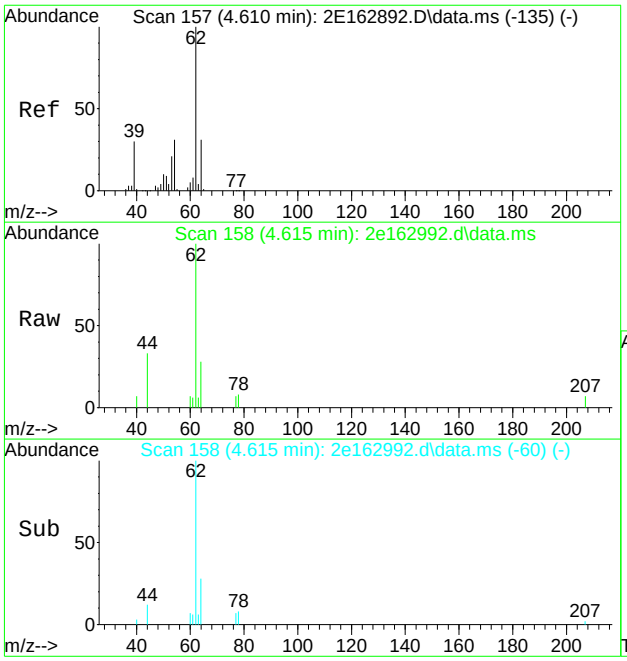
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\kristelv\july 2020\07222020\v2e8165 rest of batch\
Data File : 2e162992.d
Acq On : 20 Jul 2020 10:49 pm
Operator : krizhkac
Sample : jd10241-7 Inst : VOAMS2E
Misc : MS44522,V2E8165,5,,,,20
ALS Vial : 27 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 21 10:06:20 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Jul 16 11:01:59 2020
Response via : Initial Calibration

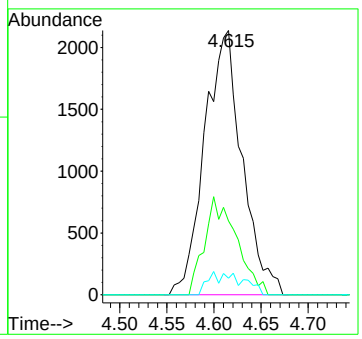


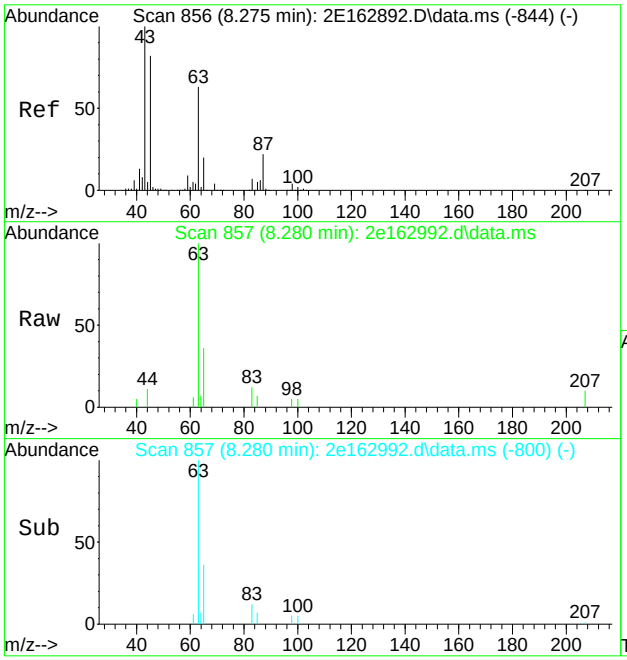


#9
vinyl chloride
Concen: 1.14 ug/L
RT: 4.615 min Scan# 158
Delta R.T. 0.016 min
Lab File: 2e162992.d
Acq: 20 Jul 2020 10:49 pm

Tgt Ion: 62 Resp: 5925

Ion	Ratio	Lower	Upper
62	100		
64	27.9	1.4	61.4
61	6.3	0.0	38.4

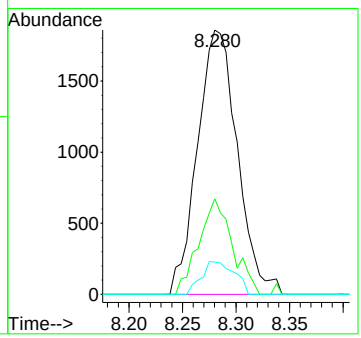


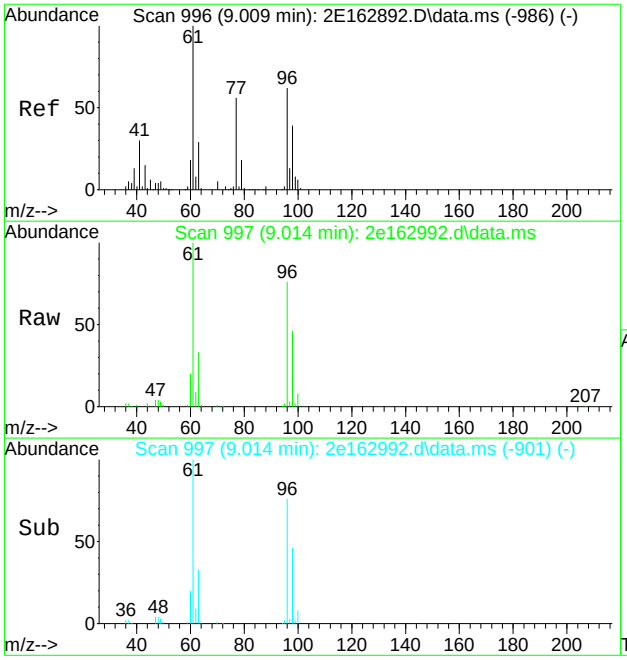


#31
1,1-dichloroethane
Concen: 0.79 ug/L
RT: 8.280 min Scan# 857
Delta R.T. 0.000 min
Lab File: 2e162992.d
Acq: 20 Jul 2020 10:49 pm

Tgt Ion: 63 Resp: 4817

Ion	Ratio	Lower	Upper
63	100		
65	36.2	2.4	62.4
83	12.2	0.0	42.4

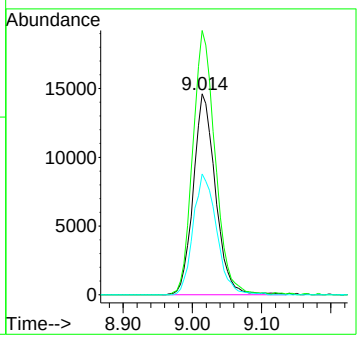


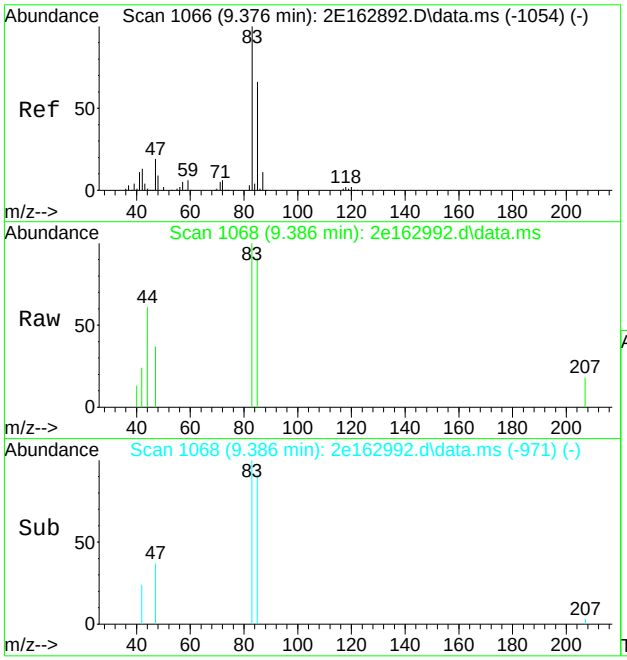


#37
cis-1,2-dichloroethene
Concen: 9.22 ug/L
RT: 9.014 min Scan# 997
Delta R.T. 0.005 min
Lab File: 2e162992.d
Acq: 20 Jul 2020 10:49 pm

Tgt Ion: 96 Resp: 32443

Ion	Ratio	Lower	Upper
96	100		
61	131.7	132.8	192.8#
98	60.2	34.0	94.0

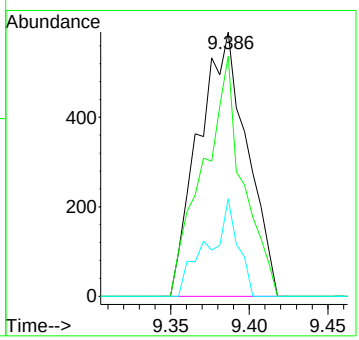


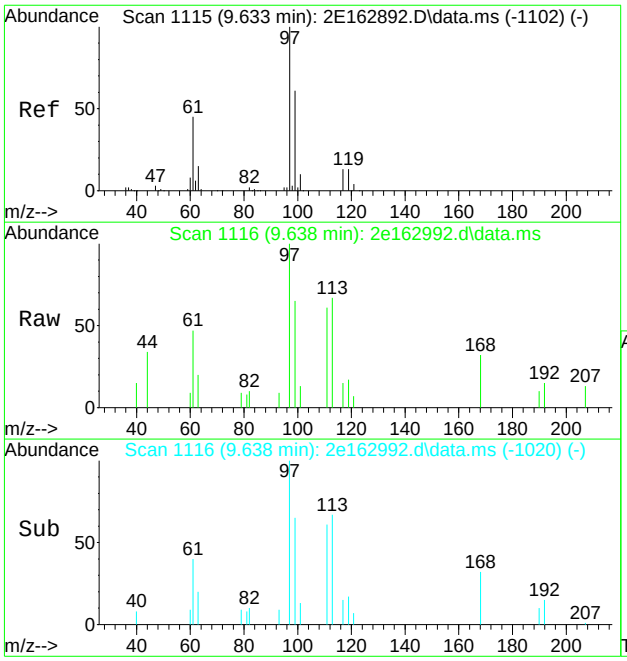


#42
chloroform
Concen: 0.22 ug/L
RT: 9.386 min Scan# 1068
Delta R.T. 0.010 min
Lab File: 2e162992.d
Acq: 20 Jul 2020 10:49 pm

Tgt Ion: 83 Resp: 1267

Ion	Ratio	Lower	Upper
83	100		
85	90.9	33.5	93.5
47	36.9	0.0	53.0

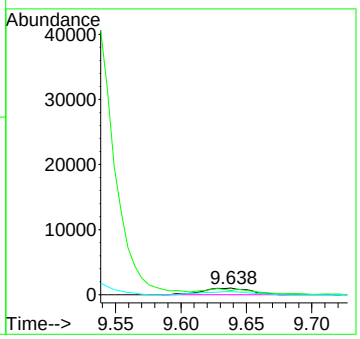


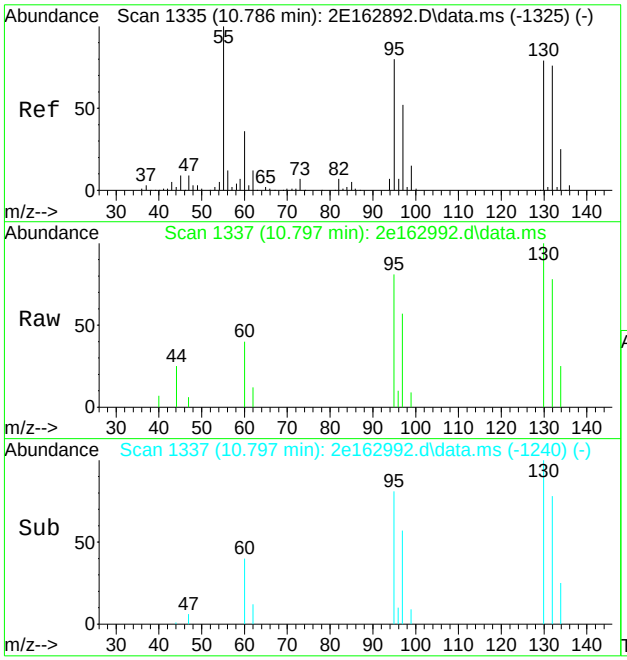


#49
1,1,1-trichloroethane
Concen: 0.55 ug/L
RT: 9.638 min Scan# 1116
Delta R.T. 0.005 min
Lab File: 2e162992.d
Acq: 20 Jul 2020 10:49 pm

Tgt Ion: 97 Resp: 2609

Ion	Ratio	Lower	Upper
97	100		
99	47.1	33.7	93.7
61	47.1	15.7	75.7

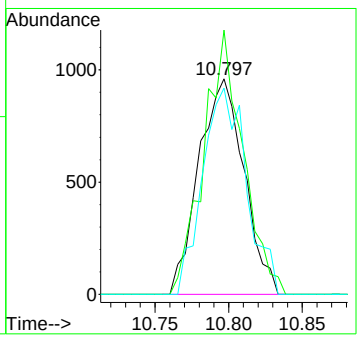




#62
trichloroethene
Concen: 0.67 ug/L
RT: 10.797 min Scan# 1337
Delta R.T. 0.011 min
Lab File: 2e162992.d
Acq: 20 Jul 2020 10:49 pm

Tgt Ion: 95 Resp: 2043

Ion	Ratio	Lower	Upper
95	100		
130	122.7	69.0	129.0
132	95.7	68.2	128.2



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\janellac\07-28-2020\v4d4597\
Data File : 4d103631.d
Acq On : 27 Jul 2020 11:42 am
Operator : krizhkac
Sample : jd10241-7 Inst : MS4D
Misc : MS44522,V4D4597,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Results File: M4D4496.RES
Quant Time: Jul 27 22:11:57 2020
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 16:29:00 2020
Response via : Initial Calibration

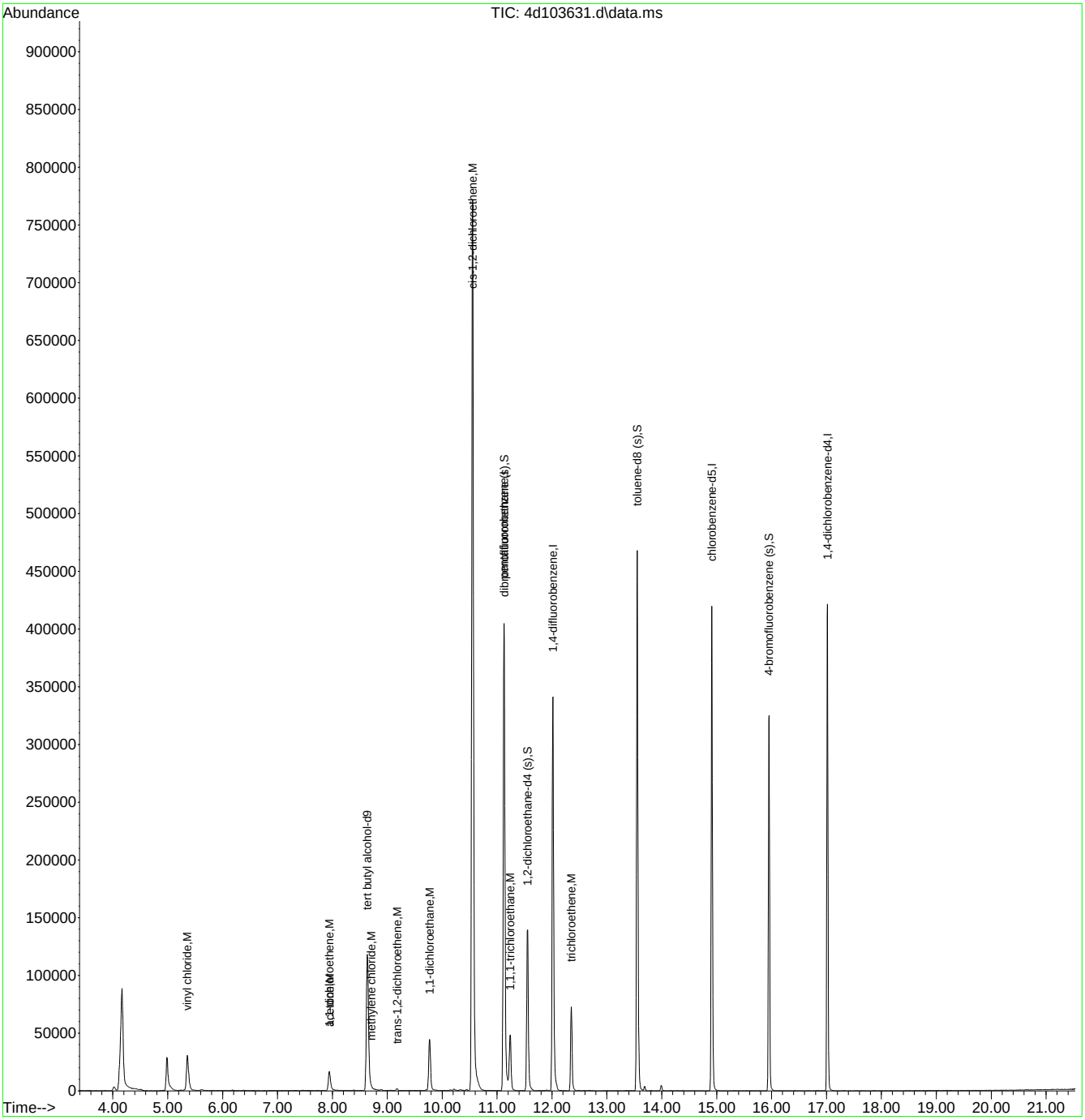
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	8.635	65	207962	500.00	ug/L	-0.01
5) pentafluorobenzene	11.125	168	222703	50.00	ug/L	0.00
51) 1,4-difluorobenzene	12.017	114	324983	50.00	ug/L	0.00
73) chlorobenzene-d5	14.911	117	246817	50.00	ug/L	0.00
96) 1,4-dichlorobenzene-d4	17.019	152	110642	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	11.131	113	111703	52.24	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 104.48%			
52) 1,2-dichloroethane-d4 (s)	11.555	65	106985	47.28	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 94.56%			
74) toluene-d8 (s)	13.553	98	332406	49.88	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.76%			
97) 4-bromofluorobenzene (s)	15.949	95	106916	47.89	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 95.78%			
Target Compounds						Qvalue
9) vinyl chloride	5.358	62	55725	29.94	ug/L	99
17) 1,1-dichloroethene	7.943	96	6717	4.34	ug/L #	79
18) acetone	7.948	43	14994	18.25	ug/L	98
22) methylene chloride	8.708	84	981	0.56	ug/L	82
25) trans-1,2-dichloroethene	9.180	96	1170	0.71	ug/L	83
28) 1,1-dichloroethane	9.767	63	58262	19.07	ug/L	98
36) cis-1,2-dichloroethene	10.554	96	446372	239.82	ug/L #	81
45) 1,1,1-trichloroethane	11.241	97	37299	15.00	ug/L	97
60) trichloroethene	12.352	130	27891	17.01	ug/L	98

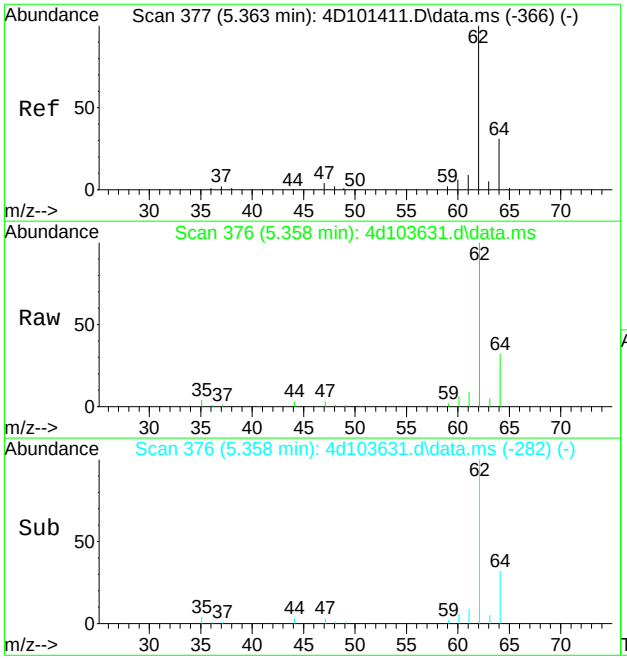
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\janellac\07-28-2020\v4d4597\
Data File : 4d103631.d
Acq On : 27 Jul 2020 11:42 am
Operator : krizhkac
Sample : jd10241-7 Inst : MS4D
Misc : MS44522,V4D4597,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Results File: M4D4496.RES
Quant Time: Jul 27 22:11:57 2020
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 16:29:00 2020
Response via : Initial Calibration

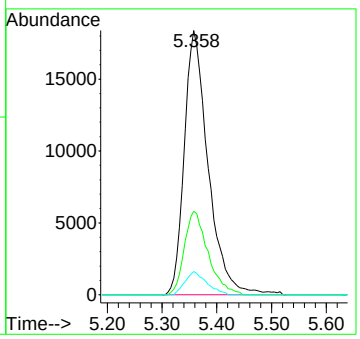


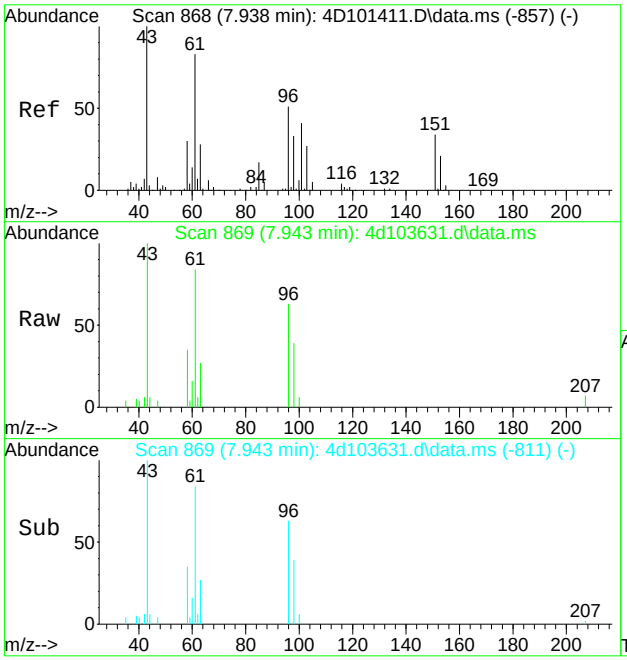


#9
vinyl chloride
Concen: 29.94 ug/L
RT: 5.358 min Scan# 376
Delta R.T. -0.005 min
Lab File: 4d103631.d
Acq: 27 Jul 2020 11:42 am

Tgt Ion: 62 Resp: 55725

Ion	Ratio	Lower	Upper
62	100		
64	31.6	0.7	60.7
61	8.8	0.0	39.0

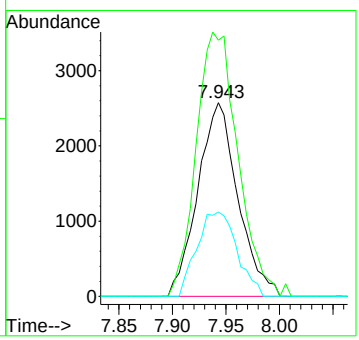


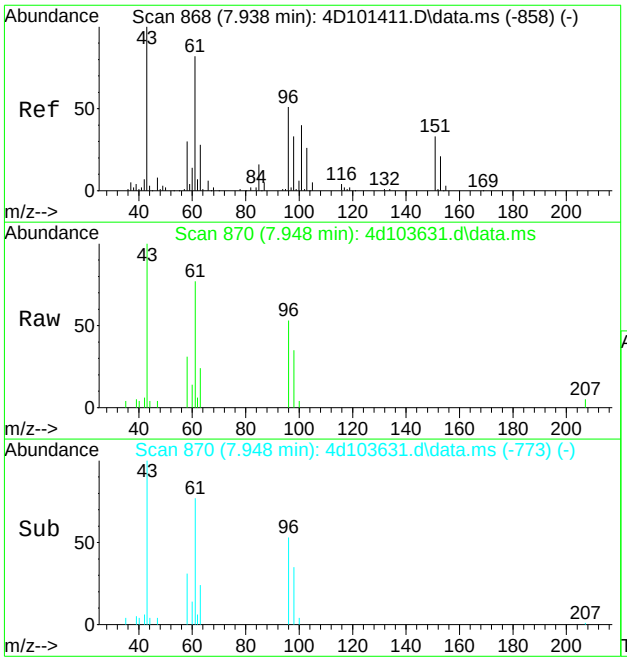


#17
1,1-dichloroethene
Concen: 4.34 ug/L
RT: 7.943 min Scan# 869
Delta R.T. 0.005 min
Lab File: 4d103631.d
Acq: 27 Jul 2020 11:42 am

Tgt Ion: 96 Resp: 6717

Ion	Ratio	Lower	Upper
96	100		
61	132.3	132.9	192.9#
63	43.5	24.9	84.9

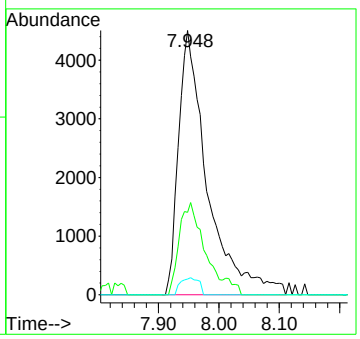


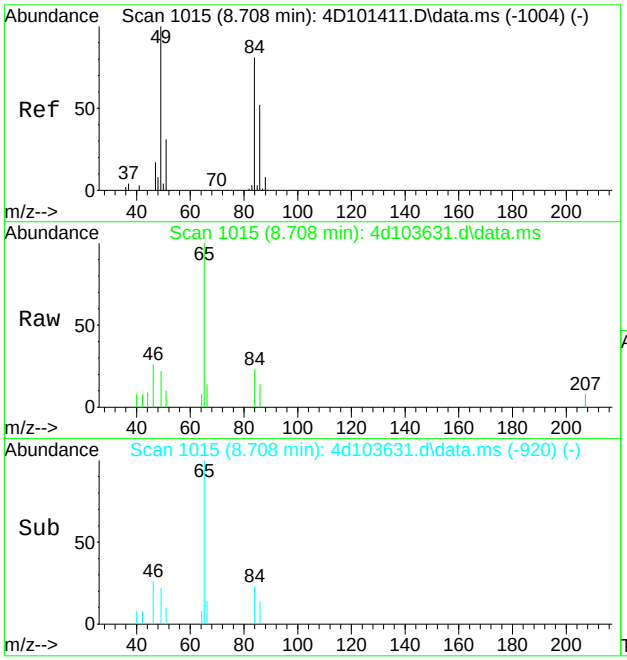


#18
acetone
Concen: 18.25 ug/L
RT: 7.948 min Scan# 870
Delta R.T. 0.010 min
Lab File: 4d103631.d
Acq: 27 Jul 2020 11:42 am

Tgt Ion: 43 Resp: 14994

Ion	Ratio	Lower	Upper
43	100		
58	31.2	0.4	60.4
42	6.0	0.0	37.4

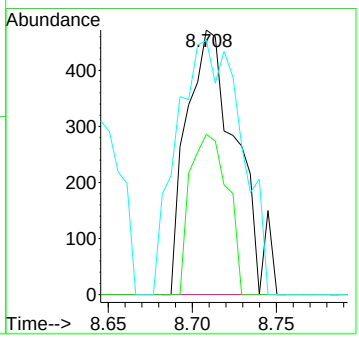


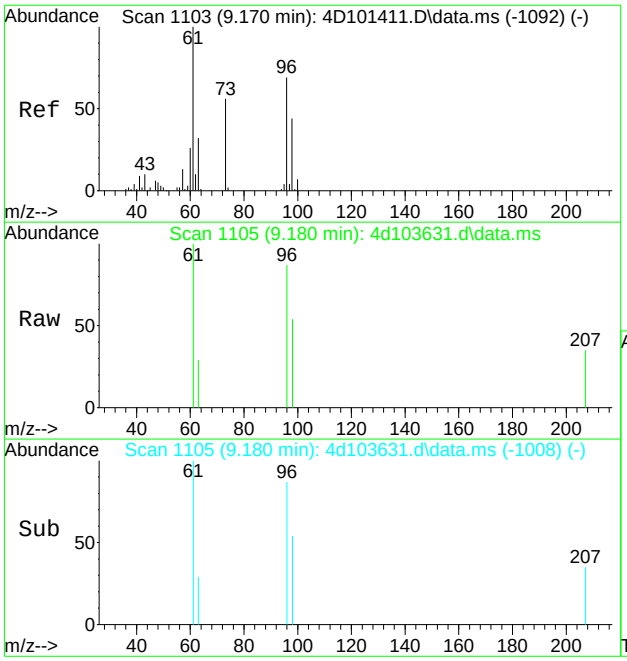


#22
methylene chloride
Concen: 0.56 ug/L
RT: 8.708 min Scan# 1015
Delta R.T. -0.000 min
Lab File: 4d103631.d
Acq: 27 Jul 2020 11:42 am

Tgt Ion: 84 Resp: 981

Ion	Ratio	Lower	Upper
84	100		
86	60.6	34.2	94.2
49	96.2	94.4	154.4

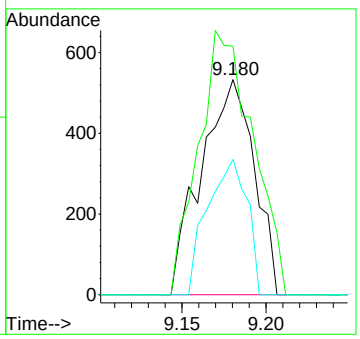


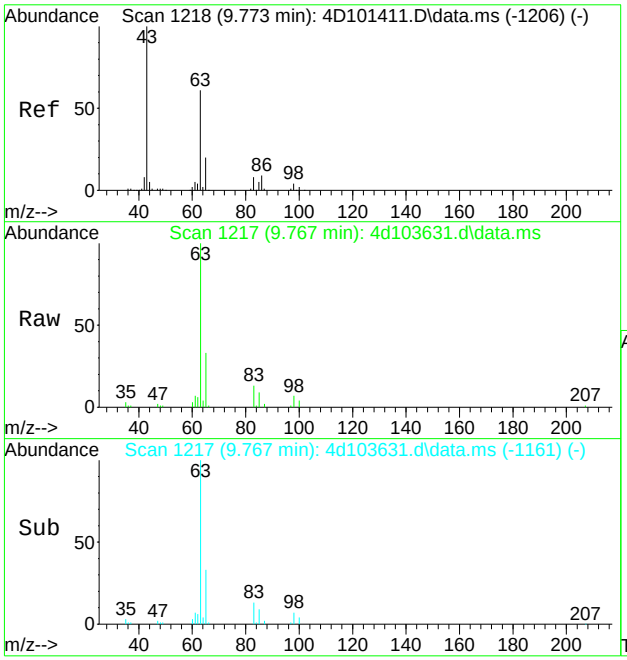


#25
trans-1,2-dichloroethene
Concen: 0.71 ug/L
RT: 9.180 min Scan# 1105
Delta R.T. 0.010 min
Lab File: 4d103631.d
Acq: 27 Jul 2020 11:42 am

Tgt Ion: 96 Resp: 1170

Ion	Ratio	Lower	Upper
96	100		
61	115.6	114.4	174.4
98	62.9	34.1	94.1

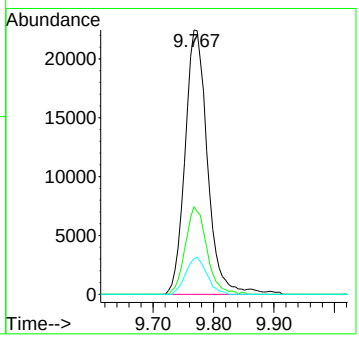


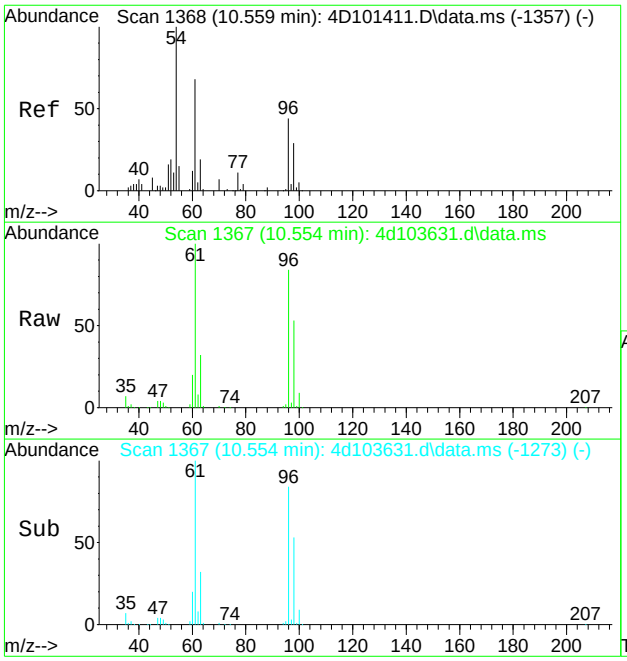


#28
1,1-dichloroethane
Concen: 19.07 ug/L
RT: 9.767 min Scan# 1217
Delta R.T. -0.005 min
Lab File: 4d103631.d
Acq: 27 Jul 2020 11:42 am

Tgt Ion: 63 Resp: 58262

Ion	Ratio	Lower	Upper
63	100		
65	33.2	1.9	61.9
83	13.3	0.0	43.3

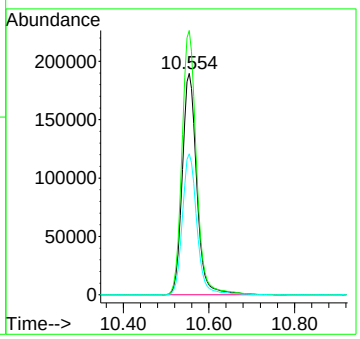


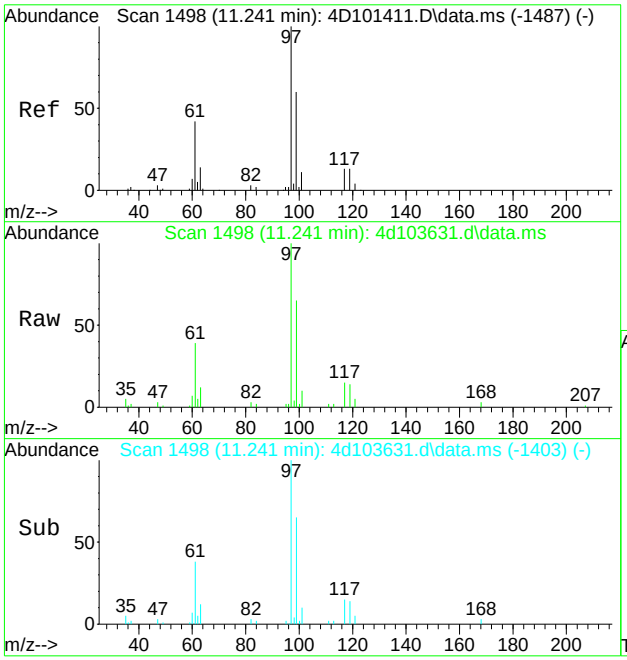


#36
cis-1,2-dichloroethene
Concen: 239.82 ug/L
RT: 10.554 min Scan# 1367
Delta R.T. -0.005 min
Lab File: 4d103631.d
Acq: 27 Jul 2020 11:42 am

Tgt Ion: 96 Resp: 446372

Ion	Ratio	Lower	Upper
96	100		
61	119.4	122.3	182.3#
98	63.6	35.3	95.3

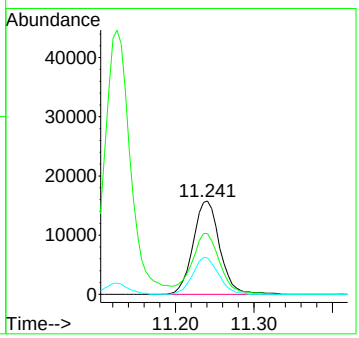


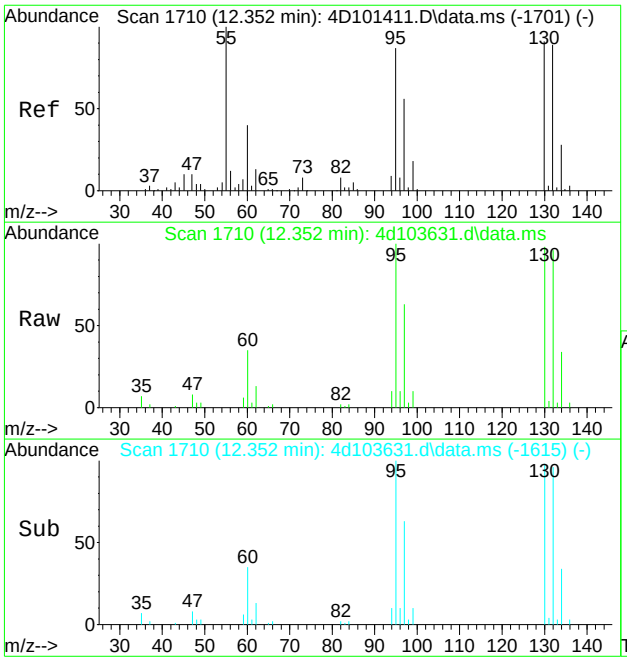


#45
1,1,1-trichloroethane
Concen: 15.00 ug/L
RT: 11.241 min Scan# 1498
Delta R.T. -0.000 min
Lab File: 4d103631.d
Acq: 27 Jul 2020 11:42 am

Tgt Ion: 97 Resp: 37299

Ion	Ratio	Lower	Upper
97	100		
99	65.2	33.0	93.0
61	39.1	11.7	71.7

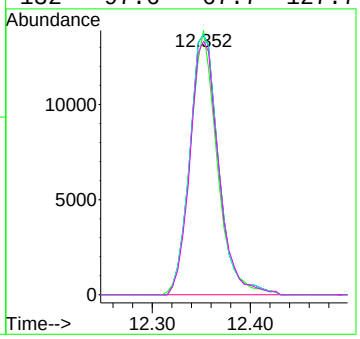




#60
trichloroethene
Concen: 17.01 ug/L
RT: 12.352 min Scan# 1710
Delta R.T. -0.000 min
Lab File: 4d103631.d
Acq: 27 Jul 2020 11:42 am

Tgt Ion:130 Resp: 27891

Ion	Ratio	Lower	Upper
130	100		
95	101.7	66.5	126.5
130	100.0	70.0	130.0
132	97.6	67.7	127.7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\janellac\07-28-2020\v4d4597\
Data File : 4d103632.d
Acq On : 27 Jul 2020 12:11 pm
Operator : krizhkac
Sample : jd10241-8 Inst : MS4D
Misc : MS44522,V4D4597,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Results File: M4D4496.RES
Quant Time: Jul 27 22:12:59 2020
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 16:29:00 2020
Response via : Initial Calibration

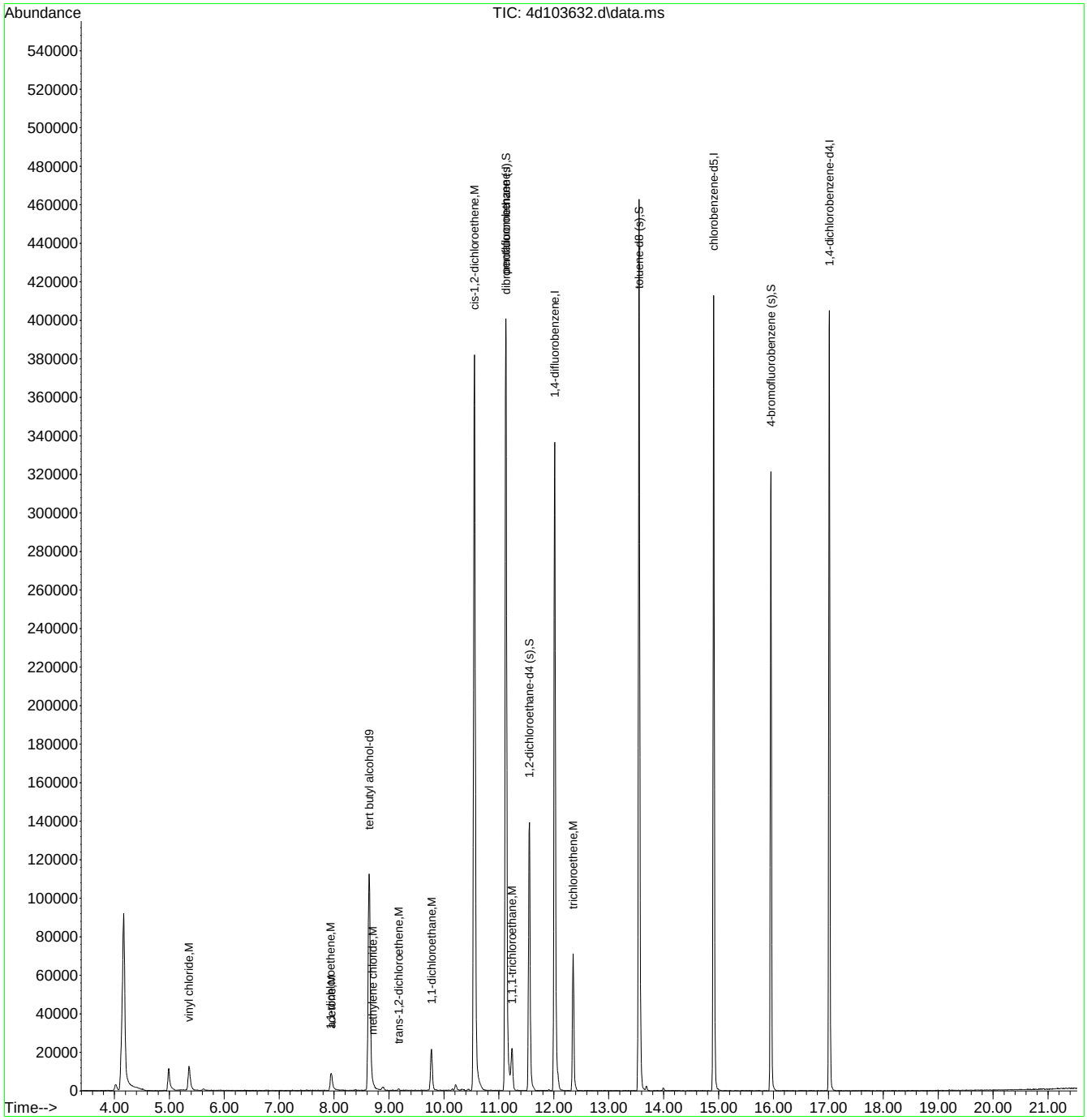
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	8.640	65	201184	500.00	ug/L	0.00
5) pentafluorobenzene	11.126	168	218839	50.00	ug/L	0.00
51) 1,4-difluorobenzene	12.017	114	322005	50.00	ug/L	0.00
73) chlorobenzene-d5	14.911	117	241388	50.00	ug/L	0.00
96) 1,4-dichlorobenzene-d4	17.019	152	108599	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	11.131	113	111334	52.99	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 105.98%			
52) 1,2-dichloroethane-d4 (s)	11.556	65	106539	47.51	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 95.02%			
74) toluene-d8 (s)	13.553	98	324497	49.79	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.58%			
97) 4-bromofluorobenzene (s)	15.954	95	104587	47.73	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 95.46%			
Target Compounds						Qvalue
9) vinyl chloride	5.358	62	22457	12.28	ug/L	95
17) 1,1-dichloroethene	7.938	96	2809	1.85	ug/L	85
18) acetone	7.948	43	12167	15.07	ug/L	94
22) methylene chloride	8.703	84	820	0.48	ug/L	84
25) trans-1,2-dichloroethene	9.175	96	482	0.30	ug/L	83
28) 1,1-dichloroethane	9.773	63	28753	9.58	ug/L	97
36) cis-1,2-dichloroethene	10.554	96	216833	118.56	ug/L #	82
45) 1,1,1-trichloroethane	11.241	97	16064	6.58	ug/L	93
60) trichloroethene	12.352	130	26897	16.55	ug/L	99

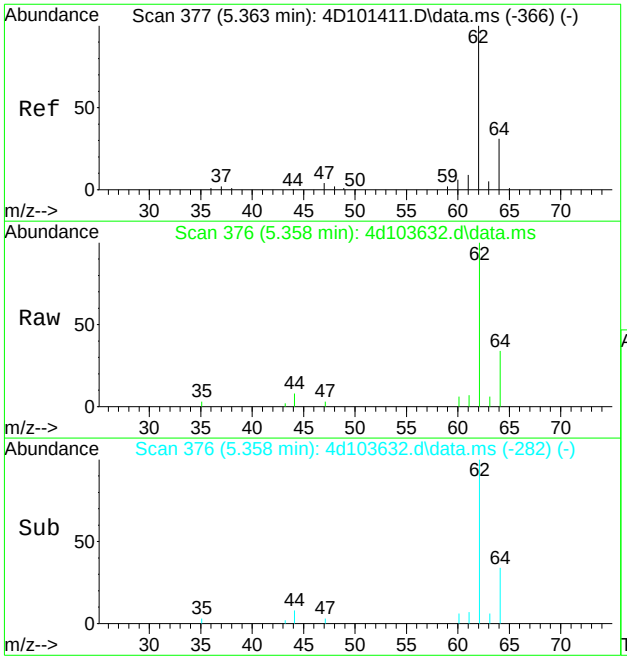
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\janellac\07-28-2020\v4d4597\
Data File : 4d103632.d
Acq On : 27 Jul 2020 12:11 pm
Operator : krizhkac
Sample : jd10241-8 Inst : MS4D
Misc : MS44522,V4D4597,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Results File: M4D4496.RES
Quant Time: Jul 27 22:12:59 2020
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 16:29:00 2020
Response via : Initial Calibration

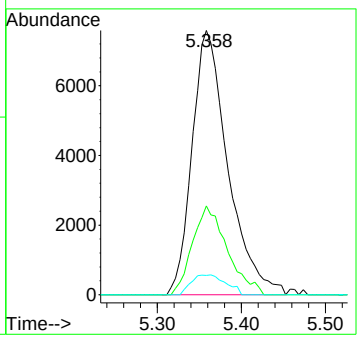


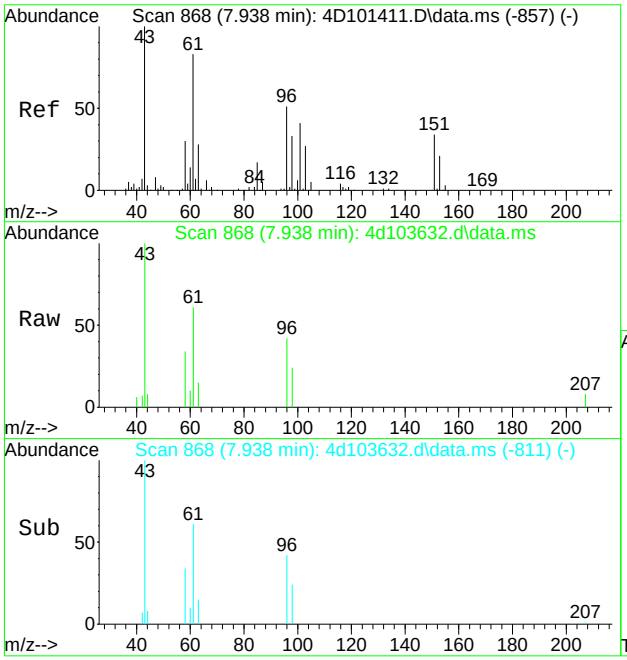


#9
vinyl chloride
Concen: 12.28 ug/L
RT: 5.358 min Scan# 376
Delta R.T. -0.005 min
Lab File: 4d103632.d
Acq: 27 Jul 2020 12:11 pm

Tgt Ion: 62 Resp: 22457

Ion	Ratio	Lower	Upper
62	100		
64	33.6	0.7	60.7
61	7.3	0.0	39.0

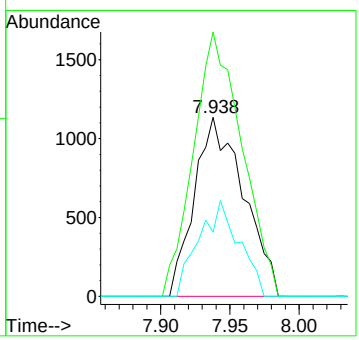


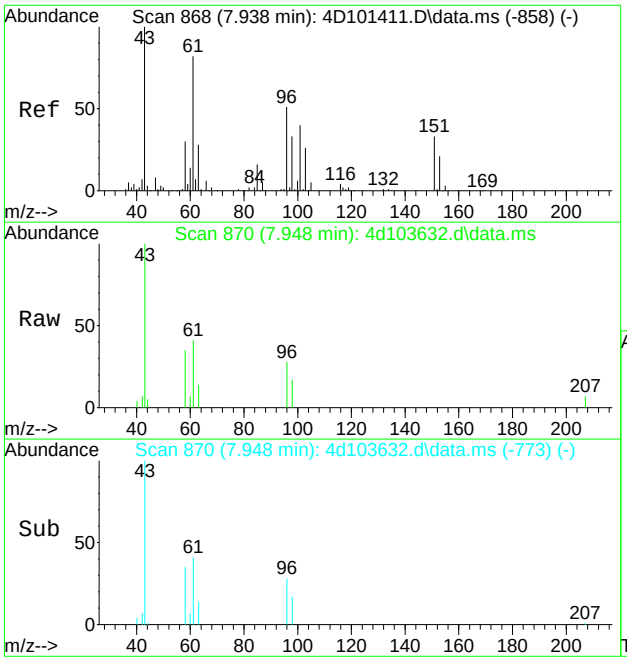


#17
1,1-dichloroethene
Concen: 1.85 ug/L
RT: 7.938 min Scan# 868
Delta R.T. 0.000 min
Lab File: 4d103632.d
Acq: 27 Jul 2020 12:11 pm

Tgt Ion: 96 Resp: 2809

Ion	Ratio	Lower	Upper
96	100		
61	147.7	132.9	192.9
63	35.9	24.9	84.9

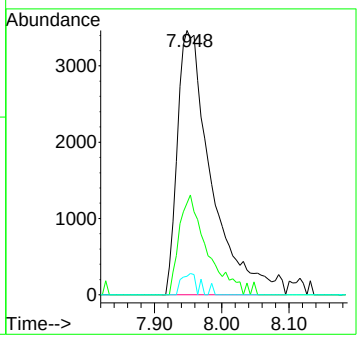


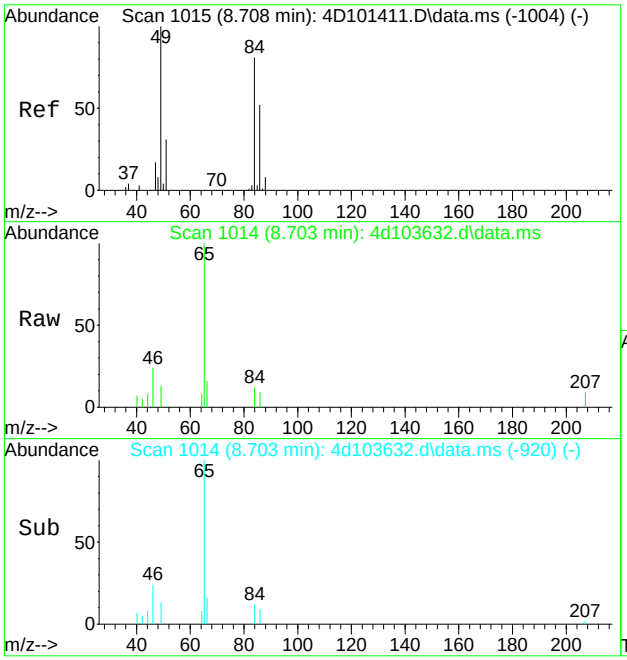


#18
acetone
Concen: 15.07 ug/L
RT: 7.948 min Scan# 870
Delta R.T. 0.011 min
Lab File: 4d103632.d
Acq: 27 Jul 2020 12:11 pm

Tgt Ion: 43 Resp: 12167

Ion	Ratio	Lower	Upper
43	100		
58	34.7	0.4	60.4
42	7.0	0.0	37.4

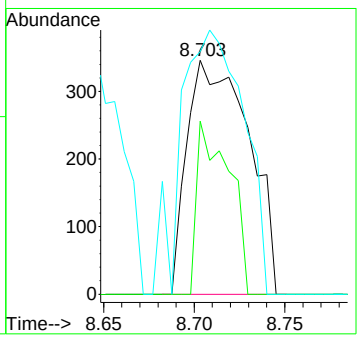


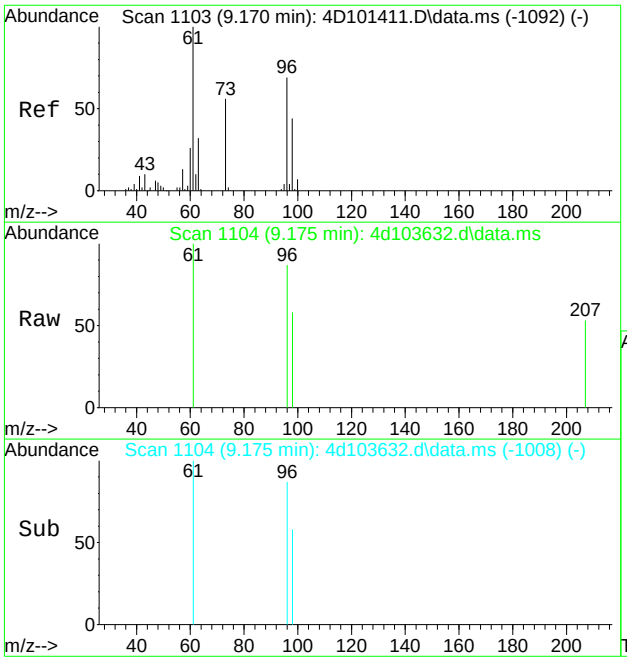


#22
methylene chloride
Concen: 0.48 ug/L
RT: 8.703 min Scan# 1014
Delta R.T. -0.005 min
Lab File: 4d103632.d
Acq: 27 Jul 2020 12:11 pm

Tgt Ion: 84 Resp: 820

Ion	Ratio	Lower	Upper
84	100		
86	74.0	34.2	94.2
49	103.8	94.4	154.4

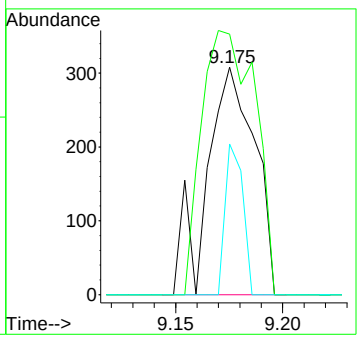


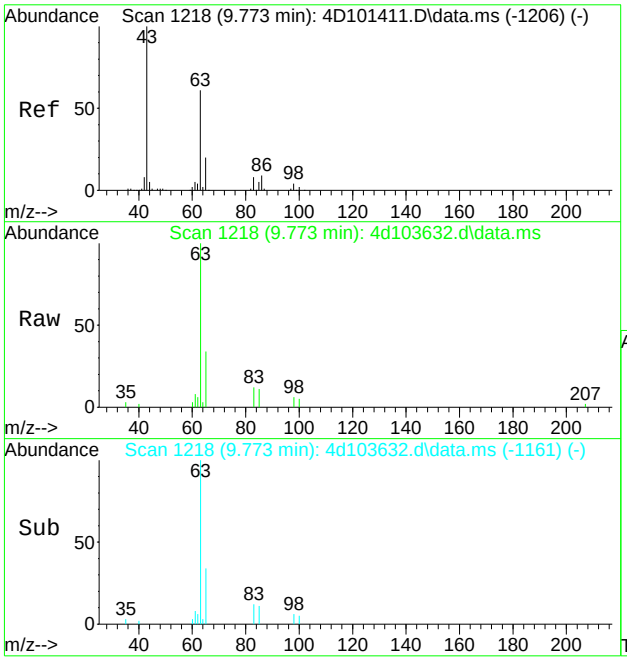


#25
trans-1,2-dichloroethene
Concen: 0.30 ug/L
RT: 9.175 min Scan# 1104
Delta R.T. 0.005 min
Lab File: 4d103632.d
Acq: 27 Jul 2020 12:11 pm

Tgt Ion: 96 Resp: 482

Ion	Ratio	Lower	Upper
96	100		
61	114.6	114.4	174.4
98	66.2	34.1	94.1

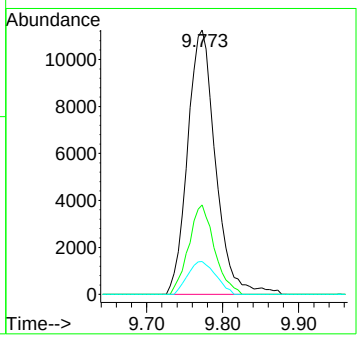


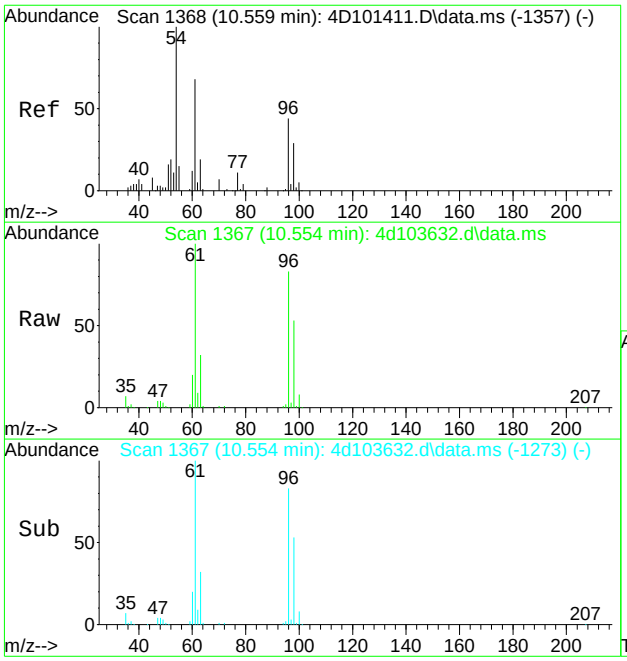


#28
1,1-dichloroethane
Concen: 9.58 ug/L
RT: 9.773 min Scan# 1218
Delta R.T. 0.000 min
Lab File: 4d103632.d
Acq: 27 Jul 2020 12:11 pm

Tgt Ion: 63 Resp: 28753

Ion	Ratio	Lower	Upper
63	100		
65	33.9	1.9	61.9
83	12.4	0.0	43.3

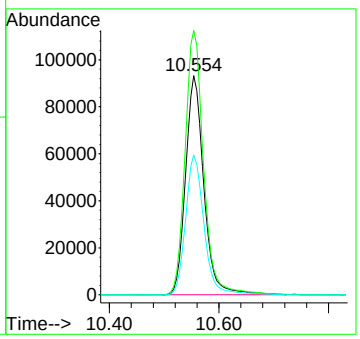


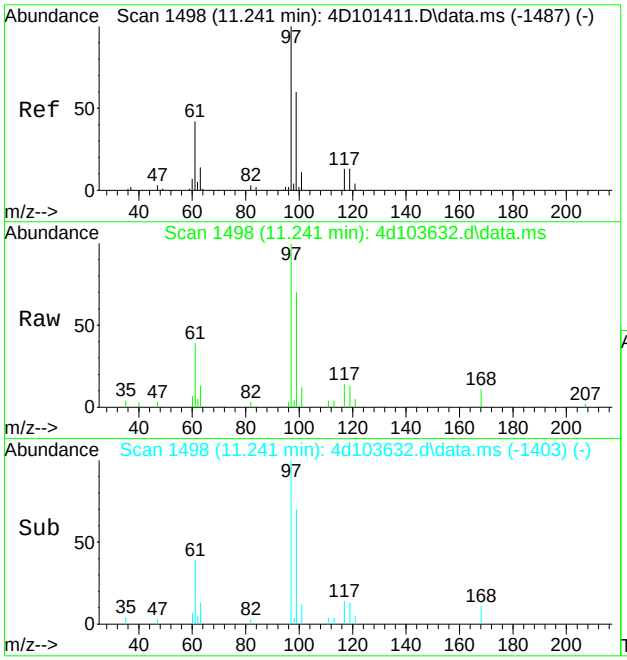


#36
cis-1,2-dichloroethene
Concen: 118.56 ug/L
RT: 10.554 min Scan# 1367
Delta R.T. -0.005 min
Lab File: 4d103632.d
Acq: 27 Jul 2020 12:11 pm

Tgt Ion: 96 Resp: 216833

Ion	Ratio	Lower	Upper
96	100		
61	120.6	122.3	182.3#
98	63.8	35.3	95.3

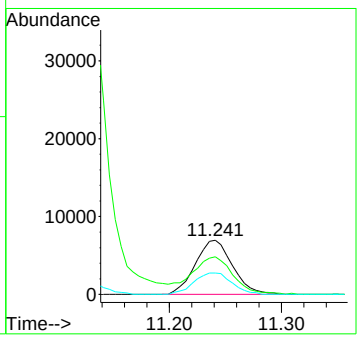


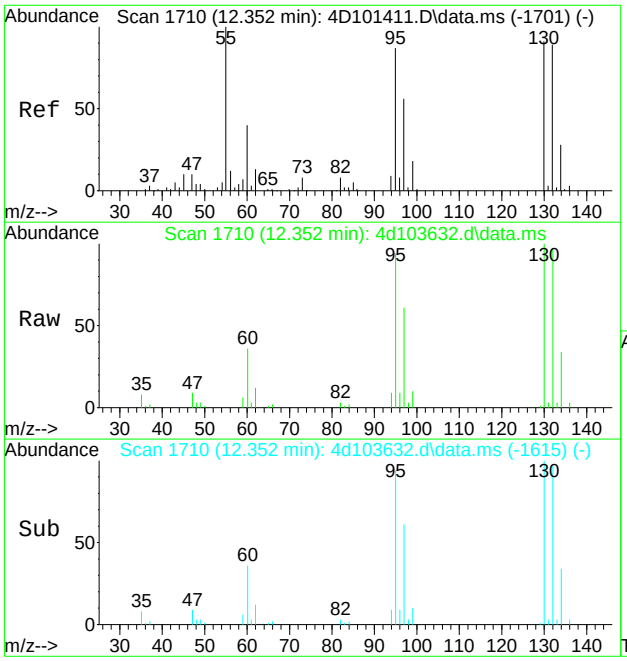


#45
1,1,1-trichloroethane
Concen: 6.58 ug/L
RT: 11.241 min Scan# 1498
Delta R.T. 0.000 min
Lab File: 4d103632.d
Acq: 27 Jul 2020 12:11 pm

Tgt Ion: 97 Resp: 16064

Ion	Ratio	Lower	Upper
97	100		
99	69.6	33.0	93.0
61	39.3	11.7	71.7

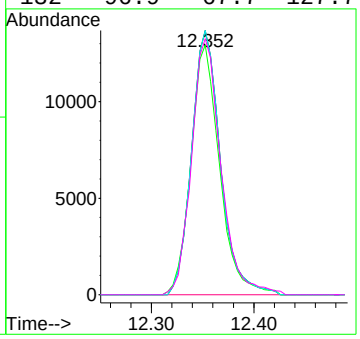




#60
trichloroethene
Concen: 16.55 ug/L
RT: 12.352 min Scan# 1710
Delta R.T. 0.000 min
Lab File: 4d103632.d
Acq: 27 Jul 2020 12:11 pm

Tgt Ion:130 Resp: 26897

Ion	Ratio	Lower	Upper
130	100		
95	94.4	66.5	126.5
130	100.0	70.0	130.0
132	96.9	67.7	127.7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\kristelv\july 2020\07222020\v2e8165 rest of batch\
Data File : 2e162989.d
Acq On : 20 Jul 2020 9:19 pm
Operator : krizhkac
Sample : jd10241-9 Inst : VOAMS2E
Misc : MS44522,V2E8165,5,,,,1
ALS Vial : 24 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 21 10:02:36 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Jul 16 11:01:59 2020
Response via : Initial Calibration

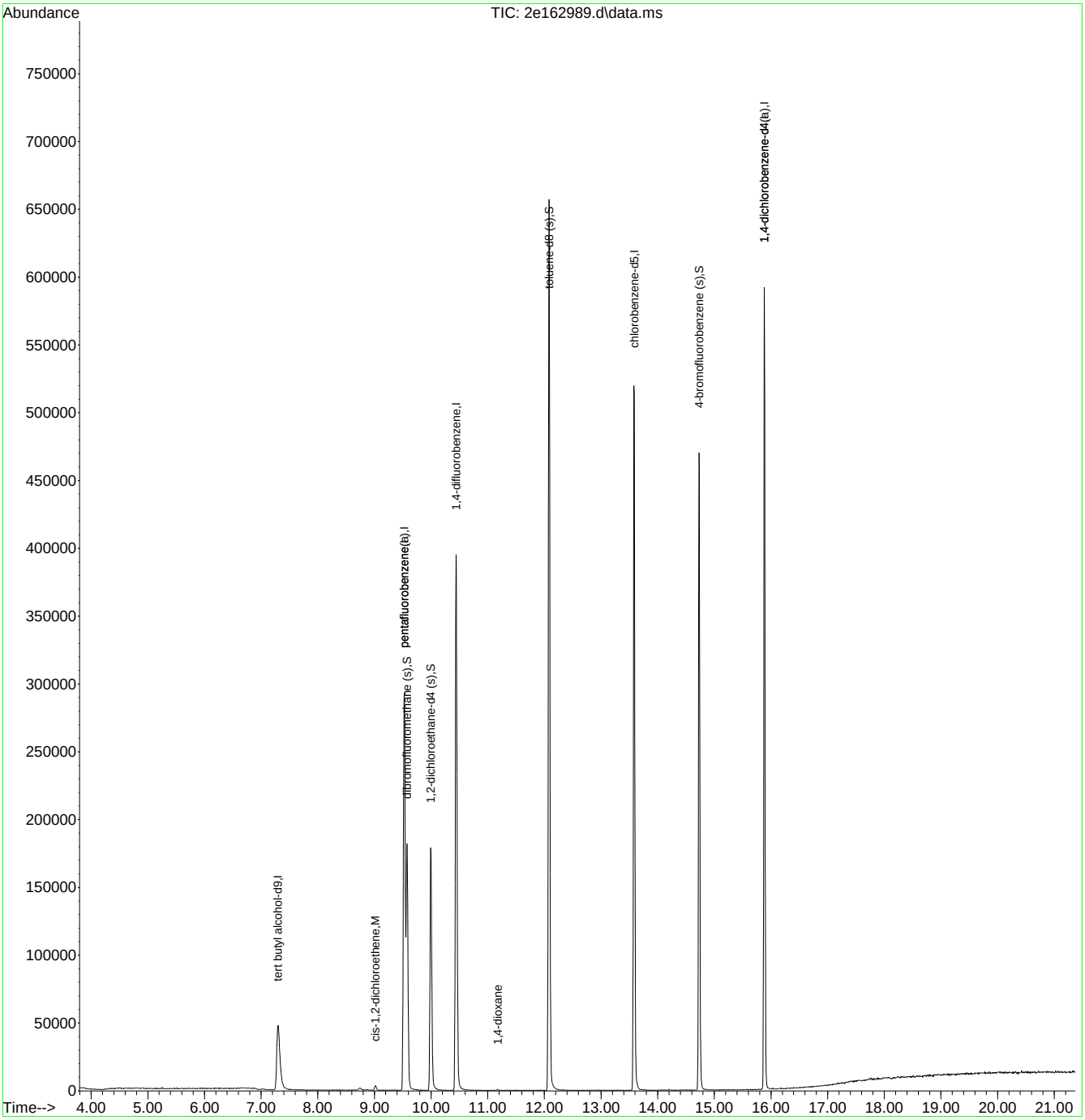
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.294	65	110090	500.00	ug/L	0.00
5) pentafluorobenzene	9.528	168	243373	50.00	ug/L	0.00
53) 1,4-difluorobenzene	10.440	114	361128	50.00	ug/L	0.00
74) chlorobenzene-d5	13.586	117	295840	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	15.883	152	145510	50.00	ug/L	0.00
127) pentafluorobenzene(a)	9.528	168	243373	50.00	ug/L	0.00
130) 1,4-dichlorobenzene-d4(a)	15.883	152	145510	50.00	ug/L	0.00
System Monitoring Compounds						
47) dibromofluoromethane (s)	9.575	113	122160	50.32	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.64%			
54) 1,2-dichloroethane-d4 (s)	9.995	65	136963	50.02	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 100.04%			
75) toluene-d8 (s)	12.081	98	459296	48.98	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 97.96%			
98) 4-bromofluorobenzene (s)	14.729	95	163425	49.73	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.46%			
Target Compounds						Qvalue
4) 1,4-dioxane	11.174	88	562	22.62	ug/L	92
37) cis-1,2-dichloroethene	9.014	96	1987	0.58	ug/L #	81

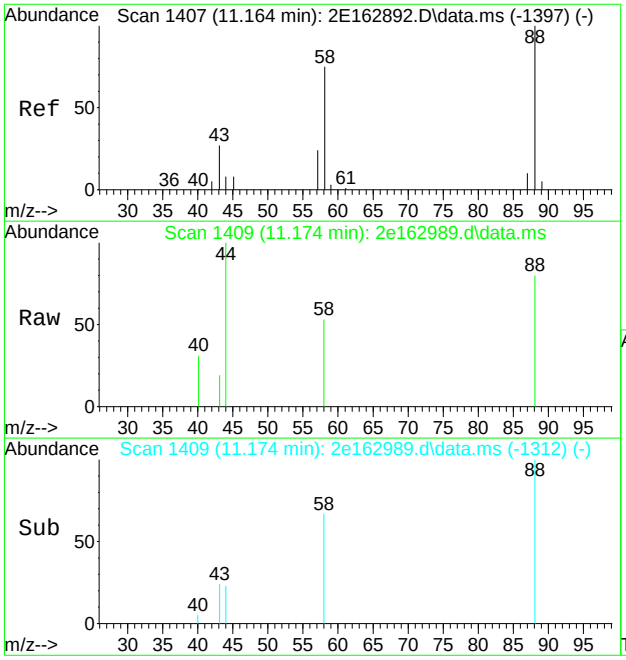
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\kristelv\july 2020\07222020\v2e8165 rest of batch\
Data File : 2e162989.d
Acq On : 20 Jul 2020 9:19 pm
Operator : krizhkac
Sample : jd10241-9 Inst : VOAMS2E
Misc : MS44522,V2E8165,5,,,,1
ALS Vial : 24 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 21 10:02:36 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Jul 16 11:01:59 2020
Response via : Initial Calibration

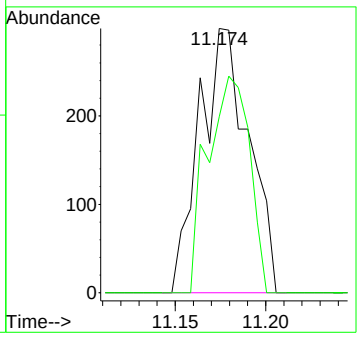


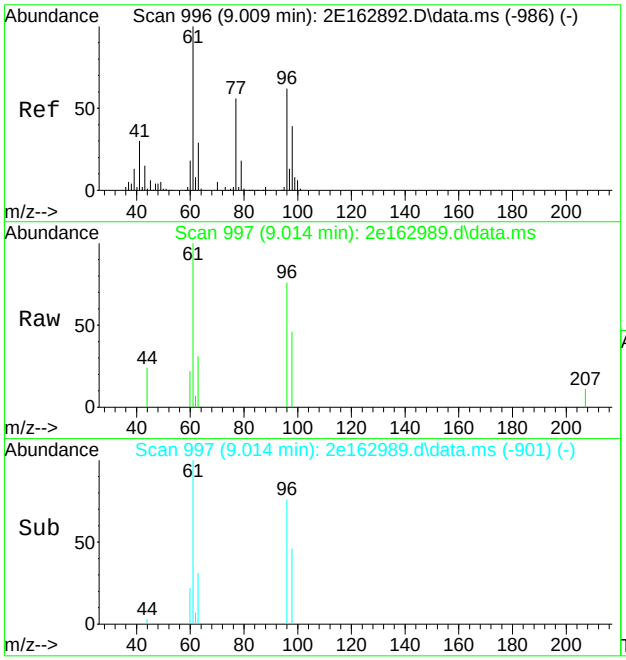


#4
1,4-dioxane
Concen: 22.62 ug/L
RT: 11.174 min Scan# 1409
Delta R.T. 0.010 min
Lab File: 2e162989.d
Acq: 20 Jul 2020 9:19 pm

Tgt Ion: 88 Resp: 562

Ion	Ratio	Lower	Upper
88	100		
58	66.6	53.0	93.0

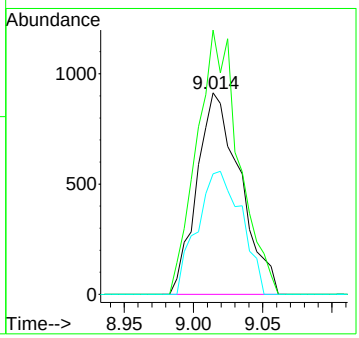




#37
cis-1,2-dichloroethene
Concen: 0.58 ug/L
RT: 9.014 min Scan# 997
Delta R.T. 0.005 min
Lab File: 2e162989.d
Acq: 20 Jul 2020 9:19 pm

Tgt Ion: 96 Resp: 1987

Ion	Ratio	Lower	Upper
96	100		
61	131.2	132.8	192.8#
98	59.7	34.0	94.0



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\July-2020\7-21\v2e8165-rush\
Data File : 2e162983.d
Acq On : 20 Jul 2020 6:20 pm
Operator : krizhkac
Sample : jd10241-10 Inst : VOAMS2E
Misc : MS44522,V2E8165,5,,,,1
ALS Vial : 18 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 21 01:06:06 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Fri Jul 17 14:25:39 2020
Response via : Initial Calibration

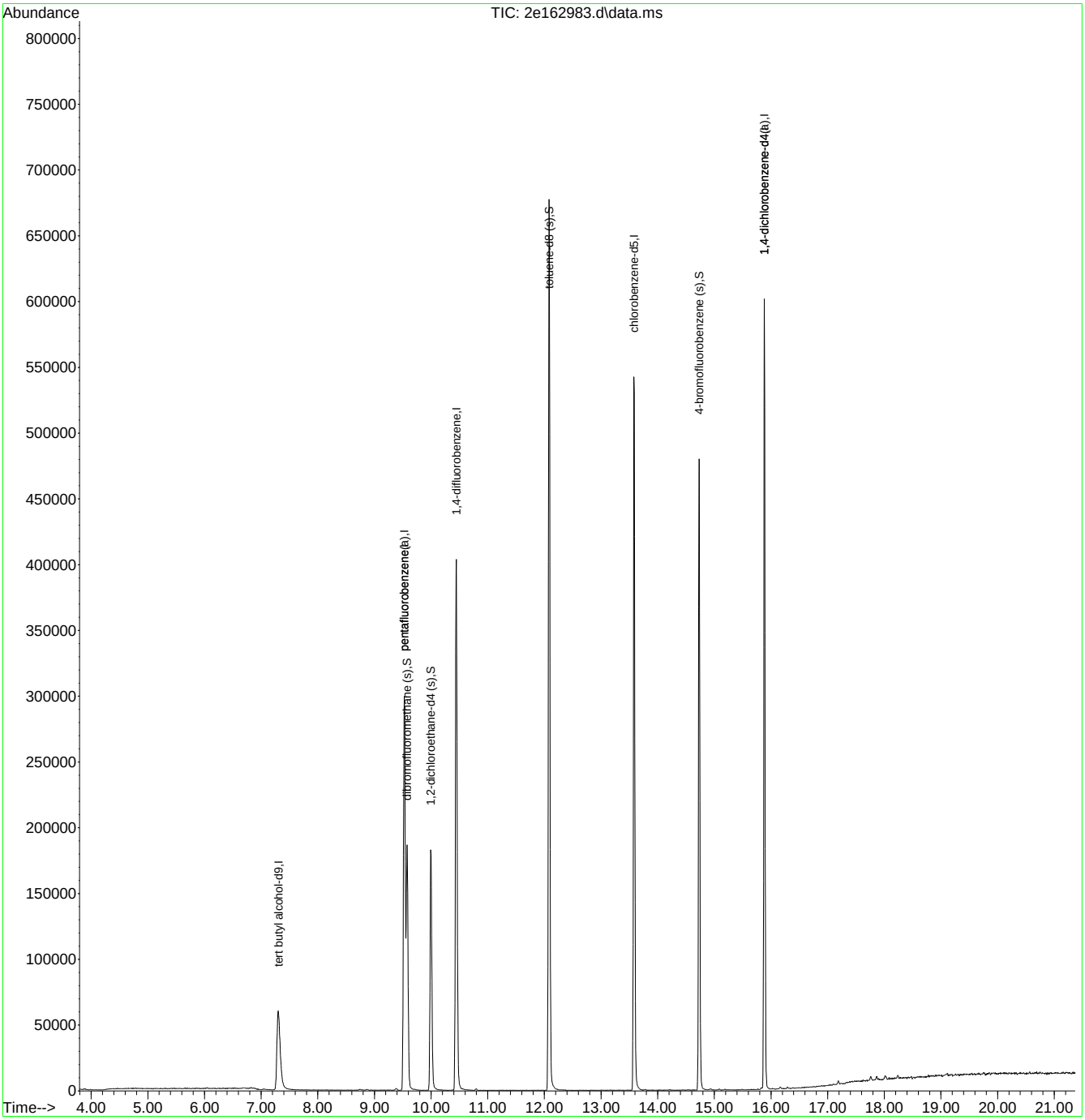
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.305	65	140881	500.00	ug/L	0.00
5) pentafluorobenzene	9.528	168	249603	50.00	ug/L	0.00
53) 1,4-difluorobenzene	10.445	114	373456	50.00	ug/L	0.00
74) chlorobenzene-d5	13.581	117	305096	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	15.883	152	149437	50.00	ug/L	0.00
127) pentafluorobenzene(a)	9.528	168	249603	50.00	ug/L	0.00
130) 1,4-dichlorobenzene-d4(a)	15.883	152	149437	50.00	ug/L	0.00
System Monitoring Compounds						
47) dibromofluoromethane (s)	9.575	113	125575	50.43	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.86%			
54) 1,2-dichloroethane-d4 (s)	9.995	65	141306	49.91	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 99.82%			
75) toluene-d8 (s)	12.081	98	476692	49.29	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 98.58%			
98) 4-bromofluorobenzene (s)	14.729	95	168489	49.92	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.84%			
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\July-2020\7-21\v2e8165-rush\
Data File : 2e162983.d
Acq On : 20 Jul 2020 6:20 pm
Operator : krizhkac
Sample : jd10241-10 Inst : VOAMS2E
Misc : MS44522,V2E8165,5,,,,1
ALS Vial : 18 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 21 01:06:06 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Fri Jul 17 14:25:39 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\July-2020\7-21\v2e8165-rush\
Data File : 2e162984.d
Acq On : 20 Jul 2020 6:50 pm
Operator : krizhkac
Sample : jd10241-11 Inst : VOAMS2E
Misc : MS44522,V2E8165,5,,,,1
ALS Vial : 19 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 21 01:08:28 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Fri Jul 17 14:25:39 2020
Response via : Initial Calibration

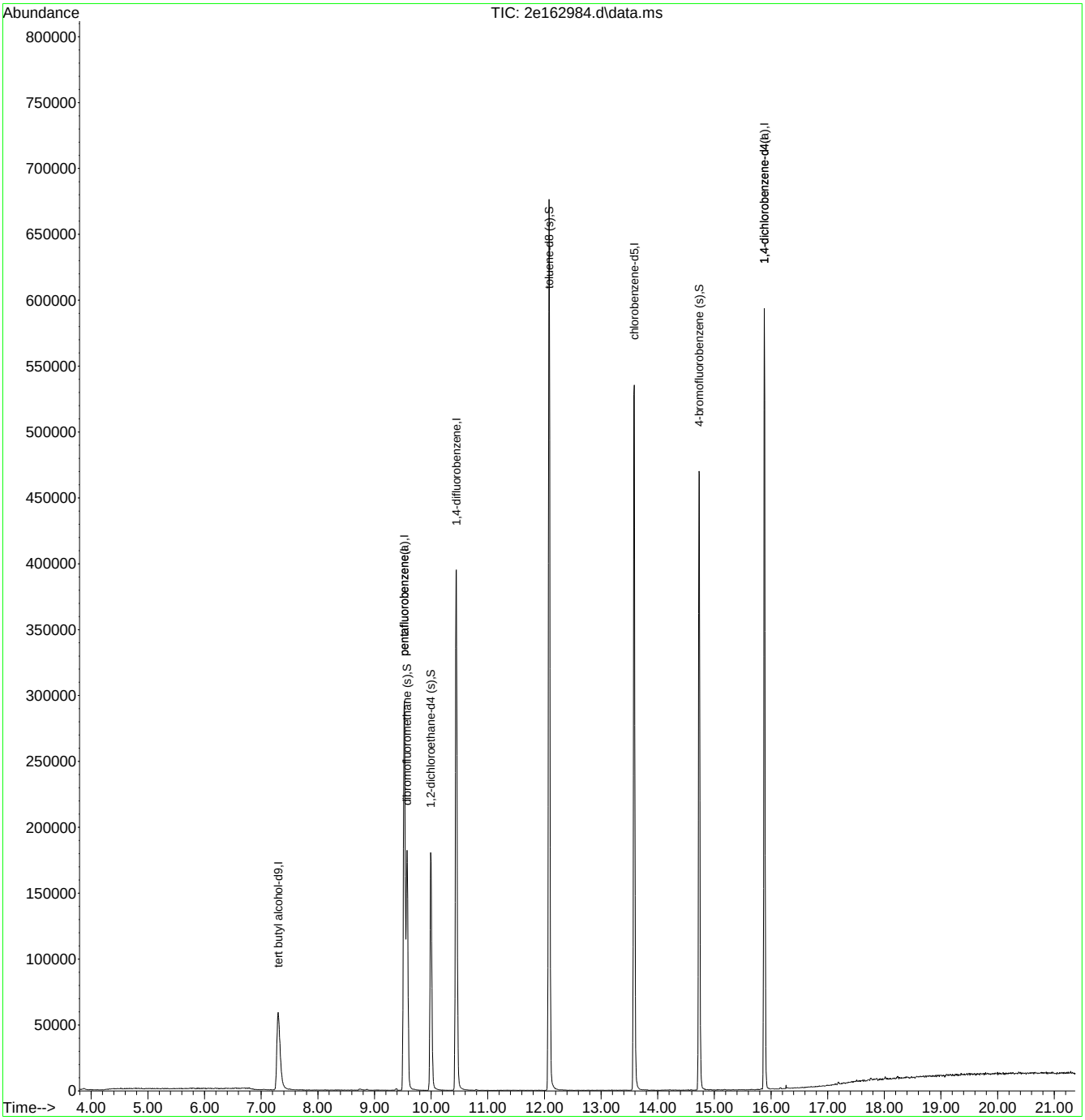
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.300	65	137491	500.00	ug/L	0.00
5) pentafluorobenzene	9.528	168	247671	50.00	ug/L	0.00
53) 1,4-difluorobenzene	10.445	114	370015	50.00	ug/L	0.00
74) chlorobenzene-d5	13.586	117	302608	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	15.882	152	146571	50.00	ug/L	0.00
127) pentafluorobenzene(a)	9.528	168	247671	50.00	ug/L	0.00
130) 1,4-dichlorobenzene-d4(a)	15.882	152	146571	50.00	ug/L	0.00
System Monitoring Compounds						
47) dibromofluoromethane (s)	9.575	113	123603	50.03	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.06%			
54) 1,2-dichloroethane-d4 (s)	9.994	65	139018	49.56	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 99.12%			
75) toluene-d8 (s)	12.081	98	472954	49.31	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 98.62%			
98) 4-bromofluorobenzene (s)	14.729	95	165276	49.93	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.86%			
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\July-2020\7-21\v2e8165-rush\
Data File : 2e162984.d
Acq On : 20 Jul 2020 6:50 pm
Operator : krizhkac
Sample : jd10241-11 Inst : VOAMS2E
Misc : MS44522,V2E8165,5,,,,1
ALS Vial : 19 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 21 01:08:28 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Fri Jul 17 14:25:39 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\kristelv\july 2020\07222020\v2e8165 rest of batch\
Data File : 2e162990.d
Acq On : 20 Jul 2020 9:49 pm
Operator : krizhkac
Sample : jd10241-12 Inst : VOAMS2E
Misc : MS44522,V2E8165,5,,,,1
ALS Vial : 25 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 21 10:03:50 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Jul 16 11:01:59 2020
Response via : Initial Calibration

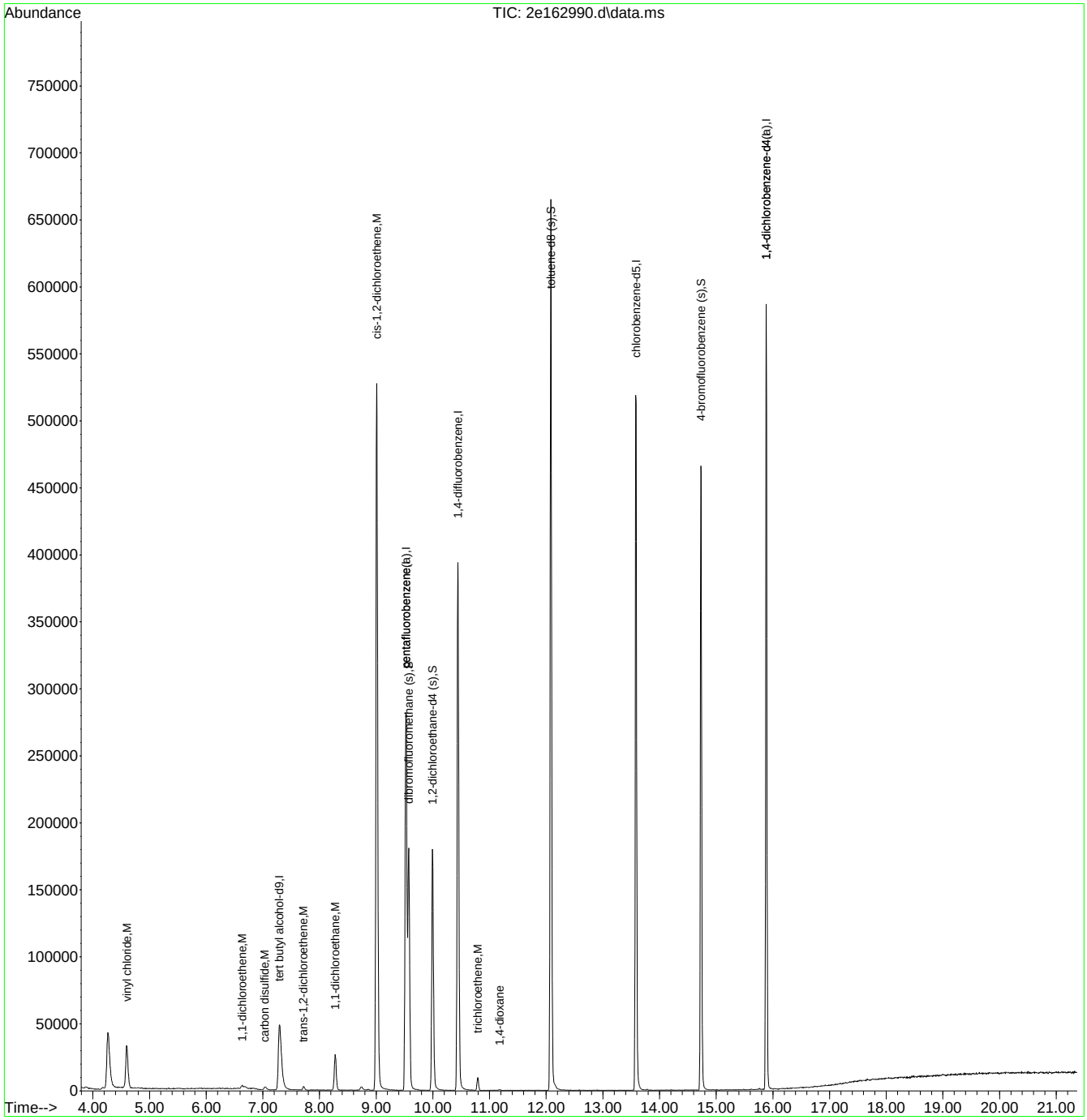
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.289	65	110856	500.00	ug/L	-0.01
5) pentafluorobenzene	9.528	168	241322	50.00	ug/L	0.00
53) 1,4-difluorobenzene	10.440	114	360679	50.00	ug/L	0.00
74) chlorobenzene-d5	13.586	117	295265	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	15.882	152	145045	50.00	ug/L	0.00
127) pentafluorobenzene(a)	9.528	168	241322	50.00	ug/L	0.00
130) 1,4-dichlorobenzene-d4(a)	15.882	152	145045	50.00	ug/L	0.00
System Monitoring Compounds						
47) dibromofluoromethane (s)	9.575	113	120493	50.05	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.10%			
54) 1,2-dichloroethane-d4 (s)	9.995	65	137464	50.27	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 100.54%			
75) toluene-d8 (s)	12.081	98	461722	49.33	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 98.66%			
98) 4-bromofluorobenzene (s)	14.729	95	161946	49.44	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 98.88%			
Target Compounds						Qvalue
4) 1,4-dioxane	11.174	88	356	14.23	ug/L	84
9) vinyl chloride	4.599	62	54838	10.83	ug/L	99
18) 1,1-dichloroethene	6.634	61	2175	0.45	ug/L	91
22) carbon disulfide	7.032	76	5064	0.58	ug/L	84
26) trans-1,2-dichloroethene	7.714	61	2094	0.44	ug/L	95
31) 1,1-dichloroethane	8.275	63	33472	5.65	ug/L	94
37) cis-1,2-dichloroethene	9.009	96	272109	79.67	ug/L	87
62) trichloroethene	10.791	95	3868	1.29	ug/L	94

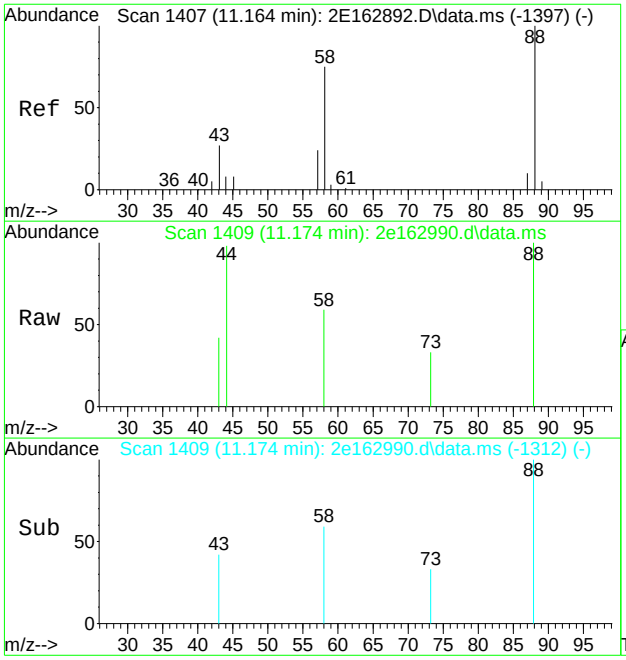
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\kristelv\july 2020\07222020\v2e8165 rest of batch\
Data File : 2e162990.d
Acq On : 20 Jul 2020 9:49 pm
Operator : krizhkac
Sample : jd10241-12 Inst : VOAMS2E
Misc : MS44522,V2E8165,5,,,,1
ALS Vial : 25 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 21 10:03:50 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Jul 16 11:01:59 2020
Response via : Initial Calibration

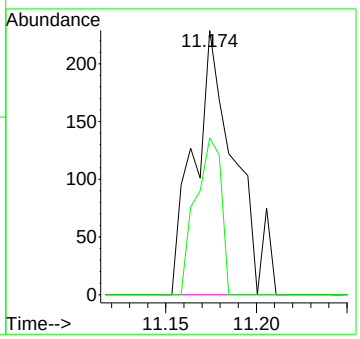


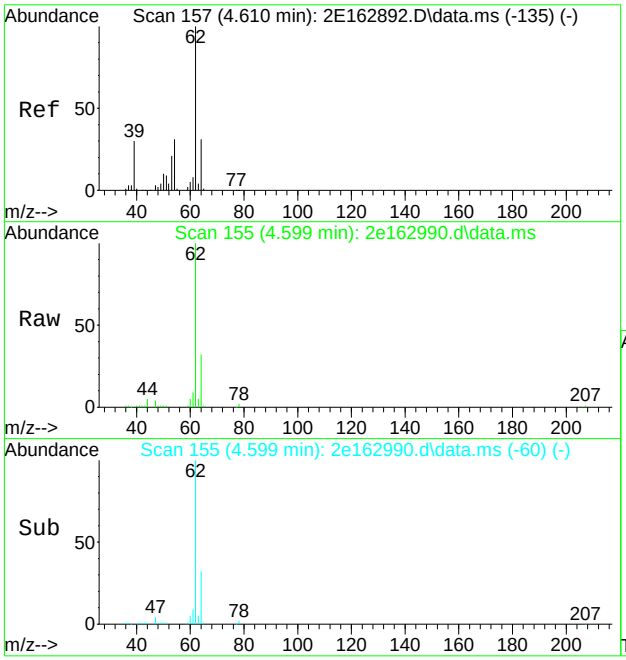


#4
1,4-dioxane
Concen: 14.23 ug/L
RT: 11.174 min Scan# 1409
Delta R.T. 0.010 min
Lab File: 2e162990.d
Acq: 20 Jul 2020 9:49 pm

Tgt Ion: 88 Resp: 356

Ion	Ratio	Lower	Upper
88	100		
58	59.4	53.0	93.0

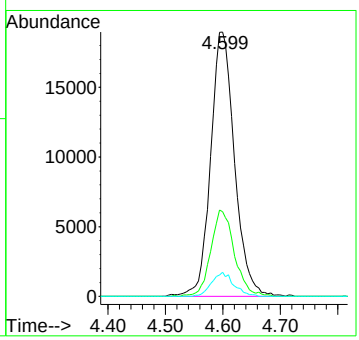


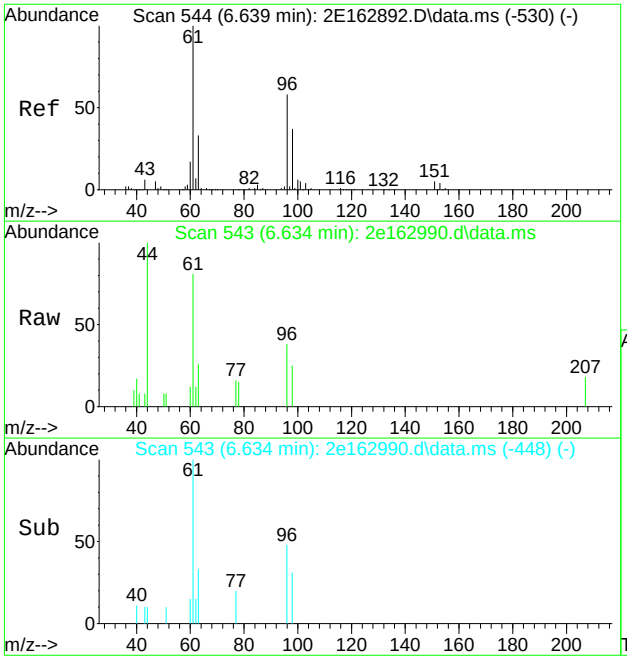


#9
vinyl chloride
Concen: 10.83 ug/L
RT: 4.599 min Scan# 155
Delta R.T. 0.000 min
Lab File: 2e162990.d
Acq: 20 Jul 2020 9:49 pm

Tgt Ion: 62 Resp: 54838

Ion	Ratio	Lower	Upper
62	100		
64	32.0	1.4	61.4
61	9.1	0.0	38.4

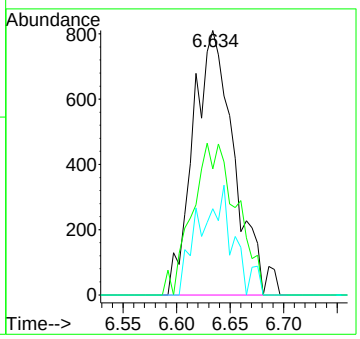


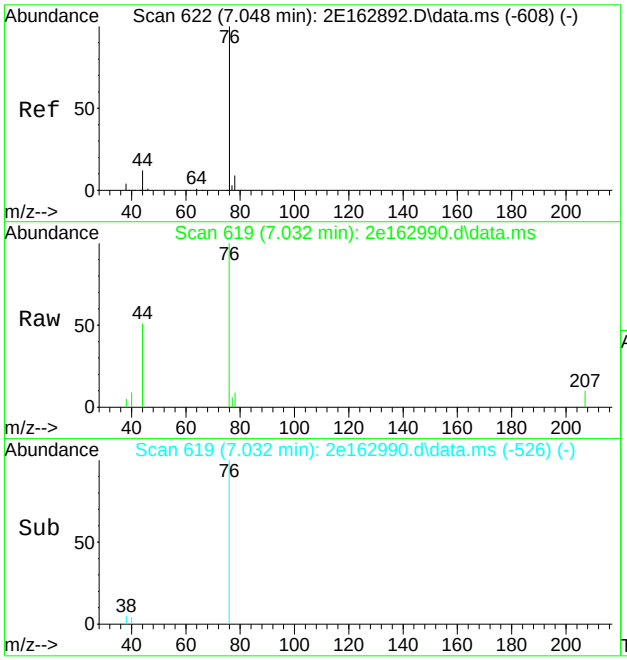


#18
1,1-dichloroethene
Concen: 0.45 ug/L
RT: 6.634 min Scan# 543
Delta R.T. -0.000 min
Lab File: 2e162990.d
Acq: 20 Jul 2020 9:49 pm

Tgt Ion: 61 Resp: 2175

Ion	Ratio	Lower	Upper
61	100		
96	47.6	27.8	87.8
63	32.6	2.6	62.6

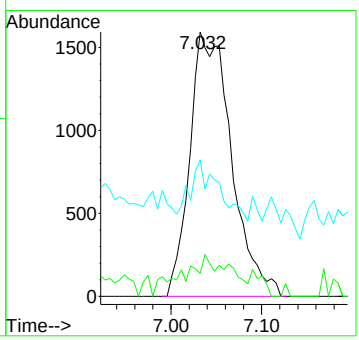


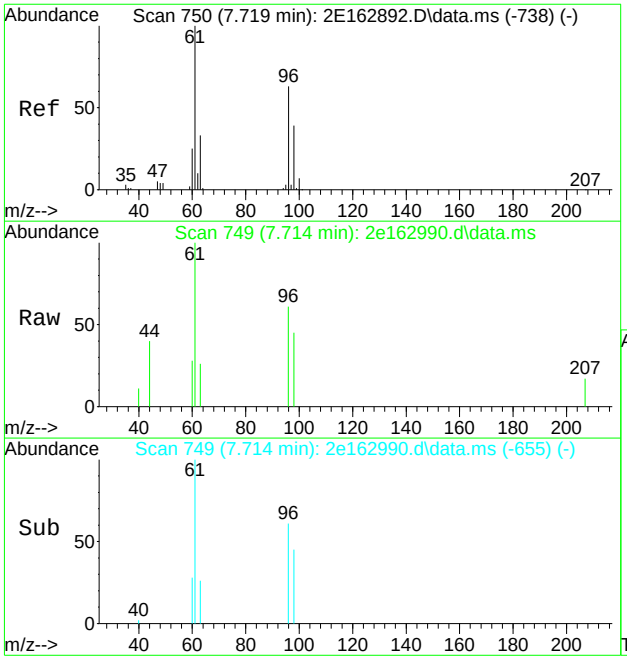


#22
carbon disulfide
Concen: 0.58 ug/L
RT: 7.032 min Scan# 619
Delta R.T. -0.011 min
Lab File: 2e162990.d
Acq: 20 Jul 2020 9:49 pm

Tgt Ion: 76 Resp: 5064

Ion	Ratio	Lower	Upper
76	100		
78	3.8	0.0	38.9
44	18.6	0.0	41.8

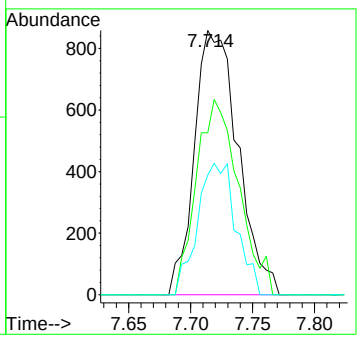


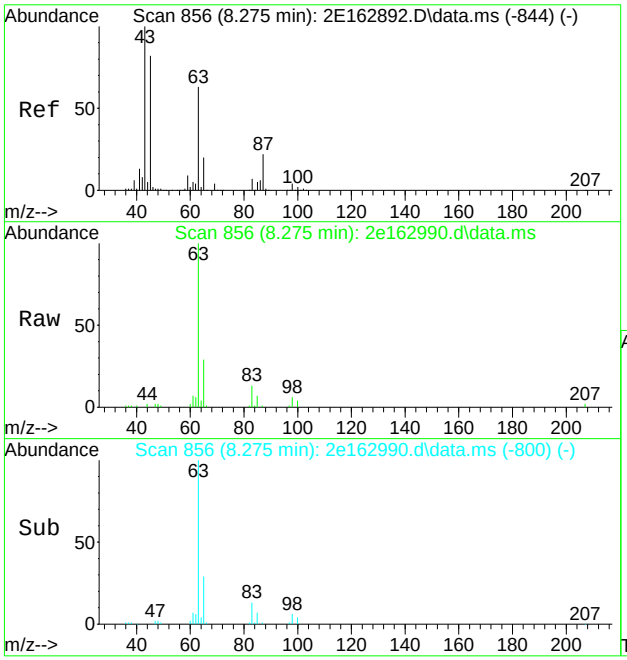


#26
trans-1,2-dichloroethene
Concen: 0.44 ug/L
RT: 7.714 min Scan# 749
Delta R.T. -0.005 min
Lab File: 2e162990.d
Acq: 20 Jul 2020 9:49 pm

Tgt Ion: 61 Resp: 2094

Ion	Ratio	Lower	Upper
61	100		
96	61.2	34.3	94.3
98	45.3	11.3	71.3

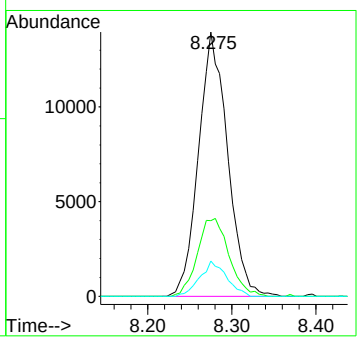


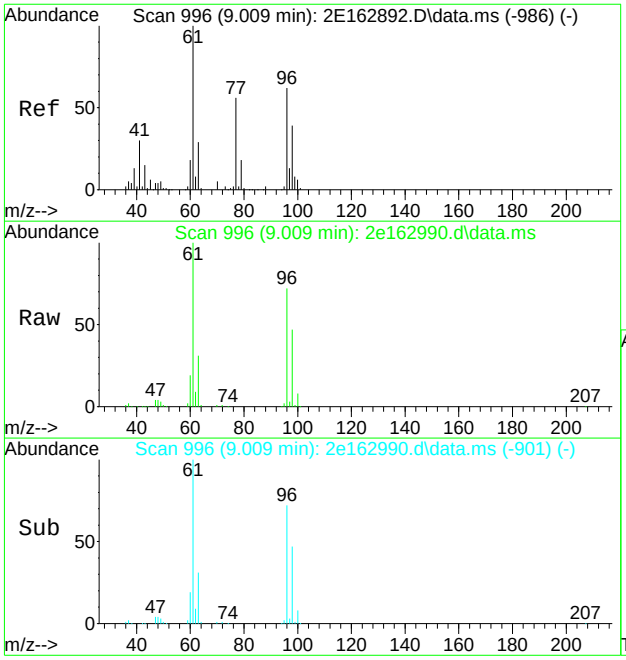


#31
1,1-dichloroethane
Concen: 5.65 ug/L
RT: 8.275 min Scan# 856
Delta R.T. -0.005 min
Lab File: 2e162990.d
Acq: 20 Jul 2020 9:49 pm

Tgt Ion: 63 Resp: 33472

Ion	Ratio	Lower	Upper
63	100		
65	28.6	2.4	62.4
83	13.4	0.0	42.4

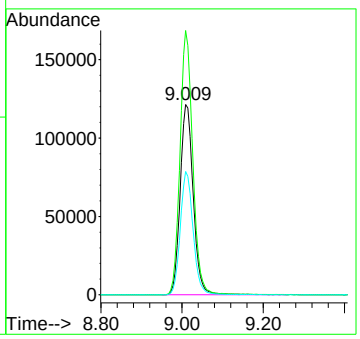


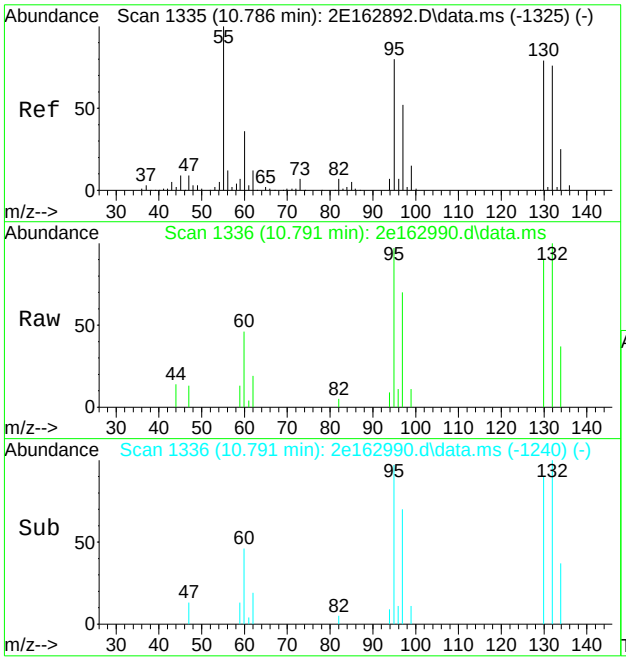


#37
cis-1,2-dichloroethene
Concen: 79.67 ug/L
RT: 9.009 min Scan# 996
Delta R.T. -0.000 min
Lab File: 2e162990.d
Acq: 20 Jul 2020 9:49 pm

Tgt Ion: 96 Resp: 272109

Ion	Ratio	Lower	Upper
96	100		
61	139.0	132.8	192.8
98	64.8	34.0	94.0

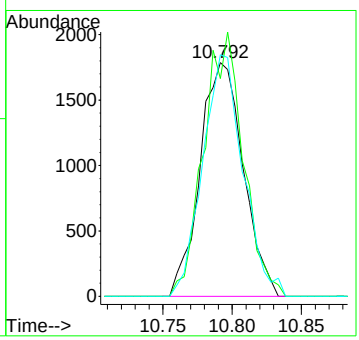




#62
trichloroethene
Concen: 1.29 ug/L
RT: 10.791 min Scan# 1336
Delta R.T. 0.005 min
Lab File: 2e162990.d
Acq: 20 Jul 2020 9:49 pm

Tgt Ion: 95 Resp: 3868

Ion	Ratio	Lower	Upper
95	100		
130	93.2	69.0	129.0
132	103.3	68.2	128.2



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\July-2020\7-21\v2e8165-rush\
Data File : 2e162973.d
Acq On : 20 Jul 2020 1:12 pm
Operator : krizhkac
Sample : mb Inst : VOAMS2E
Misc : MS37677,V2E8165,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 21 00:46:48 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Jul 16 11:01:59 2020
Response via : Initial Calibration

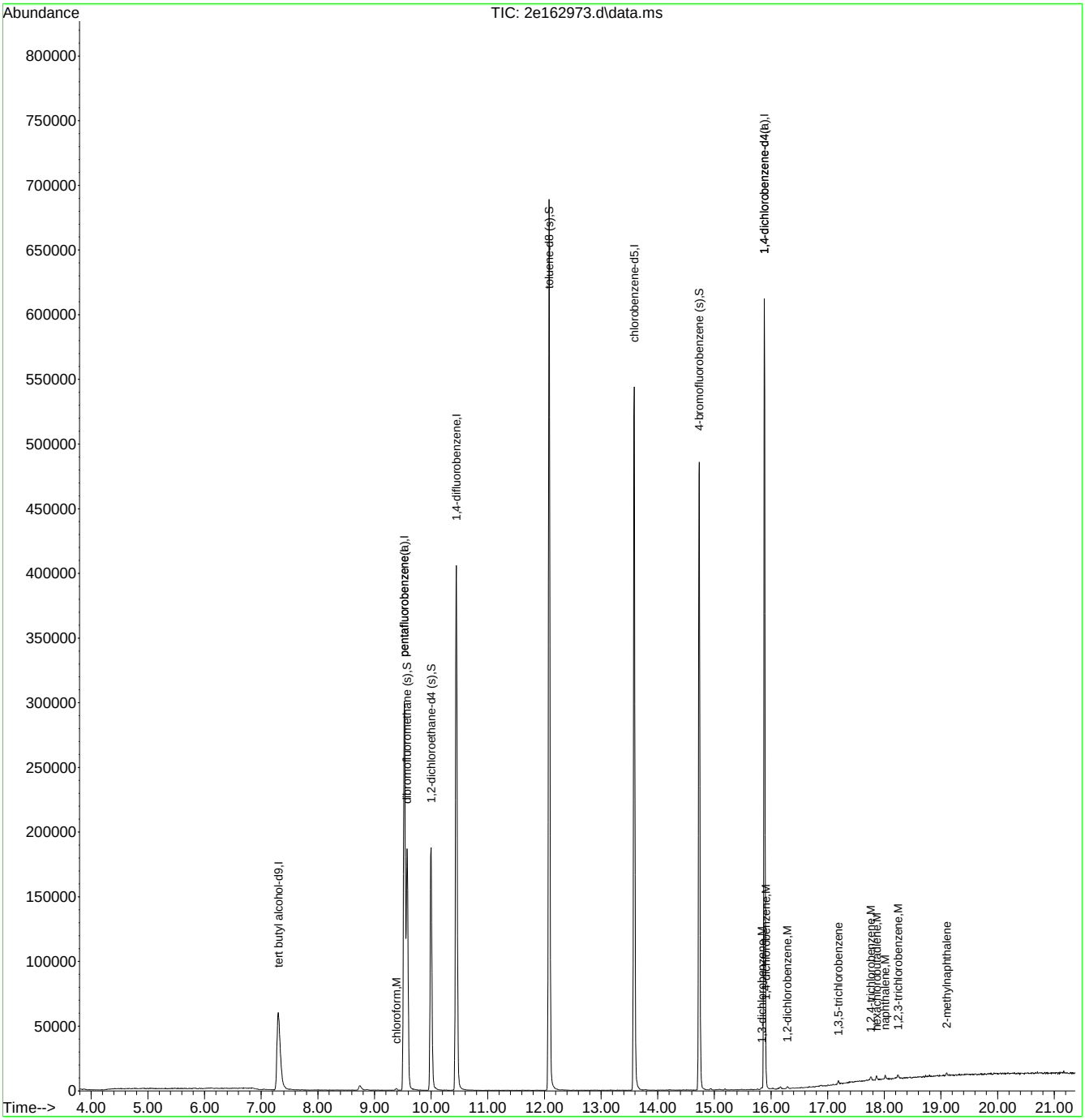
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.305	65	142560	500.00	ug/L	0.00
5) pentafluorobenzene	9.528	168	250948	50.00	ug/L	0.00
53) 1,4-difluorobenzene	10.445	114	377299	50.00	ug/L	0.00
74) chlorobenzene-d5	13.586	117	305676	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	15.882	152	150471	50.00	ug/L	0.00
127) pentafluorobenzene(a)	9.528	168	250948	50.00	ug/L	0.00
130) 1,4-dichlorobenzene-d4(a)	15.882	152	150471	50.00	ug/L	0.00
System Monitoring Compounds						
47) dibromofluoromethane (s)	9.575	113	126424	50.50	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 101.00%			
54) 1,2-dichloroethane-d4 (s)	10.000	65	143056	50.01	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 100.02%			
75) toluene-d8 (s)	12.081	98	479532	49.49	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 98.98%			
98) 4-bromofluorobenzene (s)	14.729	95	168925	49.71	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.42%			
Target Compounds						Qvalue
42) chloroform	9.386	83	796	0.14	ug/L	95
110) 1,3-dichlorobenzene	15.835	146	789	0.14	ug/L	90
112) 1,4-dichlorobenzene	15.909	146	1041	0.17	ug/L	89
113) 1,2-dichlorobenzene	16.286	146	703	0.12	ug/L	91
116) 1,3,5-trichlorobenzene	17.188	180	993	0.21	ug/L	88
117) 1,2,4-trichlorobenzene	17.759	180	1261	0.33	ug/L	94
119) hexachlorobutadiene	17.864	225	759	0.37	ug/L	75
120) naphthalene	18.016	128	2315	0.27	ug/L	94
121) 1,2,3-trichlorobenzene	18.242	180	1156	0.33	ug/L	99
124) 2-methylnaphthalene	19.102	142	939	0.24	ug/L	85

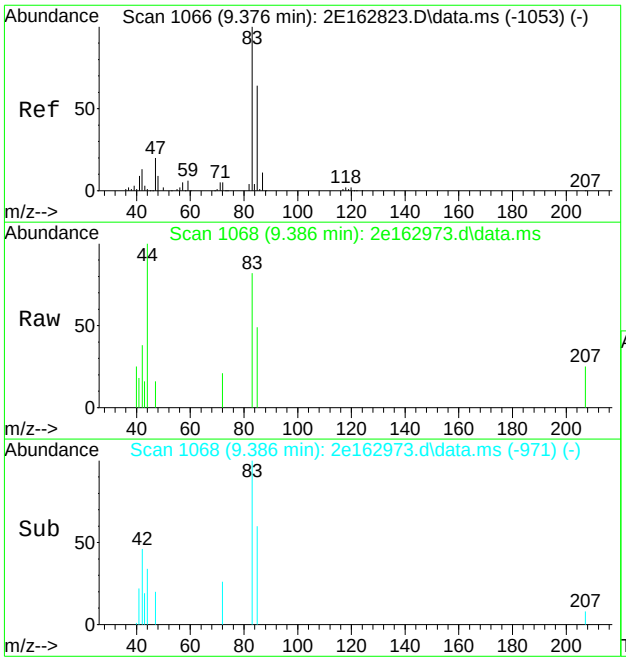
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\July-2020\7-21\v2e8165-rush\
Data File : 2e162973.d
Acq On : 20 Jul 2020 1:12 pm
Operator : krizhkac
Sample : mb Inst : VOAMS2E
Misc : MS37677,V2E8165,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 21 00:46:48 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Jul 16 11:01:59 2020
Response via : Initial Calibration

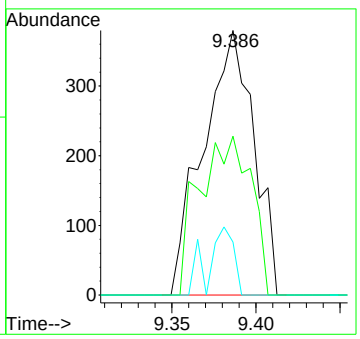


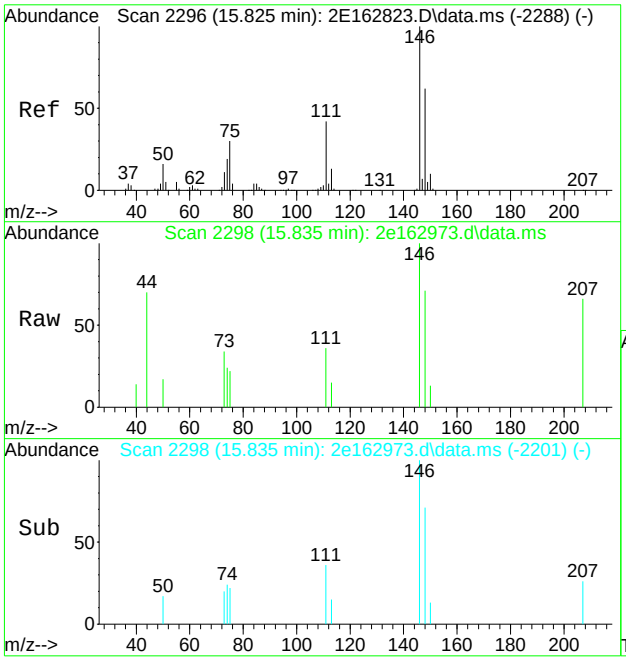


#42
chloroform
Concen: 0.14 ug/L
RT: 9.386 min Scan# 1068
Delta R.T. 0.010 min
Lab File: 2e162973.d
Acq: 20 Jul 2020 1:12 pm

Tgt Ion: 83 Resp: 796

Ion	Ratio	Lower	Upper
83	100		
85	60.0	33.5	93.5
47	20.0	0.0	53.0

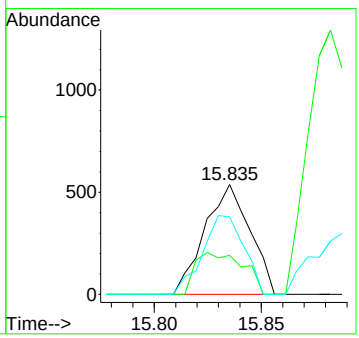


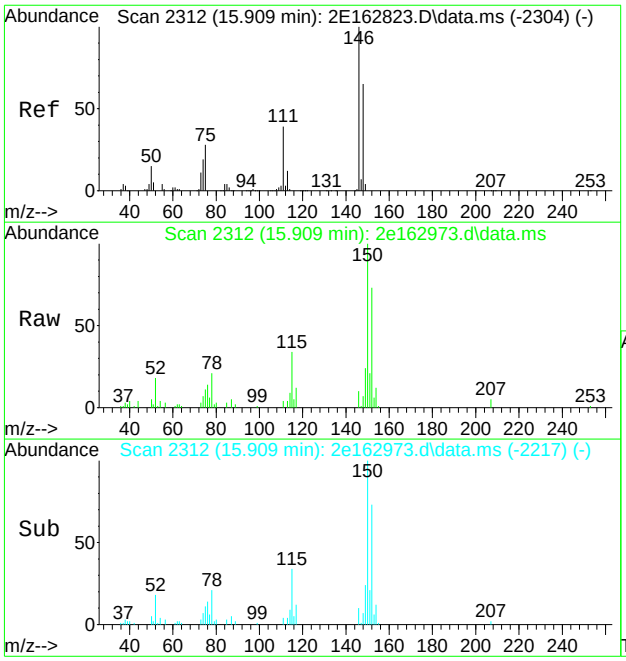


#110
1,3-dichlorobenzene
Concen: 0.14 ug/L
RT: 15.835 min Scan# 2298
Delta R.T. 0.010 min
Lab File: 2e162973.d
Acq: 20 Jul 2020 1:12 pm

Tgt Ion:146 Resp: 789

Ion	Ratio	Lower	Upper
146	100		
111	35.5	11.7	71.7
148	70.8	32.4	92.4

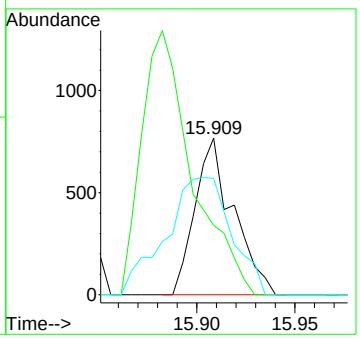


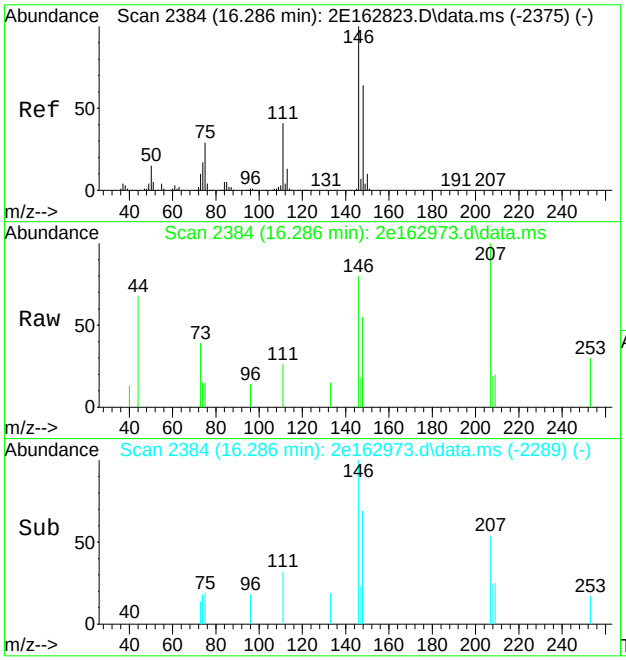


#112
1,4-dichlorobenzene
Concen: 0.17 ug/L
RT: 15.909 min Scan# 2312
Delta R.T. -0.000 min
Lab File: 2e162973.d
Acq: 20 Jul 2020 1:12 pm

Tgt Ion:146 Resp: 1041

Ion	Ratio	Lower	Upper
146	100		
111	44.5	9.1	69.1
148	74.3	34.9	94.9

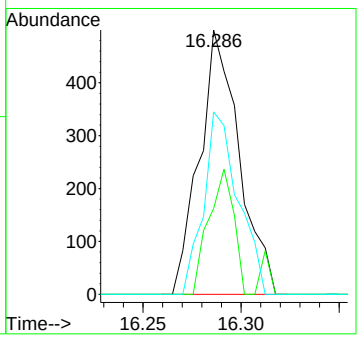


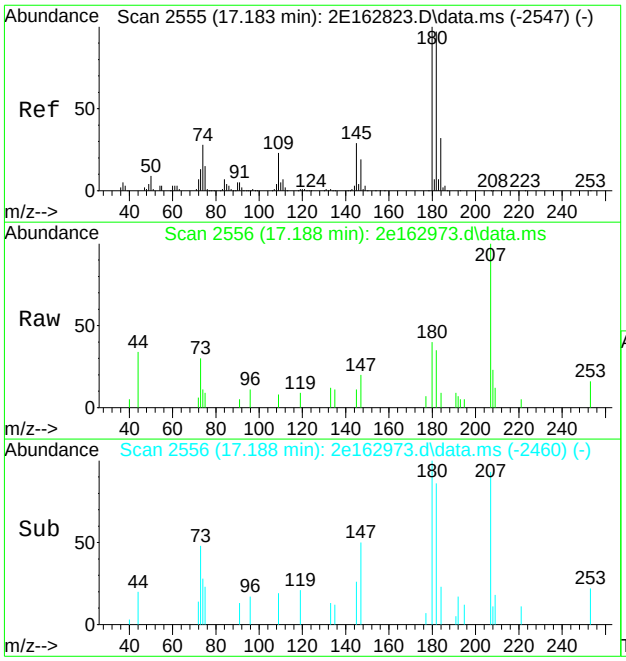


#113
1,2-dichlorobenzene
Concen: 0.12 ug/L
RT: 16.286 min Scan# 2384
Delta R.T. 0.000 min
Lab File: 2e162973.d
Acq: 20 Jul 2020 1:12 pm

Tgt Ion:146 Resp: 703

Ion	Ratio	Lower	Upper
146	100		
111	32.4	11.5	71.5
148	69.0	34.3	94.3

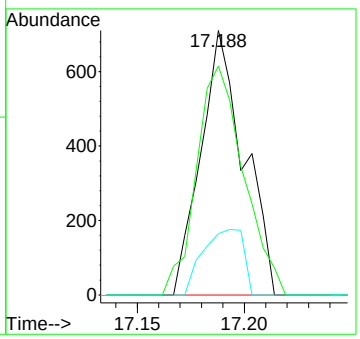


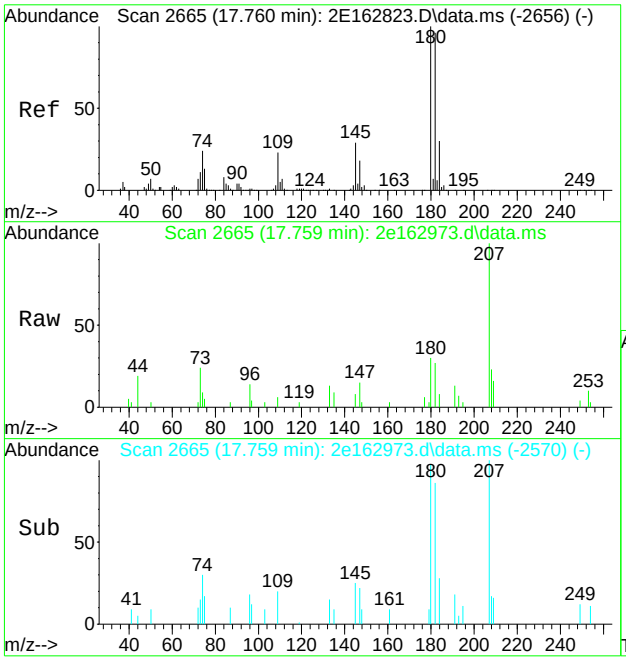


#116
1,3,5-trichlorobenzene
Concen: 0.21 ug/L
RT: 17.188 min Scan# 2556
Delta R.T. 0.005 min
Lab File: 2e162973.d
Acq: 20 Jul 2020 1:12 pm

Tgt Ion:180 Resp: 993

Ion	Ratio	Lower	Upper
180	100		
182	86.5	67.1	127.1
184	23.2	1.5	61.5

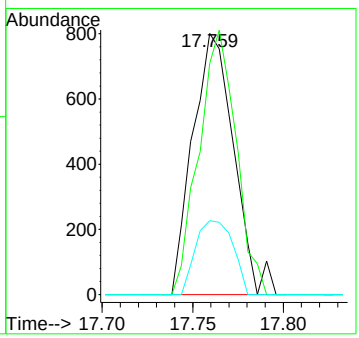


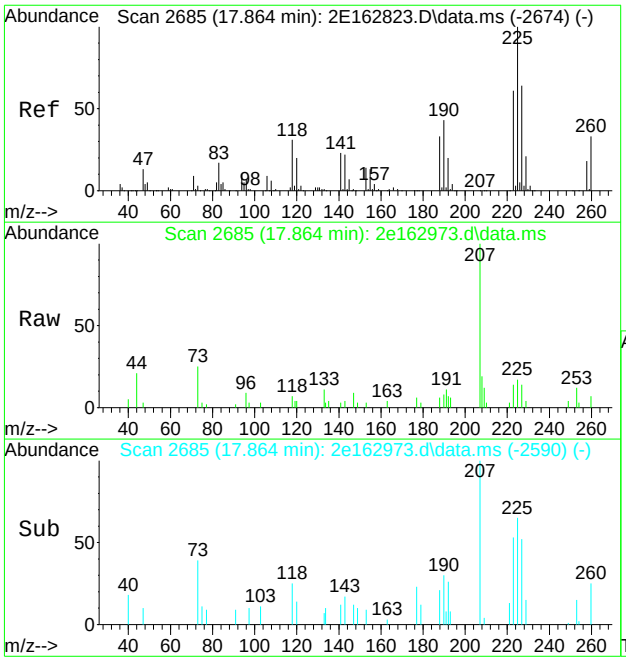


#117
1,2,4-trichlorobenzene
Concen: 0.33 ug/L
RT: 17.759 min Scan# 2665
Delta R.T. -0.001 min
Lab File: 2e162973.d
Acq: 20 Jul 2020 1:12 pm

Tgt Ion:180 Resp: 1261

Ion	Ratio	Lower	Upper
180	100		
182	88.5	65.7	125.7
184	28.3	0.0	59.9

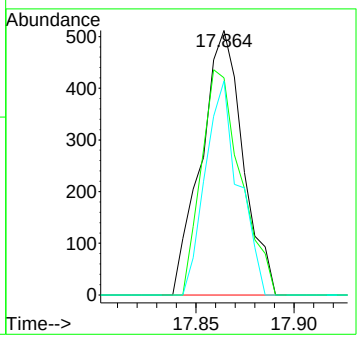


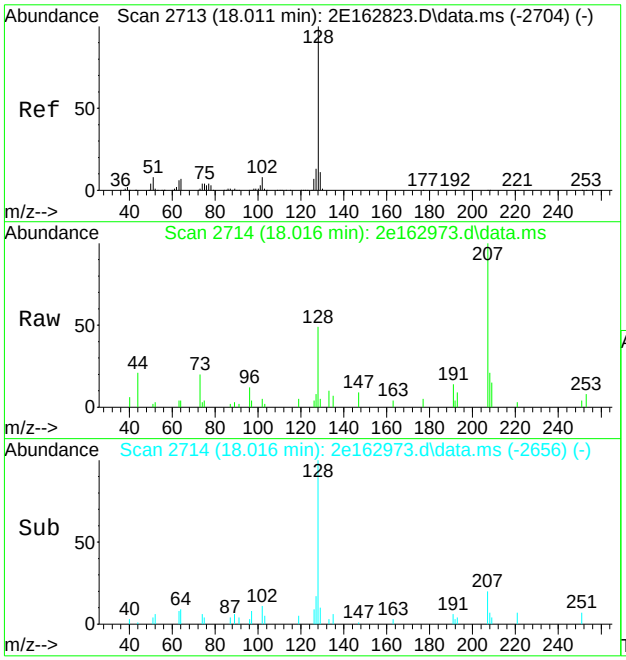


#119
hexachlorobutadiene
Concen: 0.37 ug/L
RT: 17.864 min Scan# 2685
Delta R.T. 0.000 min
Lab File: 2e162973.d
Acq: 20 Jul 2020 1:12 pm

Tgt Ion:225 Resp: 759

Ion	Ratio	Lower	Upper
225	100		
223	82.0	31.0	91.0
227	80.9	33.6	93.6

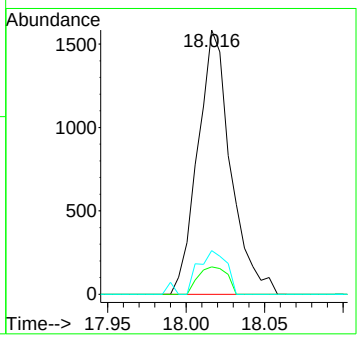


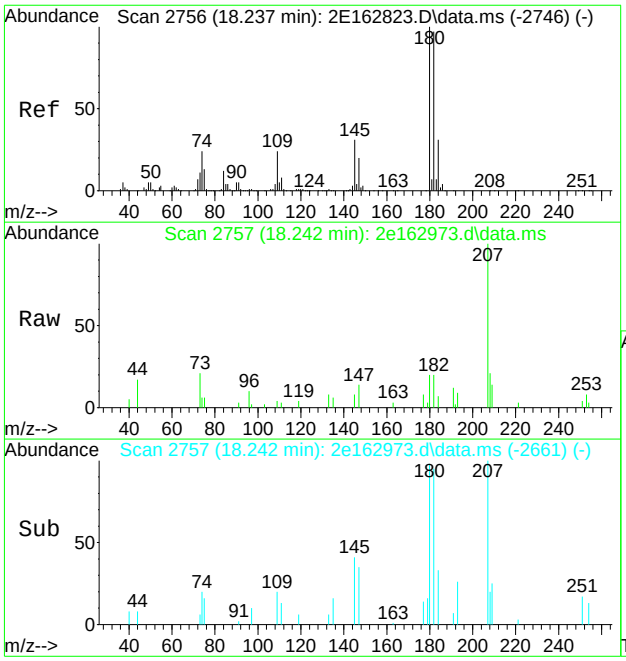


#120
naphthalene
Concen: 0.27 ug/L
RT: 18.016 min Scan# 2714
Delta R.T. 0.005 min
Lab File: 2e162973.d
Acq: 20 Jul 2020 1:12 pm

Tgt Ion:128 Resp: 2315

Ion	Ratio	Lower	Upper
128	100		
129	10.3	0.0	41.1
127	16.5	0.0	42.9

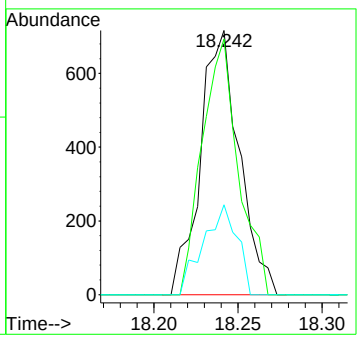


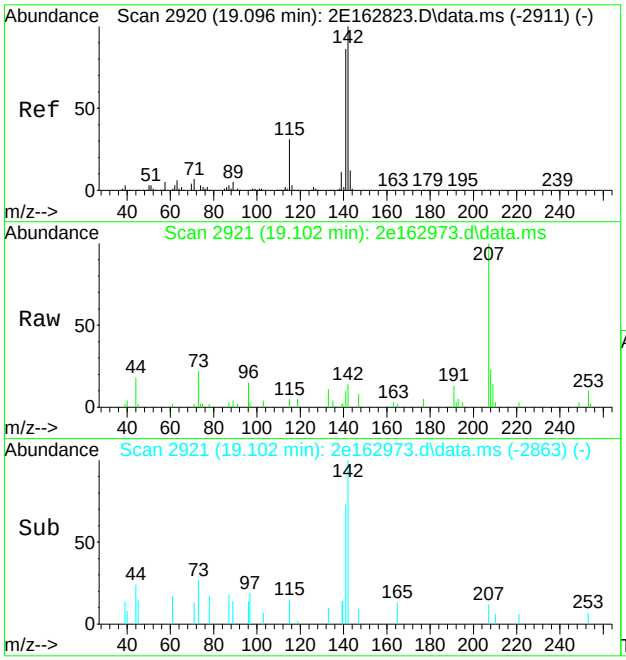


#121
1,2,3-trichlorobenzene
Concen: 0.33 ug/L
RT: 18.242 min Scan# 2757
Delta R.T. 0.005 min
Lab File: 2e162973.d
Acq: 20 Jul 2020 1:12 pm

Tgt Ion:180 Resp: 1156

Ion	Ratio	Lower	Upper
180	100		
182	96.8	67.1	127.1
184	34.0	1.4	61.4

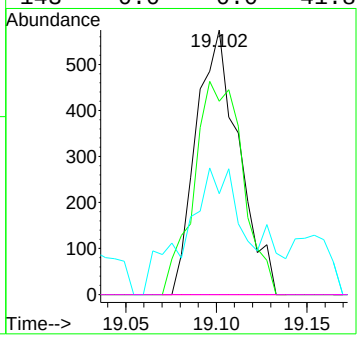




#124
2-methylnaphthalene
Concen: 0.24 ug/L
RT: 19.102 min Scan# 2921
Delta R.T. 0.006 min
Lab File: 2e162973.d
Acq: 20 Jul 2020 1:12 pm

Tgt Ion:142 Resp: 939

Ion	Ratio	Lower	Upper
142	100		
141	73.0	66.1	106.1
115	24.5	0.6	60.6
143	0.0	0.0	41.8



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\janellac\07-28-2020\v4d4597\
Data File : 4d103629.d
Acq On : 27 Jul 2020 10:33 am
Operator : krizhkac
Sample : mb Inst : MS4D
Misc : MS44703,V4D4597,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Results File: M4D4496.RES
Quant Time: Jul 27 22:09:16 2020
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 16:29:00 2020
Response via : Initial Calibration

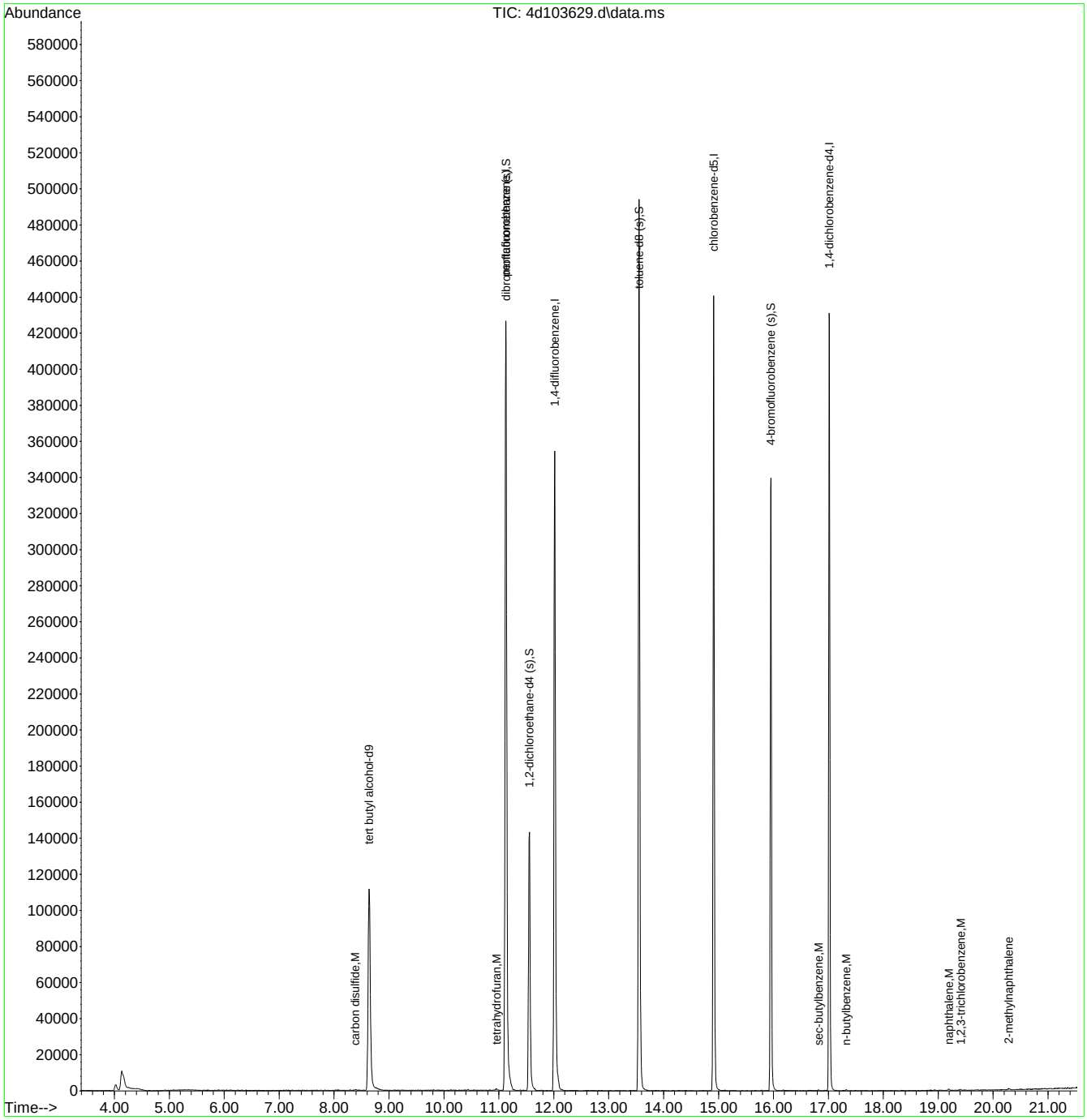
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	8.635	65	200864	500.00	ug/L	-0.01
5) pentafluorobenzene	11.126	168	239625	50.00	ug/L	0.00
51) 1,4-difluorobenzene	12.017	114	344778	50.00	ug/L	0.00
73) chlorobenzene-d5	14.911	117	259053	50.00	ug/L	0.00
96) 1,4-dichlorobenzene-d4	17.014	152	115082	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	11.131	113	116829	50.78	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 101.56%			
52) 1,2-dichloroethane-d4 (s)	11.556	65	107169	44.64	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 89.28%			
74) toluene-d8 (s)	13.553	98	349093	49.91	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.82%			
97) 4-bromofluorobenzene (s)	15.949	95	111849	48.17	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 96.34%			
Target Compounds						Qvalue
21) carbon disulfide	8.384	76	867	0.20	ug/L	71
40) tetrahydrofuran	10.958	72	213	0.52	ug/L #	9
108) sec-butylbenzene	16.820	105	628	0.12	ug/L	69
114) n-butylbenzene	17.323	92	318	0.16	ug/L #	66
120) naphthalene	19.195	128	1261	0.30	ug/L	70
121) 1,2,3-trichlorobenzene	19.410	180	198	0.15	ug/L	65
123) 2-methylnaphthalene	20.285	142	460	0.28	ug/L #	69

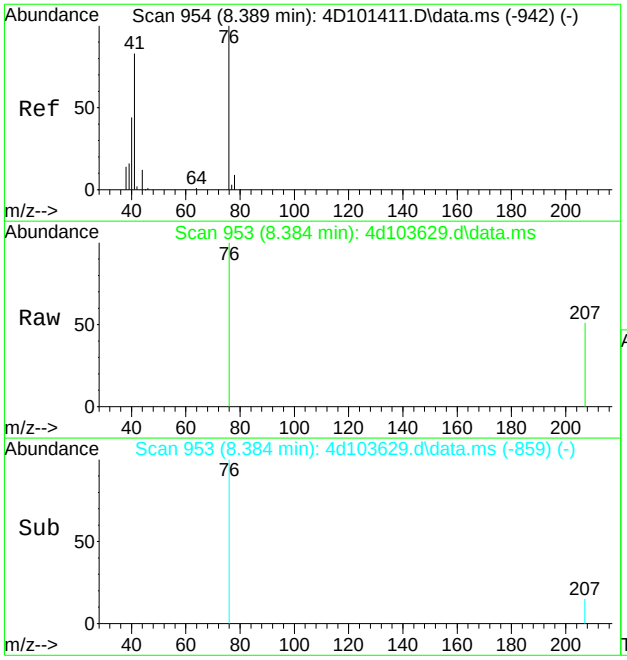
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\janellac\07-28-2020\v4d4597\
Data File : 4d103629.d
Acq On : 27 Jul 2020 10:33 am
Operator : krizhkac
Sample : mb Inst : MS4D
Misc : MS44703,V4D4597,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Results File: M4D4496.RES
Quant Time: Jul 27 22:09:16 2020
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 16:29:00 2020
Response via : Initial Calibration

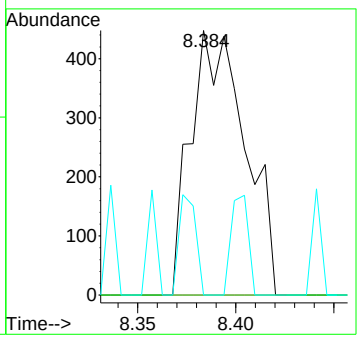


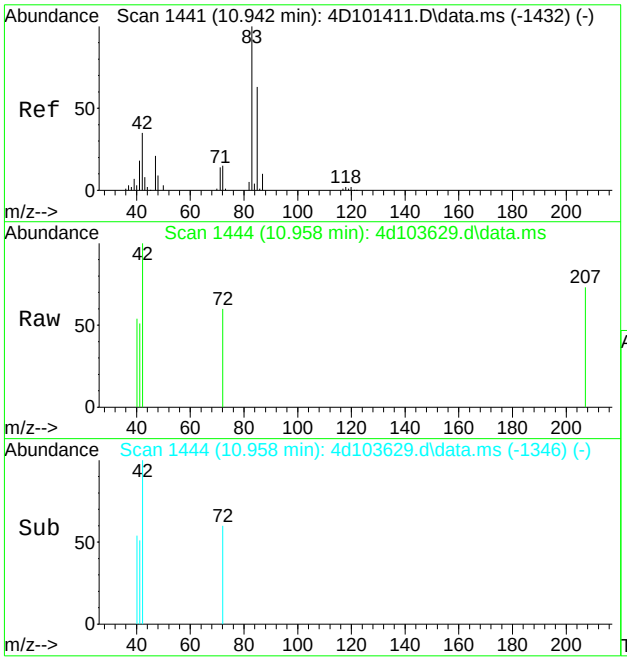


#21
carbon disulfide
Concen: 0.20 ug/L
RT: 8.384 min Scan# 953
Delta R.T. -0.005 min
Lab File: 4d103629.d
Acq: 27 Jul 2020 10:33 am

Tgt Ion: 76 Resp: 867

Ion	Ratio	Lower	Upper
76	100		
78	0.0	0.0	39.3
44	0.0	0.0	42.2

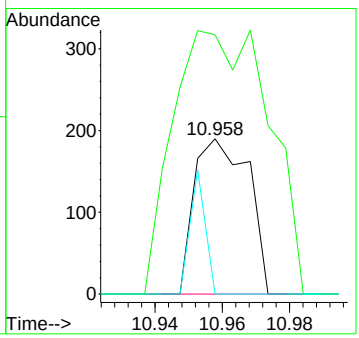


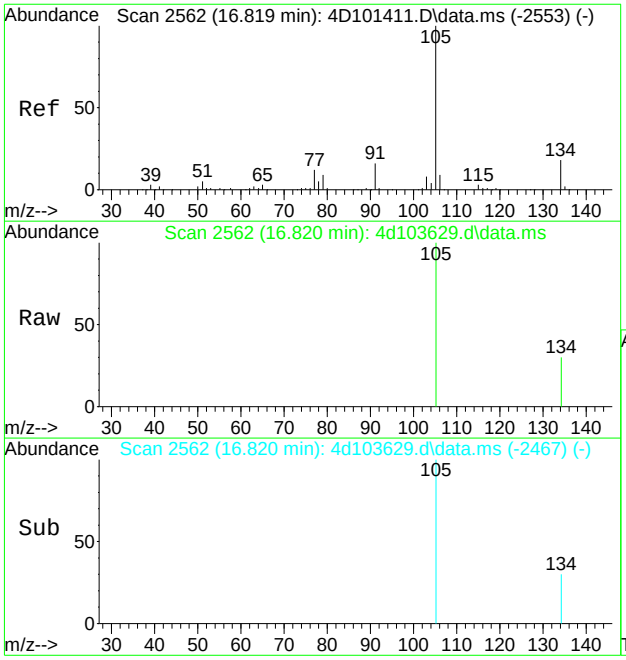


#40
tetrahydrofuran
Concen: 0.52 ug/L
RT: 10.958 min Scan# 1444
Delta R.T. 0.016 min
Lab File: 4d103629.d
Acq: 27 Jul 2020 10:33 am

Tgt Ion: 72 Resp: 213

Ion	Ratio	Lower	Upper
72	100		
42	85.8	203.2	263.2#
71	0.0	63.5	123.5#

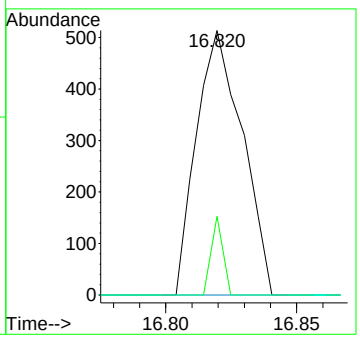


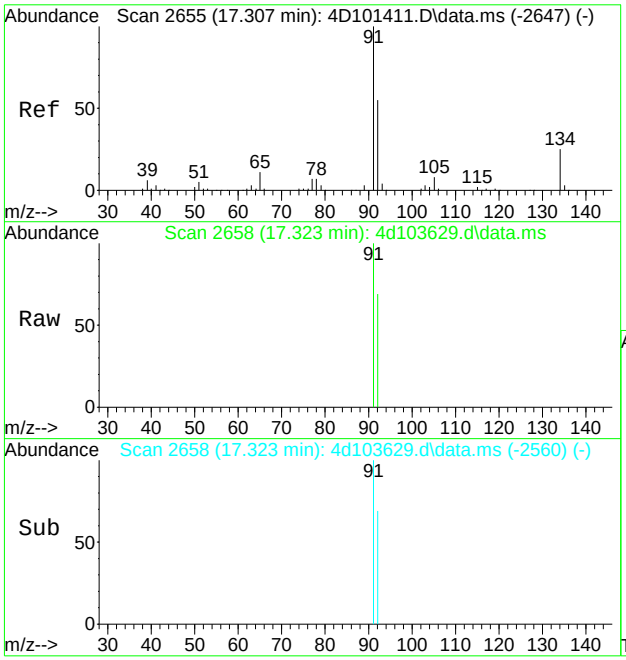


#108
sec-butylbenzene
Concen: 0.12 ug/L
RT: 16.820 min Scan# 2562
Delta R.T. 0.000 min
Lab File: 4d103629.d
Acq: 27 Jul 2020 10:33 am

Tgt Ion:105 Resp: 628

Ion	Ratio	Lower	Upper
105	100		
134	29.8	0.0	48.4
91	0.0	0.0	45.6

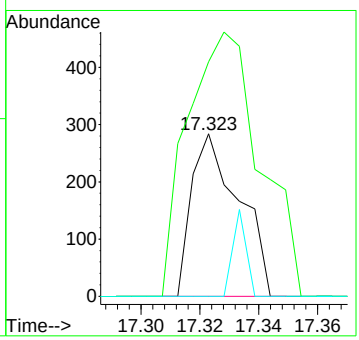


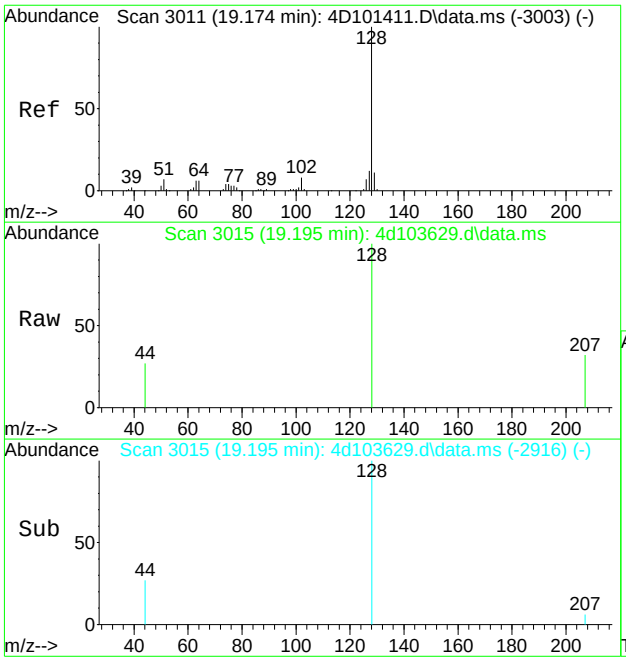


#114
n-butylbenzene
Concen: 0.16 ug/L
RT: 17.323 min Scan# 2658
Delta R.T. 0.016 min
Lab File: 4d103629.d
Acq: 27 Jul 2020 10:33 am

Tgt Ion: 92 Resp: 318

Ion	Ratio	Lower	Upper
92	100		
91	144.4	151.0	211.0#
134	0.0	15.2	75.2#

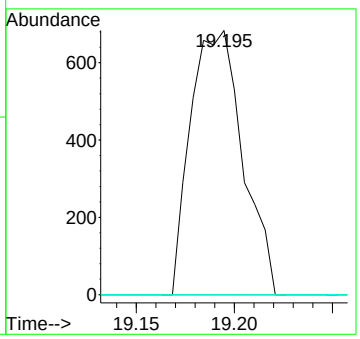


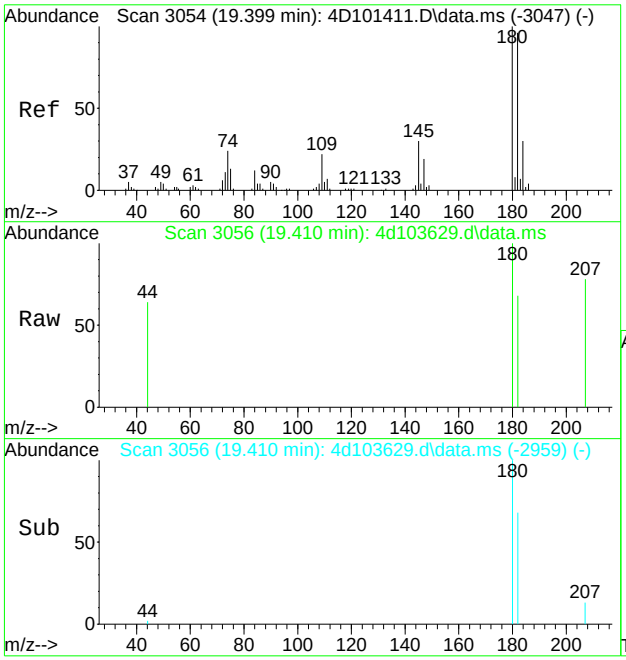


#120
naphthalene
Concen: 0.30 ug/L
RT: 19.195 min Scan# 3015
Delta R.T. 0.021 min
Lab File: 4d103629.d
Acq: 27 Jul 2020 10:33 am

Tgt Ion:128 Resp: 1261

Ion	Ratio	Lower	Upper
128	100		
127	0.0	0.0	42.4
129	0.0	0.0	40.8

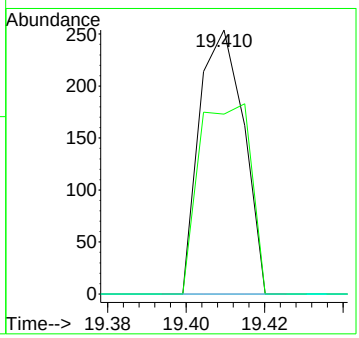


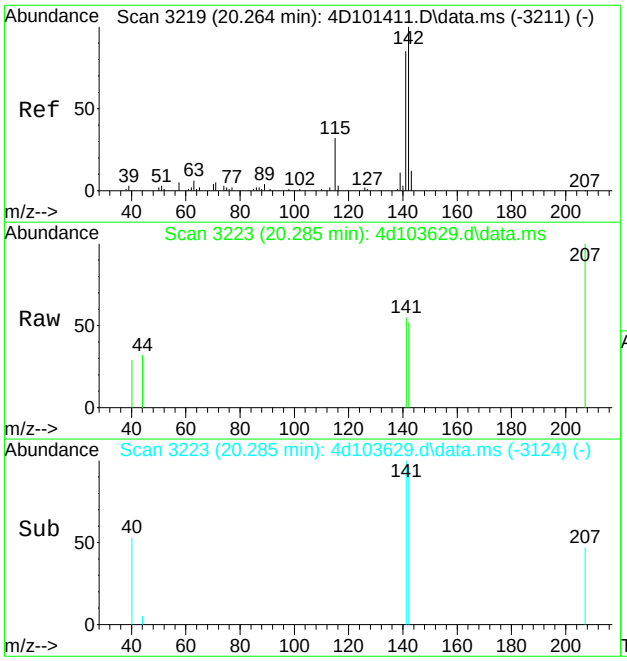


#121
1,2,3-trichlorobenzene
Concen: 0.15 ug/L
RT: 19.410 min Scan# 3056
Delta R.T. 0.011 min
Lab File: 4d103629.d
Acq: 27 Jul 2020 10:33 am

Tgt Ion:180 Resp: 198

Ion	Ratio	Lower	Upper
180	100		
182	68.1	66.4	126.4
145	0.0	0.0	59.7

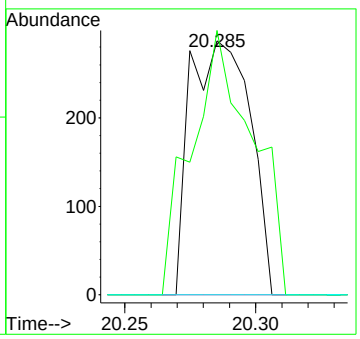




#123
2-methylnaphthalene
Concen: 0.28 ug/L
RT: 20.285 min Scan# 3223
Delta R.T. 0.021 min
Lab File: 4d103629.d
Acq: 27 Jul 2020 10:33 am

Tgt Ion:142 Resp: 460

Ion	Ratio	Lower	Upper
142	100		
141	104.2	65.0	105.0
115	0.0	11.8	51.8#



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\July-2020\7-21\v2e8165-rush\
Data File : 2e162970.d
Acq On : 20 Jul 2020 11:42 am
Operator : krizhkac
Sample : bs Inst : VOAMS2E
Misc : MS44525,V2E8165,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 20 12:22:14 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Jul 16 11:01:59 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	7.300	65	131659	500.00	ug/L		0.00
5) pentafluorobenzene	9.528	168	233528	50.00	ug/L		0.00
53) 1,4-difluorobenzene	10.445	114	354036	50.00	ug/L		0.00
74) chlorobenzene-d5	13.581	117	288902	50.00	ug/L		0.00
97) 1,4-dichlorobenzene-d4	15.882	152	149914	50.00	ug/L		0.00
127) pentafluorobenzene(a)	9.528	168	233528	50.00	ug/L		0.00
130) 1,4-dichlorobenzene-d4(a)	15.882	152	149914	50.00	ug/L		0.00
System Monitoring Compounds							
47) dibromofluoromethane (s)	9.575	113	119203	51.17	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 102.34%				
54) 1,2-dichloroethane-d4 (s)	9.994	65	133522	49.74	ug/L		0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 99.48%				
75) toluene-d8 (s)	12.081	98	453664	49.54	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.08%				
98) 4-bromofluorobenzene (s)	14.729	95	164866	48.69	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 97.38%				
Target Compounds							Qvalue
2) ethanol	6.052	45	163350	4341.06	ug/L		97
3) tertiary butyl alcohol	7.420	59	88179	203.69	ug/L		98
4) 1,4-dioxane	11.164	88	36246	1220.10	ug/L		97
6) chlorodifluoromethane	3.996	51	196558	40.37	ug/L		100
7) dichlorodifluoromethane	3.975	85	212809	42.22	ug/L		99
8) chloromethane	4.374	50	225181	40.88	ug/L		99
9) vinyl chloride	4.610	62	208825	42.61	ug/L		99
10) bromomethane	5.229	94	123088	42.87	ug/L		100
11) chloroethane	5.375	64	113680	40.65	ug/L		99
12) trichlorofluoromethane	5.831	101	213129	43.76	ug/L		98
13) 1,3-butadiene	4.631	54	145378	39.59	ug/L		99
14) vinyl bromide	5.727	106	75857	39.68	ug/L		98
15) ethyl ether	6.214	74	80926	45.26	ug/L		98
16) acrolein	6.466	56	25330	43.49	ug/L		92
17) freon 113	6.602	151	100661	43.61	ug/L		97
18) 1,1-dichloroethene	6.639	61	207375	44.28	ug/L		99
19) acetone	6.676	43	148886	191.83	ug/L		98
20) acetonitrile	7.106	41	148998	358.43	ug/L		99
21) iodomethane	6.917	142	224687	46.64	ug/L		98
22) carbon disulfide	7.048	76	366083	43.67	ug/L		99
23) methylene chloride	7.341	84	150411	45.65	ug/L		96
24) methyl acetate	7.142	43	111208	47.03	ug/L		97
25) methyl tert butyl ether	7.672	73	393946	47.16	ug/L		99
26) trans-1,2-dichloroethene	7.719	61	205334	45.04	ug/L		98
27) hexane	8.013	56	110479	45.32	ug/L		100
28) di-isopropyl ether	8.259	45	514279	46.93	ug/L		97
29) ethyl tert-butyl ether	8.726	59	476772	46.74	ug/L		100
30) 2-butanone	8.972	72	60598	213.83	ug/L		98
31) 1,1-dichloroethane	8.280	63	259069	45.20	ug/L		99
32) chloroprene	8.385	53	205795	46.60	ug/L		99
33) acrylonitrile	7.667	53	56114	50.30	ug/L		98
34) vinyl acetate	8.264	86	31771	54.79	ug/L	#	80
35) ethyl acetate	8.998	45	23244	51.88	ug/L		95
36) 2,2-dichloropropane	9.014	77	185454	42.32	ug/L		99
37) cis-1,2-dichloroethene	9.009	96	150276	45.47	ug/L		97
38) propionitrile	9.066	54	202366	494.13	ug/L		98
39) methyl acrylate	9.077	85	19346	53.36	ug/L	#	81

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\July-2020\7-21\v2e8165-rush\
Data File : 2e162970.d
Acq On : 20 Jul 2020 11:42 am
Operator : krizhkac
Sample : bs Inst : VOAMS2E
Misc : MS44525,V2E8165,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 20 12:22:14 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Jul 16 11:01:59 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
40) bromochloromethane	9.323	128	70883	47.08	ug/L		96
41) tetrahydrofuran	9.365	72	17670	49.29	ug/L		91
42) chloroform	9.376	83	234526	44.02	ug/L		99
43) t-butyl formate	9.412	59	109722	45.21	ug/L		98
44) 1,1-dichloropropene	9.811	75	189274	45.31	ug/L		98
45) carbon tetrachloride	9.837	117	173624	45.79	ug/L		99
46) isopropyl acetate	9.989	87	32116	51.46	ug/L	#	86
48) methacrylonitrile	9.255	67	55266	51.48	ug/L		99
49) 1,1,1-trichloroethane	9.633	97	203680	45.89	ug/L		99
50) cyclohexane	9.706	84	222351	45.63	ug/L		95
51) iso-butyl alcohol	9.816	43	62469	515.43	ug/L		99
52) tert amyl alcohol	9.942	73	37729	261.28	ug/L		98
55) 2,2,4-trimethylpentane	10.073	57	519012	44.91	ug/L		99
56) n-butyl alcohol	10.566	56	222226	2945.35	ug/L		97
57) benzene	10.073	78	563889	43.95	ug/L		99
58) tert-amyl methyl ether	10.105	73	452328	46.18	ug/L		99
59) heptane	10.241	57	105074	46.97	ug/L		99
60) 1,2-dichloroethane	10.084	62	176279	44.75	ug/L		100
61) ethyl acrylate	10.786	55	169365	50.32	ug/L		98
62) trichloroethene	10.786	95	134684	45.83	ug/L		98
63) 2-nitropropane	11.552	41	42779	47.51	ug/L		97
64) 2-chloroethyl vinyl ether	11.573	63	415333	263.76	ug/L		99
65) methyl methacrylate	11.054	100	35099	52.20	ug/L		96
66) 1,2-dichloropropane	11.048	63	151744	45.59	ug/L		100
67) methylcyclohexane	11.006	83	258452	44.37	ug/L		99
68) dibromomethane	11.206	93	80528	47.26	ug/L		95
69) bromodichloromethane	11.337	83	175672	45.47	ug/L		99
70) epichlorohydrin	11.693	57	68255	249.10	ug/L		99
71) cis-1,3-dichloropropene	11.793	75	229989	47.23	ug/L		100
72) 4-methyl-2-pentanone	11.882	58	211657	202.69	ug/L		100
73) 3-methyl-1-butanol	11.903	70	82507	1154.05	ug/L		95
76) toluene	12.155	92	327841	45.78	ug/L		99
77) ethyl methacrylate	12.343	69	169215	50.98	ug/L		99
78) trans-1,3-dichloropropene	12.349	75	194489	47.89	ug/L		97
79) 1,1,2-trichloroethane	12.564	83	97020	46.56	ug/L		99
80) tetrachloroethene	12.737	164	105666	45.18	ug/L		96
81) 2-hexanone	12.731	58	192582	210.07	ug/L		99
82) 1,3-dichloropropane	12.742	76	196819	45.93	ug/L		99
83) butyl acetate	12.805	56	93373	51.10	ug/L		98
84) dibromochloromethane	13.009	129	123499	47.45	ug/L		98
85) 1,2-dibromoethane	13.156	107	150589	48.25	ug/L		99
86) n-butyl ether	13.528	57	604285	47.61	ug/L		99
87) chlorobenzene	13.612	112	344394	45.75	ug/L		99
88) 1,1,1,2-tetrachloroethane	13.675	131	123417	47.62	ug/L		98
89) ethylbenzene	13.670	91	592121	46.23	ug/L		99
90) m,p-xylene	13.775	106	453791	93.92	ug/L		99
91) o-xylene	14.189	91	478760	46.67	ug/L		100
92) styrene	14.199	104	372294	50.05	ug/L		98
93) butyl acrylate	14.016	55	258347	50.97	ug/L		99
94) bromoform	14.462	173	78969	51.52	ug/L		99
95) isopropylbenzene	14.530	105	572502	47.17	ug/L		99
96) cis-1,4-dichloro-2-butene	14.598	75	50767	50.60	ug/L		97
99) bromobenzene	14.923	156	143166	44.78	ug/L		91
100) 1,1,2,2-tetrachloroethane	14.829	83	143719	45.55	ug/L		97
101) trans-1,4-dichloro-2-b...	14.870	53	39084	49.00	ug/L		96
102) 1,2,3-trichloropropane	14.902	110	39121	46.94	ug/L		98
103) n-propylbenzene	14.933	91	671104	45.24	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\July-2020\7-21\v2e8165-rush\
Data File : 2e162970.d
Acq On : 20 Jul 2020 11:42 am
Operator : krizhkac
Sample : bs Inst : VOAMS2E
Misc : MS44525,V2E8165,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 20 12:22:14 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Jul 16 11:01:59 2020
Response via : Initial Calibration

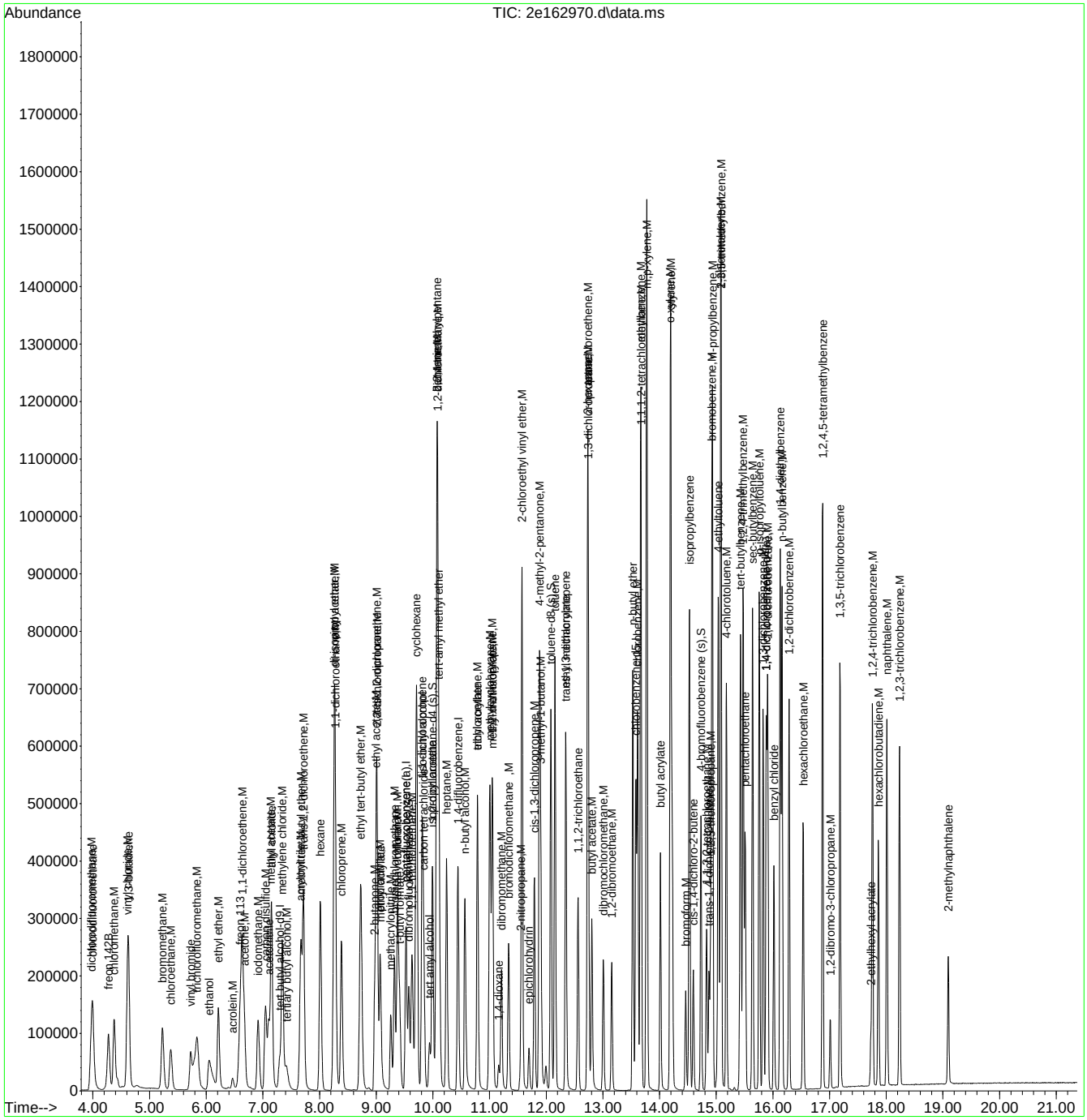
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 2-chlorotoluene	15.080	126	135259	45.10	ug/L	97
105) 4-chlorotoluene	15.180	91	404576	44.35	ug/L	98
106) 1,3,5-trimethylbenzene	15.085	105	475326	45.66	ug/L	99
107) tert-butylbenzene	15.426	119	414835	45.41	ug/L	99
108) 1,2,4-trimethylbenzene	15.473	105	483172	47.14	ug/L	99
109) sec-butylbenzene	15.641	105	588287	45.38	ug/L	100
110) 1,3-dichlorobenzene	15.825	146	262429	45.48	ug/L	98
111) p-isopropyltoluene	15.762	119	500197	46.76	ug/L	99
112) 1,4-dichlorobenzene	15.909	146	269006	45.35	ug/L	99
113) 1,2-dichlorobenzene	16.286	146	262307	46.03	ug/L	98
114) n-butylbenzene	16.160	92	259269	48.75	ug/L	99
115) 1,2-dibromo-3-chloropr...	17.015	157	31604	51.14	ug/L	97
116) 1,3,5-trichlorobenzene	17.183	180	221810	47.25	ug/L	98
117) 1,2,4-trichlorobenzene	17.759	180	198752	52.63	ug/L	98
118) 2-ethylhexyl acrylate	17.728	70	22454	9.09	ug/L	90
119) hexachlorobutadiene	17.864	225	91731	44.47	ug/L	99
120) naphthalene	18.011	128	462662	54.70	ug/L	99
121) 1,2,3-trichlorobenzene	18.237	180	182873	52.20	ug/L	99
122) hexachloroethane	16.538	201	82772	47.82	ug/L	99
123) benzyl chloride	16.019	91	263553	51.04	ug/L	99
124) 2-methylnaphthalene	19.096	142	111464	28.74	ug/L	99
128) freon 142B	4.274	65	162739	50.58	ug/L	98
129) allyl chloride	7.158	76	84866	51.51	ug/L	96
131) 4-ethyltoluene	15.033	105	556520	50.38	ug/L	98
132) pentachloroethane	15.510	167	91560	51.36	ug/L	96
133) 1,4-diethylbenzene	16.129	119	314050	53.35	ug/L	99
134) 1,2,4,5-tetramethylben...	16.879	119	516550	52.63	ug/L	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\July-2020\7-21\v2e8165-rush\
Data File : 2e162970.d
Acq On : 20 Jul 2020 11:42 am
Operator : krizhkac
Sample : bs Inst : VOAMS2E
Misc : MS44525,V2E8165,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 20 12:22:14 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Jul 16 11:01:59 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\July-2020\7-21\v2e8165-rush\
Data File : 2e162971.d
Acq On : 20 Jul 2020 12:12 pm
Operator : krizhkac
Sample : bsd Inst : VOAMS2E
Misc : MS44525,V2E8165,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 20 12:36:01 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Jul 16 11:01:59 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	7.305	65	132835	500.00	ug/L		0.00
5) pentafluorobenzene	9.528	168	241296	50.00	ug/L		0.00
53) 1,4-difluorobenzene	10.445	114	362101	50.00	ug/L		0.00
74) chlorobenzene-d5	13.586	117	292629	50.00	ug/L		0.00
97) 1,4-dichlorobenzene-d4	15.882	152	148877	50.00	ug/L		0.00
127) pentafluorobenzene(a)	9.528	168	241296	50.00	ug/L		0.00
130) 1,4-dichlorobenzene-d4(a)	15.882	152	148877	50.00	ug/L		0.00
System Monitoring Compounds							
47) dibromofluoromethane (s)	9.575	113	122589	50.93	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 101.86%				
54) 1,2-dichloroethane-d4 (s)	9.995	65	136498	49.72	ug/L		0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 99.44%				
75) toluene-d8 (s)	12.081	98	461007	49.70	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.40%				
98) 4-bromofluorobenzene (s)	14.729	95	165093	49.10	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 98.20%				
Target Compounds							Qvalue
2) ethanol	6.062	45	164500	4332.92	ug/L		98
3) tertiary butyl alcohol	7.415	59	90776	207.83	ug/L		96
4) 1,4-dioxane	11.164	88	35610	1188.08	ug/L		99
6) chlorodifluoromethane	4.002	51	195898	38.94	ug/L		99
7) dichlorodifluoromethane	3.981	85	210320	40.38	ug/L		97
8) chloromethane	4.385	50	228081	40.08	ug/L		99
9) vinyl chloride	4.615	62	209913	41.45	ug/L		100
10) bromomethane	5.239	94	123295	41.56	ug/L		98
11) chloroethane	5.381	64	115104	39.83	ug/L		97
12) trichlorofluoromethane	5.842	101	214137	42.55	ug/L		99
13) 1,3-butadiene	4.631	54	146658	38.65	ug/L		97
14) vinyl bromide	5.732	106	77257	39.11	ug/L		98
15) ethyl ether	6.220	74	83574	45.24	ug/L		98
16) acrolein	6.471	56	25449	42.29	ug/L		92
17) freon 113	6.613	151	102829	43.11	ug/L		98
18) 1,1-dichloroethene	6.639	61	207740	42.93	ug/L		99
19) acetone	6.681	43	150365	187.50	ug/L		99
20) acetonitrile	7.111	41	158882	369.91	ug/L		98
21) iodomethane	6.922	142	231281	46.46	ug/L		98
22) carbon disulfide	7.048	76	367185	42.39	ug/L		99
23) methylene chloride	7.347	84	152951	44.92	ug/L		93
24) methyl acetate	7.142	43	113757	46.55	ug/L		99
25) methyl tert butyl ether	7.682	73	401258	46.49	ug/L		99
26) trans-1,2-dichloroethene	7.719	61	209833	44.54	ug/L		99
27) hexane	8.018	56	110852	44.01	ug/L		100
28) di-isopropyl ether	8.264	45	527436	46.59	ug/L		97
29) ethyl tert-butyl ether	8.731	59	488659	46.36	ug/L		99
30) 2-butanone	8.977	72	62254	212.60	ug/L		98
31) 1,1-dichloroethane	8.280	63	262246	44.28	ug/L		99
32) chloroprene	8.390	53	208813	45.76	ug/L		100
33) acrylonitrile	7.667	53	56462	48.98	ug/L		99
34) vinyl acetate	8.270	86	30074	50.20	ug/L	#	85
35) ethyl acetate	8.998	45	21831	47.15	ug/L	#	56
36) 2,2-dichloropropane	9.014	77	183645	40.56	ug/L		98
37) cis-1,2-dichloroethene	9.014	96	152866	44.76	ug/L		97
38) propionitrile	9.072	54	205902	486.58	ug/L		92
39) methyl acrylate	9.082	85	19900	53.12	ug/L	#	85

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\July-2020\7-21\v2e8165-rush\
Data File : 2e162971.d
Acq On : 20 Jul 2020 12:12 pm
Operator : krizhkac
Sample : bsd Inst : VOAMS2E
Misc : MS44525,V2E8165,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 20 12:36:01 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Jul 16 11:01:59 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
40) bromochloromethane	9.323	128	72102	46.35	ug/L		98
41) tetrahydrofuran	9.371	72	17999	48.60	ug/L		97
42) chloroform	9.381	83	237576	43.15	ug/L		99
43) t-butyl formate	9.413	59	111810	44.59	ug/L		98
44) 1,1-dichloropropene	9.811	75	190481	44.13	ug/L		97
45) carbon tetrachloride	9.843	117	174978	44.66	ug/L		97
46) isopropyl acetate	9.995	87	33016	51.20	ug/L		99
48) methacrylonitrile	9.261	67	57270	51.63	ug/L		96
49) 1,1,1-trichloroethane	9.633	97	204437	44.58	ug/L		99
50) cyclohexane	9.711	84	223916	44.47	ug/L	#	88
51) iso-butyl alcohol	9.816	43	64440	514.57	ug/L		96
52) tert amyl alcohol	9.942	73	38678	259.22	ug/L		95
55) 2,2,4-trimethylpentane	10.073	57	517414	43.78	ug/L		99
56) n-butyl alcohol	10.566	56	225766	2925.63	ug/L		99
57) benzene	10.073	78	567530	43.25	ug/L		99
58) tert-amyl methyl ether	10.110	73	461100	46.02	ug/L		98
59) heptane	10.246	57	105004	45.90	ug/L		98
60) 1,2-dichloroethane	10.084	62	178482	44.30	ug/L		97
61) ethyl acrylate	10.786	55	170569	49.55	ug/L		98
62) trichloroethene	10.786	95	135321	45.02	ug/L		98
63) 2-nitropropane	11.552	41	43766	47.52	ug/L	#	80
64) 2-chloroethyl vinyl ether	11.573	63	416643	258.70	ug/L		100
65) methyl methacrylate	11.054	100	34526	50.21	ug/L		98
66) 1,2-dichloropropane	11.048	63	153722	45.15	ug/L		99
67) methylcyclohexane	11.006	83	259880	43.62	ug/L		100
68) dibromomethane	11.211	93	80505	46.20	ug/L		98
69) bromodichloromethane	11.337	83	179090	45.32	ug/L		100
70) epichlorohydrin	11.699	57	68314	243.77	ug/L		95
71) cis-1,3-dichloropropene	11.793	75	231620	46.50	ug/L		100
72) 4-methyl-2-pentanone	11.882	58	217268	203.42	ug/L		97
73) 3-methyl-1-butanol	11.903	70	83855	1146.78	ug/L		97
76) toluene	12.155	92	330438	45.55	ug/L		99
77) ethyl methacrylate	12.343	69	171436	50.99	ug/L		99
78) trans-1,3-dichloropropene	12.349	75	197195	47.94	ug/L		98
79) 1,1,2-trichloroethane	12.564	83	97743	46.31	ug/L		99
80) tetrachloroethene	12.742	164	105585	44.57	ug/L		98
81) 2-hexanone	12.731	58	195282	210.30	ug/L		100
82) 1,3-dichloropropane	12.742	76	198663	45.77	ug/L		100
83) butyl acetate	12.805	56	93302	50.41	ug/L		99
84) dibromochloromethane	13.009	129	125274	47.52	ug/L		98
85) 1,2-dibromoethane	13.156	107	151386	47.88	ug/L		97
86) n-butyl ether	13.528	57	599889	46.66	ug/L		99
87) chlorobenzene	13.612	112	347250	45.54	ug/L		98
88) 1,1,1,2-tetrachloroethane	13.675	131	124969	47.61	ug/L		97
89) ethylbenzene	13.670	91	593813	45.77	ug/L		99
90) m,p-xylene	13.775	106	453422	92.64	ug/L		100
91) o-xylene	14.189	91	479173	46.11	ug/L		99
92) styrene	14.199	104	373655	49.59	ug/L		100
93) butyl acrylate	14.016	55	258702	50.39	ug/L		99
94) bromoform	14.462	173	79062	50.92	ug/L		99
95) isopropylbenzene	14.525	105	573418	46.64	ug/L		99
96) cis-1,4-dichloro-2-butene	14.598	75	49387	48.59	ug/L		97
99) bromobenzene	14.923	156	142682	44.94	ug/L		92
100) 1,1,2,2-tetrachloroethane	14.829	83	143611	45.84	ug/L		97
101) trans-1,4-dichloro-2-b...	14.871	53	38677	48.83	ug/L		97
102) 1,2,3-trichloropropane	14.902	110	39650	47.91	ug/L		98
103) n-propylbenzene	14.934	91	665614	45.18	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\July-2020\7-21\v2e8165-rush\
Data File : 2e162971.d
Acq On : 20 Jul 2020 12:12 pm
Operator : krizhkac
Sample : bsd Inst : VOAMS2E
Misc : MS44525,V2E8165,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 20 12:36:01 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Jul 16 11:01:59 2020
Response via : Initial Calibration

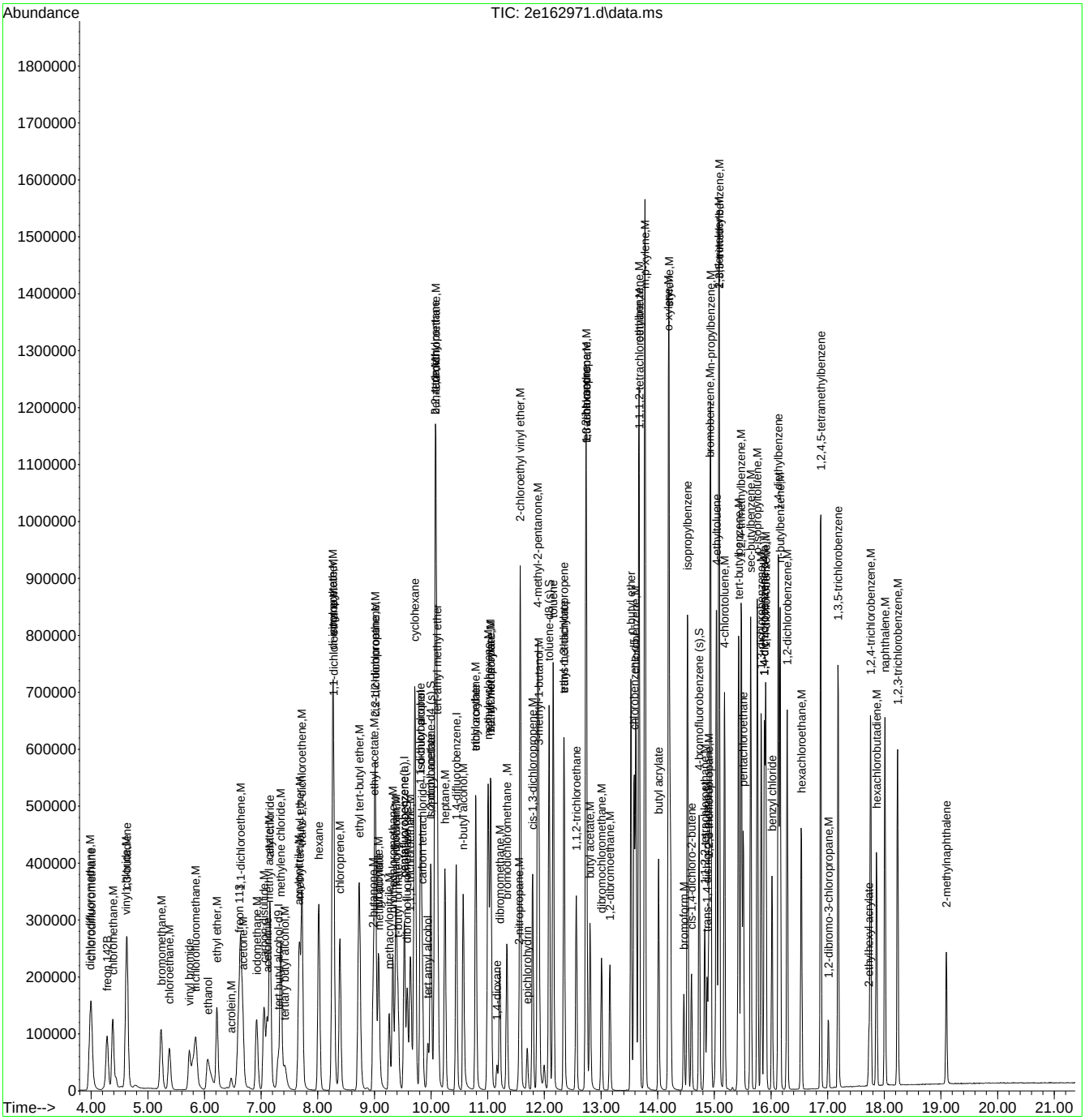
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 2-chlorotoluene	15.080	126	135884	45.63	ug/L	99
105) 4-chlorotoluene	15.180	91	401469	44.32	ug/L	99
106) 1,3,5-trimethylbenzene	15.086	105	476853	46.12	ug/L	99
107) tert-butylbenzene	15.432	119	413723	45.60	ug/L	97
108) 1,2,4-trimethylbenzene	15.474	105	474619	46.62	ug/L	99
109) sec-butylbenzene	15.641	105	585250	45.46	ug/L	100
110) 1,3-dichlorobenzene	15.825	146	260971	45.55	ug/L	99
111) p-isopropyltoluene	15.757	119	498002	46.88	ug/L	99
112) 1,4-dichlorobenzene	15.909	146	266715	45.28	ug/L	99
113) 1,2-dichlorobenzene	16.286	146	257755	45.55	ug/L	99
114) n-butylbenzene	16.160	92	255148	48.31	ug/L	98
115) 1,2-dibromo-3-chloropr...	17.015	157	31413	51.19	ug/L	97
116) 1,3,5-trichlorobenzene	17.183	180	219508	47.08	ug/L	97
117) 1,2,4-trichlorobenzene	17.759	180	196483	52.39	ug/L	99
118) 2-ethylhexyl acrylate	17.728	70	22401	9.13	ug/L	96
119) hexachlorobutadiene	17.864	225	91840	44.83	ug/L	99
120) naphthalene	18.011	128	458605	54.59	ug/L	100
121) 1,2,3-trichlorobenzene	18.237	180	184999	53.17	ug/L	100
122) hexachloroethane	16.538	201	82806	48.17	ug/L	98
123) benzyl chloride	16.019	91	256658	50.06	ug/L	98
124) 2-methylnaphthalene	19.096	142	113159	29.38	ug/L	98
128) freon 142B	4.280	65	163985	49.33	ug/L	99
129) allyl chloride	7.158	76	87074	51.14	ug/L	91
131) 4-ethyltoluene	15.038	105	556439	50.72	ug/L	100
132) pentachloroethane	15.510	167	92481	52.24	ug/L	96
133) 1,4-diethylbenzene	16.129	119	310796	53.17	ug/L	100
134) 1,2,4,5-tetramethylben...	16.879	119	517831	53.13	ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\July-2020\7-21\v2e8165-rush\
Data File : 2e162971.d
Acq On : 20 Jul 2020 12:12 pm
Operator : krizhkac
Sample : bsd Inst : VOAMS2E
Misc : MS44525,V2E8165,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 20 12:36:01 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Jul 16 11:01:59 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\janellac\07-28-2020\v4d4597\
Data File : 4d103627.d
Acq On : 27 Jul 2020 9:35 am
Operator : krizhkac
Sample : bs Inst : MS4D
Misc : MS44684,V4D4597,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Results File: M4D4496.RES
Quant Time: Jul 27 22:08:16 2020
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 16:29:00 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	8.640	65	192039	500.00	ug/L	0.00
5) pentafluorobenzene	11.126	168	228869	50.00	ug/L	0.00
51) 1,4-difluorobenzene	12.017	114	324490	50.00	ug/L	0.00
73) chlorobenzene-d5	14.911	117	251323	50.00	ug/L	0.00
96) 1,4-dichlorobenzene-d4	17.019	152	115580	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	11.131	113	110637	50.35	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.70%			
52) 1,2-dichloroethane-d4 (s)	11.555	65	100644	44.54	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 89.08%			
74) toluene-d8 (s)	13.553	98	332236	48.97	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 97.94%			
97) 4-bromofluorobenzene (s)	15.949	95	109453	46.94	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 93.88%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	8.771	59	112819	260.70	ug/L	97
3) ethanol	7.178	45	240118	5370.95	ug/L	99
4) 1,4-dioxane	12.672	88	50661	1430.39	ug/L	95
7) dichlorodifluoromethane	4.603	85	94302	48.83	ug/L	99
8) chloromethane	5.117	50	74750	39.39	ug/L	96
9) vinyl chloride	5.358	62	84550	44.20	ug/L	97
10) bromomethane	6.134	94	22308	35.03	ug/L	99
11) chloroethane	6.381	64	56727	48.45	ug/L	98
12) trichlorofluoromethane	6.947	101	122335	44.88	ug/L	97
13) vinyl bromide	6.795	106	42785	33.05	ug/L	99
14) ethyl ether	7.476	74	51174	51.51	ug/L	95
15) acrolein	7.686	56	18957	44.69	ug/L	99
16) freon 113	7.933	151	60603	50.44	ug/L	96
17) 1,1-dichloroethene	7.938	96	74084	46.57	ug/L	90
18) acetone	7.933	43	154809	183.31	ug/L	95
19) acetonitrile	8.378	41	195983	476.39	ug/L	99
20) iodomethane	8.216	142	35410	36.84	ug/L	92
21) carbon disulfide	8.389	76	179973	42.48	ug/L	97
22) methylene chloride	8.703	84	89890	50.27	ug/L	92
23) methyl acetate	8.504	43	106948	48.69	ug/L	96
24) methyl tert butyl ether	9.144	73	262359	48.49	ug/L	99
25) trans-1,2-dichloroethene	9.170	96	81102	47.71	ug/L	92
26) di-isopropyl ether	9.831	45	271769	46.90	ug/L	96
27) 2-butanone	10.507	72	74493	206.85	ug/L #	81
28) 1,1-dichloroethane	9.768	63	146047	46.53	ug/L	99
29) chloroprene	9.920	53	103959	42.36	ug/L	90
30) acrylonitrile	9.028	53	46923	51.07	ug/L	96
31) hexane	9.589	56	52092	48.77	ug/L	94
32) vinyl acetate	9.773	86	25127	54.89	ug/L #	64
33) ethyl tert-butyl ether	10.329	59	172220	30.50	ug/L	97
34) ethyl acetate	10.570	70	16757	53.41	ug/L #	38
35) 2,2-dichloropropane	10.585	77	114173	46.55	ug/L	93
36) cis-1,2-dichloroethene	10.554	96	95499	49.93	ug/L	92
37) methyl acrylate	10.638	55	116831	50.17	ug/L	99
38) propionitrile	10.559	54	219866	505.35	ug/L	98
39) bromochloromethane	10.863	128	50792	55.27	ug/L	91
40) tetrahydrofuran	10.937	72	20463	52.54	ug/L #	81
41) chloroform	10.932	85	97845	44.96	ug/L	96
42) t-butyl formate	11.010	59	65720	31.50	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\janellac\07-28-2020\v4d4597\
Data File : 4d103627.d
Acq On : 27 Jul 2020 9:35 am
Operator : krizhkac
Sample : bs Inst : MS4D
Misc : MS44684,V4D4597,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Results File: M4D4496.RES
Quant Time: Jul 27 22:08:16 2020
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 16:29:00 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) methacrylonitrile	10.790	67	53424	52.93	ug/L		87
45) 1,1,1-trichloroethane	11.236	97	117585	46.02	ug/L		98
46) cyclohexane	11.351	84	99738	49.67	ug/L		98
47) 1,1-dichloropropene	11.424	75	101729	44.90	ug/L		96
48) isobutyl alcohol	11.356	74	9851	589.31	ug/L	#	62
49) carbon tetrachloride	11.456	117	103876	46.10	ug/L		98
50) tert amyl alcohol	11.503	55	34368	247.16	ug/L		96
53) n-butyl alcohol	12.085	56	298765	2802.56	ug/L		95
54) 2,2,4-trimethylpentane	11.744	57	47336	13.01	ug/L	#	53
55) benzene	11.671	78	300976	46.73	ug/L		99
56) tert-amyl methyl ether	11.734	87	42454	34.77	ug/L		99
57) heptane	11.907	71	46087	51.85	ug/L		97
58) isopropyl acetate	11.597	87	28327	55.59	ug/L	#	71
59) 1,2-dichloroethane	11.639	62	108329	43.18	ug/L		99
60) trichloroethene	12.352	130	83214	50.82	ug/L		97
61) ethyl acrylate	12.337	55	145624	49.78	ug/L		99
62) 2-nitropropane	12.997	43	32356	47.43	ug/L		99
63) 2-chloroethyl vinyl ether	13.050	63	216151	176.34	ug/L		99
64) methyl methacrylate	12.588	100	30931	54.63	ug/L	#	78
65) 1,2-dichloropropane	12.573	63	81250	50.21	ug/L		99
66) dibromomethane	12.698	93	59214	52.72	ug/L		91
67) methylcyclohexane	12.604	83	102909	49.11	ug/L		95
68) bromodichloromethane	12.819	83	112667	51.32	ug/L		99
69) epichlorohydrin	13.139	57	57516	197.27	ug/L		96
70) cis-1,3-dichloropropene	13.254	75	133866	52.79	ug/L		94
71) 4-methyl-2-pentanone	13.349	58	193253	212.62	ug/L		92
72) 3-methyl-1-butanol	13.333	70	108040	1184.62	ug/L		91
75) toluene	13.616	92	171325	47.01	ug/L		99
76) trans-1,3-dichloropropene	13.752	75	121766	51.88	ug/L		97
77) ethyl methacrylate	13.773	69	118774	51.25	ug/L		95
78) 1,1,2-trichloroethane	13.941	83	67402	54.05	ug/L		97
79) tetrachloroethene	14.161	164	64427	47.80	ug/L		97
80) 1,3-dichloropropane	14.114	76	121483	50.86	ug/L		90
81) 2-hexanone	14.114	58	201569	210.47	ug/L		97
82) butyl acetate	14.198	56	73746	52.86	ug/L		91
83) dibromochloromethane	14.355	129	96178	56.71	ug/L		100
84) 1,2-dibromoethane	14.497	107	124949	66.01	ug/L		100
85) n-butyl ether	14.895	57	261550	43.50	ug/L		98
86) chlorobenzene	14.937	112	192620	49.53	ug/L		99
87) 1,1,1,2-tetrachloroethane	14.984	131	77266	54.63	ug/L		99
88) ethylbenzene	15.005	91	294880	46.31	ug/L		98
89) m,p-xylene	15.100	106	234456	98.79	ug/L		92
90) o-xylene	15.477	106	114407	49.40	ug/L		95
91) styrene	15.472	104	198346	51.33	ug/L		97
92) bromoform	15.682	173	76165	59.56	ug/L		98
93) butyl acrylate	15.299	55	166860	50.11	ug/L		98
94) isopropylbenzene	15.792	105	268104	47.83	ug/L		98
95) cis-1,4-dichloro-2-butene	15.802	88	39307	47.73	ug/L		96
98) bromobenzene	16.133	156	86485	49.93	ug/L		99
99) 1,1,2,2-tetrachloroethane	16.007	83	120128	51.03	ug/L		100
100) trans-1,4-dichloro-2-b...	16.049	53	27894	44.58	ug/L		84
101) 1,2,3-trichloropropane	16.080	110	32739	50.61	ug/L		96
102) n-propylbenzene	16.159	91	306552	44.71	ug/L		99
103) 2-chlorotoluene	16.285	126	71339	47.86	ug/L		93
104) 4-chlorotoluene	16.369	91	194740	46.08	ug/L		99
105) 1,3,5-trimethylbenzene	16.295	105	215958	46.19	ug/L		97
106) tert-butylbenzene	16.620	134	41422	47.97	ug/L	#	86

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\janellac\07-28-2020\v4d4597\
Data File : 4d103627.d
Acq On : 27 Jul 2020 9:35 am
Operator : krizhkac
Sample : bs Inst : MS4D
Misc : MS44684,V4D4597,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Results File: M4D4496.RES
Quant Time: Jul 27 22:08:16 2020
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 16:29:00 2020
Response via : Initial Calibration

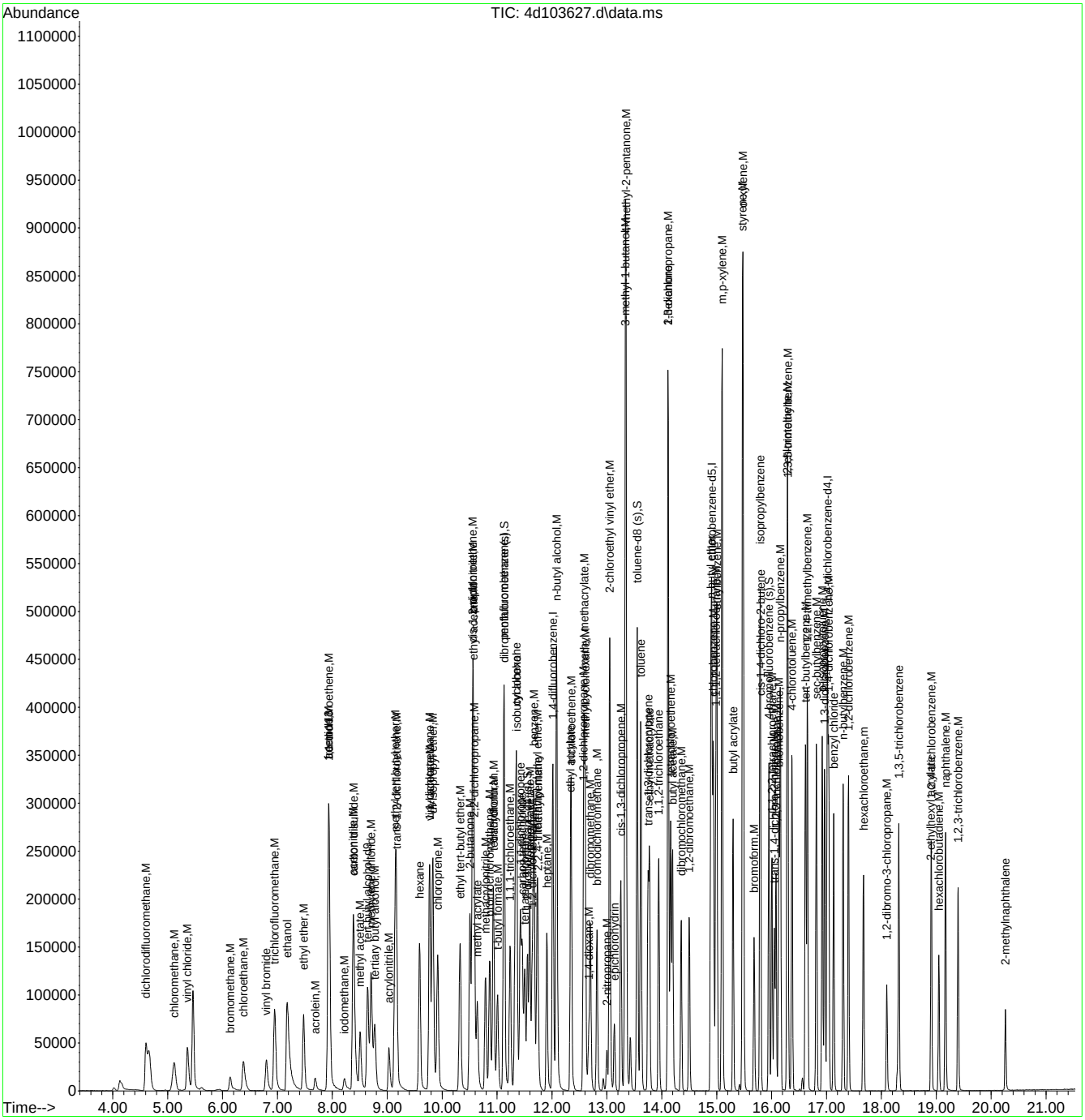
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
107) 1,2,4-trimethylbenzene	16.652	105	218399	46.26	ug/L	99
108) sec-butylbenzene	16.814	105	247545	46.27	ug/L	98
109) 1,3-dichlorobenzene	16.966	146	139167	48.96	ug/L	99
110) p-isopropyltoluene	16.924	119	209498	47.22	ug/L	98
111) 1,4-dichlorobenzene	17.040	146	142739	49.39	ug/L	99
112) benzyl chloride	17.134	91	202183	56.63	ug/L	97
113) 1,2-dichlorobenzene	17.401	146	136020	50.61	ug/L	98
114) n-butylbenzene	17.302	92	97025	47.95	ug/L	99
115) 1,2-dibromo-3-chloropr...	18.099	157	33651	54.24	ug/L	96
116) 1,3,5-trichlorobenzene	18.319	180	88513	50.72	ug/L	99
117) 2-ethylhexyl acrylate	18.901	70	8190	9.29	ug/L	98
118) 1,2,4-trichlorobenzene	18.911	180	75992	52.40	ug/L	99
119) hexachlorobutadiene	19.048	225	29203	44.28	ug/L	98
120) naphthalene	19.168	128	208948	50.11	ug/L	99
121) 1,2,3-trichlorobenzene	19.399	180	68106	51.43	ug/L	98
122) hexachloroethane	17.674	201	39612	50.99	ug/L	99
123) 2-methylnaphthalene	20.259	142	41879	25.24	ug/L	96

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\janellac\07-28-2020\v4d4597\
Data File : 4d103627.d
Acq On : 27 Jul 2020 9:35 am
Operator : krizhkac
Sample : bs Inst : MS4D
Misc : MS44684,V4D4597,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Results File: M4D4496.RES
Quant Time: Jul 27 22:08:16 2020
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 16:29:00 2020
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
MoHui Huang
07/21/20 11:21

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\July-2020\7-21\v2e8165-rush\
Data File : 2e162980.d
Acq On : 20 Jul 2020 4:50 pm
Operator : krizhkac
Sample : jd10196-7ms Inst : VOAMS2E
Misc : MS44511,V2E8165,5,,,,10
ALS Vial : 15 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 21 01:00:21 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Fri Jul 17 14:25:39 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.294	65	109889	500.00	ug/L	0.00
5) pentafluorobenzene	9.528	168	238713	50.00	ug/L	0.00
53) 1,4-difluorobenzene	10.440	114	356594	50.00	ug/L	0.00
74) chlorobenzene-d5	13.586	117	287012	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	15.883	152	148214	50.00	ug/L	0.00
127) pentafluorobenzene(a)	9.528	168	238713	50.00	ug/L	0.00
130) 1,4-dichlorobenzene-d4(a)	15.883	152	148214	50.00	ug/L	0.00
System Monitoring Compounds						
47) dibromofluoromethane (s)	9.575	113	119745	50.29	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.58%			
54) 1,2-dichloroethane-d4 (s)	9.995	65	133951	49.55	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 99.10%			
75) toluene-d8 (s)	12.081	98	453513	49.85	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.70%			
98) 4-bromofluorobenzene (s)	14.729	95	161533	48.26	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 96.52%			
Target Compounds						Qvalue
2) ethanol	6.052	45	119192	3795.08	ug/L	96
3) tertiary butyl alcohol	7.415	59	72244	199.94	ug/L	95
4) 1,4-dioxane	11.159	88	23741	957.48	ug/L	91
6) chlorodifluoromethane	3.997	51	167875	33.73	ug/L	97
7) dichlorodifluoromethane	3.970	85	175072	33.98	ug/L	99
8) chloromethane	4.374	50	201205	35.74	ug/L	99
9) vinyl chloride	4.610	62	181575	36.24	ug/L	99
10) bromomethane	5.229	94	117050	39.88	ug/L	96
11) chloroethane	5.375	64	106126	37.12	ug/L	97
12) trichlorofluoromethane	5.832	101	181829	36.52	ug/L	100
13) 1,3-butadiene	4.626	54	121106	32.26	ug/L	96
14) vinyl bromide	5.722	106	69430	35.53	ug/L	99
15) ethyl ether	6.214	74	77057	42.16	ug/L	99
16) acrolein	6.466	56	22119	37.15	ug/L	97
17) freon 113	6.602	151	84216	35.69	ug/L	96
18) 1,1-dichloroethene	6.639	61	179218	37.44	ug/L	99
19) acetone	6.671	43	130915	165.01	ug/L	99
20) acetonitrile	7.106	41	178487	420.05	ug/L	98
21) iodomethane	6.917	142	202360	41.09	ug/L	99
22) carbon disulfide	7.043	76	322412	37.62	ug/L	99
23) methylene chloride	7.342	84	140563	41.73	ug/L	97
24) methyl acetate	7.142	43	102822	42.53	ug/L	97
25) methyl tert butyl ether	7.672	73	367701	43.06	ug/L	99
26) trans-1,2-dichloroethene	7.719	61	185904	39.89	ug/L	96
27) hexane	8.018	56	83467	33.50	ug/L	98
28) di-isopropyl ether	8.259	45	474671	42.38	ug/L	98
29) ethyl tert-butyl ether	8.726	59	442043	42.39	ug/L	99
30) 2-butanone	8.977	72	55236	190.68	ug/L	96
31) 1,1-dichloroethane	8.275	63	239315	40.85	ug/L	97
32) chloroprene	8.385	53	178668	39.58	ug/L	98
33) acrylonitrile	7.667	53	51243	44.94	ug/L	95
34) vinyl acetate	8.264	86	28628	48.30	ug/L	96
35) ethyl acetate	8.998	45	21212	46.31	ug/L	95
36) 2,2-dichloropropane	9.019	77	165988	37.05	ug/L	99
37) cis-1,2-dichloroethene	9.014	96	165315	48.93	ug/L	94
38) propionitrile	9.067	54	180613	431.44	ug/L	97
39) methyl acrylate	9.082	85	17529	47.30	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\July-2020\7-21\v2e8165-rush\
Data File : 2e162980.d
Acq On : 20 Jul 2020 4:50 pm
Operator : krizhkac
Sample : jd10196-7ms Inst : VOAMS2E
Misc : MS44511,V2E8165,5,,,,10
ALS Vial : 15 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 21 01:00:21 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Fri Jul 17 14:25:39 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
40) bromochloromethane	9.323	128	66239	43.04	ug/L		98
41) tetrahydrofuran	9.365	72	16018	43.71	ug/L		88
42) chloroform	9.376	83	216675	39.78	ug/L		99
43) t-butyl formate	9.407	59	81307	32.78	ug/L		93
44) 1,1-dichloropropene	9.811	75	163846	38.37	ug/L		96
45) carbon tetrachloride	9.837	117	150330	38.78	ug/L		99
46) isopropyl acetate	9.995	87	29235	45.83	ug/L		95
48) methacrylonitrile	9.261	67	50389	45.92	ug/L		99
49) 1,1,1-trichloroethane	9.633	97	178697	39.39	ug/L		98
50) cyclohexane	9.706	84	185515	37.24	ug/L		95
51) iso-butyl alcohol	9.816	43	49575	400.16	ug/L		95
52) tert amyl alcohol	9.942	73	29891	202.50	ug/L		94
55) 2,2,4-trimethylpentane	10.073	57	393168	33.78	ug/L		99
56) n-butyl alcohol	10.566	56	163745	2154.69	ug/L		99
57) benzene	10.073	78	517665	40.06	ug/L		99
58) tert-amyl methyl ether	10.105	73	421618	42.73	ug/L		99
59) heptane	10.241	57	80931	35.92	ug/L		98
60) 1,2-dichloroethane	10.084	62	163726	41.27	ug/L		99
61) ethyl acrylate	10.786	55	153167m	45.18	ug/L		
62) trichloroethene	10.786	95	721415	243.74	ug/L		99
63) 2-nitropropane	11.552	41	24736	27.27	ug/L	#	6
65) methyl methacrylate	11.054	100	31188	46.05	ug/L	#	89
66) 1,2-dichloropropane	11.048	63	139671	41.66	ug/L		99
67) methylcyclohexane	11.007	83	204516	34.86	ug/L		99
68) dibromomethane	11.211	93	74420	43.36	ug/L		99
69) bromodichloromethane	11.337	83	163831	42.10	ug/L		98
70) epichlorohydrin	11.699	57	57105	206.91	ug/L		97
71) cis-1,3-dichloropropene	11.793	75	207262	42.26	ug/L		99
72) 4-methyl-2-pentanone	11.882	58	191275	181.85	ug/L		98
73) 3-methyl-1-butanol	11.903	70	62442	867.13	ug/L		96
76) toluene	12.155	92	298434	41.95	ug/L		97
77) ethyl methacrylate	12.343	69	153742	46.62	ug/L		98
78) trans-1,3-dichloropropene	12.349	75	180493	44.73	ug/L		98
79) 1,1,2-trichloroethane	12.564	83	89793	43.37	ug/L		98
80) tetrachloroethene	12.737	164	95331	41.03	ug/L		97
81) 2-hexanone	12.731	58	171616	188.43	ug/L		99
82) 1,3-dichloropropane	12.742	76	182148	42.79	ug/L		97
83) butyl acetate	12.805	56	83894	46.22	ug/L		100
84) dibromochloromethane	13.009	129	114078	44.12	ug/L		99
85) 1,2-dibromoethane	13.156	107	138308	44.60	ug/L		100
86) n-butyl ether	13.528	57	529324	41.98	ug/L		99
87) chlorobenzene	13.612	112	314305	42.02	ug/L		98
88) 1,1,1,2-tetrachloroethane	13.675	131	112399	43.66	ug/L		98
89) ethylbenzene	13.670	91	532979	41.89	ug/L		100
90) m,p-xylene	13.775	106	409396	85.29	ug/L		99
91) o-xylene	14.189	91	433025	42.49	ug/L		99
92) styrene	14.200	104	339161	45.90	ug/L		99
93) butyl acrylate	14.016	55	230696	45.82	ug/L		100
94) bromoform	14.462	173	72186	47.40	ug/L		99
95) isopropylbenzene	14.530	105	503990	41.79	ug/L		99
96) cis-1,4-dichloro-2-butene	14.598	75	44372	44.51	ug/L		96
99) bromobenzene	14.923	156	131382	41.57	ug/L		97
100) 1,1,2,2-tetrachloroethane	14.829	83	132774	42.57	ug/L		97
101) trans-1,4-dichloro-2-b...	14.871	53	35015	44.40	ug/L		99
102) 1,2,3-trichloropropane	14.902	110	35945	43.62	ug/L		99
103) n-propylbenzene	14.934	91	589486	40.19	ug/L		99
104) 2-chlorotoluene	15.080	126	122844	41.43	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\July-2020\7-21\v2e8165-rush\
Data File : 2e162980.d
Acq On : 20 Jul 2020 4:50 pm
Operator : krizhkac
Sample : jd10196-7ms Inst : VOAMS2E
Misc : MS44511,V2E8165,5,,,,10
ALS Vial : 15 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 21 01:00:21 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Fri Jul 17 14:25:39 2020
Response via : Initial Calibration

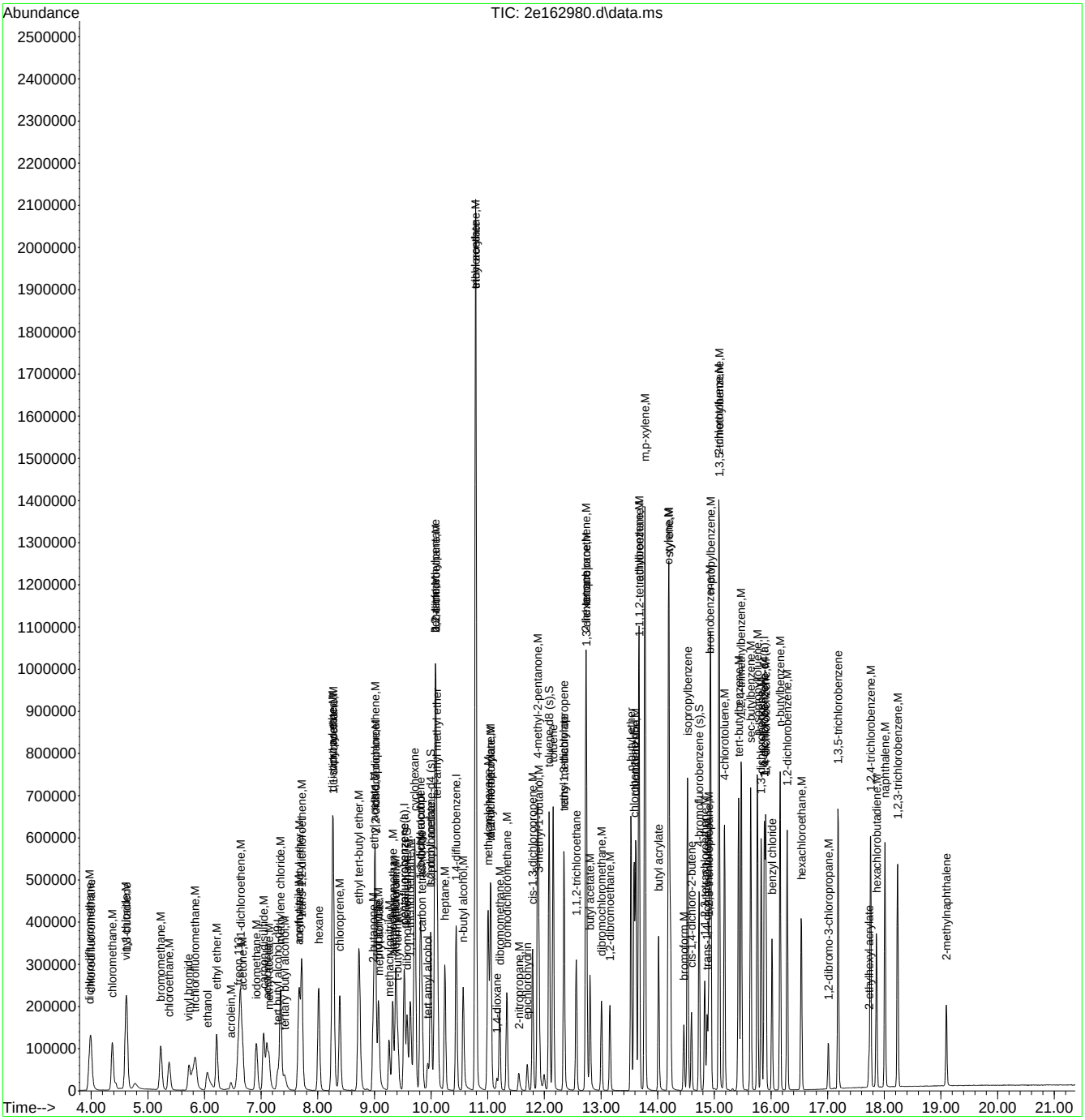
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) 4-chlorotoluene	15.180	91	365021	40.48	ug/L	99
106) 1,3,5-trimethylbenzene	15.086	105	430603	41.83	ug/L	99
107) tert-butylbenzene	15.432	119	361282	40.00	ug/L	98
108) 1,2,4-trimethylbenzene	15.474	105	430214	42.45	ug/L	99
109) sec-butylbenzene	15.641	105	504729	39.38	ug/L	99
110) 1,3-dichlorobenzene	15.825	146	238679	41.84	ug/L	97
111) p-isopropyltoluene	15.762	119	437095	41.33	ug/L	99
112) 1,4-dichlorobenzene	15.909	146	242943	41.43	ug/L	99
113) 1,2-dichlorobenzene	16.286	146	239679	42.54	ug/L	100
114) n-butylbenzene	16.160	92	216658	41.20	ug/L	98
115) 1,2-dibromo-3-chloropr...	17.015	157	28107	46.01	ug/L	97
116) 1,3,5-trichlorobenzene	17.183	180	201733	43.46	ug/L	98
117) 1,2,4-trichlorobenzene	17.760	180	177927	47.66	ug/L	98
118) 2-ethylhexyl acrylate	17.728	70	17075	7.25	ug/L	92
119) hexachlorobutadiene	17.864	225	78471	38.48	ug/L	97
120) naphthalene	18.011	128	417801	49.96	ug/L	100
121) 1,2,3-trichlorobenzene	18.237	180	166458	48.06	ug/L	99
122) hexachloroethane	16.538	201	72538	42.39	ug/L	98
123) benzyl chloride	16.019	91	241420	47.29	ug/L	98
124) 2-methylnaphthalene	19.097	142	96397	25.14	ug/L	96

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\July-2020\7-21\v2e8165-rush\
Data File : 2e162980.d
Acq On : 20 Jul 2020 4:50 pm
Operator : krizhkac
Sample : jd10196-7ms Inst : VOAMS2E
Misc : MS44511,V2E8165,5,,,,10
ALS Vial : 15 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 21 01:00:21 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Fri Jul 17 14:25:39 2020
Response via : Initial Calibration



Manual Integration Approval Summary

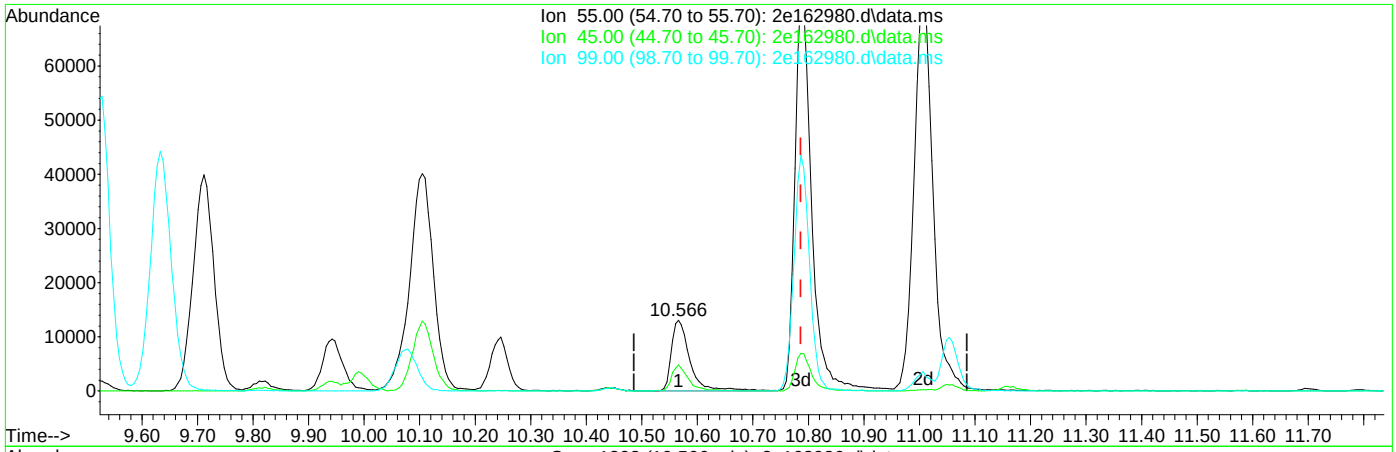
Sample Number: JD10196-7MS
Lab FileID: 2E162980.D
Injection Time: 07/20/20 16:50
Method: SW846 8260C
Analyst approved: 07/21/20 01:20 Lotus Acosta
Supervisor approved: 07/21/20 11:21 MoHui Huang

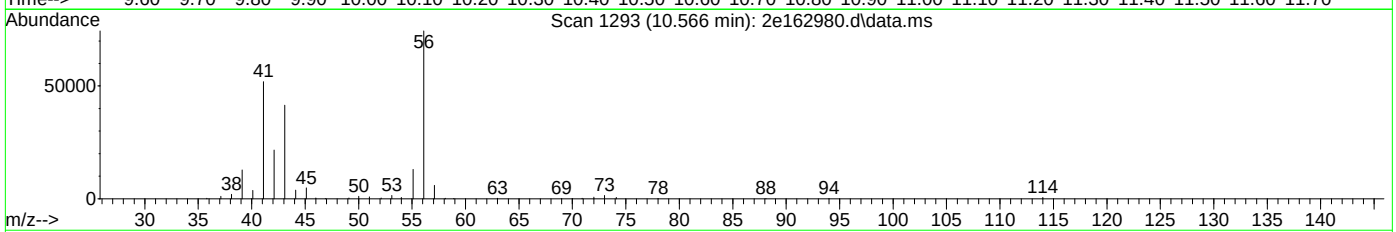
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Acrylate	140-88-5		10.79	Missed peak

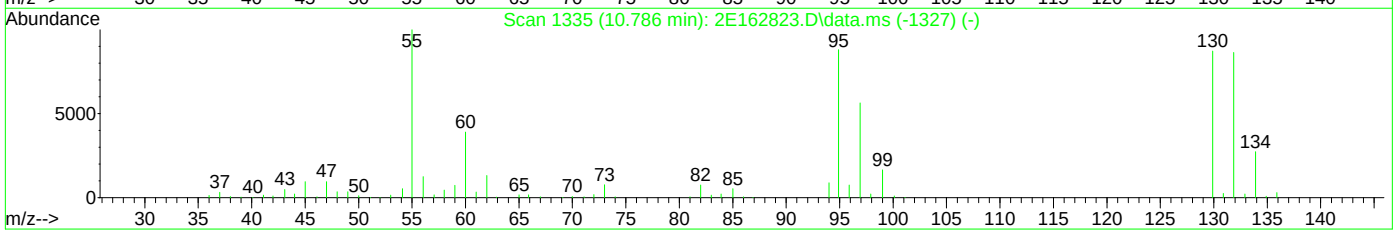
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\July-2020\7-21\v2e8165-rush\
Data File : 2e162980.d
Acq On : 20 Jul 2020 4:50 pm
Operator : krizhkac
Sample : jd10196-7ms Inst : VOAMS2E
Misc : MS44511,V2E8165,5,,,,10
ALS Vial : 15 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 21 00:58:45 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Fri Jul 17 14:25:39 2020
Response via : Initial Calibration







TIC: 2e162980.d\data.ms

(61) ethyl acrylate

10.566min (-0.220) 8.94ug/L

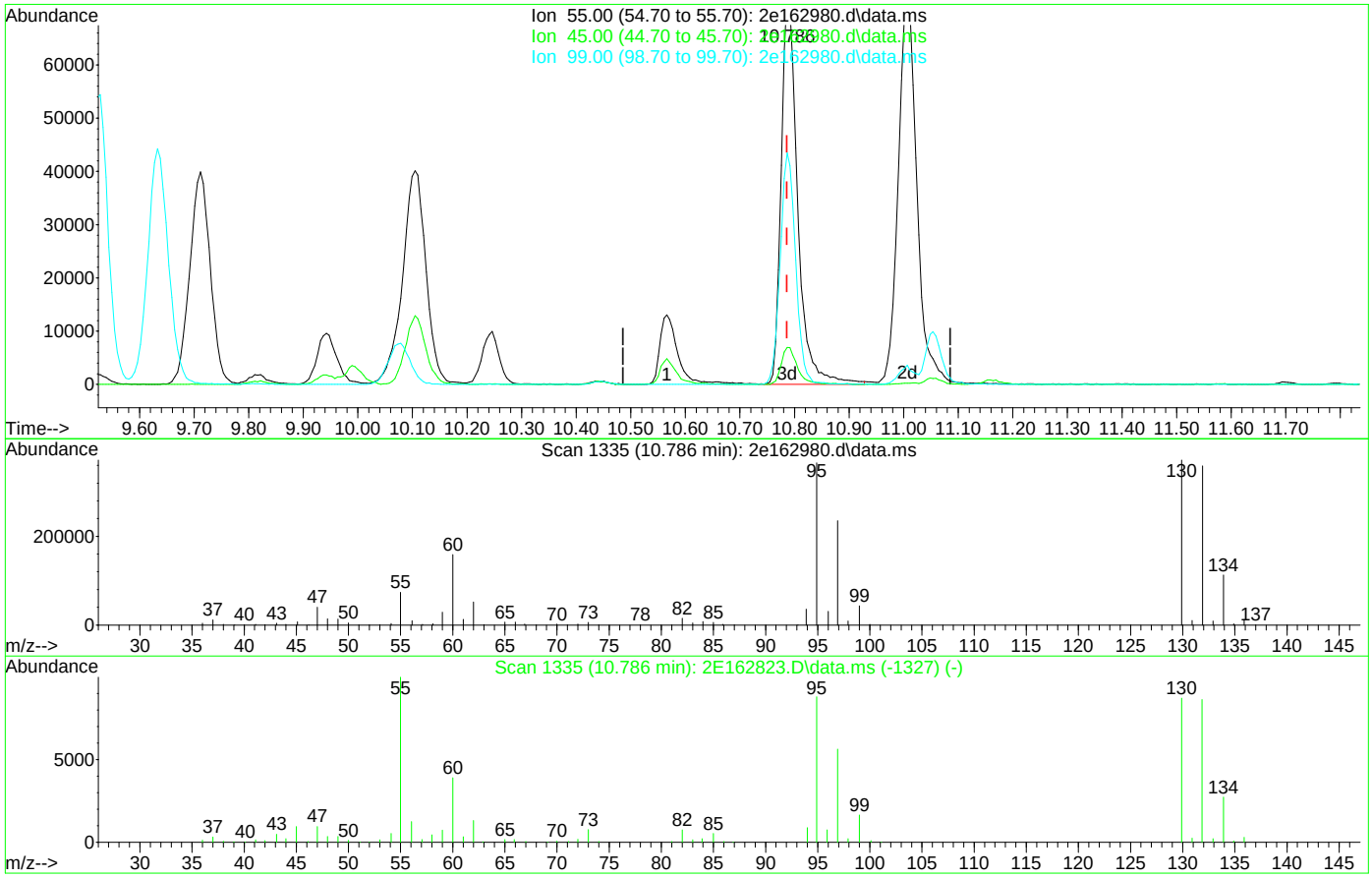
response 30314

Ion	Exp%	Act%
55.00	100	100
45.00	9.40	37.04
99.00	16.40	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\July-2020\7-21\v2e8165-rush\
Data File : 2e162980.d
Acq On : 20 Jul 2020 4:50 pm
Operator : krizhkac
Sample : jd10196-7ms Inst : VOAMS2E
Misc : MS44511,V2E8165,5,,,,10
ALS Vial : 15 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 21 00:58:45 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Fri Jul 17 14:25:39 2020
Response via : Initial Calibration



TIC: 2e162980.d\data.ms

(61) ethyl acrylate

10.786min (+0.000) 45.18ug/L m

response 153167

Ion	Exp%	Act%
55.00	100	100
45.00	9.40	9.49
99.00	16.40	59.26#
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
MoHui Huang 07/21/20 11:21

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\July-2020\7-21\v2e8165-rush\
Data File : 2e162981.d
Acq On : 20 Jul 2020 5:20 pm
Operator : krizhkac
Sample : jd10196-7msd Inst : VOAMS2E
Misc : MS44511,V2E8165,5,,,,10
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 21 01:02:28 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Jul 16 11:01:59 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	7.294	65	116971	500.00	ug/L		0.00
5) pentafluorobenzene	9.523	168	244392	50.00	ug/L		0.00
53) 1,4-difluorobenzene	10.440	114	362281	50.00	ug/L		0.00
74) chlorobenzene-d5	13.581	117	292026	50.00	ug/L		0.00
97) 1,4-dichlorobenzene-d4	15.882	152	147880	50.00	ug/L		0.00
127) pentafluorobenzene(a)	9.523	168	244392	50.00	ug/L		0.00
130) 1,4-dichlorobenzene-d4(a)	15.882	152	147880	50.00	ug/L		0.00
System Monitoring Compounds							
47) dibromofluoromethane (s)	9.575	113	121683	49.91	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.82%				
54) 1,2-dichloroethane-d4 (s)	9.995	65	134401	48.93	ug/L		0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 97.86%				
75) toluene-d8 (s)	12.081	98	461777	49.89	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.78%				
98) 4-bromofluorobenzene (s)	14.729	95	164988	49.40	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 98.80%				
Target Compounds							Qvalue
2) ethanol	6.046	45	128610	3847.02	ug/L		99
3) tertiary butyl alcohol	7.415	59	76809	199.70	ug/L		96
4) 1,4-dioxane	11.164	88	27256	1032.69	ug/L		94
6) chlorodifluoromethane	3.991	51	172393	33.83	ug/L		98
7) dichlorodifluoromethane	3.965	85	182585	34.61	ug/L		99
8) chloromethane	4.369	50	204740	35.52	ug/L		99
9) vinyl chloride	4.605	62	187744	36.61	ug/L		100
10) bromomethane	5.223	94	116226	38.68	ug/L		97
11) chloroethane	5.370	64	106496	36.39	ug/L		99
12) trichlorofluoromethane	5.832	101	188348	36.95	ug/L		97
13) 1,3-butadiene	4.626	54	128439	33.42	ug/L		99
14) vinyl bromide	5.727	106	71163	35.57	ug/L		98
15) ethyl ether	6.214	74	77963	41.67	ug/L		96
16) acrolein	6.466	56	22578	37.04	ug/L		92
17) freon 113	6.607	151	90627	37.52	ug/L		96
18) 1,1-dichloroethene	6.634	61	186999	38.16	ug/L		98
19) acetone	6.670	43	131397	161.77	ug/L		100
20) acetonitrile	7.100	41	179635	412.92	ug/L		99
21) iodomethane	6.912	142	214316	42.51	ug/L		99
22) carbon disulfide	7.043	76	333919	38.06	ug/L		100
23) methylene chloride	7.342	84	142568	41.34	ug/L		99
24) methyl acetate	7.142	43	102169	41.28	ug/L		99
25) methyl tert butyl ether	7.672	73	372798	42.64	ug/L		99
26) trans-1,2-dichloroethene	7.714	61	190164	39.85	ug/L		99
27) hexane	8.018	56	90658	35.54	ug/L		97
28) di-isopropyl ether	8.259	45	484763	42.27	ug/L		100
29) ethyl tert-butyl ether	8.726	59	451324	42.27	ug/L		99
30) 2-butanone	8.972	72	55108	185.81	ug/L		95
31) 1,1-dichloroethane	8.275	63	242983	40.51	ug/L		99
32) chloroprene	8.385	53	184708	39.96	ug/L		98
33) acrylonitrile	7.661	53	50968	43.66	ug/L		99
34) vinyl acetate	8.264	86	28998	47.79	ug/L	#	81
35) ethyl acetate	8.998	45	21209	45.23	ug/L	#	57
36) 2,2-dichloropropane	9.014	77	166589	36.32	ug/L		98
37) cis-1,2-dichloroethene	9.014	96	171652	49.62	ug/L		91
38) propionitrile	9.066	54	182835	426.60	ug/L		100
39) methyl acrylate	9.077	85	18317	48.27	ug/L	#	76

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\July-2020\7-21\v2e8165-rush\
Data File : 2e162981.d
Acq On : 20 Jul 2020 5:20 pm
Operator : krizhkac
Sample : jd10196-7msd Inst : VOAMS2E
Misc : MS44511,V2E8165,5,,,,10
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 21 01:02:28 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Jul 16 11:01:59 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
40) bromochloromethane	9.323	128	66928	42.48	ug/L		97
41) tetrahydrofuran	9.365	72	16771	44.71	ug/L		87
42) chloroform	9.376	83	219231	39.32	ug/L		98
43) t-butyl formate	9.413	59	76862	30.26	ug/L		97
44) 1,1-dichloropropene	9.811	75	169616	38.80	ug/L		96
45) carbon tetrachloride	9.837	117	155521	39.19	ug/L		99
46) isopropyl acetate	9.989	87	29086	44.53	ug/L		98
48) methacrylonitrile	9.255	67	51082	45.47	ug/L		99
49) 1,1,1-trichloroethane	9.633	97	183079	39.42	ug/L		99
50) cyclohexane	9.706	84	194076	38.05	ug/L		91
51) iso-butyl alcohol	9.811	43	52423	413.31	ug/L		97
52) tert amyl alcohol	9.942	73	31693	209.72	ug/L		94
55) 2,2,4-trimethylpentane	10.073	57	416154	35.19	ug/L		99
56) n-butyl alcohol	10.566	56	179263	2321.86	ug/L		100
57) benzene	10.073	78	523202	39.85	ug/L		99
58) tert-amyl methyl ether	10.105	73	425271	42.43	ug/L		98
59) heptane	10.241	57	86352	37.73	ug/L		99
60) 1,2-dichloroethane	10.084	62	164053	40.70	ug/L		100
61) ethyl acrylate	10.786	55	154992m	45.01	ug/L		
62) trichloroethene	10.786	95	757126	251.79	ug/L		97
63) 2-nitropropane	11.552	41	25018	27.15	ug/L	#	12
65) methyl methacrylate	11.054	100	32223	46.84	ug/L	#	93
66) 1,2-dichloropropane	11.048	63	141668	41.59	ug/L		99
67) methylcyclohexane	11.006	83	220885	37.06	ug/L		99
68) dibromomethane	11.206	93	75028	43.03	ug/L		95
69) bromodichloromethane	11.337	83	165201	41.78	ug/L		99
70) epichlorohydrin	11.698	57	58832	209.83	ug/L		98
71) cis-1,3-dichloropropene	11.793	75	213808	42.91	ug/L		99
72) 4-methyl-2-pentanone	11.882	58	194211	181.75	ug/L		98
73) 3-methyl-1-butanol	11.903	70	67792	926.65	ug/L		99
76) toluene	12.155	92	303563	41.94	ug/L		99
77) ethyl methacrylate	12.343	69	155951	46.48	ug/L		97
78) trans-1,3-dichloropropene	12.349	75	184095	44.84	ug/L		99
79) 1,1,2-trichloroethane	12.564	83	90686	43.05	ug/L		98
80) tetrachloroethene	12.737	164	99645	42.15	ug/L		99
81) 2-hexanone	12.731	58	172851	186.53	ug/L		99
82) 1,3-dichloropropane	12.742	76	183356	42.33	ug/L		99
83) butyl acetate	12.805	56	84096	45.53	ug/L		96
84) dibromochloromethane	13.004	129	115930	44.06	ug/L		98
85) 1,2-dibromoethane	13.156	107	139089	44.08	ug/L		99
86) n-butyl ether	13.528	57	542777	42.30	ug/L		99
87) chlorobenzene	13.612	112	321680	42.27	ug/L		98
88) 1,1,1,2-tetrachloroethane	13.675	131	114821	43.83	ug/L		97
89) ethylbenzene	13.670	91	543478	41.98	ug/L		100
90) m,p-xylene	13.775	106	417229	85.43	ug/L		100
91) o-xylene	14.189	91	444477	42.86	ug/L		100
92) styrene	14.199	104	344504	45.82	ug/L		99
93) butyl acrylate	14.016	55	230578	45.01	ug/L		99
94) bromoform	14.462	173	72800	46.99	ug/L		98
95) isopropylbenzene	14.530	105	520351	42.41	ug/L		99
96) cis-1,4-dichloro-2-butene	14.598	75	44506	43.88	ug/L		97
99) bromobenzene	14.923	156	133620	42.37	ug/L		97
100) 1,1,2,2-tetrachloroethane	14.829	83	131767	42.34	ug/L		95
101) trans-1,4-dichloro-2-b...	14.871	53	34999	44.48	ug/L		98
102) 1,2,3-trichloropropane	14.902	110	35710	43.44	ug/L		99
103) n-propylbenzene	14.933	91	606582	41.45	ug/L		99
104) 2-chlorotoluene	15.080	126	125010	42.26	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\July-2020\7-21\v2e8165-rush\
Data File : 2e162981.d
Acq On : 20 Jul 2020 5:20 pm
Operator : krizhkac
Sample : jd10196-7msd Inst : VOAMS2E
Misc : MS44511,V2E8165,5,,,,10
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 21 01:02:28 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Jul 16 11:01:59 2020
Response via : Initial Calibration

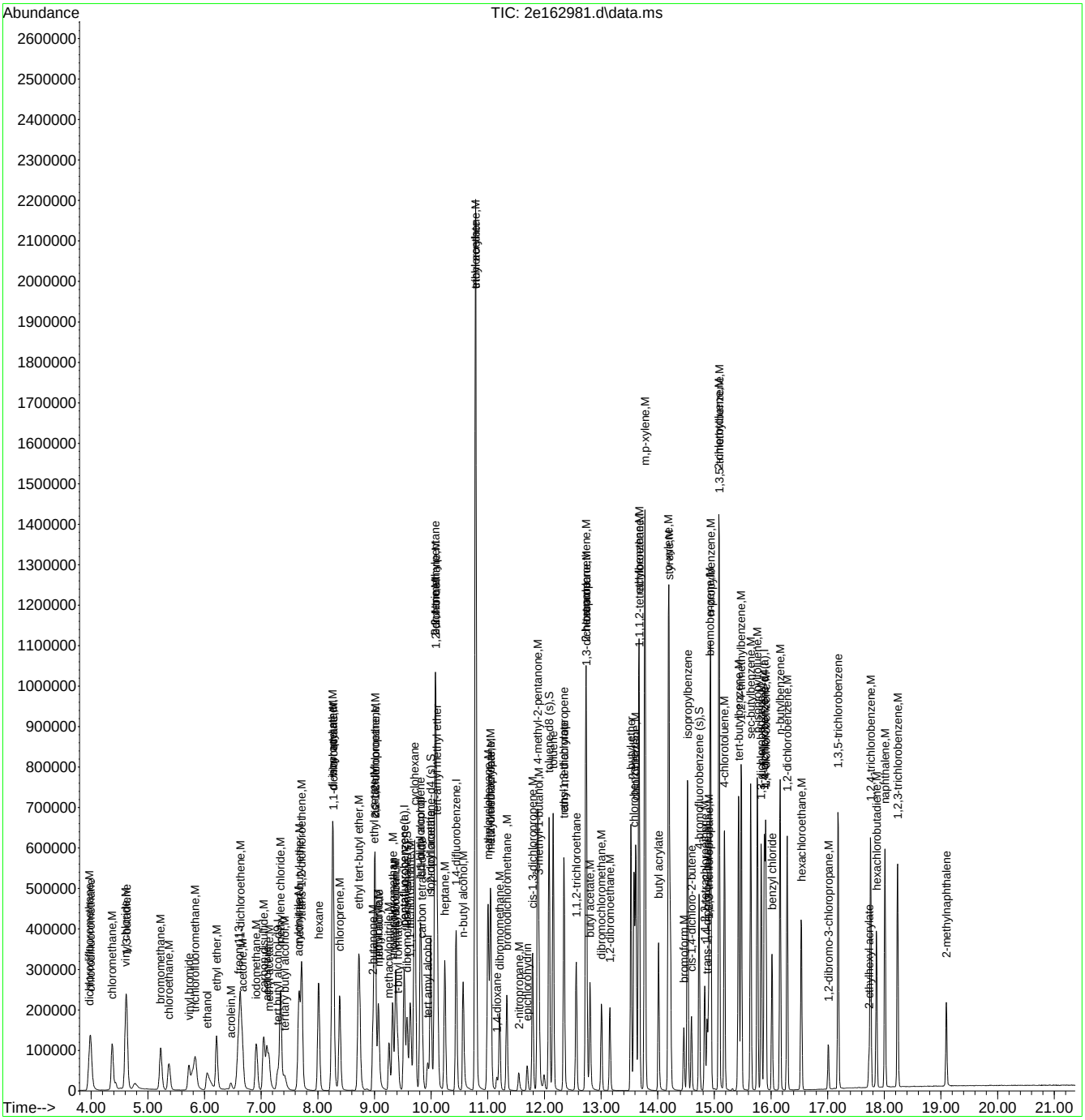
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) 4-chlorotoluene	15.175	91	371114	41.25	ug/L	98
106) 1,3,5-trimethylbenzene	15.085	105	438700	42.72	ug/L	100
107) tert-butylbenzene	15.432	119	377701	41.91	ug/L	97
108) 1,2,4-trimethylbenzene	15.473	105	441645	43.68	ug/L	99
109) sec-butylbenzene	15.641	105	529477	41.41	ug/L	99
110) 1,3-dichlorobenzene	15.825	146	242889	42.68	ug/L	97
111) p-isopropyltoluene	15.757	119	453138	42.94	ug/L	99
112) 1,4-dichlorobenzene	15.909	146	244743	41.83	ug/L	99
113) 1,2-dichlorobenzene	16.286	146	243499	43.32	ug/L	99
114) n-butylbenzene	16.160	92	224831	42.85	ug/L	98
115) 1,2-dibromo-3-chloropr...	17.015	157	28738	47.15	ug/L	95
116) 1,3,5-trichlorobenzene	17.183	180	208666	45.06	ug/L	97
117) 1,2,4-trichlorobenzene	17.759	180	184681	49.58	ug/L	99
118) 2-ethylhexyl acrylate	17.728	70	18993	7.96	ug/L	92
119) hexachlorobutadiene	17.864	225	84229	41.39	ug/L	99
120) naphthalene	18.011	128	426772	51.15	ug/L	100
121) 1,2,3-trichlorobenzene	18.237	180	171204	49.54	ug/L	99
122) hexachloroethane	16.538	201	75246	44.07	ug/L	99
123) benzyl chloride	16.019	91	235544	46.25	ug/L	99
124) 2-methylnaphthalene	19.096	142	102455	26.78	ug/L	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\July-2020\7-21\v2e8165-rush\
Data File : 2e162981.d
Acq On : 20 Jul 2020 5:20 pm
Operator : krizhkac
Sample : jd10196-7msd Inst : VOAMS2E
Misc : MS44511,V2E8165,5,,,,10
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 21 01:02:28 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Jul 16 11:01:59 2020
Response via : Initial Calibration



Manual Integration Approval Summary

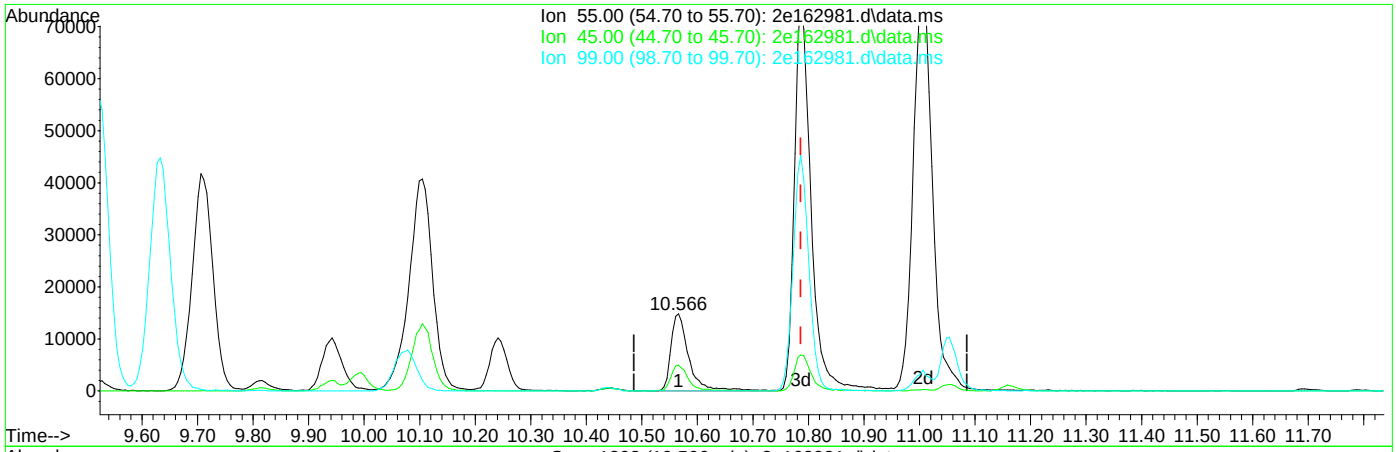
Sample Number: JD10196-7MSD
Lab FileID: 2E162981.D
Injection Time: 07/20/20 17:20
Method: SW846 8260C
Analyst approved: 07/21/20 01:20 Lotus Acosta
Supervisor approved: 07/21/20 11:21 MoHui Huang

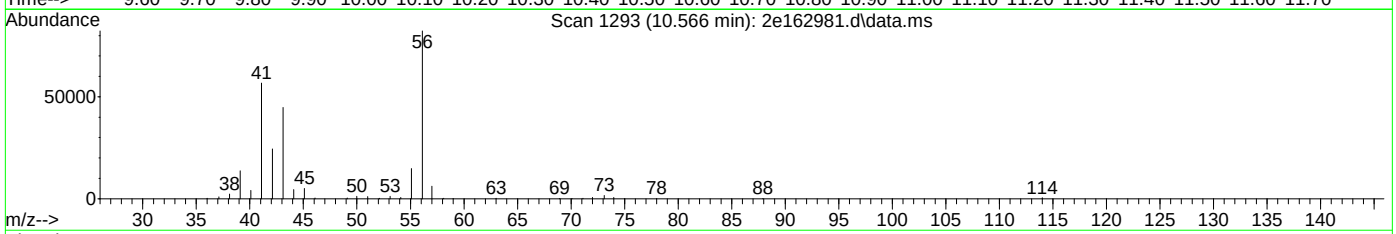
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Acrylate	140-88-5		10.79	Missed peak

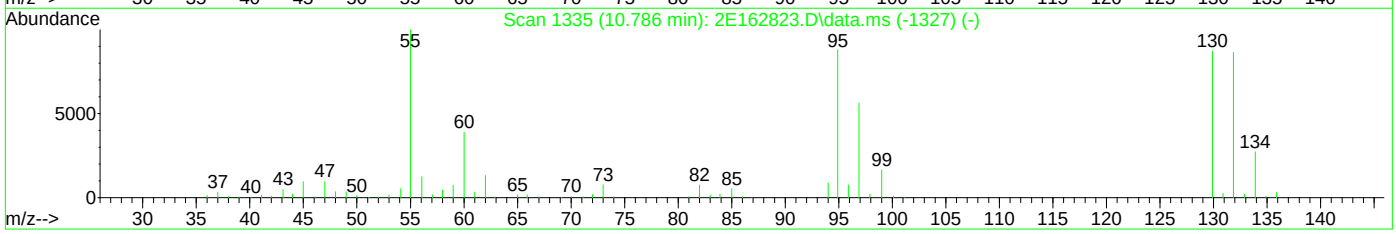
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\July-2020\7-21\v2e8165-rush\
Data File : 2e162981.d
Acq On : 20 Jul 2020 5:20 pm
Operator : krizhkac
Sample : jd10196-7msd Inst : VOAMS2E
Misc : MS44511,V2E8165,5,,,,10
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 20 18:07:24 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Jul 16 11:01:59 2020
Response via : Initial Calibration







TIC: 2e162981.d\data.ms

(61) ethyl acrylate

10.566min (-0.220) 9.72ug/L

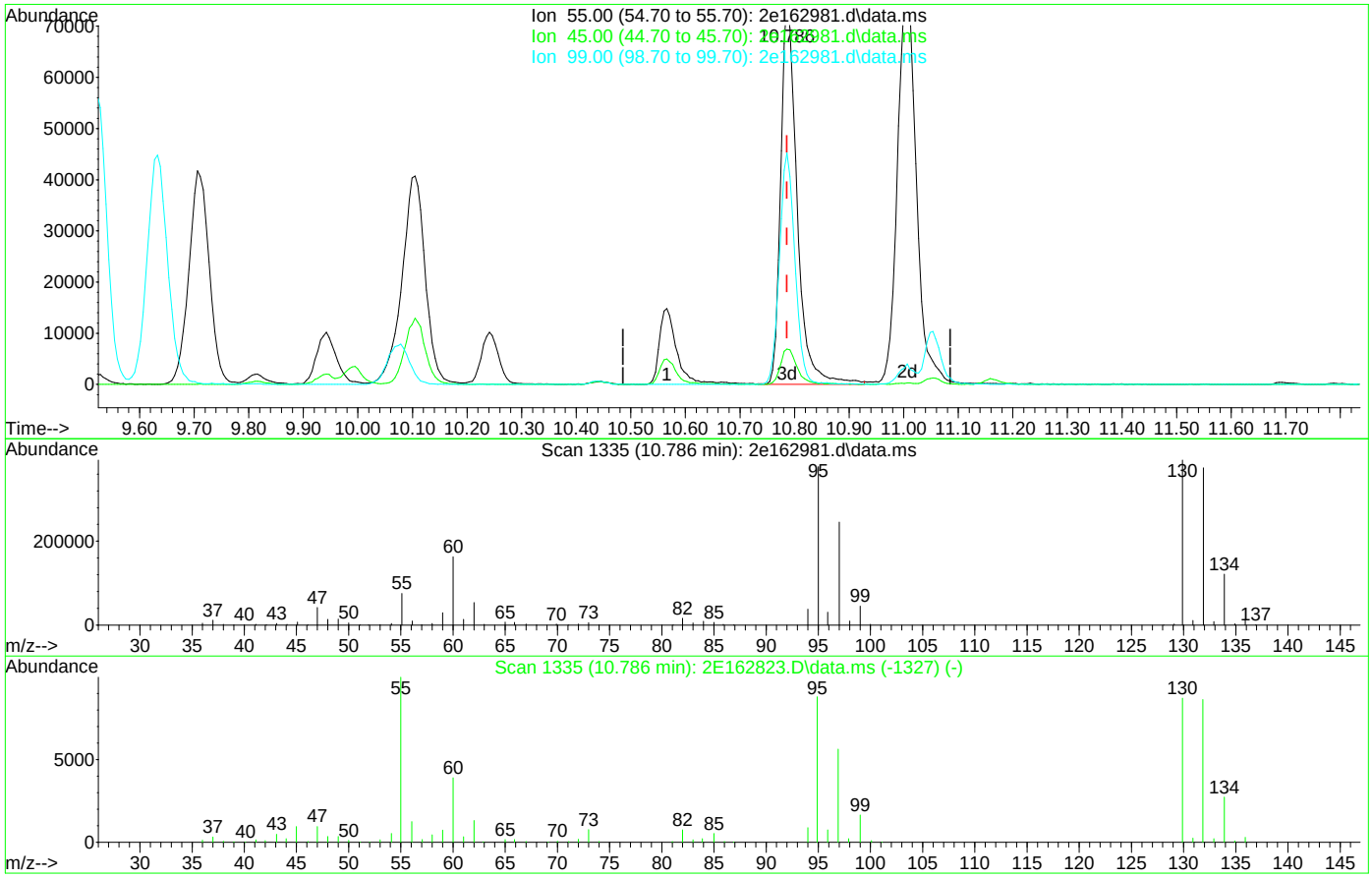
response 33488

Ion	Exp%	Act%
55.00	100	100
45.00	9.40	33.68
99.00	16.40	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\July-2020\7-21\v2e8165-rush\
Data File : 2e162981.d
Acq On : 20 Jul 2020 5:20 pm
Operator : krizhkac
Sample : jd10196-7msd Inst : VOAMS2E
Misc : MS44511,V2E8165,5,,,,10
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 20 18:07:24 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Jul 16 11:01:59 2020
Response via : Initial Calibration



TIC: 2e162981.d\data.ms

(61) ethyl acrylate

10.786min (+0.000) 45.01ug/L m

response 154992

Ion	Exp%	Act%
55.00	100	100
45.00	9.40	9.23
99.00	16.40	60.20#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\janellac\07-28-2020\v4d4597\
Data File : 4d103640.d
Acq On : 27 Jul 2020 4:08 pm
Operator : krizhkac
Sample : jd10241-2ms Inst : MS4D
Misc : MS44522,V4D4597,5,,,,1
ALS Vial : 17 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Results File: M4D4496.RES
Quant Time: Jul 27 23:10:10 2020
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 16:29:00 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	8.640	65	219251	500.00	ug/L		0.00
5) pentafluorobenzene	11.126	168	240289	50.00	ug/L		0.00
51) 1,4-difluorobenzene	12.017	114	344190	50.00	ug/L		0.00
73) chlorobenzene-d5	14.911	117	271500	50.00	ug/L		0.00
96) 1,4-dichlorobenzene-d4	17.013	152	124378	50.00	ug/L		0.00
System Monitoring Compounds							
43) dibromofluoromethane (s)	11.131	113	117678	51.01	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 102.02%				
52) 1,2-dichloroethane-d4 (s)	11.555	65	104691	43.68	ug/L		0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 87.36%				
74) toluene-d8 (s)	13.553	98	352024	48.03	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 96.06%				
97) 4-bromofluorobenzene (s)	15.949	95	119112	47.46	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 94.92%				
Target Compounds							Qvalue
2) tertiary butyl alcohol	8.771	59	114612	231.97	ug/L		96
3) ethanol	7.183	45	228560	4477.90	ug/L		99
4) 1,4-dioxane	12.672	88	50558	1250.31	ug/L		92
7) dichlorodifluoromethane	4.603	85	143692	70.86	ug/L		98
8) chloromethane	5.117	50	97541	48.96	ug/L		99
9) vinyl chloride	5.358	62	119387	59.45	ug/L		100
10) bromomethane	6.139	94	22145	33.39	ug/L		95
11) chloroethane	6.381	64	73145	59.50	ug/L		98
12) trichlorofluoromethane	6.947	101	169889	59.36	ug/L		95
13) vinyl bromide	6.800	106	56273	41.41	ug/L		96
14) ethyl ether	7.476	74	48570	46.57	ug/L		92
15) acrolein	7.686	56	17206	38.64	ug/L		95
16) freon 113	7.933	151	68630	54.41	ug/L		97
17) 1,1-dichloroethene	7.938	96	82858	49.61	ug/L		86
18) acetone	7.938	43	145674	164.30	ug/L		91
19) acetonitrile	8.378	41	179375	415.30	ug/L		98
20) iodomethane	8.216	142	33445	33.15	ug/L		94
21) carbon disulfide	8.383	76	186589	41.95	ug/L		96
22) methylene chloride	8.709	84	89046	47.43	ug/L		91
23) methyl acetate	8.509	43	93388	40.50	ug/L		98
24) methyl tert butyl ether	9.144	73	248870	43.81	ug/L		100
25) trans-1,2-dichloroethene	9.170	96	87385	48.96	ug/L		89
26) di-isopropyl ether	9.831	45	265968	43.72	ug/L		96
27) 2-butanone	10.507	72	69027	182.57	ug/L	#	85
28) 1,1-dichloroethane	9.768	63	189296	57.44	ug/L		99
29) chloroprene	9.920	53	113289	43.96	ug/L		89
30) acrylonitrile	9.034	53	43018	44.60	ug/L		99
31) hexane	9.589	56	57739	51.48	ug/L		95
32) vinyl acetate	9.773	86	21894	45.56	ug/L	#	66
33) ethyl tert-butyl ether	10.323	59	166118	28.02	ug/L		98
34) ethyl acetate	10.565	70	14916	45.29	ug/L	#	80
35) 2,2-dichloropropane	10.586	77	112116	43.54	ug/L		93
36) cis-1,2-dichloroethene	10.554	96	102134	50.86	ug/L		88
37) methyl acrylate	10.638	55	107945	44.15	ug/L		99
38) propionitrile	10.559	54	202158	442.56	ug/L		99
39) bromochloromethane	10.869	128	50503	52.35	ug/L		91
40) tetrahydrofuran	10.942	72	19017	46.51	ug/L		88
41) chloroform	10.932	85	99685	43.62	ug/L		98
42) t-butyl formate	11.015	59	4219	1.93	ug/L		93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\janellac\07-28-2020\v4d4597\
Data File : 4d103640.d
Acq On : 27 Jul 2020 4:08 pm
Operator : krizhkac
Sample : jd10241-2ms Inst : MS4D
Misc : MS44522,V4D4597,5,,,,1
ALS Vial : 17 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Results File: M4D4496.RES
Quant Time: Jul 27 23:10:10 2020
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 16:29:00 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) methacrylonitrile	10.790	67	49564	46.77	ug/L		91
45) 1,1,1-trichloroethane	11.241	97	136826	51.00	ug/L		96
46) cyclohexane	11.351	84	142555	67.61	ug/L	#	81
47) 1,1-dichloropropene	11.424	75	113303	47.63	ug/L		96
48) isobutyl alcohol	11.351	74	9660	550.42	ug/L	#	94
49) carbon tetrachloride	11.461	117	117188	49.54	ug/L		99
50) tert amyl alcohol	11.503	55	33955	232.59	ug/L		96
53) n-butyl alcohol	12.085	56	289003	2555.82	ug/L		93
54) 2,2,4-trimethylpentane	11.749	57	52987	13.73	ug/L		82
55) benzene	11.671	78	322458	47.20	ug/L		99
56) tert-amyl methyl ether	11.734	87	41097	31.73	ug/L		94
57) heptane	11.907	71	54238	57.52	ug/L		96
58) isopropyl acetate	11.597	87	25607	47.38	ug/L	#	65
59) 1,2-dichloroethane	11.639	62	103786	39.01	ug/L		98
60) trichloroethene	12.352	130	91872	52.89	ug/L		98
61) ethyl acrylate	12.337	55	135493	43.67	ug/L		99
62) 2-nitropropane	13.003	43	28985	40.05	ug/L		98
64) methyl methacrylate	12.588	100	28952	48.21	ug/L	#	81
65) 1,2-dichloropropane	12.573	63	82647	48.15	ug/L		100
66) dibromomethane	12.698	93	57946	48.64	ug/L		90
67) methylcyclohexane	12.604	83	123730	55.67	ug/L		92
68) bromodichloromethane	12.819	83	112607	48.35	ug/L		98
69) epichlorohydrin	13.139	57	34652	112.05	ug/L		99
70) cis-1,3-dichloropropene	13.254	75	129966	48.32	ug/L		93
71) 4-methyl-2-pentanone	13.349	58	180604	187.33	ug/L		91
72) 3-methyl-1-butanol	13.333	70	107268	1108.84	ug/L		91
75) toluene	13.616	92	187739	47.69	ug/L		99
76) trans-1,3-dichloropropene	13.752	75	113980	44.96	ug/L		97
77) ethyl methacrylate	13.773	69	112318	44.86	ug/L		95
78) 1,1,2-trichloroethane	13.941	83	65022	48.27	ug/L		96
79) tetrachloroethene	14.161	164	72002	49.46	ug/L		100
80) 1,3-dichloropropane	14.114	76	117310	45.46	ug/L		88
81) 2-hexanone	14.114	58	187801	181.52	ug/L		96
82) butyl acetate	14.198	56	64582	42.85	ug/L		91
83) dibromochloromethane	14.355	129	93393	50.97	ug/L		100
84) 1,2-dibromoethane	14.497	107	122449	59.88	ug/L		99
85) n-butyl ether	14.890	57	269105	41.43	ug/L		100
86) chlorobenzene	14.937	112	198931	47.35	ug/L		98
87) 1,1,1,2-tetrachloroethane	14.984	131	77746	50.89	ug/L		99
88) ethylbenzene	15.000	91	321332	46.72	ug/L		99
89) m,p-xylene	15.100	106	253523	98.89	ug/L		95
90) o-xylene	15.472	106	121079	48.39	ug/L		96
91) styrene	15.472	104	201902	48.37	ug/L		97
92) bromoform	15.682	173	69989	50.66	ug/L		99
93) butyl acrylate	15.299	55	155409	43.20	ug/L		98
94) isopropylbenzene	15.792	105	292542	48.31	ug/L		98
95) cis-1,4-dichloro-2-butene	15.802	88	34758	39.07	ug/L		94
98) bromobenzene	16.133	156	86086	46.18	ug/L		96
99) 1,1,2,2-tetrachloroethane	16.007	83	112187	44.29	ug/L		98
100) trans-1,4-dichloro-2-b...	16.049	53	24023	35.68	ug/L		86
101) 1,2,3-trichloropropane	16.080	110	29807	42.82	ug/L		99
102) n-propylbenzene	16.159	91	336756	45.64	ug/L		99
103) 2-chlorotoluene	16.285	126	74154	46.23	ug/L		92
104) 4-chlorotoluene	16.369	91	200897	44.17	ug/L		98
105) 1,3,5-trimethylbenzene	16.295	105	233676	46.44	ug/L		98
106) tert-butylbenzene	16.620	134	44481	47.87	ug/L	#	87
107) 1,2,4-trimethylbenzene	16.652	105	239237	47.08	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\janellac\07-28-2020\v4d4597\
Data File : 4d103640.d
Acq On : 27 Jul 2020 4:08 pm
Operator : krizhkac
Sample : jd10241-2ms Inst : MS4D
Misc : MS44522,V4D4597,5,,,,1
ALS Vial : 17 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Results File: M4D4496.RES
Quant Time: Jul 27 23:10:10 2020
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 16:29:00 2020
Response via : Initial Calibration

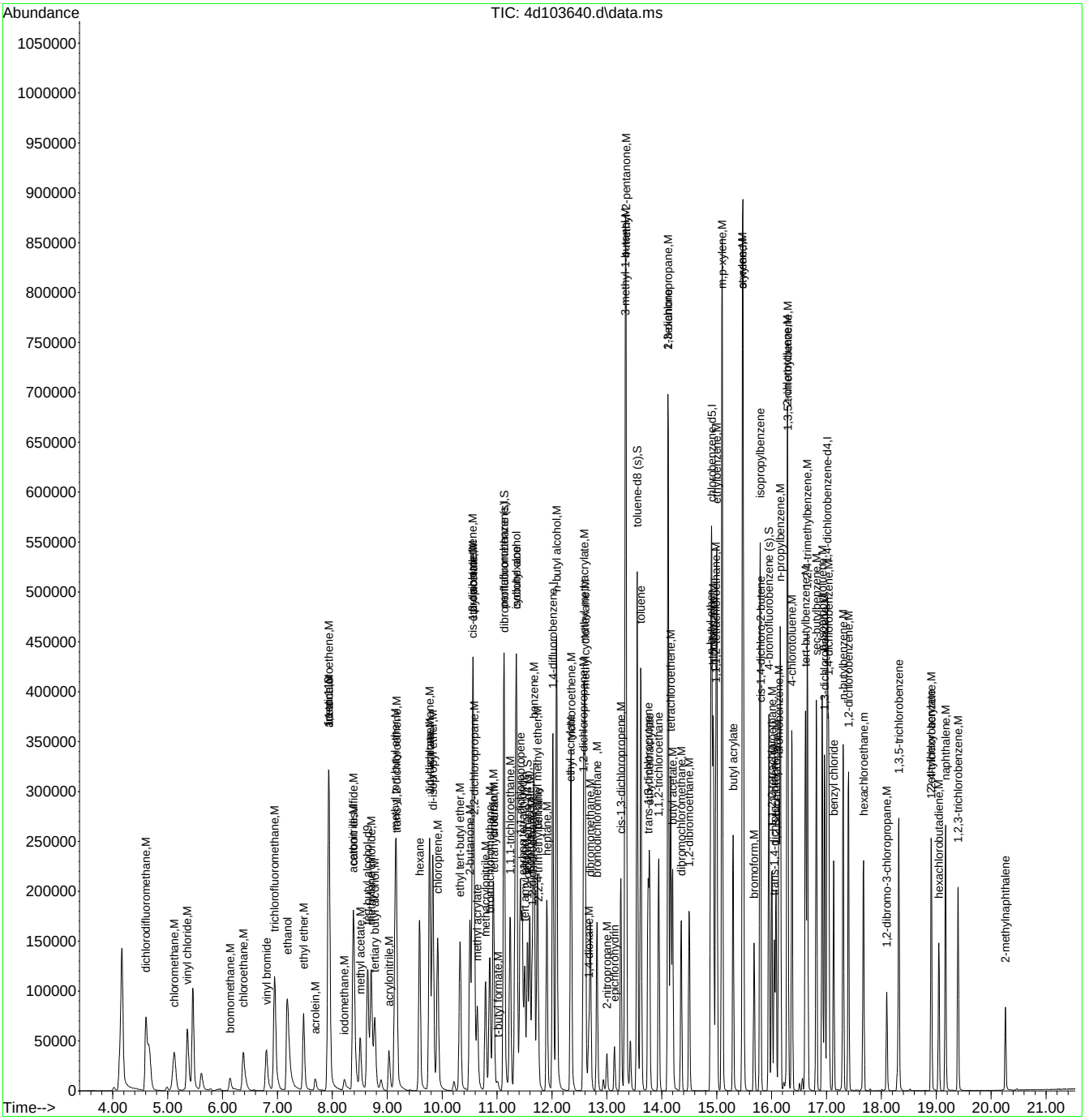
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
108) sec-butylbenzene	16.814	105	270067	46.91	ug/L	99
109) 1,3-dichlorobenzene	16.966	146	140177	45.83	ug/L	99
110) p-isopropyltoluene	16.924	119	225695	47.28	ug/L	98
111) 1,4-dichlorobenzene	17.040	146	140675	45.23	ug/L	98
112) benzyl chloride	17.129	91	160995	41.91	ug/L	98
113) 1,2-dichlorobenzene	17.401	146	133211	46.06	ug/L	98
114) n-butylbenzene	17.302	92	105459	48.43	ug/L	100
115) 1,2-dibromo-3-chloropr...	18.099	157	31294	46.87	ug/L	95
116) 1,3,5-trichlorobenzene	18.319	180	91087	48.50	ug/L	99
117) 2-ethylhexyl acrylate	18.906	70	8332	8.83	ug/L	94
118) 1,2,4-trichlorobenzene	18.911	180	75462	48.35	ug/L	97
119) hexachlorobutadiene	19.048	225	32347	45.58	ug/L	98
120) naphthalene	19.168	128	200165	44.60	ug/L	99
121) 1,2,3-trichlorobenzene	19.399	180	68767	48.26	ug/L	97
122) hexachloroethane	17.674	201	40785	48.79	ug/L	98
123) 2-methylnaphthalene	20.259	142	42326	23.70	ug/L	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\janellac\07-28-2020\v4d4597\
Data File : 4d103640.d
Acq On : 27 Jul 2020 4:08 pm
Operator : krizhkac
Sample : jd10241-2ms Inst : MS4D
Misc : MS44522,V4D4597,5,,,,1
ALS Vial : 17 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Results File: M4D4496.RES
Quant Time: Jul 27 23:10:10 2020
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 16:29:00 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\janellac\07-28-2020\v4d4597\
Data File : 4d103641.d
Acq On : 27 Jul 2020 4:37 pm
Operator : krizhkac
Sample : jd10241-2msd Inst : MS4D
Misc : MS44522,V4D4597,5,,,,1
ALS Vial : 18 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Results File: M4D4496.RES
Quant Time: Jul 27 23:10:28 2020
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 16:29:00 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	8.646	65	220772	500.00	ug/L	0.00
5) pentafluorobenzene	11.126	168	238607	50.00	ug/L	0.00
51) 1,4-difluorobenzene	12.017	114	342515	50.00	ug/L	0.00
73) chlorobenzene-d5	14.911	117	272879	50.00	ug/L	0.00
96) 1,4-dichlorobenzene-d4	17.019	152	125086	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	11.126	113	118127	51.57	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 103.14%			
52) 1,2-dichloroethane-d4 (s)	11.556	65	105672	44.31	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 88.62%			
74) toluene-d8 (s)	13.553	98	353875	48.03	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 96.06%			
97) 4-bromofluorobenzene (s)	15.949	95	120807	47.87	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 95.74%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	8.777	59	118289	237.76	ug/L	96
3) ethanol	7.183	45	229801	4471.20	ug/L	100
4) 1,4-dioxane	12.672	88	50709	1245.41	ug/L	95
7) dichlorodifluoromethane	4.603	85	131993	65.55	ug/L	98
8) chloromethane	5.117	50	90776	45.88	ug/L	98
9) vinyl chloride	5.358	62	108678	54.50	ug/L	98
10) bromomethane	6.139	94	27997	40.98	ug/L	98
11) chloroethane	6.375	64	66525	54.49	ug/L	97
12) trichlorofluoromethane	6.947	101	155672	54.78	ug/L	96
13) vinyl bromide	6.795	106	51504	38.17	ug/L	97
14) ethyl ether	7.476	74	47816	46.17	ug/L	97
15) acrolein	7.686	56	17040	38.53	ug/L	93
16) freon 113	7.933	151	69196	55.24	ug/L	97
17) 1,1-dichloroethene	7.938	96	82881	49.97	ug/L	86
18) acetone	7.933	43	145149	164.86	ug/L	94
19) acetonitrile	8.378	41	180859	421.69	ug/L	100
20) iodomethane	8.221	142	42455	42.37	ug/L	93
21) carbon disulfide	8.389	76	186582	42.25	ug/L	97
22) methylene chloride	8.709	84	89264	47.88	ug/L	94
23) methyl acetate	8.504	43	92420	40.36	ug/L	96
24) methyl tert butyl ether	9.144	73	248217	44.01	ug/L	99
25) trans-1,2-dichloroethene	9.170	96	87110	49.15	ug/L	89
26) di-isopropyl ether	9.831	45	264151	43.72	ug/L	95
27) 2-butanone	10.507	72	68578	182.66	ug/L #	83
28) 1,1-dichloroethane	9.768	63	185568	56.70	ug/L	100
29) chloroprene	9.920	53	113387	44.31	ug/L	90
30) acrylonitrile	9.034	53	43150	45.05	ug/L	98
31) hexane	9.589	56	56994	51.18	ug/L	98
32) vinyl acetate	9.773	86	22305	46.74	ug/L #	65
33) ethyl tert-butyl ether	10.323	59	164892	28.01	ug/L	97
34) ethyl acetate	10.565	70	15102	46.17	ug/L #	74
35) 2,2-dichloropropane	10.586	77	108514	42.44	ug/L	93
36) cis-1,2-dichloroethene	10.554	96	101219	50.76	ug/L	86
37) methyl acrylate	10.638	55	107917	44.45	ug/L	98
38) propionitrile	10.559	54	203890	449.50	ug/L	97
39) bromochloromethane	10.869	128	50035	52.23	ug/L	87
40) tetrahydrofuran	10.942	72	18920	46.60	ug/L	89
41) chloroform	10.932	85	97974	43.18	ug/L	95
42) t-butyl formate	11.010	59	3498	1.61	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\janellac\07-28-2020\v4d4597\
Data File : 4d103641.d
Acq On : 27 Jul 2020 4:37 pm
Operator : krizhkac
Sample : jd10241-2msd Inst : MS4D
Misc : MS44522,V4D4597,5,,,,1
ALS Vial : 18 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Results File: M4D4496.RES
Quant Time: Jul 27 23:10:28 2020
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 16:29:00 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) methacrylonitrile	10.790	67	49455	47.00	ug/L		88
45) 1,1,1-trichloroethane	11.236	97	136183	51.12	ug/L		97
46) cyclohexane	11.351	84	129568	61.89	ug/L	#	85
47) 1,1-dichloropropene	11.424	75	112524	47.64	ug/L		97
48) isobutyl alcohol	11.356	74	9673	555.05	ug/L	#	77
49) carbon tetrachloride	11.461	117	115967	49.37	ug/L		98
50) tert amyl alcohol	11.503	55	34090	235.16	ug/L		99
53) n-butyl alcohol	12.085	56	291231	2588.12	ug/L		94
54) 2,2,4-trimethylpentane	11.749	57	53297	13.88	ug/L		82
55) benzene	11.671	78	319775	47.04	ug/L		99
56) tert-amyl methyl ether	11.734	87	40620	31.51	ug/L		98
57) heptane	11.907	71	53693	57.22	ug/L		96
58) isopropyl acetate	11.597	87	25977	48.30	ug/L	#	68
59) 1,2-dichloroethane	11.639	62	103022	38.91	ug/L		98
60) trichloroethene	12.352	130	91511	52.94	ug/L		98
61) ethyl acrylate	12.337	55	133937	43.38	ug/L		99
62) 2-nitropropane	13.003	43	28650	39.78	ug/L		97
64) methyl methacrylate	12.588	100	29218	48.89	ug/L	#	77
65) 1,2-dichloropropane	12.573	63	82070	48.05	ug/L		100
66) dibromomethane	12.698	93	57359	48.38	ug/L		92
67) methylcyclohexane	12.604	83	122413	55.34	ug/L		94
68) bromodichloromethane	12.819	83	112363	48.49	ug/L		98
69) epichlorohydrin	13.139	57	33690	109.47	ug/L		99
70) cis-1,3-dichloropropene	13.254	75	128765	48.10	ug/L		92
71) 4-methyl-2-pentanone	13.349	58	179891	187.51	ug/L		91
72) 3-methyl-1-butanol	13.333	70	108028	1122.15	ug/L		90
75) toluene	13.621	92	185490	46.88	ug/L		99
76) trans-1,3-dichloropropene	13.752	75	114549	44.95	ug/L		98
77) ethyl methacrylate	13.779	69	112271	44.62	ug/L		93
78) 1,1,2-trichloroethane	13.946	83	65170	48.13	ug/L		97
79) tetrachloroethene	14.161	164	72262	49.38	ug/L		99
80) 1,3-dichloropropane	14.114	76	116327	44.85	ug/L		89
81) 2-hexanone	14.114	58	186117	178.99	ug/L		99
82) butyl acetate	14.198	56	64577	42.63	ug/L		91
83) dibromochloromethane	14.355	129	92082	50.00	ug/L		99
84) 1,2-dibromoethane	14.497	107	119110	57.96	ug/L		100
85) n-butyl ether	14.890	57	270980	41.51	ug/L		99
86) chlorobenzene	14.937	112	200489	47.48	ug/L		98
87) 1,1,1,2-tetrachloroethane	14.984	131	77258	50.31	ug/L		99
88) ethylbenzene	15.005	91	319399	46.20	ug/L		99
89) m,p-xylene	15.100	106	251483	97.60	ug/L		93
90) o-xylene	15.472	106	119919	47.69	ug/L		98
91) styrene	15.472	104	203354	48.47	ug/L		95
92) bromoform	15.682	173	70452	50.74	ug/L		98
93) butyl acrylate	15.299	55	156536	43.30	ug/L		97
94) isopropylbenzene	15.792	105	293903	48.29	ug/L		98
95) cis-1,4-dichloro-2-butene	15.802	88	34198	38.25	ug/L		95
98) bromobenzene	16.133	156	86809	46.30	ug/L		99
99) 1,1,2,2-tetrachloroethane	16.007	83	111866	43.91	ug/L		100
100) trans-1,4-dichloro-2-b...	16.049	53	23684	34.98	ug/L		83
101) 1,2,3-trichloropropane	16.080	110	29883	42.68	ug/L		97
102) n-propylbenzene	16.159	91	337001	45.41	ug/L		99
103) 2-chlorotoluene	16.285	126	76084	47.16	ug/L		91
104) 4-chlorotoluene	16.369	91	203183	44.42	ug/L		99
105) 1,3,5-trimethylbenzene	16.295	105	233437	46.13	ug/L		99
106) tert-butylbenzene	16.620	134	45002	48.15	ug/L	#	88
107) 1,2,4-trimethylbenzene	16.652	105	234597	45.91	ug/L		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\janellac\07-28-2020\v4d4597\
Data File : 4d103641.d
Acq On : 27 Jul 2020 4:37 pm
Operator : krizhkac
Sample : jd10241-2msd Inst : MS4D
Misc : MS44522,V4D4597,5,,,,1
ALS Vial : 18 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Results File: M4D4496.RES
Quant Time: Jul 27 23:10:28 2020
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 16:29:00 2020
Response via : Initial Calibration

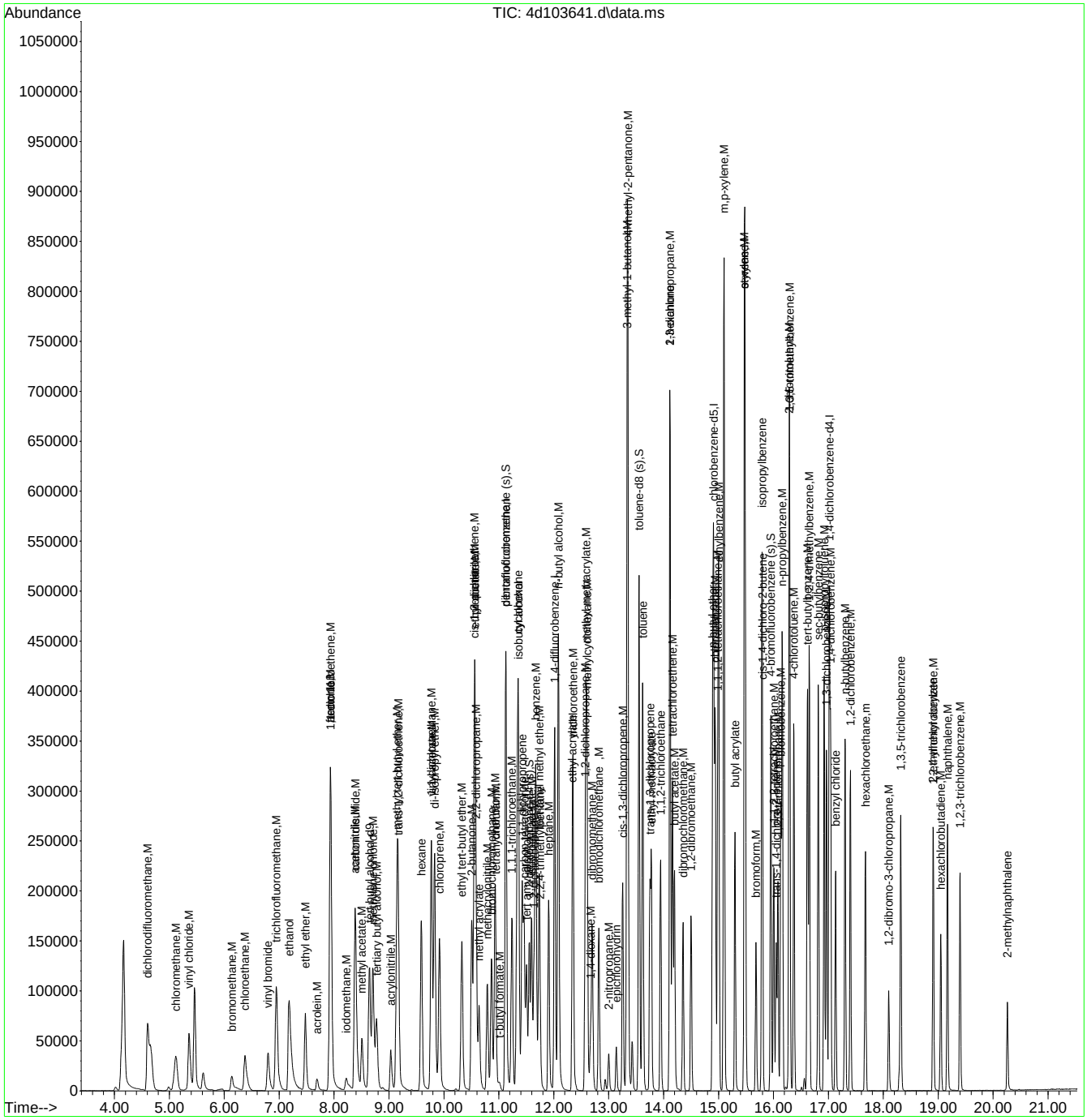
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
108) sec-butylbenzene	16.814	105	276622	47.77	ug/L	99
109) 1,3-dichlorobenzene	16.966	146	141378	45.96	ug/L	99
110) p-isopropyltoluene	16.924	119	230939	48.10	ug/L	98
111) 1,4-dichlorobenzene	17.040	146	143018	45.73	ug/L	98
112) benzyl chloride	17.134	91	157450	40.75	ug/L	97
113) 1,2-dichlorobenzene	17.401	146	134577	46.27	ug/L	98
114) n-butylbenzene	17.302	92	107572	49.12	ug/L	98
115) 1,2-dibromo-3-chloropr...	18.099	157	31800	47.36	ug/L	95
116) 1,3,5-trichlorobenzene	18.319	180	94008	49.77	ug/L	99
117) 2-ethylhexyl acrylate	18.906	70	8744	9.18	ug/L	90
118) 1,2,4-trichlorobenzene	18.911	180	77357	49.29	ug/L	99
119) hexachlorobutadiene	19.048	225	33707	47.23	ug/L	97
120) naphthalene	19.168	128	207246	45.92	ug/L	100
121) 1,2,3-trichlorobenzene	19.399	180	71992	50.24	ug/L	99
122) hexachloroethane	17.674	201	41888	49.82	ug/L	98
123) 2-methylnaphthalene	20.259	142	45322	25.23	ug/L	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\janellac\07-28-2020\v4d4597\
Data File : 4d103641.d
Acq On : 27 Jul 2020 4:37 pm
Operator : krizhkac
Sample : jd10241-2msd Inst : MS4D
Misc : MS44522,V4D4597,5,,,,1
ALS Vial : 18 Sample Multiplier: 1

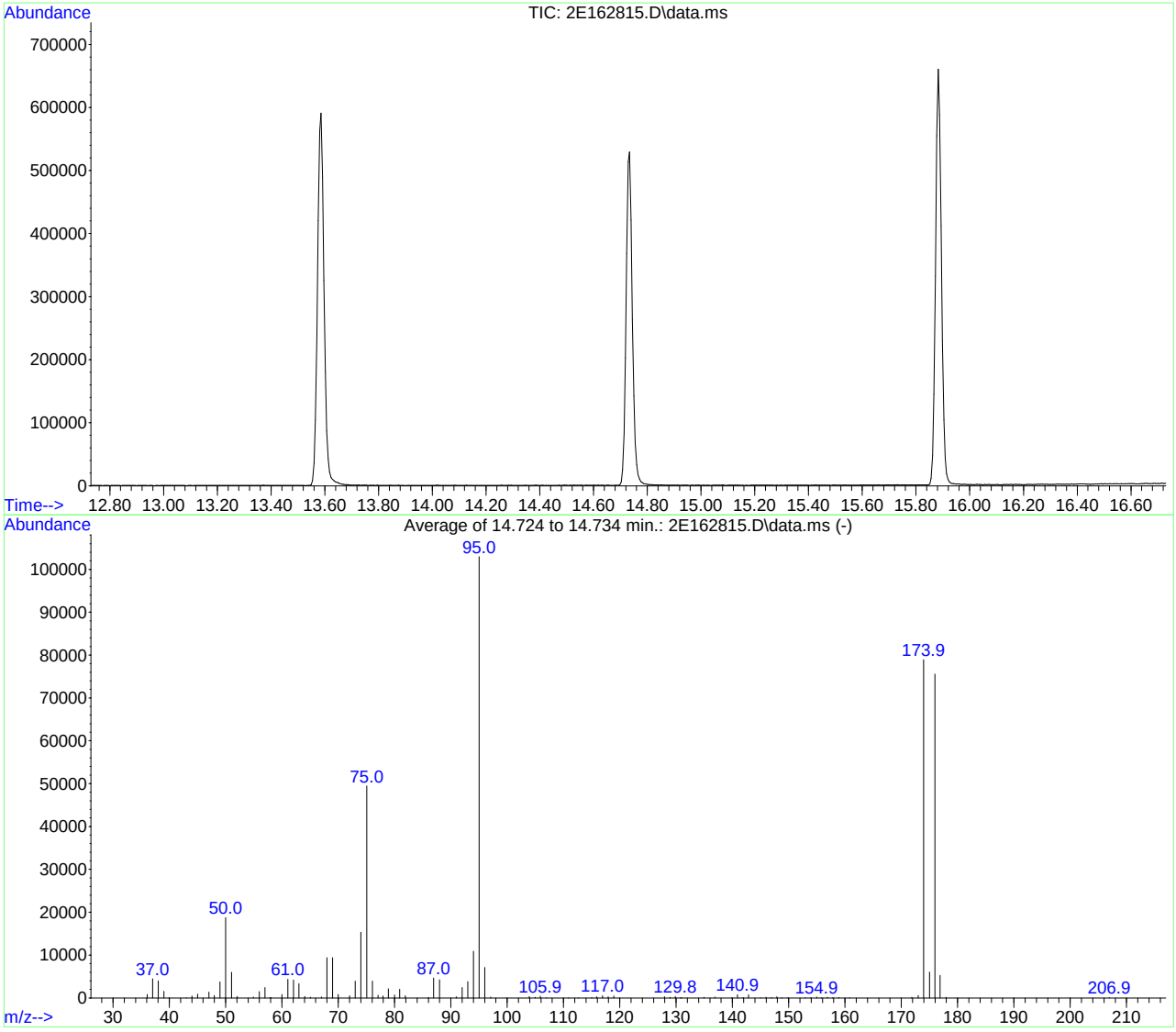
Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Results File: M4D4496.RES
Quant Time: Jul 27 23:10:28 2020
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 16:29:00 2020
Response via : Initial Calibration



SW-846 Method 8260

Data File : C:\msdchem\1\data\V2E8157\2E162815.D Vial: 2
Acq On : 14 Jul 2020 5:48 pm Operator: brittank
Sample : bfb Inst : VOAMS2E
Misc : MS44041,V2E8157,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M2E8157.M (RTE Integrator)
Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM



AutoFind: Scans 2086, 2087, 2088; Background Corrected with Scan 2078

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.2	18733	PASS
75	95	30	60	48.1	49488	PASS
95	95	100	100	100.0	102965	PASS
96	95	5	9	6.9	7136	PASS
173	174	0.00	2	0.8	599	PASS
174	95	50	120	76.6	78920	PASS
175	174	5	9	7.6	6023	PASS
176	174	95	101	95.7	75560	PASS
177	176	5	9	6.9	5239	PASS

2E162815.D M2E8157.M Wed Jul 15 11:40:06 2020

Average of 14.724 to 14.734 min.: 2E162815.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	806	50.00	18733	63.00	3334	76.05	3933
37.05	4494	51.05	5957	64.05	327	77.05	641
38.05	3996	52.05	305	65.05	159	77.95	442
39.05	1545	54.95	215	67.05	211	78.90	2119
39.95	7	56.00	1454	68.00	9374	80.00	685
43.00	38	57.00	2406	69.00	9418	80.90	2004
44.00	459	57.90	82	70.00	810	81.90	490
45.00	856	58.10	41	72.00	501	86.00	101
47.05	1371	60.00	814	73.00	3927	86.95	4642
48.00	576	61.05	4374	74.00	15304	88.00	4230
49.00	3736	62.05	4191	75.05	49488	90.95	271

Average of 14.724 to 14.734 min.: 2E162815.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
92.00	2427	112.70	28	134.95	124	149.90	78
93.00	3803	115.00	90	136.90	192	152.95	59
94.00	10887	115.90	246	139.90	25	153.90	49
95.00	102965	116.95	487	140.90	775	154.95	211
96.00	7136	117.95	259	141.90	86	155.80	27
97.05	231	118.95	439	142.85	762	156.90	154
103.90	319	127.95	272	145.00	59	157.80	28
104.95	138	128.95	171	145.95	138	158.90	86
105.90	369	129.85	314	146.95	117	160.80	48
107.00	31	130.80	65	147.90	256	171.85	154
110.90	26	131.00	36	148.80	26	173.00	599

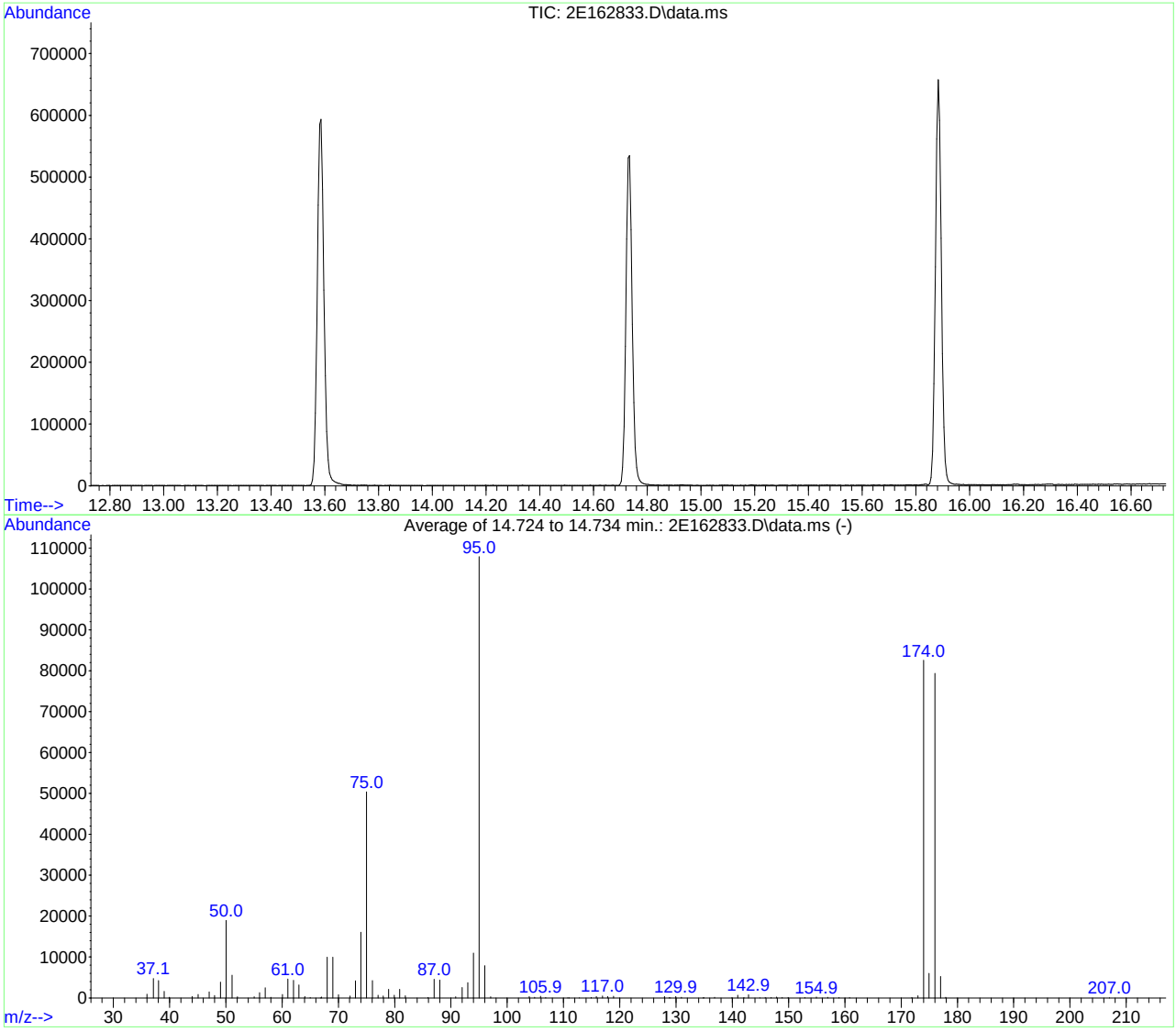
Average of 14.724 to 14.734 min.: 2E162815.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
173.95	78920						
175.00	6023						
175.95	75560						
176.90	5239						
177.95	137						
206.95	8						

SW-846 Method 8260

Data File : C:\msdchem\1\data\V2E8157\2E162833.D Vial: 20
Acq On : 15 Jul 2020 11:51 am Operator: brittank
Sample : bfb2 Inst : VOAMS2E
Misc : MS44041,V2E8157,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M2E8157.M (RTE Integrator)
Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM



AutoFind: Scans 2086, 2087, 2088; Background Corrected with Scan 2078

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.6	18957	PASS
75	95	30	60	46.7	50368	PASS
95	95	100	100	100.0	107877	PASS
96	95	5	9	7.3	7900	PASS
173	174	0.00	2	0.6	526	PASS
174	95	50	120	76.5	82547	PASS
175	174	5	9	7.3	6005	PASS
176	174	95	101	96.1	79341	PASS
177	176	5	9	6.6	5226	PASS

2E162833.D M2E8157.M Wed Jul 15 13:42:32 2020

Average of 14.724 to 14.734 min.: 2E162833.D\data.ms
bfb2
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	893	51.10	5544	65.00	68	77.05	687
37.10	4756	52.05	310	66.80	60	77.95	488
38.05	4224	55.05	265	67.00	192	78.90	2089
39.05	1638	56.00	1276	68.00	9972	79.95	651
39.95	147	57.00	2489	69.00	9968	80.90	2131
44.00	358	58.00	136	70.00	764	81.90	565
45.05	876	60.05	826	72.05	507	85.90	100
47.05	1492	61.00	4645	73.05	4177	87.00	4581
48.00	617	62.00	4306	74.00	16051	88.00	4358
49.05	3880	63.00	3172	75.00	50368	90.85	261
50.05	18957	64.05	326	76.05	4242	92.00	2553

Average of 14.724 to 14.734 min.: 2E162833.D\data.ms
bfb2
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
93.00	3741	112.80	43	134.80	37	148.85	70
94.00	10997	114.90	113	134.95	99	149.90	100
95.00	107877	115.85	338	136.85	176	152.90	68
96.00	7900	116.95	507	139.90	26	154.95	220
97.05	269	117.85	326	140.95	683	156.95	177
103.90	338	118.90	442	142.05	107	158.95	109
104.85	162	127.95	336	142.90	772	160.85	105
105.90	398	128.80	108	144.90	23	171.90	125
106.85	82	129.00	63	145.85	113	173.00	526
110.75	52	129.95	371	146.90	86	174.00	82547
111.00	27	130.95	130	147.85	199	174.95	6005

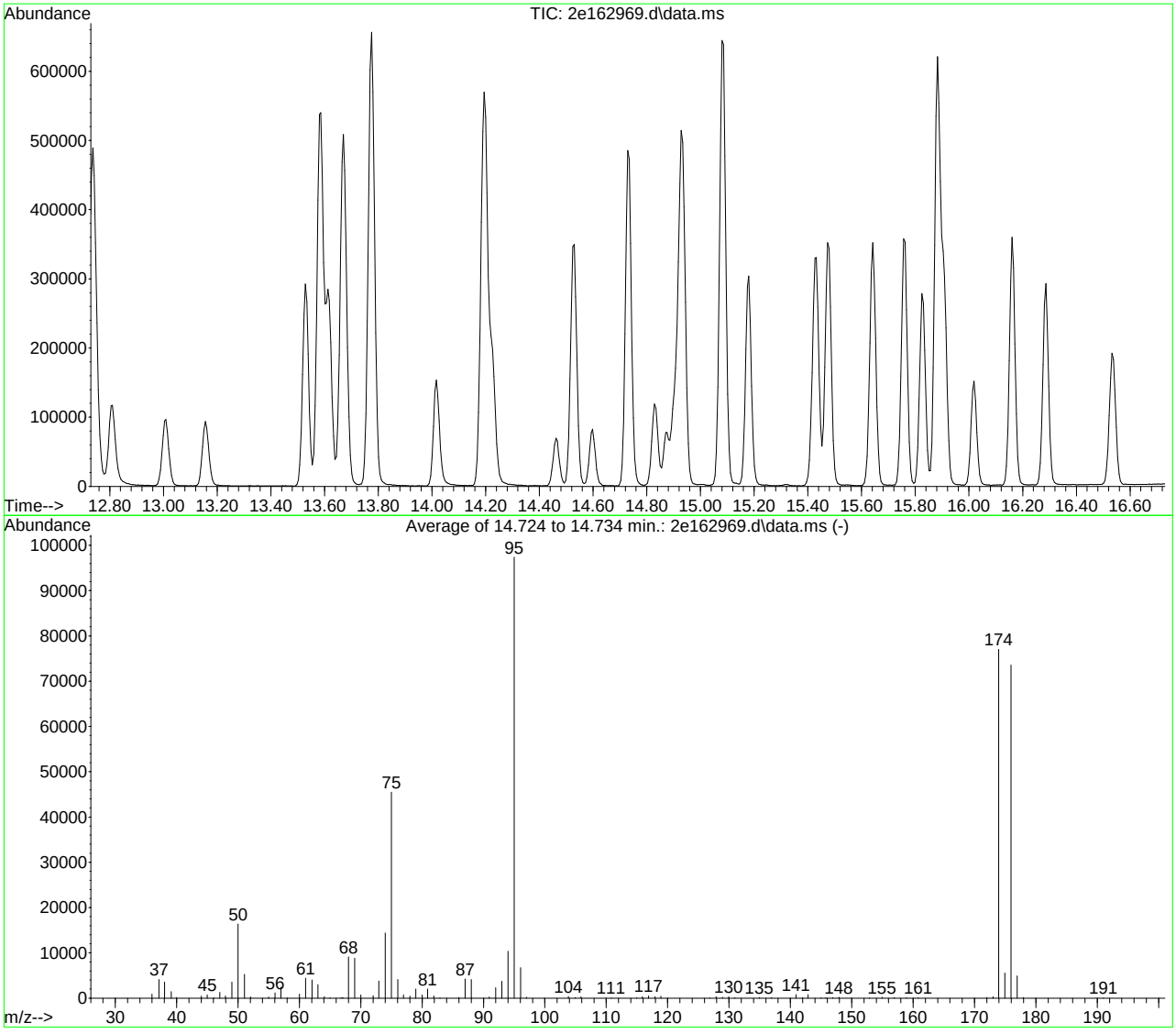
Average of 14.724 to 14.734 min.: 2E162833.D\data.ms
bfb2
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
176.00	79341						
177.00	5226						
177.90	166						
207.00	46						

SW-846 Method 8260

Data File : C:\msdchem\1\data\lo...e8165-rush\2e162969.d Vial: 4
Acq On : 20 Jul 2020 11:05 am Operator: krizhkac
Sample : bfb Inst : VOAMS2E
Misc : MS44525,V2E8165,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M2E8157.M (RTE Integrator)
Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM



AutoFind: Scans 2086, 2087, 2088; Background Corrected with Scan 2078

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.8	16362	PASS
75	95	30	60	46.7	45477	PASS
95	95	100	100	100.0	97384	PASS
96	95	5	9	6.9	6706	PASS
173	174	0.00	2	0.4	338	PASS
174	95	50	120	79.1	77029	PASS
175	174	5	9	7.2	5527	PASS
176	174	95	101	95.5	73595	PASS
177	176	5	9	6.7	4930	PASS

2e162969.d M2E8157.M Tue Jul 21 00:26:58 2020

Average of 14.724 to 14.734 min.: 2e162969.d\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	869	50.00	16362	64.05	296	76.05	4106
37.10	4137	51.05	5230	65.00	101	76.95	699
38.05	3551	52.05	276	66.80	65	78.00	418
39.10	1440	55.00	254	67.10	167	78.95	2015
39.95	171	56.05	1180	68.00	9094	80.00	694
44.00	432	57.00	2424	69.00	8830	80.90	2027
45.00	726	58.10	33	70.00	711	81.90	463
46.10	36	60.00	874	72.00	516	82.90	24
47.05	1290	61.00	4383	72.95	3798	85.95	136
47.95	515	62.05	4024	74.00	14375	87.00	4251
49.00	3544	63.00	2970	75.00	45477	88.00	4146

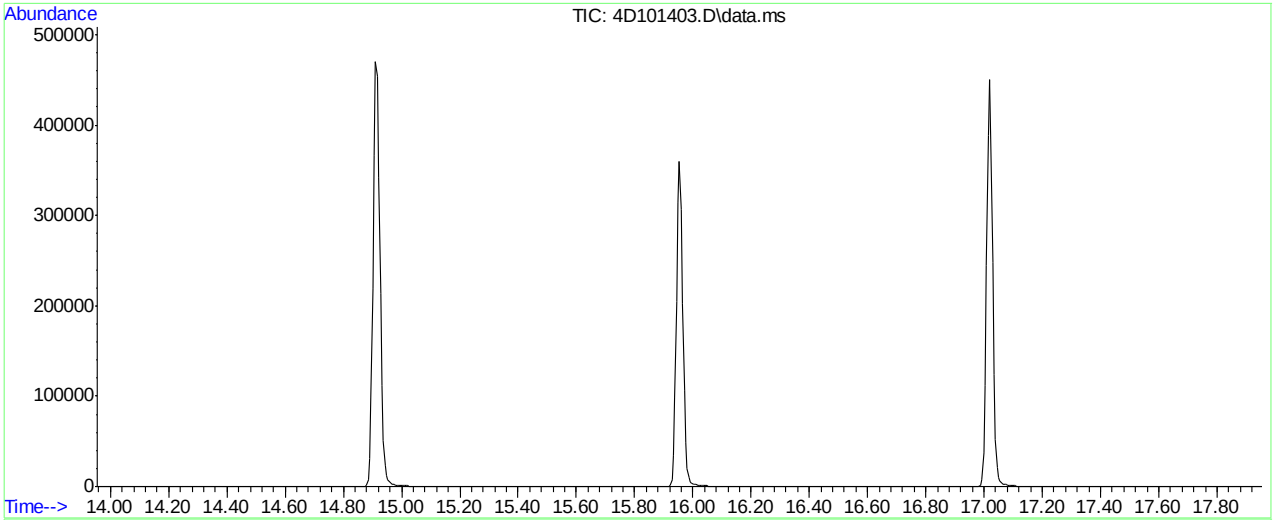
Average of 14.724 to 14.734 min.: 2e162969.d\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
90.95	242	114.95	80	136.95	141	158.90	68
92.00	2322	115.90	294	140.90	791	160.85	75
93.00	3698	116.90	501	141.95	101	172.00	151
94.00	10371	117.95	337	142.90	776	173.00	338
95.00	97384	118.90	434	145.00	108	173.95	77029
96.05	6706	126.90	24	145.75	90	174.95	5527
97.00	179	127.90	297	146.90	77	175.95	73595
103.85	364	128.95	190	147.90	197	176.95	4930
104.95	152	129.95	318	152.90	31	177.95	137
105.90	326	130.95	90	154.95	224	191.00	26
110.80	26	134.95	170	156.95	169		

SW-846 Method 8260

Data File : C:\msdchem\1\data\V4D4496\4D101403.D Vial: 2
Acq On : 16 Apr 2020 3:37 pm Operator: ROBERTS
Sample : BFB Inst : MS4D
Misc : MS42511,V4D4496,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M4D4496.M (RTE Integrator)
Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um



AutoFind: Scans 2396, 2397, 2398; Background Corrected with Scan 2388

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.9	11366	PASS
75	95	30	60	46.4	31219	PASS
95	95	100	100	100.0	67261	PASS
96	95	5	9	6.8	4551	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	91.2	61328	PASS
175	174	5	9	8.0	4897	PASS
176	174	95	101	97.0	59496	PASS
177	176	5	9	6.7	3966	PASS

4D101403.D M4D4496.M Fri Apr 17 16:12:04 2020 RPT1

Average of 15.949 to 15.960 min.: 4D101403.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	510	52.05	106	69.00	6376	80.90	1746
37.00	2785	55.00	119	70.00	444	81.90	355
38.05	2496	56.00	864	72.00	346	87.00	3182
39.05	1007	57.00	1569	73.00	2672	88.00	2873
43.95	441	60.00	559	74.00	10225	90.95	266
45.00	480	61.00	2837	75.00	31219	92.00	1702
47.05	848	62.00	2700	76.00	2692	93.00	2637
48.00	365	63.00	2018	76.95	400	94.00	7472
49.05	2438	64.00	175	78.00	298	95.00	67261
50.00	11366	67.05	175	78.90	1791	96.00	4551
51.05	3471	68.00	6272	79.95	464	103.90	260

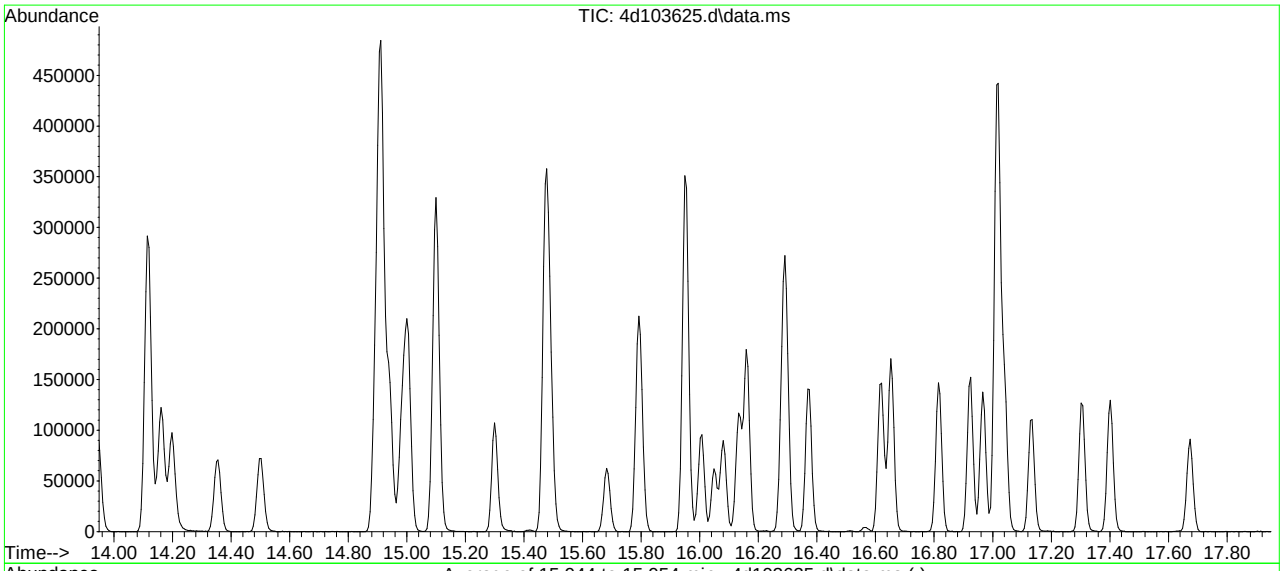
Average of 15.949 to 15.960 min.: 4D101403.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
105.85	275	154.90	68				
115.95	203	173.90	61328				
116.90	405	174.95	4897				
117.90	241	175.90	59496				
118.90	322	176.90	3966				
127.90	233						
129.00	51						
129.85	243						
140.90	666						
142.95	607						
147.90	113						

SW-846 Method 8260

Data File : C:\msdchem\1\data\ja...20\v4d4597\4d103625.d Vial: 2
Acq On : 27 Jul 2020 8:27 am Operator: mariceld
Sample : BFB Inst : MS4D
Misc : MS44684,V4D4597,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M4D4496.M (RTE Integrator)
Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um



AutoFind: Scans 2395, 2396, 2397; Background Corrected with Scan 2388

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.0	10266	PASS
75	95	30	60	42.6	29096	PASS
95	95	100	100	100.0	68379	PASS
96	95	5	9	6.6	4516	PASS
173	174	0.00	2	0.8	483	PASS
174	95	50	120	92.1	62989	PASS
175	174	5	9	7.6	4779	PASS
176	174	95	101	96.1	60512	PASS
177	176	5	9	6.8	4122	PASS

4d103625.d M4D4496.M Mon Jul 27 22:06:23 2020

Average of 15.944 to 15.954 min.: 4d103625.d\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.10	424	51.10	3248	68.10	5760	80.00	444
37.15	2416	52.10	60	69.10	5821	81.00	1502
38.10	2127	55.10	55	70.10	431	82.00	324
39.10	882	56.10	760	72.05	273	87.10	3177
40.10	108	57.10	1485	73.10	2453	88.10	3186
44.10	368	60.10	441	74.10	9275	91.05	211
45.10	476	61.10	2465	75.10	29096	92.10	1589
47.15	746	62.10	2377	76.10	2526	93.10	2503
48.10	277	63.10	1757	77.10	378	94.10	7196
49.10	2218	64.10	68	78.05	331	95.10	68379
50.10	10266	67.05	107	79.00	1444	96.10	4516

Average of 15.944 to 15.954 min.: 4d103625.d\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
97.05	106	148.00	68				
104.00	244	155.00	117				
105.95	232	157.00	54				
116.00	196	173.15	483				
117.00	355	174.00	62989				
117.95	152	175.10	4779				
119.00	302	176.00	60512				
128.00	250	177.00	4122				
129.95	219						
141.00	563						
143.00	640						

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162816.D
Acq On : 14 Jul 2020 6:33 pm
Operator : brittank
Sample : ic8157-0.2
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 15 11:41:35 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 10:49:37 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	7.294	65	143732	500.00	ug/L		0.00
5) pentafluorobenzene	9.528	168	271812	50.00	ug/L		0.00
53) 1,4-difluorobenzene	10.440	114	409243	50.00	ug/L		0.00
74) chlorobenzene-d5	13.586	117	337842	50.00	ug/L		0.00
97) 1,4-dichlorobenzene-d4	15.882	152	164601	50.00	ug/L		0.00
System Monitoring Compounds							
47) dibromofluoromethane (s)	9.575	113	135978	50.28	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.56%				
54) 1,2-dichloroethane-d4 (s)	9.995	65	156194	50.45	ug/L		0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 100.90%				
75) toluene-d8 (s)	12.081	98	533145	49.93	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.86%				
98) 4-bromofluorobenzene (s)	14.729	95	187749	51.19	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 102.38%				
Target Compounds							Qvalue
3) tertiary butyl alcohol	7.415	59	511	1.20	ug/L		62
6) chlorodifluoromethane	4.007	51	1205	0.21	ug/L		84
9) vinyl chloride	4.610	62	1051	0.18	ug/L		88
11) chloroethane	5.370	64	750	0.23	ug/L		74
13) 1,3-butadiene	4.631	54	887	0.20	ug/L	#	58
14) vinyl bromide	5.732	106	445	0.20	ug/L	#	66
18) 1,1-dichloroethene	6.644	61	998	0.18	ug/L		96
21) iodomethane	6.912	142	1145	0.20	ug/L		71
22) carbon disulfide	7.048	76	2069	0.21	ug/L		92
23) methylene chloride	7.347	84	771	0.20	ug/L		88
25) methyl tert butyl ether	7.682	73	2097	0.21	ug/L		91
26) trans-1,2-dichloroethene	7.724	61	1045	0.19	ug/L		85
27) hexane	8.023	56	500	0.17	ug/L	#	40
28) di-isopropyl ether	8.270	45	2548	0.19	ug/L	#	41
29) ethyl tert-butyl ether	8.726	59	2326	0.19	ug/L		81
31) 1,1-dichloroethane	8.280	63	1298	0.20	ug/L		95
36) 2,2-dichloropropane	9.019	77	1225	0.25	ug/L		93
37) cis-1,2-dichloroethene	9.025	96	760	0.20	ug/L		82
40) bromochloromethane	9.329	128	371	0.21	ug/L	#	58
42) chloroform	9.376	83	1454	0.25	ug/L		92
44) 1,1-dichloropropene	9.816	75	953	0.19	ug/L		92
45) carbon tetrachloride	9.848	117	861	0.19	ug/L	#	82
49) 1,1,1-trichloroethane	9.638	97	952	0.18	ug/L	#	58
50) cyclohexane	9.706	84	1067	0.18	ug/L		92
55) 2,2,4-trimethylpentane	10.068	57	2496	0.18	ug/L		86
57) benzene	10.073	78	3226	0.22	ug/L		96
58) tert-amyl methyl ether	10.105	73	2333	0.20	ug/L		86
59) heptane	10.246	57	458	0.17	ug/L	#	79
62) trichloroethene	10.802	95	635	0.18	ug/L	#	65
64) 2-chloroethyl vinyl ether	11.594	63	1541	0.77	ug/L		92
66) 1,2-dichloropropane	11.059	63	786	0.20	ug/L		94
68) dibromomethane	11.227	93	404	0.20	ug/L	#	64
69) bromodichloromethane	11.342	83	966	0.22	ug/L		91
71) cis-1,3-dichloropropene	11.803	75	1094	0.19	ug/L		86
72) 4-methyl-2-pentanone	11.893	58	832	0.64	ug/L	#	66
76) toluene	12.165	92	1682	0.20	ug/L		88
79) 1,1,2-trichloroethane	12.564	83	460	0.19	ug/L	#	87
82) 1,3-dichloropropane	12.752	76	985	0.20	ug/L		86
84) dibromochloromethane	13.009	129	613	0.20	ug/L		84
87) chlorobenzene	13.617	112	1752	0.20	ug/L		88

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162816.D
Acq On : 14 Jul 2020 6:33 pm
Operator : brittank
Sample : ic8157-0.2
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 15 11:41:35 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 10:49:37 2020
Response via : Initial Calibration

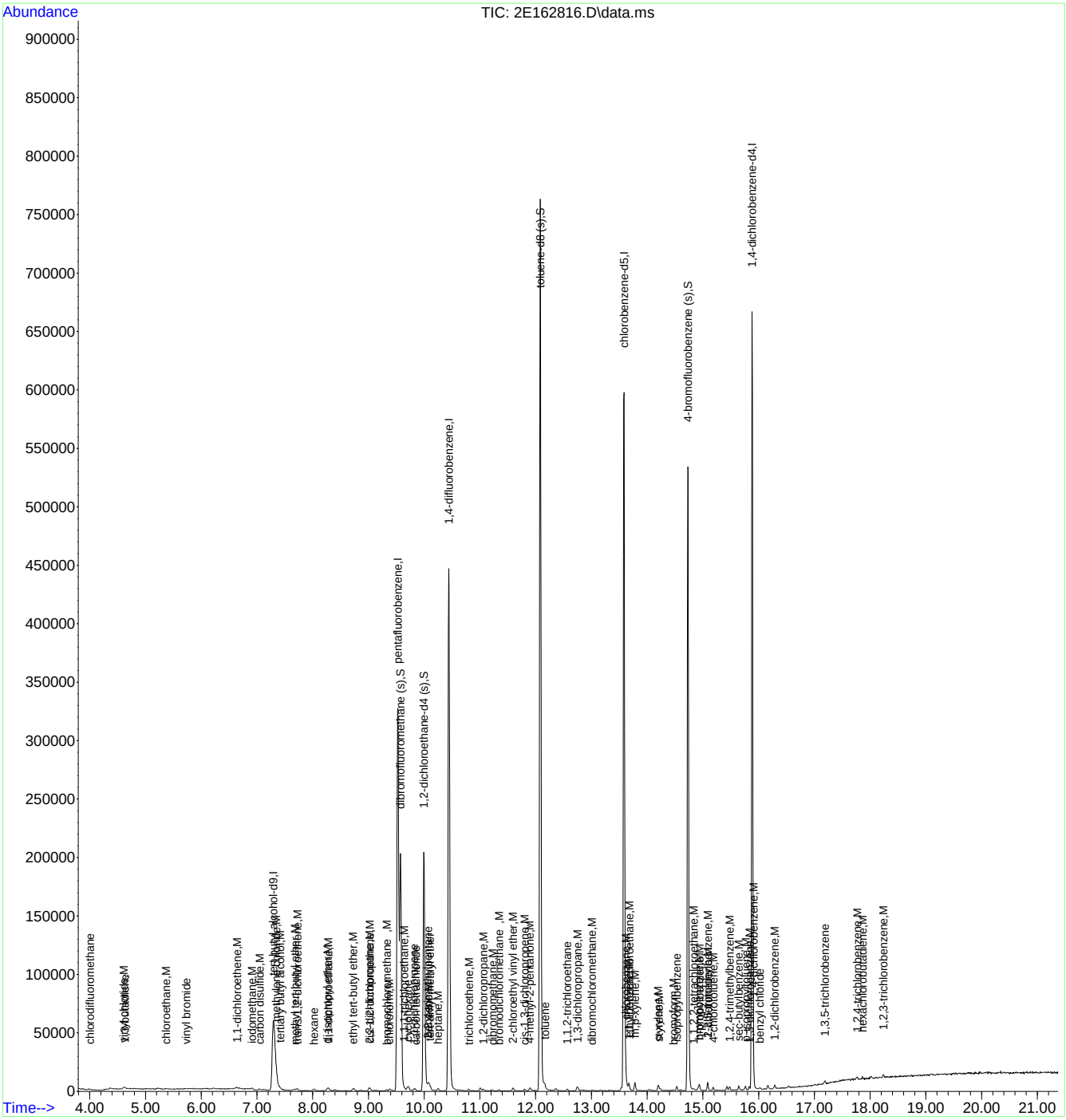
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
88) 1,1,1,2-tetrachloroethane	13.680	131	574	0.18	ug/L		71
89) ethylbenzene	13.675	91	2834	0.19	ug/L		89
90) m,p-xylene	13.780	106	2095	0.36	ug/L	#	80
91) o-xylene	14.194	91	2283	0.18	ug/L		92
92) styrene	14.210	104	1569	0.17	ug/L		86
94) bromoform	14.472	173	323	0.17	ug/L		80
95) isopropylbenzene	14.530	105	2632	0.18	ug/L		96
99) bromobenzene	14.928	156	716	0.21	ug/L	#	83
100) 1,1,2,2-tetrachloroethane	14.834	83	714	0.21	ug/L		93
103) n-propylbenzene	14.939	91	3209	0.19	ug/L		91
104) 2-chlorotoluene	15.086	126	593	0.18	ug/L	#	78
105) 4-chlorotoluene	15.185	91	2052	0.21	ug/L		88
106) 1,3,5-trimethylbenzene	15.086	105	2111	0.18	ug/L		94
108) 1,2,4-trimethylbenzene	15.479	105	2049	0.17	ug/L		93
109) sec-butylbenzene	15.641	105	2688	0.18	ug/L		98
110) 1,3-dichlorobenzene	15.835	146	1241	0.20	ug/L		96
111) p-isopropyltoluene	15.767	119	2255	0.18	ug/L		88
112) 1,4-dichlorobenzene	15.909	146	1379	0.22	ug/L		92
113) 1,2-dichlorobenzene	16.286	146	1323	0.21	ug/L		97
116) 1,3,5-trichlorobenzene	17.188	180	1078	0.20	ug/L		96
117) 1,2,4-trichlorobenzene	17.770	180	820	0.18	ug/L		79
119) hexachlorobutadiene	17.864	225	431	0.18	ug/L		89
121) 1,2,3-trichlorobenzene	18.237	180	753	0.18	ug/L		98
123) benzyl chloride	16.019	91	1166	0.19	ug/L		96

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162816.D
Acq On : 14 Jul 2020 6:33 pm
Operator : brittank
Sample : ic8157-0.2
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 15 11:41:35 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 10:49:37 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162817.D
Acq On : 14 Jul 2020 7:03 pm
Operator : brittank
Sample : ic8157-0.5
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 15 11:45:37 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 10:49:37 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	7.289	65	142416	500.00	ug/L		-0.01
5) pentafluorobenzene	9.528	168	274128	50.00	ug/L		0.00
53) 1,4-difluorobenzene	10.440	114	409125	50.00	ug/L		0.00
74) chlorobenzene-d5	13.586	117	337531	50.00	ug/L		0.00
97) 1,4-dichlorobenzene-d4	15.882	152	166007	50.00	ug/L		0.00
System Monitoring Compounds							
47) dibromofluoromethane (s)	9.575	113	136095	49.89	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.78%				
54) 1,2-dichloroethane-d4 (s)	9.995	65	155141	50.13	ug/L		0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 100.26%				
75) toluene-d8 (s)	12.081	98	529150	49.60	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.20%				
98) 4-bromofluorobenzene (s)	14.729	95	188832	51.05	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 102.10%				
Target Compounds							Qvalue
3) tertiary butyl alcohol	7.410	59	1237	2.94	ug/L		66
6) chlorodifluoromethane	3.986	51	2722	0.48	ug/L		90
7) dichlorodifluoromethane	3.965	85	2785	0.44	ug/L		92
9) vinyl chloride	4.594	62	2757	0.46	ug/L		92
11) chloroethane	5.365	64	1771	0.55	ug/L		91
12) trichlorofluoromethane	5.821	101	2813	0.48	ug/L		78
13) 1,3-butadiene	4.626	54	2066	0.47	ug/L		95
14) vinyl bromide	5.727	106	1109	0.49	ug/L	#	70
15) ethyl ether	6.225	74	1106	0.53	ug/L	#	61
17) freon 113	6.608	151	1236	0.45	ug/L	#	70
18) 1,1-dichloroethene	6.634	61	2620	0.47	ug/L		98
20) acetonitrile	7.121	41	2876	6.08	ug/L		81
21) iodomethane	6.912	142	2934	0.51	ug/L		92
22) carbon disulfide	7.043	76	4647	0.47	ug/L		93
23) methylene chloride	7.342	84	2022	0.53	ug/L		92
24) methyl acetate	7.163	43	1458	0.55	ug/L		87
25) methyl tert butyl ether	7.672	73	4699	0.47	ug/L		99
26) trans-1,2-dichloroethene	7.719	61	2554	0.47	ug/L		96
27) hexane	8.023	56	1457	0.50	ug/L	#	76
28) di-isopropyl ether	8.264	45	6215	0.47	ug/L	#	51
29) ethyl tert-butyl ether	8.726	59	5741	0.47	ug/L		97
31) 1,1-dichloroethane	8.280	63	3373	0.50	ug/L		98
32) chloroprene	8.390	53	2518	0.47	ug/L		88
33) acrylonitrile	7.714	53	598	0.45	ug/L	#	57
36) 2,2-dichloropropane	9.019	77	2688	0.55	ug/L		85
37) cis-1,2-dichloroethene	9.014	96	1993	0.52	ug/L		87
40) bromochloromethane	9.323	128	850	0.48	ug/L		89
42) chloroform	9.376	83	3317	0.56	ug/L		77
43) t-butyl formate	9.413	59	977	0.32	ug/L		82
44) 1,1-dichloropropene	9.816	75	2228	0.45	ug/L		96
45) carbon tetrachloride	9.842	117	2068	0.46	ug/L		94
48) methacrylonitrile	9.287	67	472	0.35	ug/L	#	42
49) 1,1,1-trichloroethane	9.633	97	2576	0.49	ug/L		96
50) cyclohexane	9.711	84	2706	0.45	ug/L		92
51) iso-butyl alcohol	9.832	43	790	5.67	ug/L		89
55) 2,2,4-trimethylpentane	10.068	57	6459	0.46	ug/L		93
57) benzene	10.073	78	7714	0.53	ug/L		93
58) tert-amyl methyl ether	10.105	73	5475	0.48	ug/L		98
59) heptane	10.246	57	1123	0.41	ug/L		85
60) 1,2-dichloroethane	10.094	62	2424	0.55	ug/L		94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162817.D
Acq On : 14 Jul 2020 7:03 pm
Operator : brittank
Sample : ic8157-0.5
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 15 11:45:37 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 10:49:37 2020
Response via : Initial Calibration

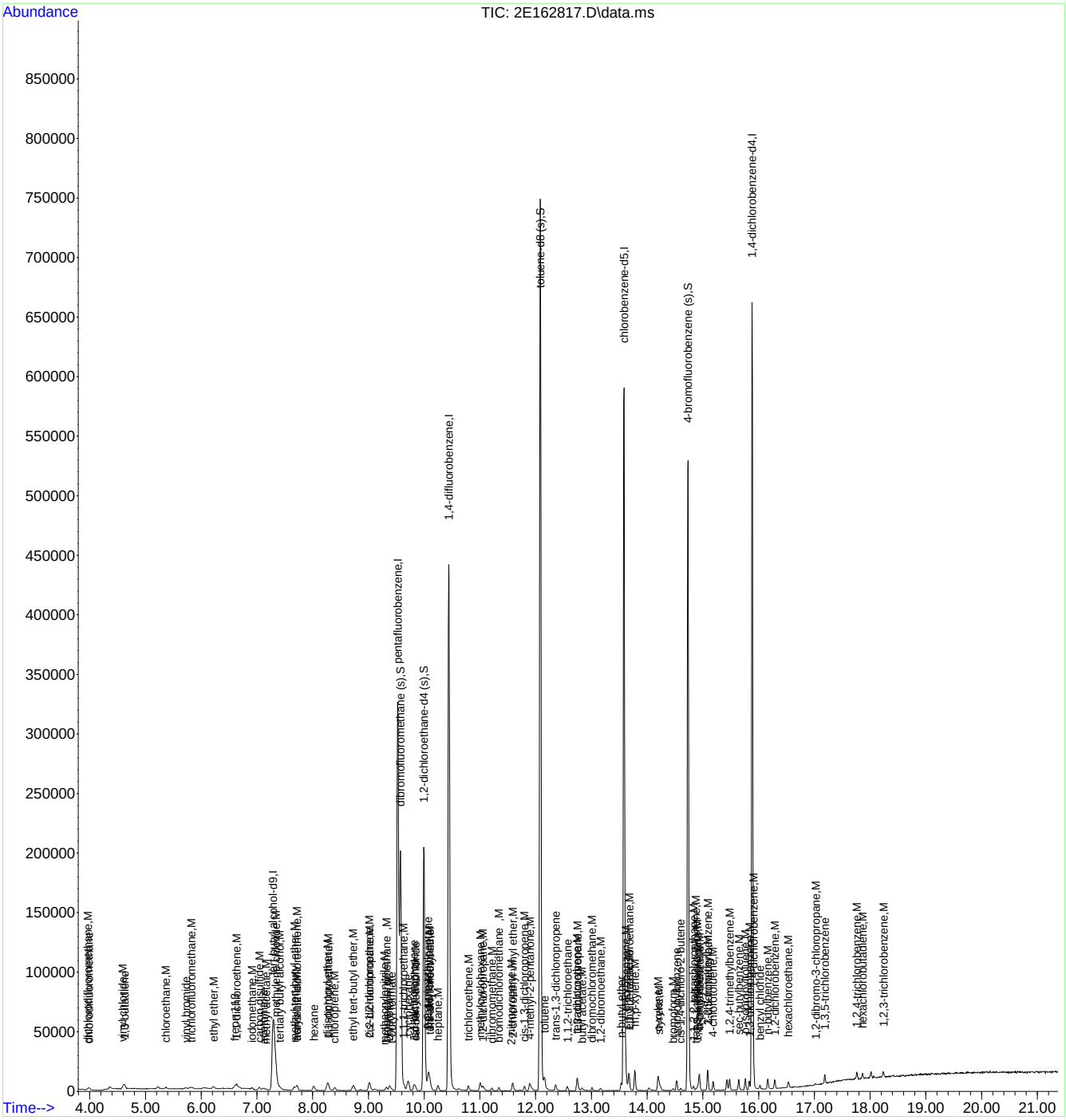
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
62) trichloroethene	10.797	95	1580	0.46 ug/L	89
63) 2-nitropropane	11.562	41	457	0.44 ug/L #	25
64) 2-chloroethyl vinyl ether	11.588	63	3781	1.88 ug/L	90
66) 1,2-dichloropropane	11.054	63	1784	0.46 ug/L	92
67) methylcyclohexane	11.006	83	3218	0.46 ug/L	92
68) dibromomethane	11.211	93	913	0.46 ug/L	86
69) bromodichloromethane	11.337	83	2185	0.49 ug/L	94
71) cis-1,3-dichloropropene	11.798	75	2600	0.44 ug/L	90
72) 4-methyl-2-pentanone	11.898	58	2187	1.70 ug/L #	83
76) toluene	12.160	92	3789	0.45 ug/L	95
78) trans-1,3-dichloropropene	12.359	75	2135	0.43 ug/L	93
79) 1,1,2-trichloroethane	12.574	83	1174	0.49 ug/L #	85
80) tetrachloroethene	12.742	164	1279	0.47 ug/L	87
82) 1,3-dichloropropane	12.747	76	2468	0.49 ug/L	90
83) butyl acetate	12.831	56	873	0.38 ug/L #	50
84) dibromochloromethane	13.009	129	1614	0.52 ug/L	94
85) 1,2-dibromoethane	13.167	107	1796	0.48 ug/L	91
86) n-butyl ether	13.534	57	6451	0.40 ug/L	99
87) chlorobenzene	13.617	112	4307	0.49 ug/L	93
88) 1,1,1,2-tetrachloroethane	13.680	131	1481	0.48 ug/L	84
89) ethylbenzene	13.675	91	6979	0.46 ug/L	96
90) m,p-xylene	13.780	106	5467	0.94 ug/L	90
91) o-xylene	14.194	91	5590	0.45 ug/L	99
92) styrene	14.210	104	3835	0.40 ug/L	93
94) bromoform	14.467	173	846	0.44 ug/L	82
95) isopropylbenzene	14.530	105	6219	0.41 ug/L	96
96) cis-1,4-dichloro-2-butene	14.598	75	616	0.49 ug/L #	73
99) bromobenzene	14.928	156	1827	0.52 ug/L	90
100) 1,1,2,2-tetrachloroethane	14.834	83	1857	0.54 ug/L	98
101) trans-1,4-dichloro-2-b...	14.876	53	414	0.44 ug/L #	55
102) 1,2,3-trichloropropane	14.902	110	436	0.47 ug/L	82
103) n-propylbenzene	14.939	91	7932	0.48 ug/L	98
104) 2-chlorotoluene	15.086	126	1549	0.46 ug/L	98
105) 4-chlorotoluene	15.180	91	5163	0.52 ug/L	98
106) 1,3,5-trimethylbenzene	15.086	105	5242	0.44 ug/L	91
108) 1,2,4-trimethylbenzene	15.479	105	5296	0.44 ug/L	95
109) sec-butylbenzene	15.647	105	6314	0.42 ug/L	98
110) 1,3-dichlorobenzene	15.835	146	3238	0.51 ug/L	93
111) p-isopropyltoluene	15.762	119	5283	0.42 ug/L	95
112) 1,4-dichlorobenzene	15.909	146	3253	0.50 ug/L	85
113) 1,2-dichlorobenzene	16.291	146	3149	0.50 ug/L	87
114) n-butylbenzene	16.160	92	2523	0.40 ug/L	81
115) 1,2-dibromo-3-chloropr...	17.025	157	316	0.43 ug/L #	77
116) 1,3,5-trichlorobenzene	17.188	180	2496	0.46 ug/L	92
117) 1,2,4-trichlorobenzene	17.759	180	1940	0.42 ug/L	93
119) hexachlorobutadiene	17.864	225	1031	0.43 ug/L	92
121) 1,2,3-trichlorobenzene	18.242	180	1710	0.40 ug/L	83
122) hexachloroethane	16.533	201	789	0.38 ug/L	95
123) benzyl chloride	16.024	91	2753	0.45 ug/L	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162817.D
Acq On : 14 Jul 2020 7:03 pm
Operator : brittank
Sample : ic8157-0.5
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 15 11:45:37 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 10:49:37 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162818.D
Acq On : 14 Jul 2020 7:33 pm
Operator : brittank
Sample : ic8157-1
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 15 11:49:12 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 10:49:37 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	7.300	65	143821	500.00	ug/L		0.00
5) pentafluorobenzene	9.528	168	267553	50.00	ug/L		0.00
53) 1,4-difluorobenzene	10.446	114	400143	50.00	ug/L		0.00
74) chlorobenzene-d5	13.586	117	332850	50.00	ug/L		0.00
97) 1,4-dichlorobenzene-d4	15.883	152	163283	50.00	ug/L		0.00
System Monitoring Compounds							
47) dibromofluoromethane (s)	9.575	113	133713	50.23	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.46%				
54) 1,2-dichloroethane-d4 (s)	9.995	65	153068	50.57	ug/L		0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 101.14%				
75) toluene-d8 (s)	12.081	98	526907	50.09	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.18%				
98) 4-bromofluorobenzene (s)	14.729	95	186938	51.38	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 102.76%				
Target Compounds							Qvalue
2) ethanol	6.052	45	4777	123.26	ug/L		93
3) tertiary butyl alcohol	7.420	59	2792	6.56	ug/L		80
6) chlorodifluoromethane	3.986	51	5852	1.05	ug/L		93
7) dichlorodifluoromethane	3.965	85	5952	0.97	ug/L		99
8) chloromethane	4.364	50	7604	1.23	ug/L		98
9) vinyl chloride	4.600	62	6099	1.05	ug/L		97
10) bromomethane	5.223	94	3806	1.17	ug/L		91
11) chloroethane	5.370	64	3512	1.11	ug/L		90
12) trichlorofluoromethane	5.826	101	6095	1.07	ug/L		81
13) 1,3-butadiene	4.626	54	4501	1.05	ug/L		92
14) vinyl bromide	5.722	106	2510	1.12	ug/L		96
15) ethyl ether	6.214	74	2122	1.05	ug/L	#	76
16) acrolein	6.466	56	701	1.02	ug/L		74
17) freon 113	6.608	151	2847	1.06	ug/L	#	79
18) 1,1-dichloroethene	6.634	61	5658	1.04	ug/L		95
19) acetone	6.681	43	4182	4.90	ug/L		74
21) iodomethane	6.912	142	5740	1.02	ug/L		98
22) carbon disulfide	7.043	76	9957	1.03	ug/L		97
23) methylene chloride	7.352	84	3997	1.08	ug/L		81
24) methyl acetate	7.148	43	2908	1.11	ug/L		92
25) methyl tert butyl ether	7.672	73	9787	1.01	ug/L		97
26) trans-1,2-dichloroethene	7.714	61	5291	1.00	ug/L		89
27) hexane	8.018	56	2961	1.04	ug/L	#	70
28) di-isopropyl ether	8.270	45	12466	0.96	ug/L	#	56
29) ethyl tert-butyl ether	8.726	59	12044	1.00	ug/L		96
30) 2-butanone	9.014	72	1066	3.07	ug/L		96
31) 1,1-dichloroethane	8.285	63	6732	1.03	ug/L		95
32) chloroprene	8.390	53	4866	0.92	ug/L		95
33) acrylonitrile	7.693	53	1362	1.05	ug/L		81
35) ethyl acetate	9.030	45	480	0.87	ug/L	#	83
36) 2,2-dichloropropane	9.014	77	5388	1.12	ug/L		94
37) cis-1,2-dichloroethene	9.014	96	3980	1.07	ug/L	#	78
38) propionitrile	9.098	54	5103	10.91	ug/L		66
40) bromochloromethane	9.329	128	1758	1.01	ug/L		91
41) tetrahydrofuran	9.376	72	401	0.99	ug/L	#	59
42) chloroform	9.381	83	6501	1.13	ug/L		96
44) 1,1-dichloropropene	9.811	75	5056	1.05	ug/L		95
45) carbon tetrachloride	9.837	117	4471	1.01	ug/L		94
46) isopropyl acetate	10.000	87	575	0.77	ug/L	#	33
48) methacrylonitrile	9.282	67	1206	0.92	ug/L	#	70

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162818.D
Acq On : 14 Jul 2020 7:33 pm
Operator : brittank
Sample : ic8157-1
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 15 11:49:12 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 10:49:37 2020
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49)	1,1,1-trichloroethane	9.628	97	5114	0.99	ug/L		97
50)	cyclohexane	9.711	84	6079	1.03	ug/L		96
51)	iso-butyl alcohol	9.832	43	1489	10.95	ug/L		83
52)	tert amyl alcohol	9.958	73	925	5.79	ug/L	#	36
55)	2,2,4-trimethylpentane	10.068	57	13249	0.96	ug/L		92
56)	n-butyl alcohol	10.613	56	3743	39.93	ug/L		89
57)	benzene	10.079	78	15299	1.08	ug/L		94
58)	tert-amyl methyl ether	10.110	73	11342	1.01	ug/L		97
59)	heptane	10.246	57	2703	1.01	ug/L		91
60)	1,2-dichloroethane	10.089	62	4875	1.13	ug/L		93
61)	ethyl acrylate	10.823	55	3619	0.90	ug/L		85
62)	trichloroethene	10.792	95	3454	1.02	ug/L		87
63)	2-nitropropane	11.557	41	1169	1.16	ug/L	#	17
64)	2-chloroethyl vinyl ether	11.583	63	8620	4.39	ug/L		92
66)	1,2-dichloropropane	11.054	63	3666	0.96	ug/L		88
67)	methylcyclohexane	11.007	83	6462	0.94	ug/L		98
68)	dibromomethane	11.216	93	1935	0.99	ug/L		98
69)	bromodichloromethane	11.337	83	4527	1.04	ug/L		99
70)	epichlorohydrin	11.704	57	1499	4.77	ug/L		81
71)	cis-1,3-dichloropropene	11.798	75	5416	0.94	ug/L		92
72)	4-methyl-2-pentanone	11.887	58	4656	3.69	ug/L		90
73)	3-methyl-1-butanol	11.924	70	1414	15.87	ug/L	#	81
76)	toluene	12.160	92	8358	1.00	ug/L		95
77)	ethyl methacrylate	12.354	69	3345	0.81	ug/L		91
78)	trans-1,3-dichloropropene	12.354	75	4508	0.91	ug/L		97
79)	1,1,2-trichloroethane	12.569	83	2537	1.06	ug/L		98
80)	tetrachloroethene	12.742	164	2791	1.04	ug/L		82
81)	2-hexanone	12.747	58	3520	3.03	ug/L		97
82)	1,3-dichloropropane	12.752	76	5155	1.04	ug/L		90
83)	butyl acetate	12.826	56	1851	0.82	ug/L		98
84)	dibromochloromethane	13.009	129	2956	0.97	ug/L		96
85)	1,2-dibromoethane	13.161	107	3538	0.96	ug/L		90
86)	n-butyl ether	13.534	57	13920	0.89	ug/L		97
87)	chlorobenzene	13.618	112	8764	1.01	ug/L		89
88)	1,1,1,2-tetrachloroethane	13.675	131	2907	0.95	ug/L		92
89)	ethylbenzene	13.670	91	15173	1.01	ug/L		95
90)	m,p-xylene	13.780	106	10856	1.89	ug/L		93
91)	o-xylene	14.194	91	11851	0.97	ug/L		92
92)	styrene	14.205	104	8117	0.87	ug/L		95
94)	bromoform	14.467	173	1616	0.85	ug/L		95
95)	isopropylbenzene	14.530	105	13534	0.92	ug/L		99
96)	cis-1,4-dichloro-2-butene	14.598	75	1064	0.86	ug/L		93
99)	bromobenzene	14.928	156	3694	1.08	ug/L		90
100)	1,1,2,2-tetrachloroethane	14.834	83	3457	1.02	ug/L		96
101)	trans-1,4-dichloro-2-b...	14.876	53	780	0.84	ug/L	#	59
102)	1,2,3-trichloropropane	14.907	110	982	1.07	ug/L		87
103)	n-propylbenzene	14.939	91	16295	0.99	ug/L		100
104)	2-chlorotoluene	15.086	126	3471	1.05	ug/L	#	78
105)	4-chlorotoluene	15.185	91	9946	1.01	ug/L		93
106)	1,3,5-trimethylbenzene	15.091	105	11399	0.96	ug/L		95
107)	tert-butylbenzene	15.432	119	9634	0.93	ug/L		98
108)	1,2,4-trimethylbenzene	15.479	105	10757	0.92	ug/L		93
109)	sec-butylbenzene	15.641	105	14402	0.97	ug/L		96
110)	1,3-dichlorobenzene	15.830	146	6324	1.01	ug/L		98
111)	p-isopropyltoluene	15.762	119	11153	0.90	ug/L		93
112)	1,4-dichlorobenzene	15.909	146	6829	1.07	ug/L		92
113)	1,2-dichlorobenzene	16.291	146	6118	0.98	ug/L		95
114)	n-butylbenzene	16.166	92	5484	0.88	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162818.D
Acq On : 14 Jul 2020 7:33 pm
Operator : brittank
Sample : ic8157-1
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 15 11:49:12 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 10:49:37 2020
Response via : Initial Calibration

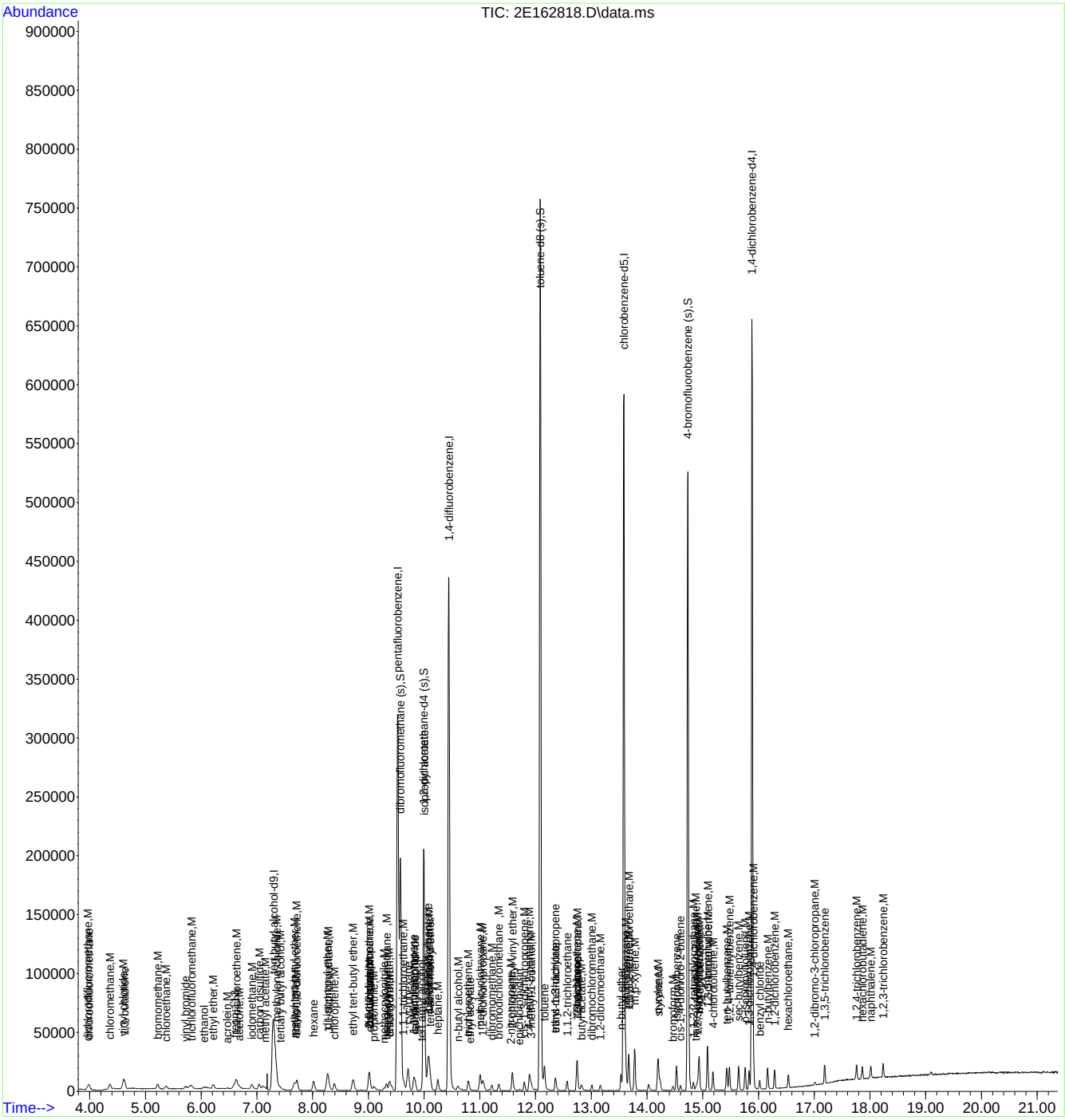
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
115) 1,2-dibromo-3-chloropr...	17.010	157	650	0.91	ug/L	85
116) 1,3,5-trichlorobenzene	17.188	180	5056	0.94	ug/L	96
117) 1,2,4-trichlorobenzene	17.760	180	3647	0.80	ug/L	97
119) hexachlorobutadiene	17.864	225	2322	0.99	ug/L	95
120) naphthalene	18.011	128	7821	0.76	ug/L	92
121) 1,2,3-trichlorobenzene	18.237	180	3731	0.89	ug/L	88
122) hexachloroethane	16.533	201	1748	0.86	ug/L	88
123) benzyl chloride	16.024	91	5354	0.89	ug/L	97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162818.D
Acq On : 14 Jul 2020 7:33 pm
Operator : brittank
Sample : ic8157-1
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 15 11:49:12 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 10:49:37 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162819.D
Acq On : 14 Jul 2020 8:03 pm
Operator : brittank
Sample : ic8157-2
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 15 11:49:56 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 10:49:37 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.300	65	147585	500.00	ug/L	0.00
5) pentafluorobenzene	9.528	168	271193	50.00	ug/L	0.00
53) 1,4-difluorobenzene	10.446	114	408207	50.00	ug/L	0.00
74) chlorobenzene-d5	13.586	117	333437	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	15.883	152	166048	50.00	ug/L	0.00
System Monitoring Compounds						
47) dibromofluoromethane (s)	9.575	113	135341	50.15	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.30%			
54) 1,2-dichloroethane-d4 (s)	9.995	65	156821	50.78	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 101.56%			
75) toluene-d8 (s)	12.081	98	529462	50.24	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.48%			
98) 4-bromofluorobenzene (s)	14.734	95	188129	50.85	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 101.70%			
Target Compounds						Qvalue
2) ethanol	6.062	45	9658	242.86	ug/L	87
3) tertiary butyl alcohol	7.410	59	5433	12.44	ug/L	82
4) 1,4-dioxane	11.174	88	1876	57.71	ug/L	84
6) chlorodifluoromethane	3.997	51	12142	2.15	ug/L	97
7) dichlorodifluoromethane	3.970	85	11866	1.91	ug/L	96
8) chloromethane	4.364	50	13194	2.10	ug/L	93
9) vinyl chloride	4.605	62	11545	1.95	ug/L	94
10) bromomethane	5.223	94	7187	2.18	ug/L	96
11) chloroethane	5.370	64	6569	2.05	ug/L	97
12) trichlorofluoromethane	5.821	101	11549	2.01	ug/L	99
13) 1,3-butadiene	4.631	54	9186	2.11	ug/L	90
14) vinyl bromide	5.722	106	4430	1.96	ug/L	84
15) ethyl ether	6.220	74	4416	2.15	ug/L	93
16) acrolein	6.466	56	1371	1.97	ug/L	67
17) freon 113	6.597	151	5756	2.12	ug/L	90
18) 1,1-dichloroethene	6.639	61	11947	2.16	ug/L	99
19) acetone	6.681	43	8435	9.75	ug/L	93
21) iodomethane	6.912	142	11758	2.05	ug/L	97
22) carbon disulfide	7.038	76	20704	2.11	ug/L	93
23) methylene chloride	7.347	84	8216	2.18	ug/L	99
24) methyl acetate	7.148	43	6261	2.37	ug/L	97
25) methyl tert butyl ether	7.672	73	20043	2.04	ug/L	96
26) trans-1,2-dichloroethene	7.719	61	11391	2.13	ug/L	96
27) hexane	8.018	56	6032	2.10	ug/L	90
28) di-isopropyl ether	8.264	45	26937	2.05	ug/L #	55
29) ethyl tert-butyl ether	8.726	59	25131	2.07	ug/L	99
30) 2-butanone	9.004	72	2685	7.62	ug/L #	73
31) 1,1-dichloroethane	8.280	63	14469	2.18	ug/L	99
32) chloroprene	8.396	53	10338	1.93	ug/L	92
33) acrylonitrile	7.677	53	2777	2.12	ug/L	74
34) vinyl acetate	8.301	86	1135	1.49	ug/L #	1
35) ethyl acetate	9.019	45	962	1.72	ug/L #	19
36) 2,2-dichloropropane	9.014	77	10803	2.22	ug/L	94
37) cis-1,2-dichloroethene	9.014	96	8569	2.26	ug/L	88
38) propionitrile	9.088	54	10394	21.93	ug/L	62
39) methyl acrylate	9.103	85	662	1.38	ug/L #	47
40) bromochloromethane	9.329	128	3812	2.16	ug/L	85
41) tetrahydrofuran	9.376	72	923	2.25	ug/L #	74
42) chloroform	9.376	83	13200	2.26	ug/L	94
43) t-butyl formate	9.418	59	5394	1.78	ug/L	90

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162819.D
Acq On : 14 Jul 2020 8:03 pm
Operator : brittank
Sample : ic8157-2
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 15 11:49:56 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 10:49:37 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 1,1-dichloropropene	9.816	75	10641	2.18	ug/L		97
45) carbon tetrachloride	9.837	117	9315	2.07	ug/L		97
46) isopropyl acetate	10.000	87	1545	2.04	ug/L	#	43
48) methacrylonitrile	9.287	67	2590	1.95	ug/L		92
49) 1,1,1-trichloroethane	9.633	97	10947	2.09	ug/L		97
50) cyclohexane	9.706	84	11355	1.89	ug/L	#	81
51) iso-butyl alcohol	9.837	43	3231	23.44	ug/L		75
52) tert amyl alcohol	9.947	73	1945	12.00	ug/L	#	73
55) 2,2,4-trimethylpentane	10.073	57	27990	1.99	ug/L		97
56) n-butyl alcohol	10.592	56	9029	94.43	ug/L		95
57) benzene	10.079	78	31387	2.17	ug/L		99
58) tert-amyl methyl ether	10.110	73	24354	2.13	ug/L		98
59) heptane	10.246	57	5227	1.91	ug/L		93
60) 1,2-dichloroethane	10.089	62	9897	2.26	ug/L		97
61) ethyl acrylate	10.813	55	7618	1.85	ug/L		91
62) trichloroethene	10.792	95	7283	2.11	ug/L		96
63) 2-nitropropane	11.557	41	2197	2.14	ug/L	#	39
64) 2-chloroethyl vinyl ether	11.583	63	18546	9.26	ug/L		95
65) methyl methacrylate	11.075	100	1428	1.70	ug/L	#	32
66) 1,2-dichloropropane	11.054	63	8225	2.12	ug/L		100
67) methylcyclohexane	11.007	83	14186	2.02	ug/L		99
68) dibromomethane	11.216	93	4221	2.12	ug/L		96
69) bromodichloromethane	11.342	83	9142	2.05	ug/L		99
70) epichlorohydrin	11.709	57	3270	10.21	ug/L		89
71) cis-1,3-dichloropropene	11.798	75	11849	2.01	ug/L		100
72) 4-methyl-2-pentanone	11.887	58	10173	7.90	ug/L		97
73) 3-methyl-1-butanol	11.914	70	3378	37.16	ug/L	#	83
76) toluene	12.160	92	17674	2.11	ug/L		98
77) ethyl methacrylate	12.349	69	7387	1.78	ug/L		93
78) trans-1,3-dichloropropene	12.354	75	9857	1.99	ug/L		99
79) 1,1,2-trichloroethane	12.564	83	5390	2.26	ug/L		92
80) tetrachloroethene	12.742	164	5952	2.22	ug/L		99
81) 2-hexanone	12.742	58	8352	7.17	ug/L		98
82) 1,3-dichloropropane	12.747	76	10630	2.14	ug/L		99
83) butyl acetate	12.821	56	4410	1.94	ug/L		91
84) dibromochloromethane	13.009	129	6168	2.01	ug/L		92
85) 1,2-dibromoethane	13.156	107	7532	2.05	ug/L		94
86) n-butyl ether	13.528	57	29657	1.88	ug/L		97
87) chlorobenzene	13.612	112	18734	2.15	ug/L		95
88) 1,1,1,2-tetrachloroethane	13.675	131	6319	2.06	ug/L		98
89) ethylbenzene	13.670	91	31290	2.07	ug/L		97
90) m,p-xylene	13.775	106	23443	4.06	ug/L		99
91) o-xylene	14.194	91	24814	2.03	ug/L		99
92) styrene	14.205	104	17170	1.83	ug/L		98
93) butyl acrylate	14.021	55	10550	1.67	ug/L		98
94) bromoform	14.462	173	3575	1.87	ug/L		83
95) isopropylbenzene	14.530	105	29318	1.98	ug/L		96
96) cis-1,4-dichloro-2-butene	14.603	75	2064	1.66	ug/L		93
99) bromobenzene	14.928	156	7508	2.16	ug/L		90
100) 1,1,2,2-tetrachloroethane	14.834	83	7539	2.18	ug/L		100
101) trans-1,4-dichloro-2-b...	14.881	53	1937	2.06	ug/L		91
102) 1,2,3-trichloropropane	14.907	110	1982	2.13	ug/L		98
103) n-propylbenzene	14.939	91	35122	2.10	ug/L		97
104) 2-chlorotoluene	15.080	126	7506	2.24	ug/L		89
105) 4-chlorotoluene	15.180	91	21517	2.15	ug/L		93
106) 1,3,5-trimethylbenzene	15.086	105	24794	2.06	ug/L		99
107) tert-butylbenzene	15.432	119	20732	1.96	ug/L		99
108) 1,2,4-trimethylbenzene	15.479	105	23660	1.98	ug/L		95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162819.D
Acq On : 14 Jul 2020 8:03 pm
Operator : brittank
Sample : ic8157-2
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 15 11:49:56 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 10:49:37 2020
Response via : Initial Calibration

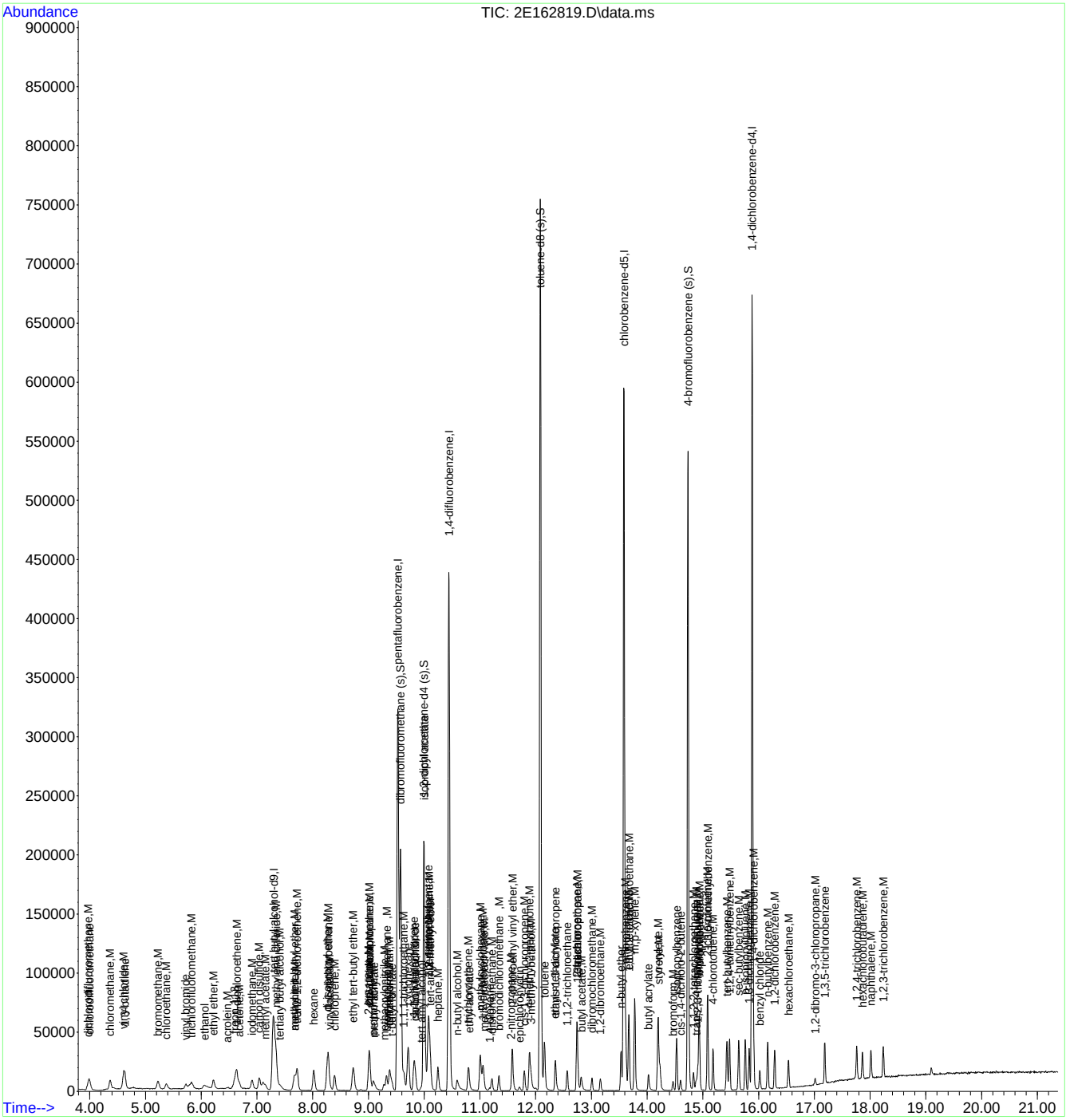
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
109) sec-butylbenzene	15.641	105	30405	2.01	ug/L	97
110) 1,3-dichlorobenzene	15.830	146	13622	2.14	ug/L	98
111) p-isopropyltoluene	15.762	119	24629	1.95	ug/L	97
112) 1,4-dichlorobenzene	15.909	146	14309	2.21	ug/L	97
113) 1,2-dichlorobenzene	16.286	146	13168	2.07	ug/L	98
114) n-butylbenzene	16.160	92	12036	1.90	ug/L	99
115) 1,2-dibromo-3-chloropr...	17.015	157	1409	1.93	ug/L	90
116) 1,3,5-trichlorobenzene	17.188	180	10591	1.94	ug/L	99
117) 1,2,4-trichlorobenzene	17.760	180	8278	1.78	ug/L	96
119) hexachlorobutadiene	17.864	225	4858	2.03	ug/L	95
120) naphthalene	18.016	128	17634	1.68	ug/L	99
121) 1,2,3-trichlorobenzene	18.237	180	7831	1.84	ug/L	94
122) hexachloroethane	16.538	201	4029	1.94	ug/L	91
123) benzyl chloride	16.019	91	11567	1.90	ug/L	97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162819.D
Acq On : 14 Jul 2020 8:03 pm
Operator : brittank
Sample : ic8157-2
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 15 11:49:56 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 10:49:37 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162820.D
Acq On : 14 Jul 2020 8:32 pm
Operator : brittank
Sample : ic8157-4
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 15 11:50:32 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 10:49:37 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.289	65	147503	500.00	ug/L	-0.01
5) pentafluorobenzene	9.528	168	278741	50.00	ug/L	0.00
53) 1,4-difluorobenzene	10.440	114	416261	50.00	ug/L	0.00
74) chlorobenzene-d5	13.586	117	344596	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	15.882	152	172299	50.00	ug/L	0.00
System Monitoring Compounds						
47) dibromofluoromethane (s)	9.575	113	138785	50.04	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.08%			
54) 1,2-dichloroethane-d4 (s)	9.995	65	157260	49.94	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 99.88%			
75) toluene-d8 (s)	12.081	98	547715	50.29	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.58%			
98) 4-bromofluorobenzene (s)	14.729	95	193629	50.43	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.86%			
Target Compounds						Qvalue
2) ethanol	6.046	45	17166	431.89	ug/L	91
3) tertiary butyl alcohol	7.415	59	9669	22.16	ug/L	89
4) 1,4-dioxane	11.174	88	3094	95.24	ug/L	100
6) chlorodifluoromethane	3.996	51	23396	4.04	ug/L	98
7) dichlorodifluoromethane	3.970	85	23574	3.69	ug/L	97
8) chloromethane	4.363	50	25669	3.97	ug/L	94
9) vinyl chloride	4.594	62	23135	3.81	ug/L	99
10) bromomethane	5.218	94	13764	4.05	ug/L	94
11) chloroethane	5.370	64	12476	3.79	ug/L	94
12) trichlorofluoromethane	5.821	101	22405	3.79	ug/L	99
13) 1,3-butadiene	4.620	54	17326	3.88	ug/L	97
14) vinyl bromide	5.716	106	8684	3.74	ug/L	97
15) ethyl ether	6.209	74	8347	3.95	ug/L	84
16) acrolein	6.471	56	2796	3.91	ug/L	98
17) freon 113	6.602	151	10884	3.90	ug/L	91
18) 1,1-dichloroethene	6.634	61	22805	4.02	ug/L	99
19) acetone	6.676	43	14323	16.11	ug/L	94
20) acetonitrile	7.100	41	21043	43.78	ug/L	94
21) iodomethane	6.906	142	21620	3.67	ug/L	95
22) carbon disulfide	7.037	76	39789	3.94	ug/L	97
23) methylene chloride	7.347	84	15809	4.09	ug/L	94
24) methyl acetate	7.142	43	11188	4.11	ug/L	96
25) methyl tert butyl ether	7.667	73	39418	3.91	ug/L	97
26) trans-1,2-dichloroethene	7.719	61	22143	4.03	ug/L	96
27) hexane	8.013	56	11596	3.92	ug/L	91
28) di-isopropyl ether	8.259	45	50856	3.77	ug/L #	58
29) ethyl tert-butyl ether	8.720	59	47880	3.83	ug/L	97
30) 2-butanone	8.993	72	5109	14.11	ug/L	99
31) 1,1-dichloroethane	8.280	63	27783	4.07	ug/L	96
32) chloroprene	8.385	53	20383	3.71	ug/L	97
33) acrylonitrile	7.682	53	5403	4.01	ug/L	92
34) vinyl acetate	8.280	86	2459	3.14	ug/L	100
35) ethyl acetate	9.019	45	1920	3.35	ug/L #	25
36) 2,2-dichloropropane	9.009	77	20157	4.04	ug/L	100
37) cis-1,2-dichloroethene	9.014	96	15695	4.03	ug/L	98
38) propionitrile	9.077	54	19585	40.20	ug/L	68
39) methyl acrylate	9.103	85	1653	3.36	ug/L #	89
40) bromochloromethane	9.323	128	7084	3.91	ug/L	90
41) tetrahydrofuran	9.376	72	1762	4.18	ug/L #	71
42) chloroform	9.381	83	25022	4.16	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162820.D
Acq On : 14 Jul 2020 8:32 pm
Operator : brittank
Sample : ic8157-4
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 15 11:50:32 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 10:49:37 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
43) t-butyl formate	9.407	59	10275	3.30	ug/L		95
44) 1,1-dichloropropene	9.811	75	20041	3.99	ug/L		99
45) carbon tetrachloride	9.837	117	17886	3.87	ug/L		96
46) isopropyl acetate	10.000	87	3020	3.89	ug/L	#	85
48) methacrylonitrile	9.271	67	5252	3.85	ug/L		95
49) 1,1,1-trichloroethane	9.638	97	21519	3.99	ug/L		94
50) cyclohexane	9.706	84	22362	3.62	ug/L		96
51) iso-butyl alcohol	9.827	43	5642	39.83	ug/L		89
52) tert amyl alcohol	9.947	73	3302	19.83	ug/L		92
55) 2,2,4-trimethylpentane	10.073	57	53132	3.70	ug/L		97
56) n-butyl alcohol	10.582	56	17030	174.66	ug/L		89
57) benzene	10.073	78	59716	4.04	ug/L		98
58) tert-amyl methyl ether	10.105	73	46142	3.97	ug/L		97
59) heptane	10.241	57	10601	3.80	ug/L		96
60) 1,2-dichloroethane	10.089	62	18437	4.12	ug/L		96
61) ethyl acrylate	10.802	55	15053	3.58	ug/L		96
62) trichloroethene	10.791	95	14073	4.01	ug/L		99
63) 2-nitropropane	11.567	41	4220	4.04	ug/L	#	1
64) 2-chloroethyl vinyl ether	11.578	63	37960	18.59	ug/L		99
65) methyl methacrylate	11.064	100	2839	3.31	ug/L	#	87
66) 1,2-dichloropropane	11.054	63	16204	4.09	ug/L		98
67) methylcyclohexane	11.001	83	27004	3.77	ug/L		98
68) dibromomethane	11.216	93	8074	3.97	ug/L		92
69) bromodichloromethane	11.337	83	17090	3.76	ug/L		97
70) epichlorohydrin	11.704	57	6527	19.98	ug/L		96
71) cis-1,3-dichloropropene	11.798	75	22554	3.76	ug/L		96
72) 4-methyl-2-pentanone	11.892	58	20335	15.50	ug/L		86
73) 3-methyl-1-butanol	11.913	70	6602	71.22	ug/L		98
76) toluene	12.160	92	34488	3.99	ug/L		93
77) ethyl methacrylate	12.349	69	14795	3.45	ug/L		96
78) trans-1,3-dichloropropene	12.354	75	18507	3.61	ug/L		93
79) 1,1,2-trichloroethane	12.564	83	9996	4.05	ug/L		97
80) tetrachloroethene	12.742	164	11358	4.09	ug/L		98
81) 2-hexanone	12.737	58	16915	14.05	ug/L		95
82) 1,3-dichloropropane	12.747	76	20895	4.08	ug/L		98
83) butyl acetate	12.815	56	9055	3.85	ug/L		93
84) dibromochloromethane	13.009	129	11447	3.61	ug/L		97
85) 1,2-dibromoethane	13.161	107	14554	3.83	ug/L		98
86) n-butyl ether	13.528	57	58754	3.61	ug/L		99
87) chlorobenzene	13.617	112	36178	4.02	ug/L		99
88) 1,1,1,2-tetrachloroethane	13.675	131	12208	3.85	ug/L		96
89) ethylbenzene	13.670	91	62280	3.99	ug/L		98
90) m,p-xylene	13.775	106	47191	7.92	ug/L		99
91) o-xylene	14.189	91	49447	3.91	ug/L		98
92) styrene	14.205	104	34855	3.60	ug/L		100
93) butyl acrylate	14.021	55	21177	3.24	ug/L		98
94) bromoform	14.467	173	6983	3.54	ug/L		99
95) isopropylbenzene	14.530	105	58566	3.83	ug/L		100
96) cis-1,4-dichloro-2-butene	14.598	75	4372	3.39	ug/L		92
99) bromobenzene	14.928	156	14634	4.05	ug/L		95
100) 1,1,2,2-tetrachloroethane	14.834	83	14158	3.94	ug/L		98
101) trans-1,4-dichloro-2-b...	14.876	53	3376	3.46	ug/L		86
102) 1,2,3-trichloropropane	14.902	110	3809	3.94	ug/L		98
103) n-propylbenzene	14.939	91	68493	3.95	ug/L		99
104) 2-chlorotoluene	15.080	126	14188	4.08	ug/L		99
105) 4-chlorotoluene	15.180	91	41738	4.01	ug/L		99
106) 1,3,5-trimethylbenzene	15.085	105	48115	3.85	ug/L		99
107) tert-butylbenzene	15.432	119	40907	3.73	ug/L		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162820.D
Acq On : 14 Jul 2020 8:32 pm
Operator : brittank
Sample : ic8157-4
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 15 11:50:32 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 10:49:37 2020
Response via : Initial Calibration

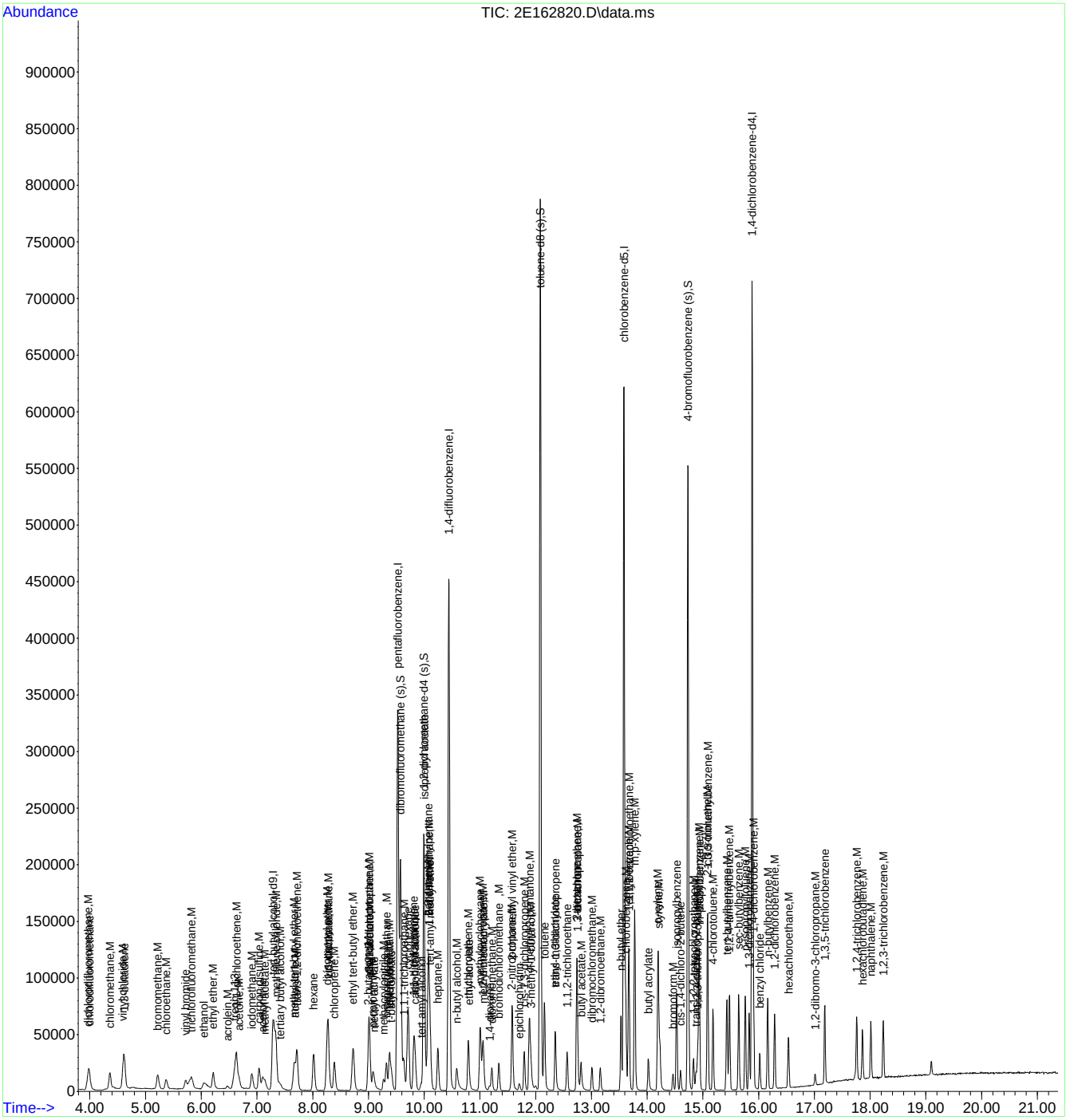
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
108) 1,2,4-trimethylbenzene	15.473	105	47334	3.82	ug/L	99
109) sec-butylbenzene	15.641	105	59265	3.77	ug/L	99
110) 1,3-dichlorobenzene	15.830	146	26525	4.01	ug/L	97
111) p-isopropyltoluene	15.762	119	48647	3.71	ug/L	99
112) 1,4-dichlorobenzene	15.909	146	26572	3.96	ug/L	97
113) 1,2-dichlorobenzene	16.286	146	25846	3.92	ug/L	98
114) n-butylbenzene	16.166	92	23856	3.63	ug/L	98
115) 1,2-dibromo-3-chloropr...	17.015	157	2607	3.45	ug/L	88
116) 1,3,5-trichlorobenzene	17.188	180	20587	3.64	ug/L	97
117) 1,2,4-trichlorobenzene	17.759	180	16263	3.37	ug/L	96
119) hexachlorobutadiene	17.864	225	9407	3.80	ug/L	98
120) naphthalene	18.011	128	36292	3.33	ug/L	98
121) 1,2,3-trichlorobenzene	18.237	180	15119	3.42	ug/L	95
122) hexachloroethane	16.538	201	7486	3.47	ug/L	93
123) benzyl chloride	16.019	91	21708	3.43	ug/L	97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162820.D
Acq On : 14 Jul 2020 8:32 pm
Operator : brittank
Sample : ic8157-4
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 15 11:50:32 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 10:49:37 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162821.D
Acq On : 14 Jul 2020 9:03 pm
Operator : brittank
Sample : ic8157-8
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 15 10:52:32 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 10:49:37 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.300	65	143210	500.00	ug/L	0.00
5) pentafluorobenzene	9.528	168	277211	50.00	ug/L	0.00
53) 1,4-difluorobenzene	10.446	114	411972	50.00	ug/L	0.00
74) chlorobenzene-d5	13.586	117	340042	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	15.883	152	169793	50.00	ug/L	0.00
System Monitoring Compounds						
47) dibromofluoromethane (s)	9.575	113	137669	49.91	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.82%			
54) 1,2-dichloroethane-d4 (s)	9.995	65	156253	50.14	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 100.28%			
75) toluene-d8 (s)	12.081	98	534570	49.74	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.48%			
98) 4-bromofluorobenzene (s)	14.729	95	191117	50.51	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 101.02%			
Target Compounds						Qvalue
2) ethanol	6.052	45	31778	823.49	ug/L	97
3) tertiary butyl alcohol	7.415	59	18455	43.56	ug/L	93
4) 1,4-dioxane	11.169	88	6490	205.76	ug/L	97
6) chlorodifluoromethane	4.002	51	45307	7.86	ug/L	99
7) dichlorodifluoromethane	3.976	85	47701	7.50	ug/L	98
8) chloromethane	4.369	50	50327	7.83	ug/L	99
9) vinyl chloride	4.605	62	46958	7.78	ug/L	98
10) bromomethane	5.223	94	27058	8.02	ug/L	99
11) chloroethane	5.381	64	25616	7.82	ug/L	96
12) trichlorofluoromethane	5.837	101	45511	7.74	ug/L	99
13) 1,3-butadiene	4.631	54	33557	7.55	ug/L	98
14) vinyl bromide	5.722	106	17520	7.58	ug/L	99
15) ethyl ether	6.225	74	16460	7.84	ug/L	88
16) acrolein	6.471	56	5552	7.81	ug/L	98
17) freon 113	6.602	151	21497	7.74	ug/L	99
18) 1,1-dichloroethene	6.639	61	43204	7.66	ug/L	99
19) acetone	6.681	43	28189	31.88	ug/L	98
20) acetonitrile	7.111	41	38824	81.21	ug/L	98
21) iodomethane	6.912	142	44436	7.59	ug/L	99
22) carbon disulfide	7.048	76	76213	7.59	ug/L	98
23) methylene chloride	7.347	84	29881	7.77	ug/L	99
24) methyl acetate	7.148	43	21593	7.99	ug/L	99
25) methyl tert butyl ether	7.672	73	74825	7.46	ug/L	98
26) trans-1,2-dichloroethene	7.724	61	42469	7.77	ug/L	98
27) hexane	8.023	56	22668	7.71	ug/L	97
28) di-isopropyl ether	8.259	45	101671	7.58	ug/L #	62
29) ethyl tert-butyl ether	8.726	59	93850	7.55	ug/L	97
30) 2-butanone	8.988	72	10940	30.39	ug/L	96
31) 1,1-dichloroethane	8.280	63	53103	7.82	ug/L	98
32) chloroprene	8.390	53	40224	7.36	ug/L	99
33) acrylonitrile	7.672	53	10160	7.58	ug/L	90
34) vinyl acetate	8.285	86	5005	6.43	ug/L #	37
35) ethyl acetate	9.009	45	4455	7.81	ug/L #	39
36) 2,2-dichloropropane	9.014	77	39193	7.90	ug/L	95
37) cis-1,2-dichloroethene	9.014	96	29689	7.67	ug/L	97
38) propionitrile	9.082	54	38654	79.78	ug/L	94
39) methyl acrylate	9.103	85	3258	6.67	ug/L #	61
40) bromochloromethane	9.329	128	13754	7.64	ug/L	99
41) tetrahydrofuran	9.371	72	3318	7.91	ug/L #	82
42) chloroform	9.381	83	46859	7.84	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162821.D
Acq On : 14 Jul 2020 9:03 pm
Operator : brittank
Sample : ic8157-8
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 15 10:52:32 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 10:49:37 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
43) t-butyl formate	9.418	59	20382	6.58	ug/L		93
44) 1,1-dichloropropene	9.811	75	38821	7.77	ug/L		98
45) carbon tetrachloride	9.843	117	35415	7.71	ug/L		96
46) isopropyl acetate	9.995	87	5713	7.39	ug/L	#	82
48) methacrylonitrile	9.271	67	10535	7.77	ug/L		92
49) 1,1,1-trichloroethane	9.638	97	41255	7.69	ug/L		96
50) cyclohexane	9.711	84	45265	7.38	ug/L	#	86
51) iso-butyl alcohol	9.822	43	10363	73.55	ug/L		97
52) tert amyl alcohol	9.947	73	6622	39.98	ug/L		95
55) 2,2,4-trimethylpentane	10.073	57	107325	7.56	ug/L		98
56) n-butyl alcohol	10.577	56	34508	357.59	ug/L		98
57) benzene	10.073	78	115371	7.89	ug/L		99
58) tert-amyl methyl ether	10.105	73	88998	7.73	ug/L		98
59) heptane	10.246	57	21022	7.62	ug/L		94
60) 1,2-dichloroethane	10.089	62	35224	7.95	ug/L		98
61) ethyl acrylate	10.797	55	29816	7.17	ug/L		93
62) trichloroethene	10.792	95	27318	7.86	ug/L		97
63) 2-nitropropane	11.568	41	8179	7.90	ug/L	#	1
64) 2-chloroethyl vinyl ether	11.578	63	75980	37.60	ug/L		98
65) methyl methacrylate	11.064	100	6034	7.11	ug/L	#	75
66) 1,2-dichloropropane	11.048	63	30915	7.88	ug/L		100
67) methylcyclohexane	11.007	83	52346	7.38	ug/L		99
68) dibromomethane	11.211	93	15606	7.76	ug/L		96
69) bromodichloromethane	11.337	83	34644	7.69	ug/L		98
70) epichlorohydrin	11.699	57	12833	39.70	ug/L		98
71) cis-1,3-dichloropropene	11.793	75	44326	7.47	ug/L		98
72) 4-methyl-2-pentanone	11.882	58	40236	30.98	ug/L		97
73) 3-methyl-1-butanol	11.914	70	13168	143.53	ug/L		98
76) toluene	12.155	92	66925	7.84	ug/L		99
77) ethyl methacrylate	12.349	69	29656	7.00	ug/L		98
78) trans-1,3-dichloropropene	12.354	75	37555	7.42	ug/L		96
79) 1,1,2-trichloroethane	12.564	83	19201	7.89	ug/L		99
80) tetrachloroethene	12.737	164	21507	7.85	ug/L		97
81) 2-hexanone	12.737	58	33968	28.59	ug/L		98
82) 1,3-dichloropropane	12.747	76	40148	7.94	ug/L		98
83) butyl acetate	12.810	56	17114	7.38	ug/L		92
84) dibromochloromethane	13.009	129	22421	7.17	ug/L		98
85) 1,2-dibromoethane	13.156	107	29217	7.79	ug/L		96
86) n-butyl ether	13.528	57	117513	7.32	ug/L		99
87) chlorobenzene	13.618	112	69339	7.81	ug/L		98
88) 1,1,1,2-tetrachloroethane	13.670	131	24280	7.76	ug/L		95
89) ethylbenzene	13.670	91	120277	7.81	ug/L		100
90) m,p-xylene	13.775	106	91153	15.50	ug/L		98
91) o-xylene	14.189	91	97113	7.78	ug/L		99
92) styrene	14.205	104	70131	7.35	ug/L		96
93) butyl acrylate	14.016	55	43318	6.71	ug/L		97
94) bromoform	14.462	173	13852	7.11	ug/L		99
95) isopropylbenzene	14.530	105	114455	7.58	ug/L		99
96) cis-1,4-dichloro-2-butene	14.598	75	8719	6.86	ug/L		95
99) bromobenzene	14.928	156	28038	7.87	ug/L		93
100) 1,1,2,2-tetrachloroethane	14.834	83	28093	7.94	ug/L		98
101) trans-1,4-dichloro-2-b...	14.876	53	6937	7.21	ug/L		96
102) 1,2,3-trichloropropane	14.902	110	7626	8.01	ug/L		99
103) n-propylbenzene	14.934	91	135263	7.92	ug/L		99
104) 2-chlorotoluene	15.080	126	27555	8.05	ug/L		95
105) 4-chlorotoluene	15.180	91	81939	8.00	ug/L		97
106) 1,3,5-trimethylbenzene	15.086	105	95681	7.77	ug/L		99
107) tert-butylbenzene	15.432	119	81036	7.50	ug/L		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162821.D
Acq On : 14 Jul 2020 9:03 pm
Operator : brittank
Sample : ic8157-8
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 15 10:52:32 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 10:49:37 2020
Response via : Initial Calibration

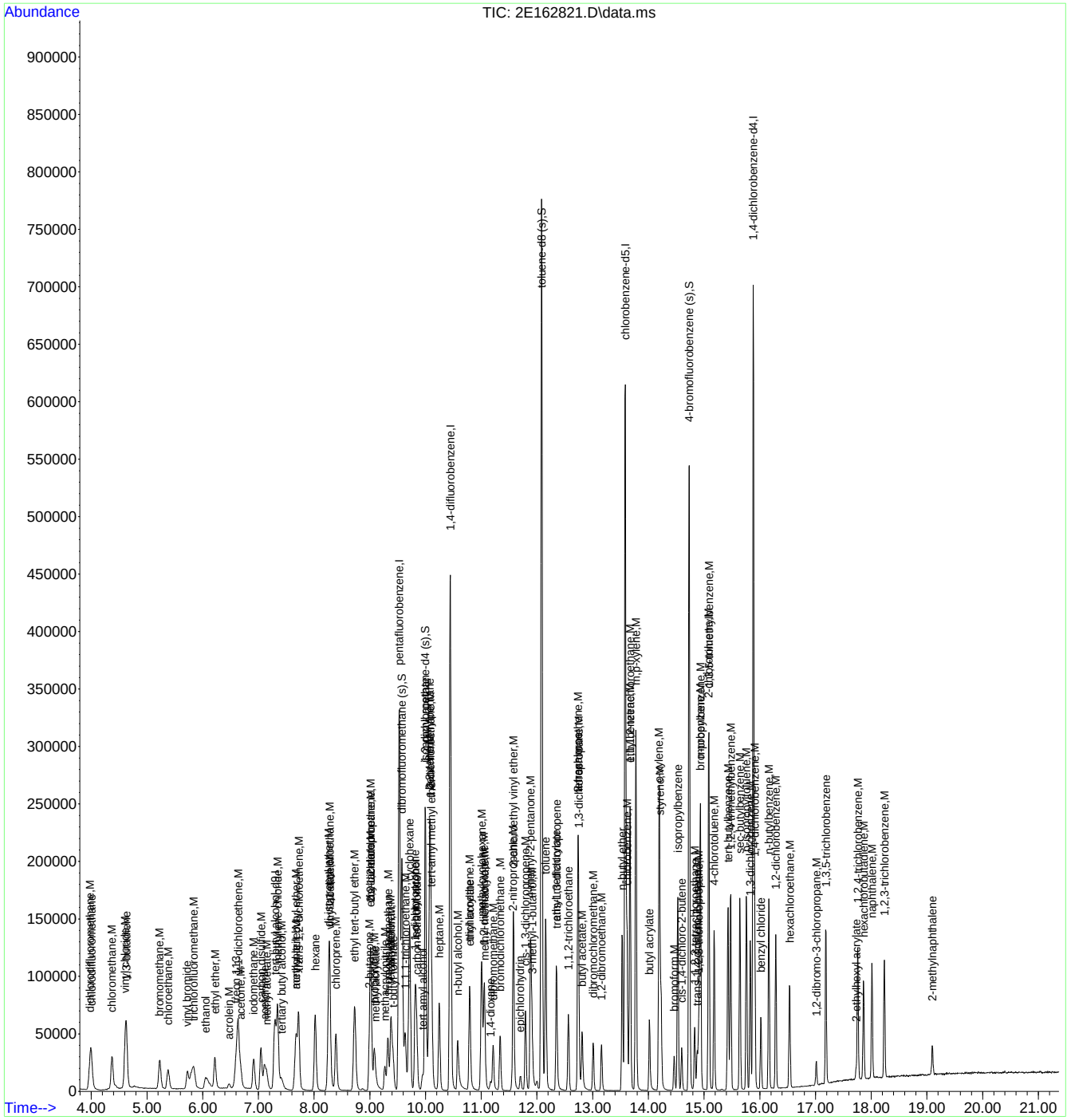
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
108) 1,2,4-trimethylbenzene	15.479	105	95182	7.79	ug/L		97
109) sec-butylbenzene	15.641	105	119517	7.71	ug/L		99
110) 1,3-dichlorobenzene	15.830	146	52017	7.99	ug/L		98
111) p-isopropyltoluene	15.757	119	97517	7.55	ug/L		99
112) 1,4-dichlorobenzene	15.909	146	51392	7.78	ug/L		98
113) 1,2-dichlorobenzene	16.286	146	50736	7.82	ug/L		98
114) n-butylbenzene	16.160	92	48185	7.44	ug/L		99
115) 1,2-dibromo-3-chloropr...	17.015	157	5440	7.30	ug/L		93
116) 1,3,5-trichlorobenzene	17.188	180	41182	7.39	ug/L		100
117) 1,2,4-trichlorobenzene	17.760	180	32994	6.93	ug/L		99
118) 2-ethylhexyl acrylate	17.728	70	2483	0.94	ug/L	#	75
119) hexachlorobutadiene	17.864	225	18551	7.60	ug/L		98
120) naphthalene	18.011	128	74190	6.90	ug/L		98
121) 1,2,3-trichlorobenzene	18.237	180	31574	7.24	ug/L		98
122) hexachloroethane	16.538	201	15282	7.19	ug/L		94
123) benzyl chloride	16.019	91	44200	7.09	ug/L		98
124) 2-methylnaphthalene	19.097	142	12694	2.65	ug/L		99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162821.D
Acq On : 14 Jul 2020 9:03 pm
Operator : brittank
Sample : ic8157-8
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 15 10:52:32 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 10:49:37 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162822.D
Acq On : 14 Jul 2020 9:33 pm
Operator : brittank
Sample : ic8157-20
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 15 10:52:35 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 10:49:37 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.294	65	139633	500.00	ug/L	0.00
5) pentafluorobenzene	9.528	168	274282	50.00	ug/L	0.00
53) 1,4-difluorobenzene	10.445	114	407950	50.00	ug/L	0.00
74) chlorobenzene-d5	13.586	117	333756	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	15.883	152	167645	50.00	ug/L	0.00
System Monitoring Compounds						
47) dibromofluoromethane (s)	9.575	113	137130	50.25	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.50%			
54) 1,2-dichloroethane-d4 (s)	9.995	65	155306	50.32	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 100.64%			
75) toluene-d8 (s)	12.081	98	535737	50.79	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 101.58%			
98) 4-bromofluorobenzene (s)	14.729	95	190540	51.01	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 102.02%			
Target Compounds						Qvalue
2) ethanol	6.052	45	75141	1997.06	ug/L	99
3) tertiary butyl alcohol	7.410	59	43609	105.57	ug/L	93
4) 1,4-dioxane	11.164	88	15474	503.15	ug/L	94
6) chlorodifluoromethane	3.997	51	115177	20.19	ug/L	97
7) dichlorodifluoromethane	3.976	85	120568	19.16	ug/L	96
8) chloromethane	4.374	50	124758	19.61	ug/L	98
9) vinyl chloride	4.605	62	116022	19.42	ug/L	99
10) bromomethane	5.229	94	65757	19.69	ug/L	98
11) chloroethane	5.381	64	62330	19.22	ug/L	99
12) trichlorofluoromethane	5.832	101	112272	19.30	ug/L	99
13) 1,3-butadiene	4.620	54	85975	19.54	ug/L	97
14) vinyl bromide	5.722	106	43632	19.07	ug/L	93
15) ethyl ether	6.220	74	41348	19.89	ug/L	97
16) acrolein	6.466	56	13602	19.33	ug/L	93
17) freon 113	6.608	151	53922	19.62	ug/L	94
18) 1,1-dichloroethene	6.639	61	109697	19.65	ug/L	98
19) acetone	6.676	43	70586	80.67	ug/L	98
20) acetonitrile	7.106	41	95339	201.56	ug/L	99
21) iodomethane	6.912	142	113443	19.58	ug/L	97
22) carbon disulfide	7.043	76	193815	19.51	ug/L	100
23) methylene chloride	7.342	84	75991	19.98	ug/L	97
24) methyl acetate	7.148	43	53577	20.02	ug/L	99
25) methyl tert butyl ether	7.672	73	192874	19.43	ug/L	98
26) trans-1,2-dichloroethene	7.719	61	106806	19.75	ug/L	98
27) hexane	8.023	56	57010	19.61	ug/L	94
28) di-isopropyl ether	8.264	45	259543	19.55	ug/L	95
29) ethyl tert-butyl ether	8.726	59	239953	19.52	ug/L	99
30) 2-butanone	8.983	72	28008	78.62	ug/L	99
31) 1,1-dichloroethane	8.280	63	136279	20.29	ug/L	99
32) chloroprene	8.385	53	104900	19.41	ug/L	98
33) acrylonitrile	7.672	53	26297	19.84	ug/L	98
34) vinyl acetate	8.270	86	14281	18.54	ug/L	98
35) ethyl acetate	8.998	45	11231	19.89	ug/L #	85
36) 2,2-dichloropropane	9.014	77	98078	19.97	ug/L	98
37) cis-1,2-dichloroethene	9.014	96	76932	20.10	ug/L	98
38) propionitrile	9.072	54	94375	196.86	ug/L	92
39) methyl acrylate	9.082	85	8942	18.49	ug/L #	90
40) bromochloromethane	9.323	128	34181	19.19	ug/L	90
41) tetrahydrofuran	9.371	72	8282	19.97	ug/L	91
42) chloroform	9.381	83	118166	19.97	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162822.D
Acq On : 14 Jul 2020 9:33 pm
Operator : brittank
Sample : ic8157-20
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 15 10:52:35 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 10:49:37 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
43) t-butyl formate	9.413	59	56104	18.30	ug/L		93
44) 1,1-dichloropropene	9.811	75	97309	19.69	ug/L		97
45) carbon tetrachloride	9.843	117	88713	19.51	ug/L		98
46) isopropyl acetate	9.995	87	15156	19.81	ug/L	#	89
48) methacrylonitrile	9.261	67	25881	19.30	ug/L		98
49) 1,1,1-trichloroethane	9.633	97	104103	19.62	ug/L		97
50) cyclohexane	9.711	84	114302	18.82	ug/L		91
51) iso-butyl alcohol	9.816	43	27780	199.28	ug/L		98
52) tert amyl alcohol	9.947	73	16811	102.58	ug/L		88
55) 2,2,4-trimethylpentane	10.073	57	267548	19.04	ug/L		99
56) n-butyl alcohol	10.571	56	90404	946.05	ug/L		98
57) benzene	10.073	78	288662	19.93	ug/L		99
58) tert-amyl methyl ether	10.105	73	226706	19.89	ug/L		98
59) heptane	10.246	57	52383	19.17	ug/L		98
60) 1,2-dichloroethane	10.089	62	87763	20.01	ug/L		99
61) ethyl acrylate	10.792	55	77950	18.93	ug/L		98
62) trichloroethene	10.792	95	68292	19.84	ug/L		98
63) 2-nitropropane	11.562	41	20436	19.95	ug/L	#	1
64) 2-chloroethyl vinyl ether	11.573	63	194357	97.13	ug/L		99
65) methyl methacrylate	11.054	100	15841	18.85	ug/L	#	89
66) 1,2-dichloropropane	11.048	63	77358	19.91	ug/L		99
67) methylcyclohexane	11.007	83	134848	19.19	ug/L		98
68) dibromomethane	11.211	93	39892	20.02	ug/L		96
69) bromodichloromethane	11.337	83	87457	19.62	ug/L		99
70) epichlorohydrin	11.699	57	31845	99.48	ug/L		94
71) cis-1,3-dichloropropene	11.793	75	112995	19.23	ug/L		99
72) 4-methyl-2-pentanone	11.882	58	100649	78.26	ug/L		99
73) 3-methyl-1-butanol	11.908	70	35526	391.06	ug/L		90
76) toluene	12.155	92	167032	19.94	ug/L		99
77) ethyl methacrylate	12.343	69	78603	18.90	ug/L		100
78) trans-1,3-dichloropropene	12.354	75	96171	19.36	ug/L		99
79) 1,1,2-trichloroethane	12.564	83	47512	19.88	ug/L		97
80) tetrachloroethene	12.742	164	54385	20.22	ug/L		96
81) 2-hexanone	12.731	58	90194	77.34	ug/L		98
82) 1,3-dichloropropane	12.742	76	99377	20.01	ug/L		99
83) butyl acetate	12.810	56	44488	19.54	ug/L		96
84) dibromochloromethane	13.009	129	59399	19.35	ug/L		98
85) 1,2-dibromoethane	13.156	107	71439	19.40	ug/L		97
86) n-butyl ether	13.528	57	305389	19.38	ug/L		100
87) chlorobenzene	13.612	112	174175	20.00	ug/L		98
88) 1,1,1,2-tetrachloroethane	13.675	131	61126	19.90	ug/L		97
89) ethylbenzene	13.670	91	301968	19.98	ug/L		100
90) m,p-xylene	13.775	106	231365	40.08	ug/L		99
91) o-xylene	14.189	91	244568	19.96	ug/L		98
92) styrene	14.200	104	185175	19.77	ug/L		100
93) butyl acrylate	14.016	55	117346	18.51	ug/L		99
94) bromoform	14.462	173	35900	18.78	ug/L		99
95) isopropylbenzene	14.530	105	293135	19.78	ug/L		99
96) cis-1,4-dichloro-2-butene	14.598	75	23425	18.78	ug/L		95
99) bromobenzene	14.928	156	70982	20.18	ug/L		94
100) 1,1,2,2-tetrachloroethane	14.829	83	69648	19.94	ug/L		99
101) trans-1,4-dichloro-2-b...	14.871	53	17976	18.92	ug/L		96
102) 1,2,3-trichloropropane	14.902	110	18575	19.76	ug/L		98
103) n-propylbenzene	14.934	91	340024	20.17	ug/L		99
104) 2-chlorotoluene	15.080	126	68460	20.25	ug/L		99
105) 4-chlorotoluene	15.180	91	202041	19.97	ug/L		99
106) 1,3,5-trimethylbenzene	15.086	105	244006	20.08	ug/L		100
107) tert-butylbenzene	15.432	119	208592	19.56	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162822.D
Acq On : 14 Jul 2020 9:33 pm
Operator : brittank
Sample : ic8157-20
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 15 10:52:35 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 10:49:37 2020
Response via : Initial Calibration

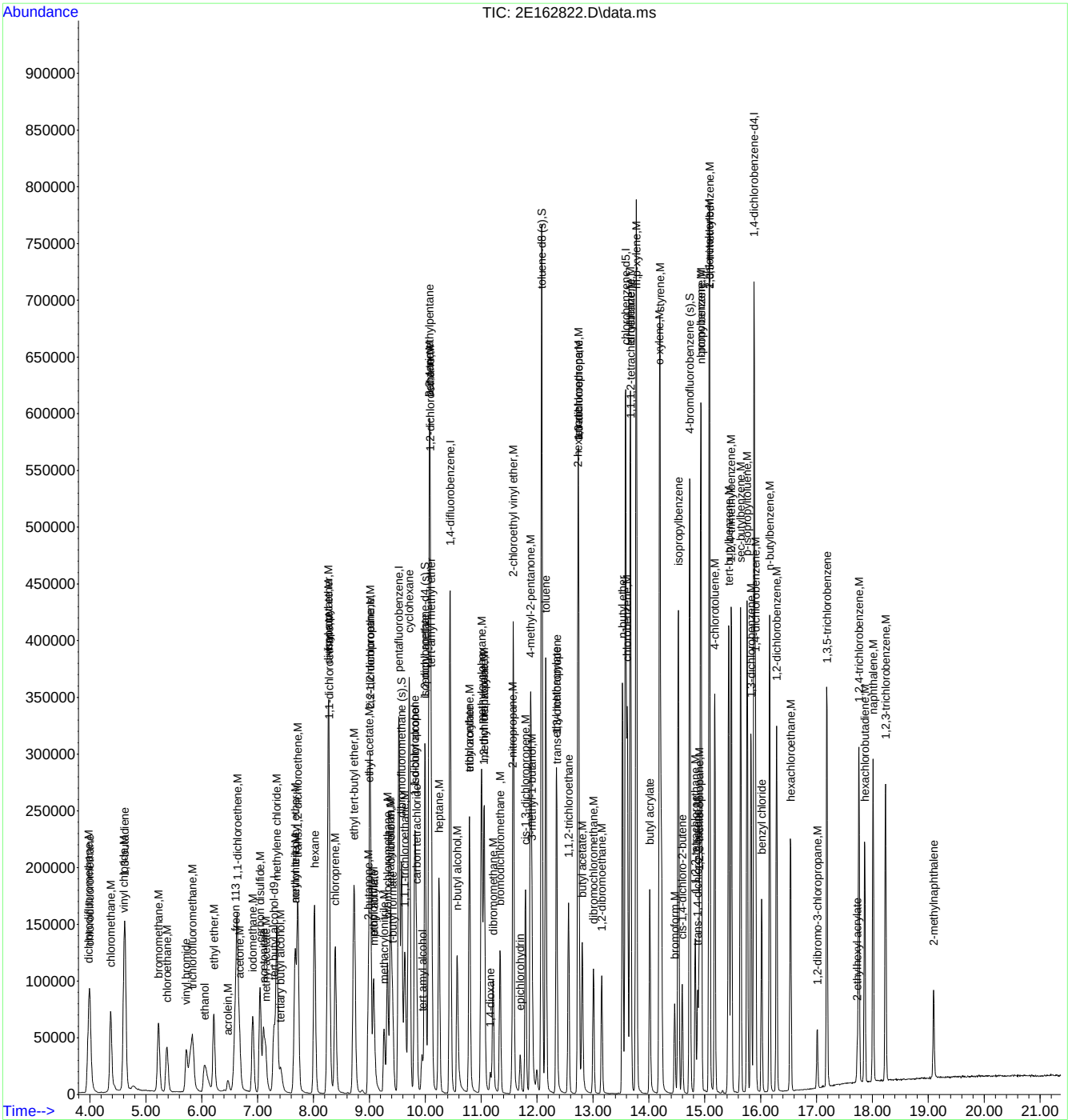
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
108) 1,2,4-trimethylbenzene	15.474	105	241075	19.99	ug/L	99
109) sec-butylbenzene	15.641	105	301065	19.68	ug/L	100
110) 1,3-dichlorobenzene	15.830	146	128257	19.95	ug/L	97
111) p-isopropyltoluene	15.757	119	250504	19.63	ug/L	99
112) 1,4-dichlorobenzene	15.909	146	128905	19.76	ug/L	98
113) 1,2-dichlorobenzene	16.286	146	127236	19.85	ug/L	100
114) n-butylbenzene	16.160	92	124611	19.50	ug/L	96
115) 1,2-dibromo-3-chloropr...	17.015	157	14160	19.25	ug/L	94
116) 1,3,5-trichlorobenzene	17.188	180	105646	19.21	ug/L	97
117) 1,2,4-trichlorobenzene	17.760	180	87632	18.64	ug/L	97
118) 2-ethylhexyl acrylate	17.728	70	7359	2.84	ug/L	97
119) hexachlorobutadiene	17.864	225	46726	19.38	ug/L	98
120) naphthalene	18.011	128	200413	18.88	ug/L	98
121) 1,2,3-trichlorobenzene	18.237	180	81264	18.88	ug/L	99
122) hexachloroethane	16.538	201	38889	18.53	ug/L	96
123) benzyl chloride	16.019	91	116749	18.97	ug/L	99
124) 2-methylnaphthalene	19.096	142	39012	8.25	ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162822.D
Acq On : 14 Jul 2020 9:33 pm
Operator : brittank
Sample : ic8157-20
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 15 10:52:35 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 10:49:37 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162823.D
Acq On : 14 Jul 2020 10:03 pm
Operator : brittank
Sample : icc8157-50
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 15 10:52:38 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 10:49:37 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.300	65	136898	500.00	ug/L	0.00
5) pentafluorobenzene	9.528	168	271726	50.00	ug/L	0.00
53) 1,4-difluorobenzene	10.445	114	404639	50.00	ug/L	0.00
74) chlorobenzene-d5	13.586	117	333201	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	15.883	152	169378	50.00	ug/L	0.00
System Monitoring Compounds						
47) dibromofluoromethane (s)	9.575	113	135189	50.00	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.00%			
54) 1,2-dichloroethane-d4 (s)	9.995	65	153052	50.00	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 100.00%			
75) toluene-d8 (s)	12.081	98	526556	50.00	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.00%			
98) 4-bromofluorobenzene (s)	14.729	95	188712	50.00	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.00%			
Target Compounds						Qvalue
2) ethanol	6.052	45	184700	5006.94	ug/L	100
3) tertiary butyl alcohol	7.415	59	101041	249.48	ug/L	95
4) 1,4-dioxane	11.164	88	37742	1251.73	ug/L	100
6) chlorodifluoromethane	3.997	51	282520	50.00	ug/L	100
7) dichlorodifluoromethane	3.970	85	311661	50.00	ug/L	100
8) chloromethane	4.374	50	315971	50.13	ug/L	100
9) vinyl chloride	4.599	62	295907	50.00	ug/L	100
10) bromomethane	5.229	94	165456	50.00	ug/L	100
11) chloroethane	5.375	64	160632	50.00	ug/L	100
12) trichlorofluoromethane	5.832	101	288147	50.00	ug/L	100
13) 1,3-butadiene	4.626	54	217933	50.00	ug/L	100
14) vinyl bromide	5.721	106	113320	50.00	ug/L	100
15) ethyl ether	6.214	74	102950	50.00	ug/L	100
16) acrolein	6.466	56	34860	50.00	ug/L	100
17) freon 113	6.608	151	136162	50.00	ug/L	100
18) 1,1-dichloroethene	6.634	61	276518	50.00	ug/L	100
19) acetone	6.670	43	173210	199.82	ug/L	100
20) acetonitrile	7.106	41	234301	500.00	ug/L	100
21) iodomethane	6.912	142	286986	50.00	ug/L	100
22) carbon disulfide	7.043	76	492199	50.00	ug/L	100
23) methylene chloride	7.342	84	188439	50.00	ug/L	100
24) methyl acetate	7.137	43	132531	50.00	ug/L	100
25) methyl tert butyl ether	7.672	73	491781	50.00	ug/L	100
26) trans-1,2-dichloroethene	7.719	61	267882	50.00	ug/L	100
27) hexane	8.018	56	144027	50.00	ug/L	100
28) di-isopropyl ether	8.259	45	657652	50.00	ug/L	100
29) ethyl tert-butyl ether	8.726	59	608893	50.00	ug/L	100
30) 2-butanone	8.972	72	70583	200.00	ug/L	100
31) 1,1-dichloroethane	8.280	63	332636	50.00	ug/L	100
32) chloroprene	8.385	53	267699	50.00	ug/L	100
33) acrylonitrile	7.667	53	65670	50.00	ug/L	100
34) vinyl acetate	8.264	86	38160	50.00	ug/L	100
35) ethyl acetate	8.998	45	27965	50.00	ug/L	100
36) 2,2-dichloropropane	9.014	77	243243	50.00	ug/L	100
37) cis-1,2-dichloroethene	9.009	96	189608	50.00	ug/L	100
38) propionitrile	9.067	54	237125	499.29	ug/L	100
39) methyl acrylate	9.082	85	23955	50.00	ug/L	100
40) bromochloromethane	9.323	128	88237	50.00	ug/L	100
41) tetrahydrofuran	9.365	72	20548	50.00	ug/L	100
42) chloroform	9.376	83	293066	50.00	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162823.D
Acq On : 14 Jul 2020 10:03 pm
Operator : brittank
Sample : icc8157-50
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 15 10:52:38 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 10:49:37 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) t-butyl formate	9.413	59	151859	50.00	ug/L	100
44) 1,1-dichloropropene	9.811	75	244841	50.00	ug/L	100
45) carbon tetrachloride	9.837	117	225258	50.00	ug/L	100
46) isopropyl acetate	9.989	87	37888	50.00	ug/L	100
48) methacrylonitrile	9.255	67	66438	50.00	ug/L	100
49) 1,1,1-trichloroethane	9.633	97	262806	50.00	ug/L	100
50) cyclohexane	9.706	84	299074	49.72	ug/L	100
51) iso-butyl alcohol	9.811	43	69051	500.00	ug/L	100
52) tert amyl alcohol	9.942	73	41400	255.00	ug/L	100
55) 2,2,4-trimethylpentane	10.073	57	697072	50.00	ug/L	100
56) n-butyl alcohol	10.566	56	236960	2500.00	ug/L	100
57) benzene	10.073	78	718158	50.00	ug/L	100
58) tert-amyl methyl ether	10.105	73	565386	50.00	ug/L	100
59) heptane	10.241	57	135220	49.88	ug/L	100
60) 1,2-dichloroethane	10.084	62	217495	50.00	ug/L	100
61) ethyl acrylate	10.786	55	204200	50.00	ug/L	100
62) trichloroethene	10.786	95	170687	50.00	ug/L	100
63) 2-nitropropane	11.552	41	50814	50.00	ug/L	100
64) 2-chloroethyl vinyl ether	11.573	63	496166	250.00	ug/L	100
65) methyl methacrylate	11.054	100	41687	50.00	ug/L	100
66) 1,2-dichloropropane	11.048	63	192692	50.00	ug/L	100
67) methylcyclohexane	11.006	83	348467	50.00	ug/L	100
68) dibromomethane	11.211	93	98800	50.00	ug/L	100
69) bromodichloromethane	11.337	83	221122	50.00	ug/L	100
70) epichlorohydrin	11.693	57	79139	249.24	ug/L	100
71) cis-1,3-dichloropropene	11.793	75	291463	50.00	ug/L	100
72) 4-methyl-2-pentanone	11.882	58	255135	200.00	ug/L	100
73) 3-methyl-1-butanol	11.903	70	90108	1000.00	ug/L	100
76) toluene	12.155	92	418244	50.00	ug/L	100
77) ethyl methacrylate	12.343	69	207603	50.00	ug/L	100
78) trans-1,3-dichloropropene	12.349	75	247905	50.00	ug/L	100
79) 1,1,2-trichloroethane	12.564	83	119304	50.00	ug/L	100
80) tetrachloroethene	12.737	164	134256	50.00	ug/L	100
81) 2-hexanone	12.726	58	232847	200.00	ug/L	100
82) 1,3-dichloropropane	12.742	76	247854	50.00	ug/L	100
83) butyl acetate	12.805	56	113673	50.00	ug/L	100
84) dibromochloromethane	13.009	129	153264	50.00	ug/L	100
85) 1,2-dibromoethane	13.156	107	183795	50.00	ug/L	100
86) n-butyl ether	13.528	57	786732	50.00	ug/L	100
87) chlorobenzene	13.618	112	434770	50.00	ug/L	100
88) 1,1,1,2-tetrachloroethane	13.675	131	153291	50.00	ug/L	100
89) ethylbenzene	13.670	91	754557	50.00	ug/L	100
90) m,p-xylene	13.775	106	576320	100.00	ug/L	100
91) o-xylene	14.189	91	611712	50.00	ug/L	100
92) styrene	14.200	104	467634	50.00	ug/L	100
93) butyl acrylate	14.016	55	316433	50.00	ug/L	100
94) bromoform	14.462	173	95412	50.00	ug/L	100
95) isopropylbenzene	14.530	105	739840	50.00	ug/L	100
96) cis-1,4-dichloro-2-butene	14.598	75	62276	50.00	ug/L	100
99) bromobenzene	14.923	156	177677	50.00	ug/L	100
100) 1,1,2,2-tetrachloroethane	14.829	83	176466	50.00	ug/L	100
101) trans-1,4-dichloro-2-b...	14.871	53	47995	50.00	ug/L	100
102) 1,2,3-trichloropropane	14.902	110	47489	50.00	ug/L	100
103) n-propylbenzene	14.934	91	854265	50.16	ug/L	100
104) 2-chlorotoluene	15.080	126	170759	50.00	ug/L	100
105) 4-chlorotoluene	15.180	91	510995	50.00	ug/L	100
106) 1,3,5-trimethylbenzene	15.086	105	613895	50.00	ug/L	100
107) tert-butylbenzene	15.426	119	538792	50.00	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162823.D
Acq On : 14 Jul 2020 10:03 pm
Operator : brittank
Sample : icc8157-50
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 15 10:52:38 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 10:49:37 2020
Response via : Initial Calibration

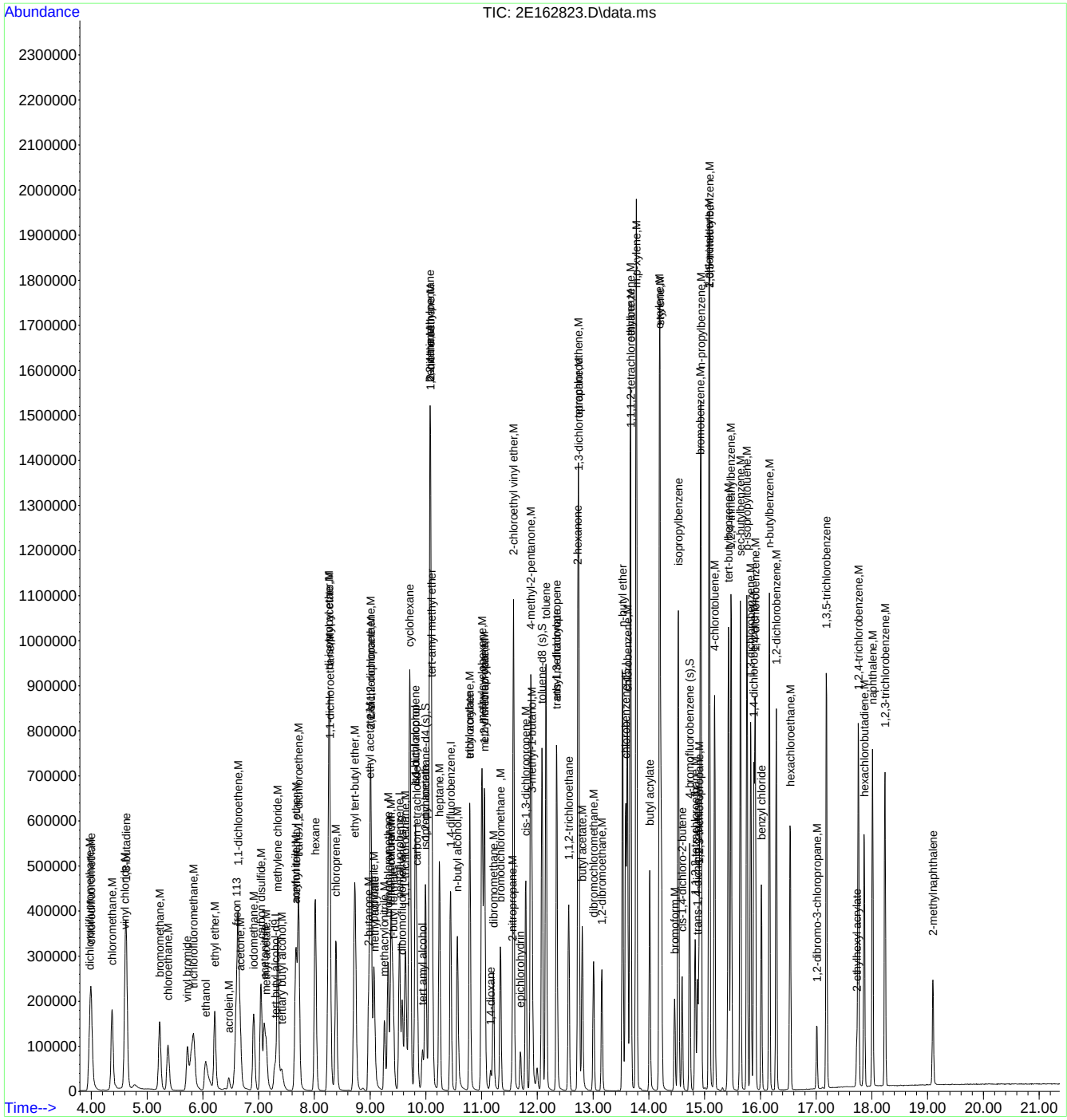
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
108) 1,2,4-trimethylbenzene	15.474	105	609110	50.00	ug/L	100
109) sec-butylbenzene	15.641	105	772965	50.00	ug/L	100
110) 1,3-dichlorobenzene	15.825	146	324765	50.00	ug/L	100
111) p-isopropyltoluene	15.757	119	644582	50.00	ug/L	100
112) 1,4-dichlorobenzene	15.909	146	329630	50.00	ug/L	100
113) 1,2-dichlorobenzene	16.286	146	323778	50.00	ug/L	100
114) n-butylbenzene	16.160	92	322840	50.00	ug/L	100
115) 1,2-dibromo-3-chloropr...	17.015	157	37151	50.00	ug/L	100
116) 1,3,5-trichlorobenzene	17.183	180	277812	50.00	ug/L	100
117) 1,2,4-trichlorobenzene	17.760	180	237520	50.00	ug/L	100
118) 2-ethylhexyl acrylate	17.728	70	26212	10.00	ug/L	100
119) hexachlorobutadiene	17.864	225	121788	50.00	ug/L	100
120) naphthalene	18.011	128	536367	50.00	ug/L	100
121) 1,2,3-trichlorobenzene	18.237	180	217393	50.00	ug/L	100
122) hexachloroethane	16.538	201	106027	50.00	ug/L	100
123) benzyl chloride	16.019	91	310963	50.00	ug/L	100
124) 2-methylnaphthalene	19.096	142	119400	25.00	ug/L	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162823.D
Acq On : 14 Jul 2020 10:03 pm
Operator : brittank
Sample : icc8157-50
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 15 10:52:38 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 10:49:37 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162824.D
Acq On : 14 Jul 2020 10:33 pm
Operator : brittank
Sample : ic8157-100
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 15 10:52:41 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 10:49:37 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.300	65	127176	500.00	ug/L	0.00
5) pentafluorobenzene	9.528	168	270122	50.00	ug/L	0.00
53) 1,4-difluorobenzene	10.445	114	408201	50.00	ug/L	0.00
74) chlorobenzene-d5	13.586	117	332746	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	15.882	152	172922	50.00	ug/L	0.00
System Monitoring Compounds						
47) dibromofluoromethane (s)	9.575	113	136248	50.69	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 101.38%			
54) 1,2-dichloroethane-d4 (s)	9.995	65	152210	49.29	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 98.58%			
75) toluene-d8 (s)	12.081	98	528339	50.24	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.48%			
98) 4-bromofluorobenzene (s)	14.729	95	192551	49.97	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.94%			
Target Compounds						Qvalue
2) ethanol	6.052	45	341078	9952.93	ug/L	97
3) tertiary butyl alcohol	7.410	59	184656	490.79	ug/L	98
4) 1,4-dioxane	11.158	88	72439	2586.14	ug/L	100
6) chlorodifluoromethane	3.996	51	557897	99.32	ug/L	99
7) dichlorodifluoromethane	3.975	85	581030	93.77	ug/L	99
8) chloromethane	4.374	50	604941	96.54	ug/L	100
9) vinyl chloride	4.605	62	569956	96.88	ug/L	100
10) bromomethane	5.223	94	311643	94.74	ug/L	98
11) chloroethane	5.375	64	304006	95.19	ug/L	99
12) trichlorofluoromethane	5.826	101	558971	97.57	ug/L	98
13) 1,3-butadiene	4.626	54	428983	99.01	ug/L	98
14) vinyl bromide	5.721	106	220823	98.01	ug/L	97
15) ethyl ether	6.214	74	203457	99.40	ug/L	99
16) acrolein	6.466	56	65680	94.76	ug/L	90
17) freon 113	6.602	151	267961	98.98	ug/L	97
18) 1,1-dichloroethene	6.634	61	548641	99.79	ug/L	99
19) acetone	6.670	43	330895	384.01	ug/L	100
20) acetonitrile	7.100	41	444138	953.42	ug/L	97
21) iodomethane	6.912	142	551041	96.57	ug/L	98
22) carbon disulfide	7.043	76	975407	99.68	ug/L	99
23) methylene chloride	7.342	84	368158	98.27	ug/L	99
24) methyl acetate	7.137	43	256346	97.29	ug/L	98
25) methyl tert butyl ether	7.672	73	975263	99.75	ug/L	99
26) trans-1,2-dichloroethene	7.719	61	528429	99.22	ug/L	99
27) hexane	8.018	56	286858	100.18	ug/L	97
28) di-isopropyl ether	8.259	45	1294555	99.01	ug/L	95
29) ethyl tert-butyl ether	8.726	59	1203053	99.38	ug/L	99
30) 2-butanone	8.972	72	138104	393.65	ug/L	99
31) 1,1-dichloroethane	8.280	63	656035	99.20	ug/L	99
32) chloroprene	8.385	53	539120	101.29	ug/L	99
33) acrylonitrile	7.661	53	128966	98.78	ug/L	98
34) vinyl acetate	8.259	86	75059	98.93	ug/L	99
35) ethyl acetate	8.993	45	54220	97.52	ug/L #	44
36) 2,2-dichloropropane	9.014	77	470718	97.33	ug/L	99
37) cis-1,2-dichloroethene	9.014	96	372513	98.82	ug/L	96
38) propionitrile	9.066	54	449496	952.07	ug/L	88
39) methyl acrylate	9.077	85	44894	94.26	ug/L #	69
40) bromochloromethane	9.323	128	173003	98.62	ug/L	100
41) tetrahydrofuran	9.365	72	41710	102.10	ug/L	91
42) chloroform	9.376	83	576285	98.90	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162824.D
Acq On : 14 Jul 2020 10:33 pm
Operator : brittank
Sample : ic8157-100
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 15 10:52:41 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 10:49:37 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) t-butyl formate	9.407	59	312108	103.37	ug/L	97
44) 1,1-dichloropropene	9.811	75	485718	99.78	ug/L	98
45) carbon tetrachloride	9.837	117	449884	100.45	ug/L	99
46) isopropyl acetate	9.995	87	75882	100.73	ug/L	94
48) methacrylonitrile	9.255	67	130798	99.02	ug/L	96
49) 1,1,1-trichloroethane	9.633	97	523459	100.18	ug/L	98
50) cyclohexane	9.706	84	578372	96.71	ug/L	95
51) iso-butyl alcohol	9.811	43	131991	961.43	ug/L	98
52) tert amyl alcohol	9.937	73	78483	486.27	ug/L	98
55) 2,2,4-trimethylpentane	10.073	57	1360816	96.76	ug/L	100
56) n-butyl alcohol	10.566	56	453313	4740.86	ug/L	98
57) benzene	10.073	78	1401570	96.73	ug/L	99
58) tert-amyl methyl ether	10.105	73	1105919	96.95	ug/L	99
59) heptane	10.241	57	269345	98.50	ug/L	100
60) 1,2-dichloroethane	10.084	62	429723	97.93	ug/L	100
61) ethyl acrylate	10.786	55	410095	99.54	ug/L	99
62) trichloroethene	10.786	95	339596	98.61	ug/L	99
63) 2-nitropropane	11.552	41	102778	100.25	ug/L	91
64) 2-chloroethyl vinyl ether	11.573	63	973190	486.08	ug/L	100
65) methyl methacrylate	11.054	100	82101	97.61	ug/L	98
66) 1,2-dichloropropane	11.048	63	381640	98.16	ug/L	99
67) methylcyclohexane	11.006	83	683906	97.27	ug/L	99
68) dibromomethane	11.211	93	193452	97.05	ug/L	99
69) bromodichloromethane	11.337	83	445765	99.92	ug/L	99
70) epichlorohydrin	11.693	57	156481	488.52	ug/L	97
71) cis-1,3-dichloropropene	11.793	75	580321	98.68	ug/L	100
72) 4-methyl-2-pentanone	11.882	58	494789	384.48	ug/L	99
73) 3-methyl-1-butanol	11.903	70	169522	1864.90	ug/L	98
76) toluene	12.155	92	828406	99.17	ug/L	99
77) ethyl methacrylate	12.338	69	419132	101.08	ug/L	99
78) trans-1,3-dichloropropene	12.349	75	489119	98.79	ug/L	98
79) 1,1,2-trichloroethane	12.564	83	235573	98.86	ug/L	99
80) tetrachloroethene	12.737	164	264928	98.80	ug/L	100
81) 2-hexanone	12.731	58	449998	387.05	ug/L	99
82) 1,3-dichloropropane	12.742	76	478577	96.68	ug/L	99
83) butyl acetate	12.805	56	223826	98.59	ug/L	97
84) dibromochloromethane	13.004	129	310894	101.56	ug/L	98
85) 1,2-dibromoethane	13.156	107	362868	98.85	ug/L	99
86) n-butyl ether	13.528	57	1560375	99.30	ug/L	99
87) chlorobenzene	13.612	112	857087	98.70	ug/L	98
88) 1,1,1,2-tetrachloroethane	13.675	131	305656	99.83	ug/L	98
89) ethylbenzene	13.670	91	1493440	99.10	ug/L	100
90) m,p-xylene	13.775	106	1136373	197.45	ug/L	99
91) o-xylene	14.189	91	1201581	98.35	ug/L	99
92) styrene	14.199	104	931839	99.77	ug/L	99
93) butyl acrylate	14.016	55	652718	103.28	ug/L	99
94) bromoform	14.462	173	195384	102.53	ug/L	99
95) isopropylbenzene	14.530	105	1469963	99.48	ug/L	99
96) cis-1,4-dichloro-2-butene	14.598	75	127845	102.78	ug/L	99
99) bromobenzene	14.923	156	354998	97.85	ug/L	97
100) 1,1,2,2-tetrachloroethane	14.829	83	347729	96.51	ug/L	98
101) trans-1,4-dichloro-2-b...	14.871	53	97813	99.81	ug/L	98
102) 1,2,3-trichloropropane	14.902	110	93020	95.93	ug/L	100
103) n-propylbenzene	14.933	91	1696951	97.59	ug/L	100
104) 2-chlorotoluene	15.080	126	340242	97.58	ug/L	100
105) 4-chlorotoluene	15.180	91	1028296	98.55	ug/L	100
106) 1,3,5-trimethylbenzene	15.086	105	1220718	97.39	ug/L	99
107) tert-butylbenzene	15.432	119	1072175	97.46	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162824.D
Acq On : 14 Jul 2020 10:33 pm
Operator : brittank
Sample : ic8157-100
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 15 10:52:41 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 10:49:37 2020
Response via : Initial Calibration

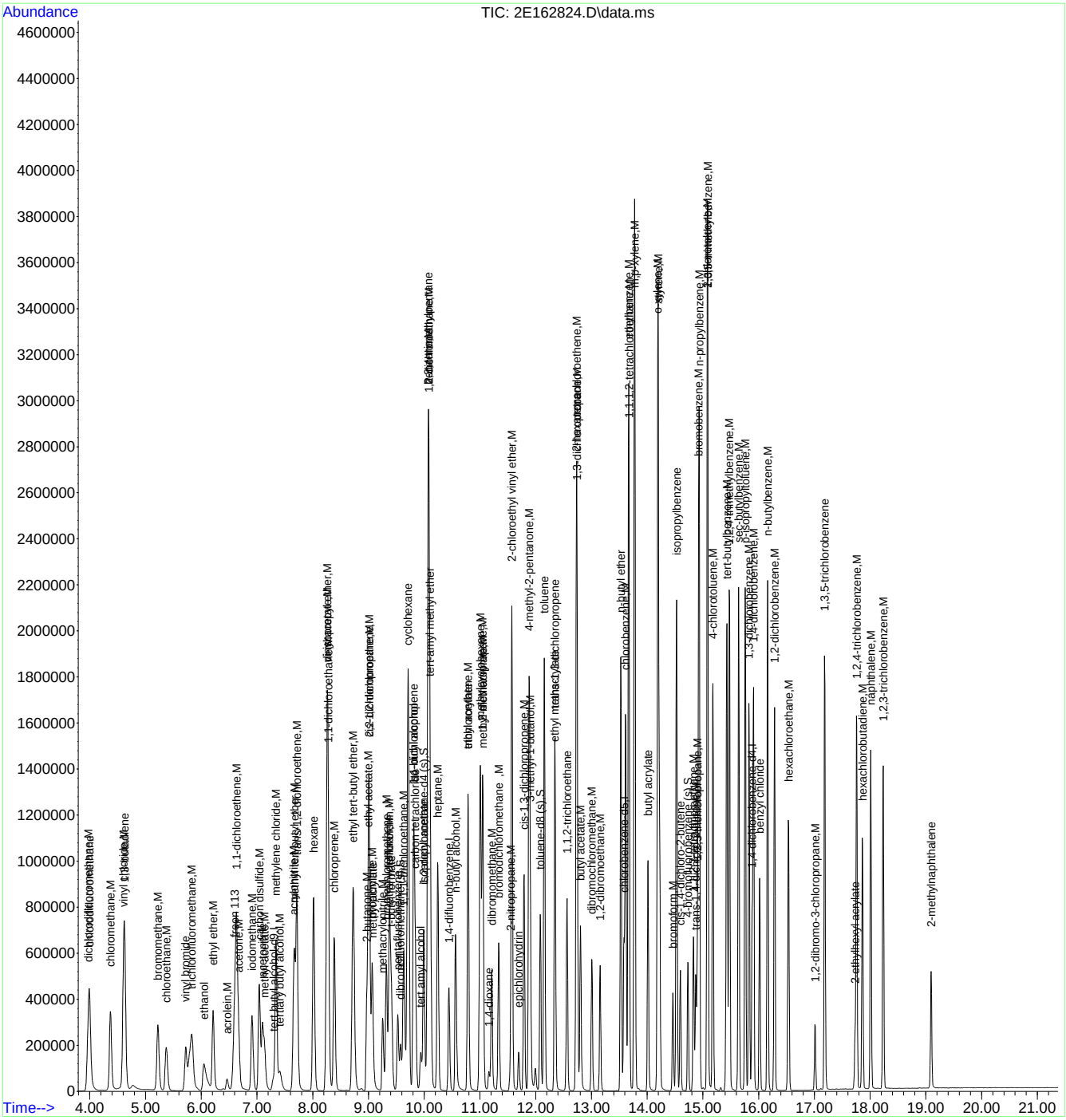
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
108) 1,2,4-trimethylbenzene	15.473	105	1222801	98.32	ug/L	99
109) sec-butylbenzene	15.641	105	1525493	96.66	ug/L	99
110) 1,3-dichlorobenzene	15.825	146	659860	99.51	ug/L	99
111) p-isopropyltoluene	15.762	119	1287735	97.84	ug/L	99
112) 1,4-dichlorobenzene	15.909	146	665777	98.92	ug/L	99
113) 1,2-dichlorobenzene	16.286	146	648883	98.15	ug/L	100
114) n-butylbenzene	16.160	92	651919	98.90	ug/L	98
115) 1,2-dibromo-3-chloropr...	17.015	157	76048	100.25	ug/L	97
116) 1,3,5-trichlorobenzene	17.183	180	559499	98.63	ug/L	98
117) 1,2,4-trichlorobenzene	17.759	180	483390	99.67	ug/L	99
118) 2-ethylhexyl acrylate	17.728	70	59598	22.27	ug/L	99
119) hexachlorobutadiene	17.864	225	243934	98.09	ug/L	99
120) naphthalene	18.011	128	1071857	97.87	ug/L	99
121) 1,2,3-trichlorobenzene	18.237	180	431656	97.25	ug/L	98
122) hexachloroethane	16.538	201	219456	101.37	ug/L	96
123) benzyl chloride	16.019	91	635545	100.10	ug/L	98
124) 2-methylnaphthalene	19.096	142	257659	52.84	ug/L	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162824.D
Acq On : 14 Jul 2020 10:33 pm
Operator : brittank
Sample : ic8157-100
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 15 10:52:41 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 10:49:37 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162825.D
Acq On : 14 Jul 2020 11:03 pm
Operator : brittank
Sample : ic8157-200
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 15 10:52:44 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 10:49:37 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.305	65	121812	500.00	ug/L	0.00
5) pentafluorobenzene	9.528	168	276940	50.00	ug/L	0.00
53) 1,4-difluorobenzene	10.445	114	414492	50.00	ug/L	0.00
74) chlorobenzene-d5	13.586	117	337190	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	15.882	152	177353	50.00	ug/L	0.00
System Monitoring Compounds						
47) dibromofluoromethane (s)	9.575	113	137271	49.81	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.62%			
54) 1,2-dichloroethane-d4 (s)	9.995	65	155153	49.48	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 98.96%			
75) toluene-d8 (s)	12.081	98	538480	50.53	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 101.06%			
98) 4-bromofluorobenzene (s)	14.729	95	199183	50.40	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.80%			
Target Compounds						Qvalue
2) ethanol	6.052	45	613183	18681.11	ug/L	98
3) tertiary butyl alcohol	7.415	59	342185	949.53	ug/L	99
4) 1,4-dioxane	11.164	88	133305	4968.68	ug/L	100
6) chlorodifluoromethane	3.996	51	1016418	176.50	ug/L	99
7) dichlorodifluoromethane	3.976	85	1149534	180.95	ug/L	99
8) chloromethane	4.374	50	1209242	188.23	ug/L	100
9) vinyl chloride	4.599	62	1128885	187.16	ug/L	99
10) bromomethane	5.218	94	588583	174.52	ug/L	96
11) chloroethane	5.370	64	588428	179.71	ug/L	98
12) trichlorofluoromethane	5.826	101	1114698	189.78	ug/L	100
13) 1,3-butadiene	4.626	54	766189	172.48	ug/L	99
14) vinyl bromide	5.721	106	436088	188.79	ug/L	100
15) ethyl ether	6.214	74	399246	190.25	ug/L	97
16) acrolein	6.461	56	128282	180.53	ug/L	94
17) freon 113	6.608	151	523961	188.78	ug/L	97
18) 1,1-dichloroethene	6.634	61	1067866	189.46	ug/L	98
19) acetone	6.670	43	650666	736.51	ug/L	99
20) acetonitrile	7.100	41	862024	1804.93	ug/L	98
21) iodomethane	6.912	142	1055358	180.41	ug/L	98
22) carbon disulfide	7.043	76	1879142	187.30	ug/L	100
23) methylene chloride	7.342	84	723890	188.46	ug/L	99
24) methyl acetate	7.137	43	515509	190.82	ug/L	99
25) methyl tert butyl ether	7.677	73	1925269	192.06	ug/L	99
26) trans-1,2-dichloroethene	7.719	61	1043710	191.14	ug/L	99
27) hexane	8.018	56	561525	191.27	ug/L	99
28) di-isopropyl ether	8.259	45	2527635	188.55	ug/L	92
29) ethyl tert-butyl ether	8.726	59	2351728	189.48	ug/L	99
30) 2-butanone	8.972	72	275255	765.26	ug/L	99
31) 1,1-dichloroethane	8.275	63	1254140	184.97	ug/L	99
32) chloroprene	8.385	53	1073899	196.80	ug/L	99
33) acrylonitrile	7.661	53	254205	189.90	ug/L	97
34) vinyl acetate	8.264	86	145962	187.65	ug/L #	86
35) ethyl acetate	8.998	45	107340	188.31	ug/L	99
36) 2,2-dichloropropane	9.014	77	913620	184.26	ug/L	99
37) cis-1,2-dichloroethene	9.009	96	726037	187.85	ug/L	99
38) propionitrile	9.066	54	873266	1804.12	ug/L	84
39) methyl acrylate	9.072	85	90872	186.10	ug/L #	72
40) bromochloromethane	9.323	128	341260	189.74	ug/L	100
41) tetrahydrofuran	9.365	72	79569	189.97	ug/L	96
42) chloroform	9.376	83	1138340	190.56	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162825.D
Acq On : 14 Jul 2020 11:03 pm
Operator : brittank
Sample : ic8157-200
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 15 10:52:44 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 10:49:37 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
43) t-butyl formate	9.407	59	633263	204.58	ug/L		94
44) 1,1-dichloropropene	9.811	75	961020	192.56	ug/L		97
45) carbon tetrachloride	9.837	117	894440	194.80	ug/L		98
46) isopropyl acetate	9.995	87	151560	196.24	ug/L		98
48) methacrylonitrile	9.255	67	262249	193.65	ug/L		98
49) 1,1,1-trichloroethane	9.633	97	1043480	194.79	ug/L		99
50) cyclohexane	9.711	84	1158881	189.02	ug/L	#	86
51) iso-butyl alcohol	9.811	43	257943	1832.61	ug/L		97
52) tert amyl alcohol	9.942	73	151001	912.55	ug/L		94
55) 2,2,4-trimethylpentane	10.073	57	2642135	185.01	ug/L		99
56) n-butyl alcohol	10.566	56	848529	8739.43	ug/L		100
57) benzene	10.073	78	2695358	183.20	ug/L		99
58) tert-amyl methyl ether	10.105	73	2130757	183.95	ug/L		99
59) heptane	10.241	57	538130	193.80	ug/L		99
60) 1,2-dichloroethane	10.084	62	843913	189.40	ug/L		99
61) ethyl acrylate	10.786	55	820099	196.03	ug/L		98
62) trichloroethene	10.786	95	671518	192.03	ug/L		99
63) 2-nitropropane	11.552	41	206643	198.50	ug/L		99
64) 2-chloroethyl vinyl ether	11.573	63	1888330	928.84	ug/L		99
65) methyl methacrylate	11.054	100	165397	193.66	ug/L		95
66) 1,2-dichloropropane	11.048	63	745499	188.84	ug/L		99
67) methylcyclohexane	11.006	83	1343239	188.15	ug/L		99
68) dibromomethane	11.211	93	383452	189.44	ug/L		99
69) bromodichloromethane	11.337	83	894793	197.52	ug/L		99
70) epichlorohydrin	11.693	57	310401	954.33	ug/L		98
71) cis-1,3-dichloropropene	11.793	75	1156998	193.76	ug/L		99
72) 4-methyl-2-pentanone	11.882	58	956819	732.22	ug/L		99
73) 3-methyl-1-butanol	11.903	70	308172	3338.73	ug/L		96
76) toluene	12.155	92	1637191	193.41	ug/L		98
77) ethyl methacrylate	12.338	69	831226	197.83	ug/L		97
78) trans-1,3-dichloropropene	12.349	75	966121	192.55	ug/L		97
79) 1,1,2-trichloroethane	12.564	83	471521	195.28	ug/L		98
80) tetrachloroethene	12.742	164	516568	190.11	ug/L		98
81) 2-hexanone	12.726	58	854658	725.41	ug/L		97
82) 1,3-dichloropropane	12.742	76	919349	183.27	ug/L		99
83) butyl acetate	12.805	56	438222	190.48	ug/L		98
84) dibromochloromethane	13.009	129	630032	203.11	ug/L		100
85) 1,2-dibromoethane	13.156	107	723748	194.56	ug/L		100
86) n-butyl ether	13.528	57	3049341	191.51	ug/L		99
87) chlorobenzene	13.612	112	1688174	191.85	ug/L		96
88) 1,1,1,2-tetrachloroethane	13.675	131	600114	193.43	ug/L		98
89) ethylbenzene	13.670	91	2879960	188.58	ug/L		99
90) m,p-xylene	13.775	106	2170369	372.14	ug/L		99
91) o-xylene	14.189	91	2316911	187.14	ug/L		99
92) styrene	14.199	104	1787451	188.86	ug/L		99
93) butyl acrylate	14.016	55	1315709	205.44	ug/L		99
94) bromoform	14.462	173	398673	206.45	ug/L		99
95) isopropylbenzene	14.530	105	2877034	192.14	ug/L		99
96) cis-1,4-dichloro-2-butene	14.598	75	259623	205.98	ug/L		99
99) bromobenzene	14.923	156	698656	187.77	ug/L		96
100) 1,1,2,2-tetrachloroethane	14.829	83	694190	187.85	ug/L		98
101) trans-1,4-dichloro-2-b...	14.871	53	198539	197.53	ug/L		97
102) 1,2,3-trichloropropane	14.902	110	182020	183.03	ug/L		99
103) n-propylbenzene	14.933	91	3246820	182.06	ug/L		99
104) 2-chlorotoluene	15.080	126	651672	182.24	ug/L		99
105) 4-chlorotoluene	15.180	91	2031247	189.82	ug/L		99
106) 1,3,5-trimethylbenzene	15.086	105	2362536	183.77	ug/L		100
107) tert-butylbenzene	15.432	119	2101460	186.25	ug/L		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162825.D
Acq On : 14 Jul 2020 11:03 pm
Operator : brittank
Sample : ic8157-200
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 15 10:52:44 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 10:49:37 2020
Response via : Initial Calibration

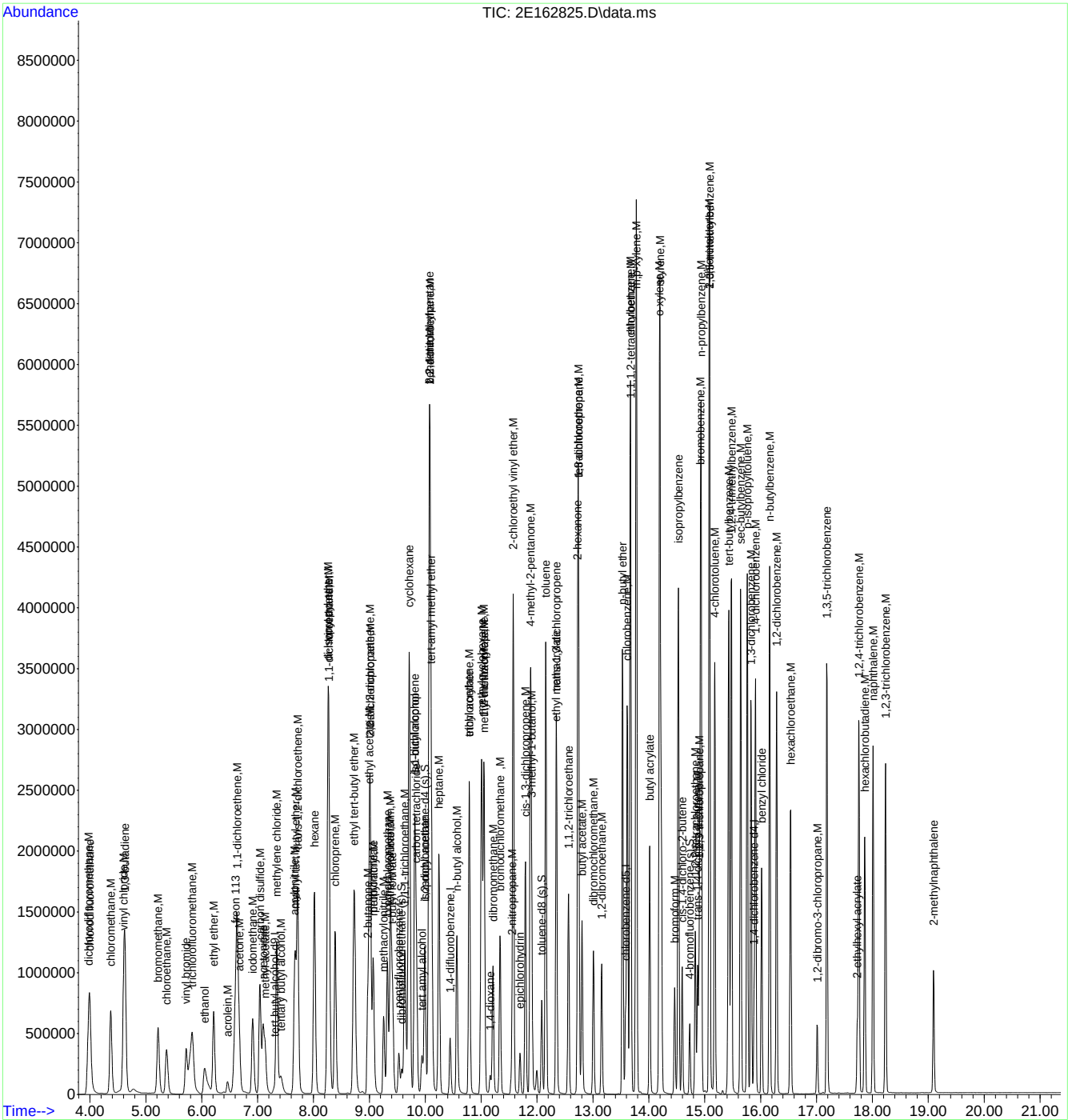
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
108) 1,2,4-trimethylbenzene	15.479	105	2386942	187.13	ug/L	97
109) sec-butylbenzene	15.641	105	2979344	184.06	ug/L	99
110) 1,3-dichlorobenzene	15.830	146	1307733	192.28	ug/L	97
111) p-isopropyltoluene	15.762	119	2528970	187.35	ug/L	99
112) 1,4-dichlorobenzene	15.909	146	1327748	192.34	ug/L	100
113) 1,2-dichlorobenzene	16.286	146	1287760	189.92	ug/L	99
114) n-butylbenzene	16.160	92	1277245	188.92	ug/L	97
115) 1,2-dibromo-3-chloropr...	17.015	157	151527	194.76	ug/L	97
116) 1,3,5-trichlorobenzene	17.183	180	1086662	186.78	ug/L	98
117) 1,2,4-trichlorobenzene	17.759	180	934064	187.79	ug/L	99
118) 2-ethylhexyl acrylate	17.728	70	134370	48.96	ug/L	95
119) hexachlorobutadiene	17.864	225	479039	187.83	ug/L	99
120) naphthalene	18.011	128	2058560	183.27	ug/L	100
121) 1,2,3-trichlorobenzene	18.237	180	842375	185.03	ug/L	98
122) hexachloroethane	16.538	201	448924	202.18	ug/L	95
123) benzyl chloride	16.019	91	1272514	195.41	ug/L	98
124) 2-methylnaphthalene	19.096	142	521523	104.29	ug/L	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162825.D
Acq On : 14 Jul 2020 11:03 pm
Operator : brittank
Sample : ic8157-200
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 15 10:52:44 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 10:49:37 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162828.D
Acq On : 15 Jul 2020 12:33 am
Operator : brittank
Sample : icv8157-50
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 15 11:51:40 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 11:31:23 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.294	65	137557	500.00	ug/L	0.00
5) pentafluorobenzene	9.523	168	283117	50.00	ug/L	0.00
53) 1,4-difluorobenzene	10.440	114	420678	50.00	ug/L	0.00
74) chlorobenzene-d5	13.581	117	340973	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	15.882	152	177607	50.00	ug/L	0.00
System Monitoring Compounds						
47) dibromofluoromethane (s)	9.575	113	138265	48.96	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 97.92%			
54) 1,2-dichloroethane-d4 (s)	9.995	65	157738	49.46	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 98.92%			
75) toluene-d8 (s)	12.081	98	542626	50.21	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.42%			
98) 4-bromofluorobenzene (s)	14.729	95	196885	49.08	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 98.16%			
Target Compounds						Qvalue
2) ethanol	6.041	45	166974	4247.11	ug/L	100
3) tertiary butyl alcohol	7.404	59	93732	207.23	ug/L	97
4) 1,4-dioxane	11.164	88	33836	1090.14	ug/L	98
7) dichlorodifluoromethane	3.965	85	214525	35.10	ug/L	98
8) chloromethane	4.358	50	267016	39.99	ug/L	98
9) vinyl chloride	4.589	62	260688	43.87	ug/L	99
10) bromomethane	5.218	94	152996	43.96	ug/L	99
11) chloroethane	5.370	64	148378	43.76	ug/L	99
12) trichlorofluoromethane	5.816	101	269537	45.65	ug/L	98
13) 1,3-butadiene	4.615	54	211134	47.43	ug/L	99
14) vinyl bromide	5.711	106	116124	50.11	ug/L	99
15) ethyl ether	6.209	74	101405	46.78	ug/L	99
16) acrolein	6.455	56	32827	46.49	ug/L	100
17) freon 113	6.597	151	133457	47.69	ug/L	95
18) 1,1-dichloroethene	6.629	61	248318	43.74	ug/L	99
19) acetone	6.665	43	166105	176.53	ug/L	96
20) acetonitrile	7.095	41	199500	395.86	ug/L	99
21) iodomethane	6.906	142	255445	43.74	ug/L	100
22) carbon disulfide	7.032	76	562146	55.31	ug/L	100
23) methylene chloride	7.336	84	181886	45.53	ug/L	99
24) methyl acetate	7.132	43	123176	42.96	ug/L	97
25) methyl tert butyl ether	7.667	73	977598	96.53	ug/L	98
26) trans-1,2-dichloroethene	7.714	61	257802	46.64	ug/L	99
27) hexane	8.013	56	154559	52.30	ug/L	99
28) di-isopropyl ether	8.254	45	614375	46.25	ug/L	95
29) ethyl tert-butyl ether	8.720	59	563421	45.56	ug/L	99
30) 2-butanone	8.972	72	73105	212.78	ug/L	100
31) 1,1-dichloroethane	8.275	63	330768	47.60	ug/L	99
32) chloroprene	8.385	53	272115	50.82	ug/L	99
33) acrylonitrile	7.661	53	70471	52.11	ug/L	98
34) vinyl acetate	8.264	86	34819	49.53	ug/L #	92
35) ethyl acetate	8.998	45	26885	49.49	ug/L #	49
36) 2,2-dichloropropane	9.014	77	223660	42.10	ug/L	98
37) cis-1,2-dichloroethene	9.009	96	182811	45.62	ug/L	100
38) propionitrile	9.067	54	238389	480.14	ug/L	88
39) methyl acrylate	9.072	85	23240	52.87	ug/L #	76
40) bromochloromethane	9.318	128	88449	48.46	ug/L	95
41) tetrahydrofuran	9.365	72	21092	48.53	ug/L	94
42) chloroform	9.376	83	288712	44.70	ug/L	99
43) t-butyl formate	9.407	59	124593	42.35	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162828.D
Acq On : 15 Jul 2020 12:33 am
Operator : brittank
Sample : icv8157-50
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 15 11:51:40 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 11:31:23 2020
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44)	1,1-dichloropropene	9.806	75	242084	47.80	ug/L		99
45)	carbon tetrachloride	9.837	117	220926	48.06	ug/L		97
46)	isopropyl acetate	9.989	87	36085	47.69	ug/L		99
48)	methacrylonitrile	9.255	67	68489	52.62	ug/L		99
49)	1,1,1-trichloroethane	9.633	97	254990	47.39	ug/L		99
50)	cyclohexane	9.706	84	304454	51.53	ug/L		98
51)	iso-butyl alcohol	9.811	43	66723	454.10	ug/L		95
52)	tert amyl alcohol	9.937	73	41309	235.96	ug/L		91
55)	2,2,4-trimethylpentane	10.073	57	657996	47.92	ug/L		99
56)	n-butyl alcohol	10.566	56	215546	2404.25	ug/L		100
57)	benzene	10.073	78	707732	46.42	ug/L		99
58)	tert-amyl methyl ether	10.105	73	513898	44.15	ug/L		97
59)	heptane	10.241	57	133788	50.34	ug/L		99
60)	1,2-dichloroethane	10.084	62	218230	46.63	ug/L		99
61)	ethyl acrylate	10.786	55	199179	49.81	ug/L		99
62)	trichloroethene	10.786	95	172069	49.28	ug/L		97
63)	2-nitropropane	11.552	41	52424	49.00	ug/L		98
64)	2-chloroethyl vinyl ether	11.573	63	480716	256.92	ug/L		100
65)	methyl methacrylate	11.054	100	42463	53.15	ug/L	#	92
66)	1,2-dichloropropane	11.048	63	189285	47.86	ug/L		99
67)	methylcyclohexane	11.006	83	337526	48.77	ug/L		100
68)	dibromomethane	11.206	93	95731	47.28	ug/L		99
69)	bromodichloromethane	11.337	83	213410	46.48	ug/L		99
70)	epichlorohydrin	11.693	57	79610	244.52	ug/L		98
71)	cis-1,3-dichloropropene	11.788	75	281808	48.70	ug/L		100
72)	4-methyl-2-pentanone	11.882	58	253199	204.06	ug/L		99
73)	3-methyl-1-butanol	11.903	70	89245	1050.55	ug/L		98
76)	toluene	12.155	92	415357	49.14	ug/L		99
77)	ethyl methacrylate	12.343	69	211616	54.01	ug/L		98
78)	trans-1,3-dichloropropene	12.349	75	246698	51.47	ug/L		99
79)	1,1,2-trichloroethane	12.564	83	118533	48.20	ug/L		98
80)	tetrachloroethene	12.737	164	136782	49.55	ug/L		98
81)	2-hexanone	12.726	58	226887	209.70	ug/L		96
82)	1,3-dichloropropane	12.742	76	243670	48.18	ug/L		99
83)	butyl acetate	12.805	56	111301	51.61	ug/L		96
84)	dibromochloromethane	13.009	129	157970	51.42	ug/L		100
85)	1,2-dibromoethane	13.156	107	188992	51.30	ug/L		99
86)	n-butyl ether	13.528	57	773775	51.65	ug/L		99
87)	chlorobenzene	13.612	112	432576	48.68	ug/L		97
88)	1,1,1,2-tetrachloroethane	13.670	131	152667	49.91	ug/L		98
89)	ethylbenzene	13.670	91	748591	49.52	ug/L		100
90)	m,p-xylene	13.775	106	573304	100.53	ug/L		99
91)	o-xylene	14.189	91	605030	49.97	ug/L		99
92)	styrene	14.199	104	467201	53.22	ug/L		99
93)	butyl acrylate	14.016	55	311983	52.15	ug/L		99
94)	bromoform	14.462	173	100731	55.68	ug/L		98
95)	isopropylbenzene	14.530	105	727600	50.79	ug/L		99
96)	cis-1,4-dichloro-2-butene	14.598	75	64383	54.37	ug/L		100
99)	bromobenzene	14.923	156	178252	47.07	ug/L		99
100)	1,1,2,2-tetrachloroethane	14.829	83	173118	46.32	ug/L		98
101)	trans-1,4-dichloro-2-b...	14.871	53	48805	51.65	ug/L		98
102)	1,2,3-trichloropropane	14.902	110	46671	47.27	ug/L		97
103)	n-propylbenzene	14.934	91	847390	48.22	ug/L		100
104)	2-chlorotoluene	15.080	126	165077	46.46	ug/L		99
105)	4-chlorotoluene	15.180	91	518149	47.95	ug/L		99
106)	1,3,5-trimethylbenzene	15.086	105	602216	48.83	ug/L		100
107)	tert-butylbenzene	15.432	119	528312	48.81	ug/L		98
108)	1,2,4-trimethylbenzene	15.474	105	612834	50.46	ug/L		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162828.D
Acq On : 15 Jul 2020 12:33 am
Operator : brittank
Sample : icv8157-50
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 15 11:51:40 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 11:31:23 2020
Response via : Initial Calibration

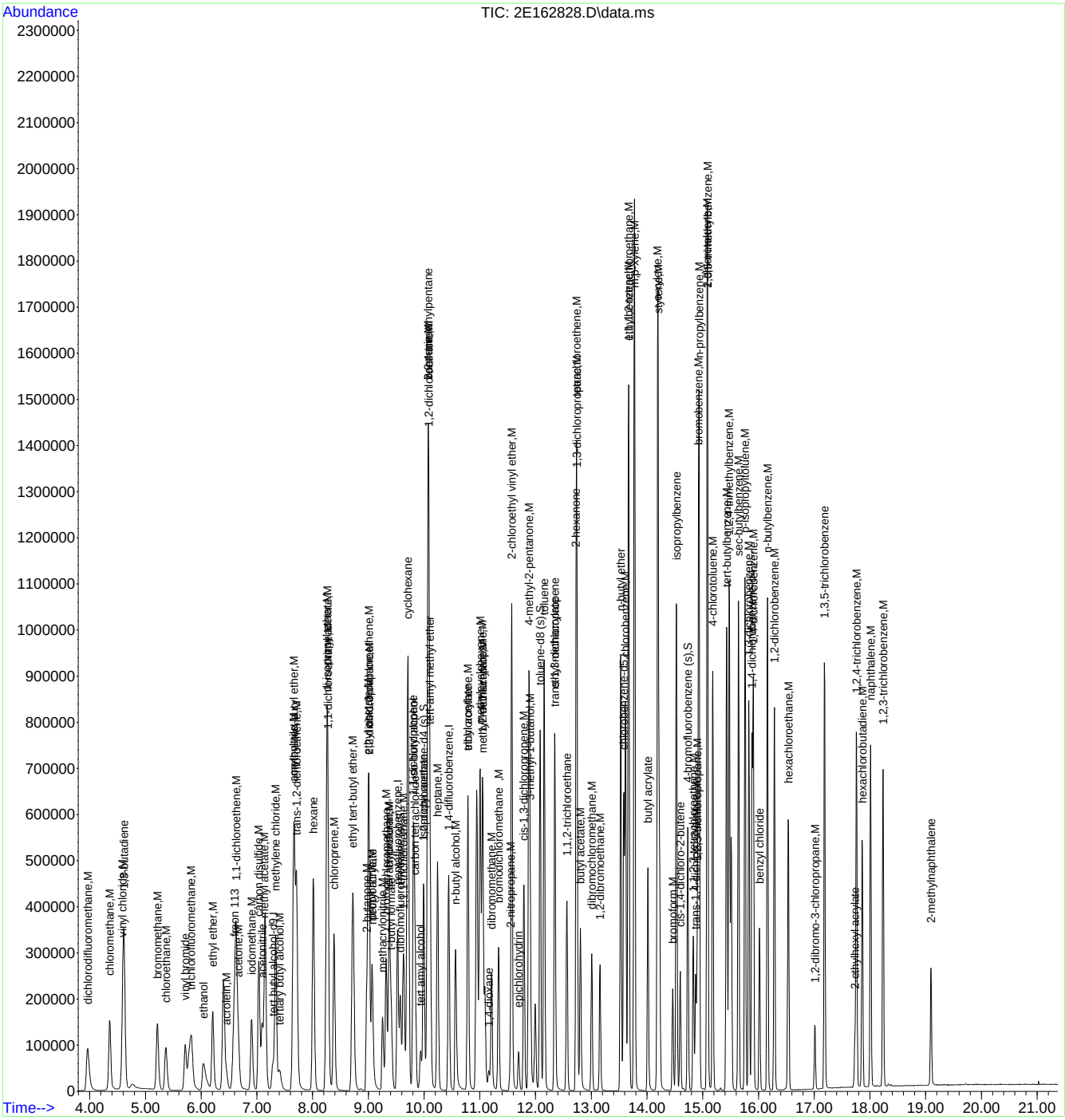
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
109) sec-butylbenzene	15.641	105	754728	49.14	ug/L	99
110) 1,3-dichlorobenzene	15.825	146	333065	48.73	ug/L	99
111) p-isopropyltoluene	15.757	119	638607	50.39	ug/L	100
112) 1,4-dichlorobenzene	15.909	146	334452	47.59	ug/L	99
113) 1,2-dichlorobenzene	16.286	146	325742	48.25	ug/L	99
114) n-butylbenzene	16.160	92	317266	50.35	ug/L	98
115) 1,2-dibromo-3-chloropr...	17.015	157	36451	49.79	ug/L	96
116) 1,3,5-trichlorobenzene	17.183	180	279884	50.32	ug/L	99
117) 1,2,4-trichlorobenzene	17.759	180	234525	52.42	ug/L	99
118) 2-ethylhexyl acrylate	17.728	70	27240	9.28	ug/L	99
119) hexachlorobutadiene	17.864	225	117610	48.13	ug/L	100
120) naphthalene	18.011	128	536238	53.51	ug/L	100
121) 1,2,3-trichlorobenzene	18.237	180	212744	51.25	ug/L	99
122) hexachloroethane	16.538	201	107070	52.21	ug/L	98
123) benzyl chloride	16.019	91	241157	39.42	ug/L	98
124) 2-methylnaphthalene	19.096	142	127398	27.72	ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162828.D
Acq On : 15 Jul 2020 12:33 am
Operator : brittank
Sample : icv8157-50
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 15 11:51:40 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 11:31:23 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162829.D
Acq On : 15 Jul 2020 1:03 am
Operator : brittank
Sample : icv8157-50
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 15 11:52:41 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 11:31:23 2020
Response via : Initial Calibration

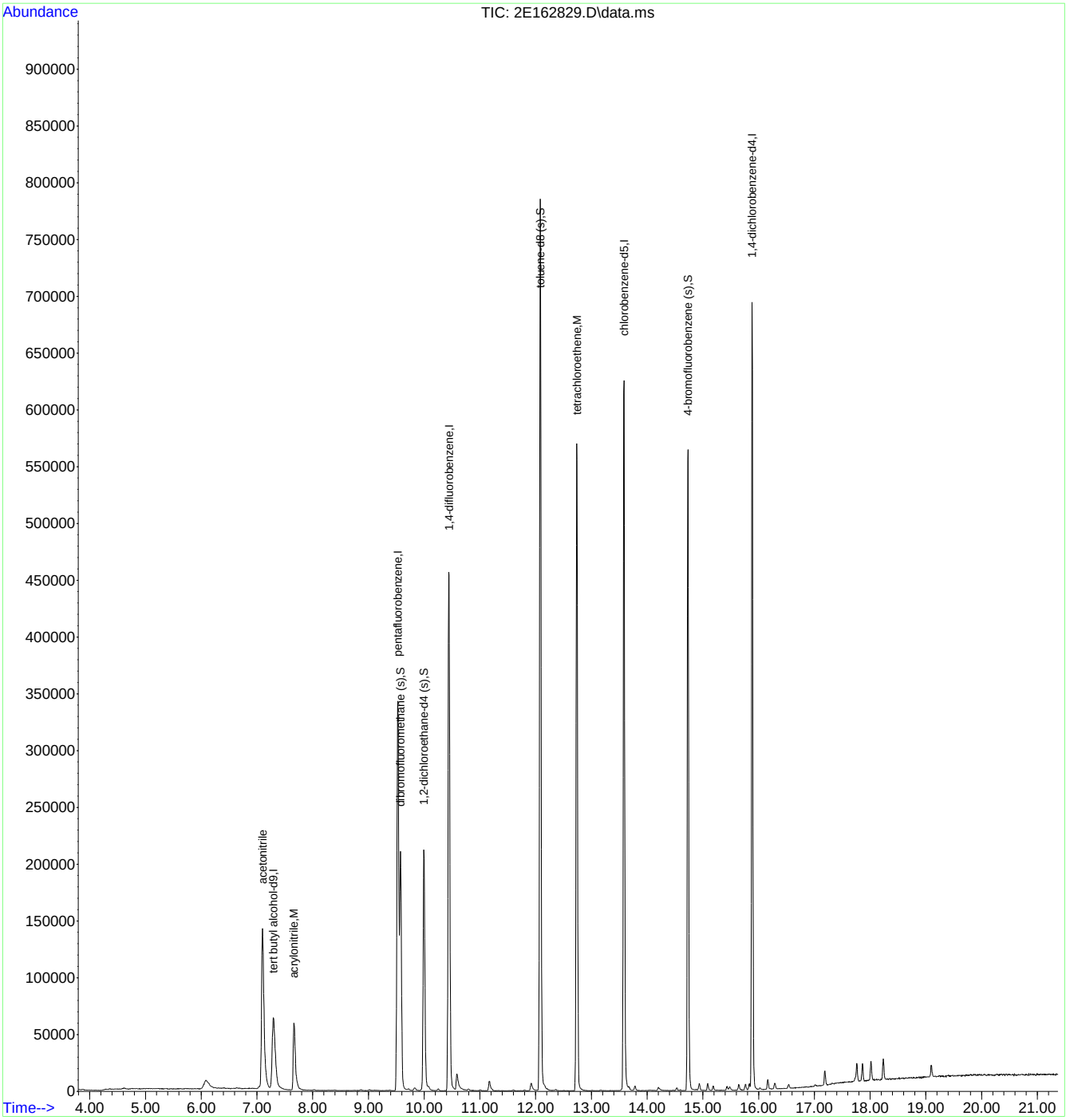
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.294	65	147962	500.00	ug/L	0.00
5) pentafluorobenzene	9.528	168	291283	50.00	ug/L	0.00
53) 1,4-difluorobenzene	10.446	114	429525	50.00	ug/L	0.00
74) chlorobenzene-d5	13.586	117	351236	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	15.883	152	173888	50.00	ug/L	0.00
System Monitoring Compounds						
47) dibromofluoromethane (s)	9.575	113	142544	49.06	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 98.12%			
54) 1,2-dichloroethane-d4 (s)	9.995	65	164534	50.53	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 101.06%			
75) toluene-d8 (s)	12.081	98	551242	49.51	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.02%			
98) 4-bromofluorobenzene (s)	14.729	95	199652	50.84	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 101.68%			
Target Compounds						Qvalue
20) acetonitrile	7.100	41	244574	471.70	ug/L	98
33) acrylonitrile	7.661	53	69456	49.92	ug/L	98
80) tetrachloroethene	12.742	164	140660	49.47	ug/L	96

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162829.D
Acq On : 15 Jul 2020 1:03 am
Operator : brittank
Sample : icv8157-50
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 15 11:52:41 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 11:31:23 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162834.D
Acq On : 15 Jul 2020 12:22 pm
Operator : brittank
Sample : icv8157-50
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jul 15 13:41:09 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 11:11:41 2020
Response via : Initial Calibration

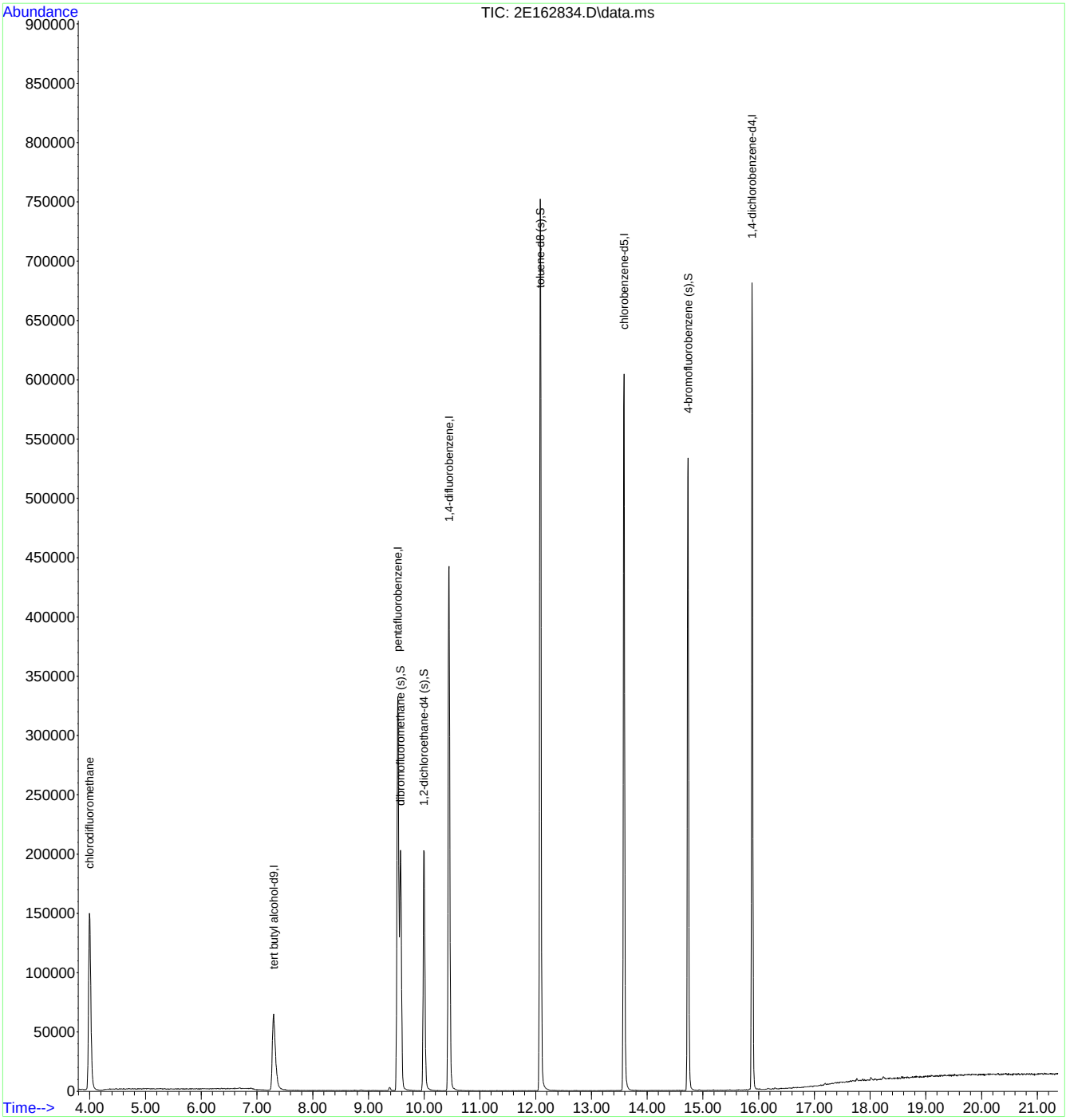
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.300	65	146425	500.00	ug/L	0.00
5) pentafluorobenzene	9.528	168	275352	50.00	ug/L	0.00
53) 1,4-difluorobenzene	10.445	114	411125	50.00	ug/L	0.00
74) chlorobenzene-d5	13.586	117	338036	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	15.882	152	164572	50.00	ug/L	0.00
System Monitoring Compounds						
47) dibromofluoromethane (s)	9.575	113	136802	49.81	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.62%			
54) 1,2-dichloroethane-d4 (s)	9.994	65	158386	50.81	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 101.62%			
75) toluene-d8 (s)	12.081	98	536993	50.12	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.24%			
98) 4-bromofluorobenzene (s)	14.734	95	190682	51.30	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 102.60%			
Target Compounds						Qvalue
6) chlorodifluoromethane	3.996	51	307318	53.53	ug/L	94

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162834.D
Acq On : 15 Jul 2020 12:22 pm
Operator : brittank
Sample : icv8157-50
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jul 15 13:41:09 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 11:11:41 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\July-2020\7-21\v2e8165-rush\
Data File : 2e162969.d
Acq On : 20 Jul 2020 11:05 am
Operator : krizhkac
Sample : CC8157-20 Inst : VOAMS2E
Misc : MS44525,V2E8165,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 21 00:15:46 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Jul 16 11:01:59 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.300	65	129757	500.00	ug/L	0.00
5) pentafluorobenzene	9.528	168	239256	50.00	ug/L	0.00
53) 1,4-difluorobenzene	10.440	114	356773	50.00	ug/L	0.00
74) chlorobenzene-d5	13.586	117	292613	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	15.883	152	148260	50.00	ug/L	0.00
127) pentafluorobenzene(a)	9.528	168	239256	50.00	ug/L	0.00
130) 1,4-dichlorobenzene-d4(a)	15.883	152	148260	50.00	ug/L	0.00
System Monitoring Compounds						
47) dibromofluoromethane (s)	9.575	113	120163	50.35	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.70%			
54) 1,2-dichloroethane-d4 (s)	9.995	65	134082	49.57	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 99.14%			
75) toluene-d8 (s)	12.081	98	456571	49.23	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 98.46%			
98) 4-bromofluorobenzene (s)	14.729	95	164692	49.18	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 98.36%			
Target Compounds						Qvalue
2) ethanol	6.052	45	65276	1760.15	ug/L	96
3) tertiary butyl alcohol	7.415	59	37614	88.16	ug/L	99
4) 1,4-dioxane	11.164	88	14054	480.01	ug/L	96
6) chlorodifluoromethane	3.997	51	91371	18.32	ug/L	98
7) dichlorodifluoromethane	3.970	85	86707	16.79	ug/L	99
8) chloromethane	4.374	50	98785	17.51	ug/L	99
9) vinyl chloride	4.605	62	90240	17.97	ug/L	99
10) bromomethane	5.229	94	55773	18.96	ug/L	99
11) chloroethane	5.376	64	51128	17.84	ug/L	95
12) trichlorofluoromethane	5.837	101	89852	18.01	ug/L	96
13) 1,3-butadiene	4.626	54	67030	17.82	ug/L	97
14) vinyl bromide	5.727	106	33461	17.09	ug/L	99
15) ethyl ether	6.214	74	35259	19.25	ug/L	100
16) acrolein	6.466	56	11258	18.87	ug/L	87
17) freon 113	6.613	151	42986	18.18	ug/L	91
18) 1,1-dichloroethene	6.639	61	89175	18.59	ug/L	99
19) acetone	6.676	43	62061	78.05	ug/L	99
20) acetonitrile	7.106	41	86190	202.38	ug/L	96
21) iodomethane	6.917	142	99787	20.22	ug/L	99
22) carbon disulfide	7.048	76	160912	18.73	ug/L	99
23) methylene chloride	7.342	84	66303	19.64	ug/L	92
24) methyl acetate	7.142	43	47540	19.62	ug/L	98
25) methyl tert butyl ether	7.677	73	168109	19.64	ug/L	99
26) trans-1,2-dichloroethene	7.719	61	89396	19.14	ug/L	100
27) hexane	8.018	56	45105	18.06	ug/L	97
28) di-isopropyl ether	8.259	45	218719	19.48	ug/L	89
29) ethyl tert-butyl ether	8.726	59	203579	19.48	ug/L	99
30) 2-butanone	8.983	72	24942	85.90	ug/L	96
31) 1,1-dichloroethane	8.280	63	112656	19.18	ug/L	97
32) chloroprene	8.385	53	84842	18.75	ug/L	99
33) acrylonitrile	7.672	53	23612	20.66	ug/L	97
34) vinyl acetate	8.264	86	12429	20.92	ug/L #	89
35) ethyl acetate	9.004	45	9706	21.14	ug/L #	59
36) 2,2-dichloropropane	9.014	77	79835	17.78	ug/L	99
37) cis-1,2-dichloroethene	9.009	96	64418	19.02	ug/L	99
38) propionitrile	9.072	54	84367	201.07	ug/L	99
39) methyl acrylate	9.088	85	7977	21.47	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\July-2020\7-21\v2e8165-rush\
Data File : 2e162969.d
Acq On : 20 Jul 2020 11:05 am
Operator : krizhkac
Sample : CC8157-20 Inst : VOAMS2E
Misc : MS44525,V2E8165,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 21 00:15:46 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Jul 16 11:01:59 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
40) bromochloromethane	9.324	128	30117	19.52	ug/L		97
41) tetrahydrofuran	9.371	72	7444	20.27	ug/L		97
42) chloroform	9.381	83	103278	18.92	ug/L		98
43) t-butyl formate	9.407	59	41328	16.62	ug/L		93
44) 1,1-dichloropropene	9.811	75	80701	18.86	ug/L		100
45) carbon tetrachloride	9.837	117	73021	18.80	ug/L		99
46) isopropyl acetate	9.995	87	13274	20.76	ug/L		92
48) methacrylonitrile	9.266	67	22861	20.79	ug/L		90
49) 1,1,1-trichloroethane	9.633	97	86346	18.99	ug/L		98
50) cyclohexane	9.711	84	91769	18.38	ug/L	#	84
51) iso-butyl alcohol	9.816	43	24880	200.37	ug/L		94
52) tert amyl alcohol	9.942	73	14844	100.33	ug/L		93
55) 2,2,4-trimethylpentane	10.073	57	212451	18.24	ug/L		100
56) n-butyl alcohol	10.571	56	85227	1120.92	ug/L		97
57) benzene	10.073	78	242667	18.77	ug/L		99
58) tert-amyl methyl ether	10.105	73	193599	19.61	ug/L		98
59) heptane	10.246	57	41434	18.38	ug/L		99
60) 1,2-dichloroethane	10.084	62	76453	19.26	ug/L		98
61) ethyl acrylate	10.792	55	67780	19.99	ug/L		99
62) trichloroethene	10.792	95	57520	19.42	ug/L		98
63) 2-nitropropane	11.557	41	18277	20.14	ug/L	#	34
64) 2-chloroethyl vinyl ether	11.573	63	171050	107.79	ug/L		99
65) methyl methacrylate	11.059	100	14004	20.67	ug/L	#	79
66) 1,2-dichloropropane	11.048	63	65487	19.52	ug/L		100
67) methylcyclohexane	11.007	83	103853	17.69	ug/L		100
68) dibromomethane	11.211	93	34787	20.26	ug/L		95
69) bromodichloromethane	11.337	83	74532	19.14	ug/L		98
70) epichlorohydrin	11.699	57	27887	101.00	ug/L		94
71) cis-1,3-dichloropropene	11.793	75	95594	19.48	ug/L		99
72) 4-methyl-2-pentanone	11.882	58	88056	83.68	ug/L		96
73) 3-methyl-1-butanol	11.903	70	32505	451.17	ug/L		97
76) toluene	12.155	92	139605	19.25	ug/L		99
77) ethyl methacrylate	12.344	69	67996	20.22	ug/L		98
78) trans-1,3-dichloropropene	12.349	75	82719	20.11	ug/L		99
79) 1,1,2-trichloroethane	12.564	83	40709	19.29	ug/L		96
80) tetrachloroethene	12.737	164	44144	18.63	ug/L		97
81) 2-hexanone	12.731	58	76723	82.63	ug/L		99
82) 1,3-dichloropropane	12.742	76	84475	19.46	ug/L		99
83) butyl acetate	12.805	56	38595	20.86	ug/L		95
84) dibromochloromethane	13.009	129	50936	19.32	ug/L		97
85) 1,2-dibromoethane	13.156	107	63440	20.07	ug/L		98
86) n-butyl ether	13.528	57	241792	18.81	ug/L		100
87) chlorobenzene	13.618	112	146407	19.20	ug/L		100
88) 1,1,1,2-tetrachloroethane	13.675	131	50966	19.42	ug/L		98
89) ethylbenzene	13.670	91	247592	19.09	ug/L		98
90) m,p-xylene	13.775	106	189638	38.75	ug/L		98
91) o-xylene	14.189	91	201807	19.42	ug/L		99
92) styrene	14.200	104	155908	20.69	ug/L		99
93) butyl acrylate	14.016	55	99974	19.47	ug/L		99
94) bromoform	14.462	173	31982	20.60	ug/L		98
95) isopropylbenzene	14.530	105	236844	19.26	ug/L		99
96) cis-1,4-dichloro-2-butene	14.598	75	19667	19.35	ug/L		95
99) bromobenzene	14.923	156	60630	19.18	ug/L		96
100) 1,1,2,2-tetrachloroethane	14.829	83	60565	19.41	ug/L		98
101) trans-1,4-dichloro-2-b...	14.871	53	15551	19.71	ug/L		95
102) 1,2,3-trichloropropane	14.902	110	16695	20.26	ug/L		97
103) n-propylbenzene	14.934	91	278983	19.02	ug/L		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\July-2020\7-21\v2e8165-rush\
Data File : 2e162969.d
Acq On : 20 Jul 2020 11:05 am
Operator : krizhkac
Sample : CC8157-20 Inst : VOAMS2E
Misc : MS44525,V2E8165,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 21 00:15:46 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Jul 16 11:01:59 2020
Response via : Initial Calibration

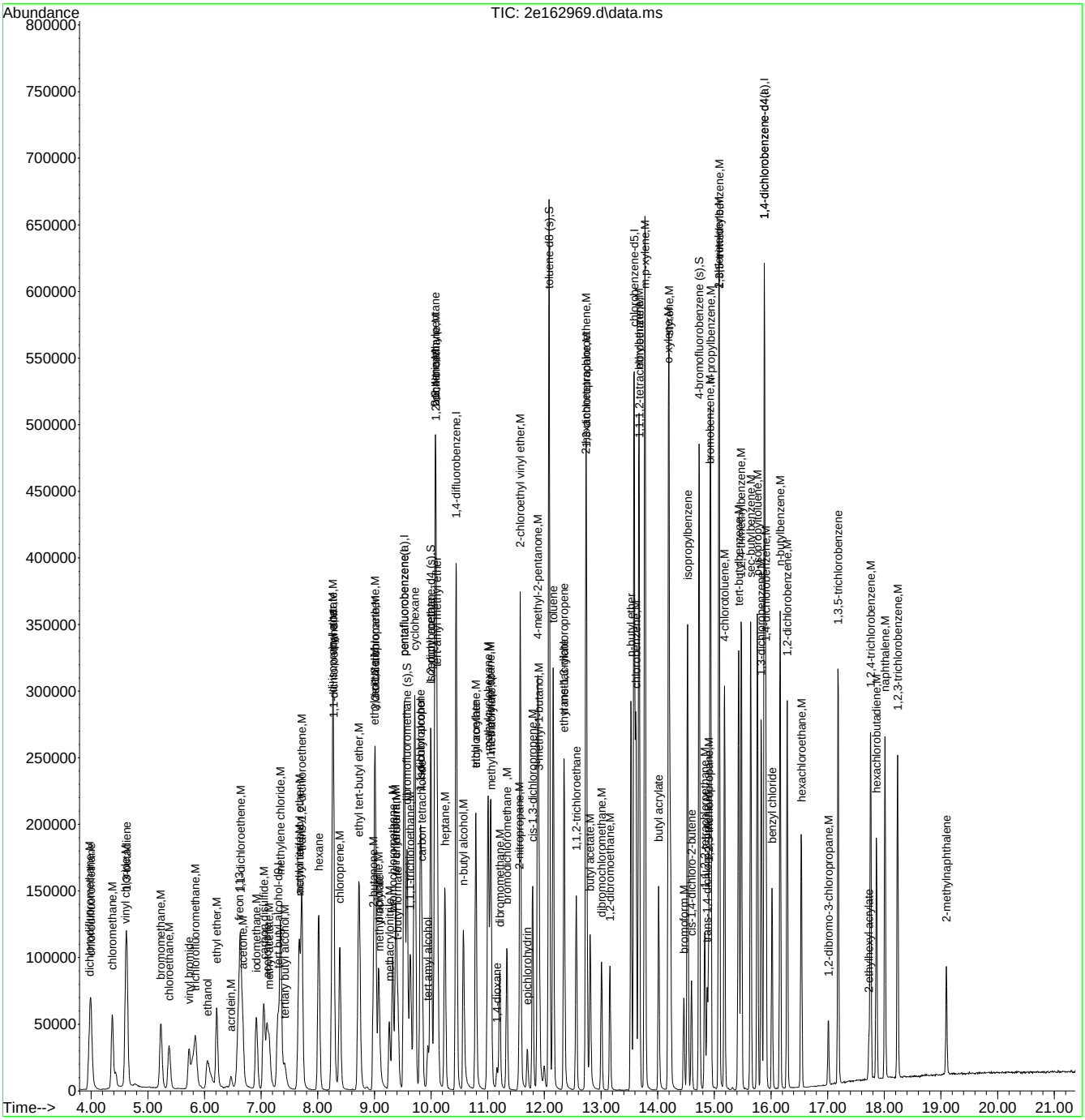
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 2-chlorotoluene	15.080	126	57136	19.27	ug/L	99
105) 4-chlorotoluene	15.180	91	171123	18.97	ug/L	98
106) 1,3,5-trimethylbenzene	15.086	105	199866	19.41	ug/L	99
107) tert-butylbenzene	15.432	119	171499	18.98	ug/L	98
108) 1,2,4-trimethylbenzene	15.474	105	200367	19.77	ug/L	100
109) sec-butylbenzene	15.641	105	243358	18.98	ug/L	100
110) 1,3-dichlorobenzene	15.825	146	110490	19.36	ug/L	98
111) p-isopropyltoluene	15.762	119	206420	19.51	ug/L	99
112) 1,4-dichlorobenzene	15.909	146	111225	18.96	ug/L	99
113) 1,2-dichlorobenzene	16.286	146	109376	19.41	ug/L	99
114) n-butylbenzene	16.160	92	102308	19.45	ug/L	99
115) 1,2-dibromo-3-chloropr...	17.015	157	12364	20.23	ug/L	96
116) 1,3,5-trichlorobenzene	17.183	180	90958	19.59	ug/L	97
117) 1,2,4-trichlorobenzene	17.760	180	78721	21.08	ug/L	94
118) 2-ethylhexyl acrylate	17.728	70	7142	3.69	ug/L	88
119) hexachlorobutadiene	17.859	225	38813	19.03	ug/L	98
120) naphthalene	18.011	128	182245	21.79	ug/L	99
121) 1,2,3-trichlorobenzene	18.237	180	73902	21.33	ug/L	97
122) hexachloroethane	16.538	201	32449	18.95	ug/L	97
123) benzyl chloride	16.019	91	103398	20.25	ug/L	98
124) 2-methylnaphthalene	19.097	142	39033	10.18	ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\July-2020\7-21\v2e8165-rush\
Data File : 2e162969.d
Acq On : 20 Jul 2020 11:05 am
Operator : krizhkac
Sample : CC8157-20 Inst : VOAMS2E
Misc : MS44525,V2E8165,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 21 00:15:46 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Jul 16 11:01:59 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4496\
Data File : 4D101404.D
Acq On : 16 Apr 2020 4:32 pm
Operator : ROBERTS
Sample : IC4496-0.2
Misc : MS42511,V4D4496,5,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 17 16:28:42 2020
Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 08:29:10 2020
Response via : Initial Calibration

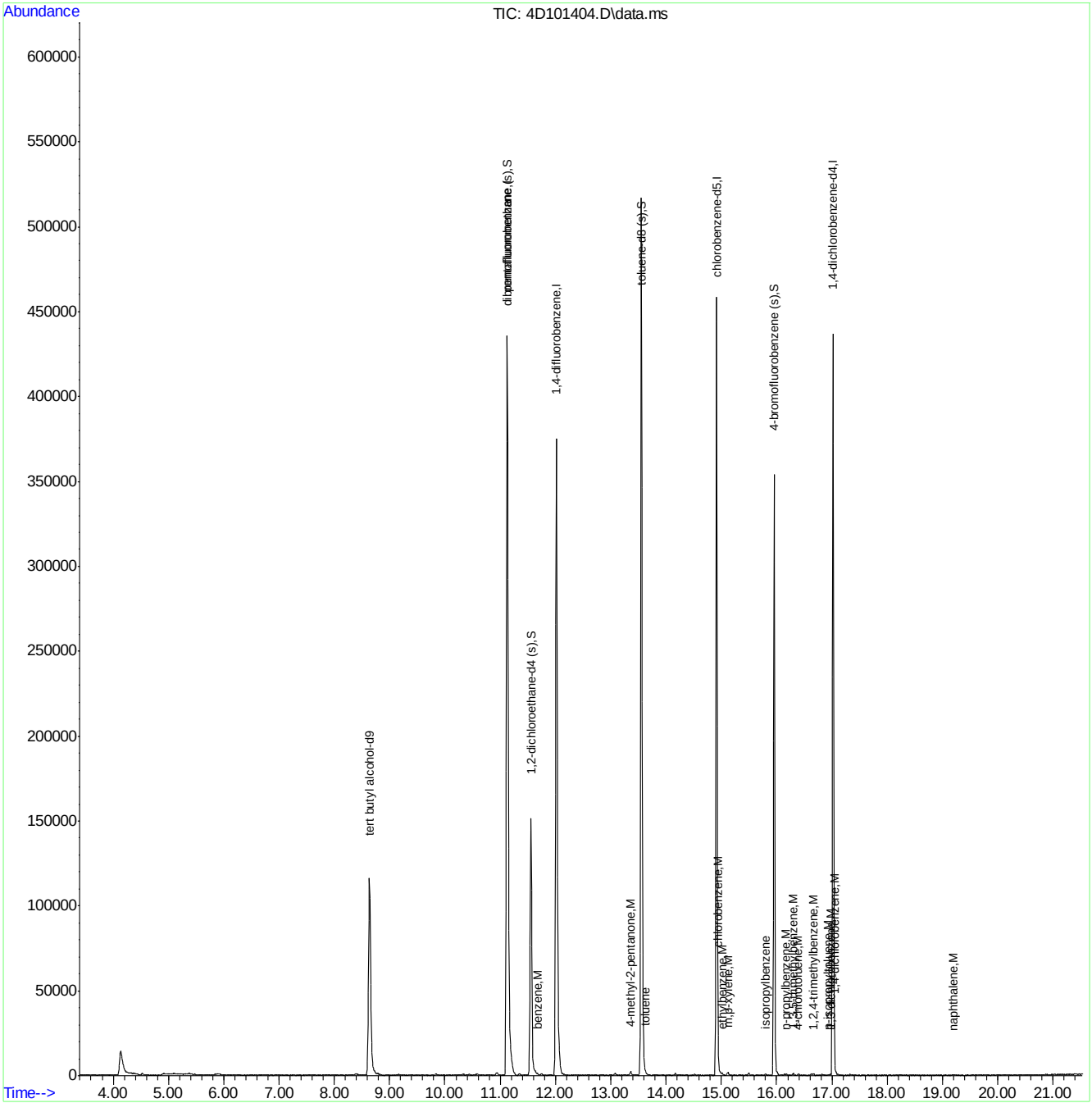
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	8.640	65	203780	500.00	ug/L	0.00
5) pentafluorobenzene	11.126	168	243960	50.00	ug/L	0.00
51) 1,4-difluorobenzene	12.017	114	350539	50.00	ug/L	0.00
73) chlorobenzene-d5	14.916	117	259035	50.00	ug/L	0.00
96) 1,4-dichlorobenzene-d4	17.019	152	108858	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	11.131	113	115917	49.04	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 98.08%			
52) 1,2-dichloroethane-d4 (s)	11.556	65	119359	48.99	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 97.98%			
74) toluene-d8 (s)	13.553	98	354762	51.46	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 102.92%			
97) 4-bromofluorobenzene (s)	15.954	95	110503	51.44	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 102.88%			
Target Compounds						Qvalue
55) benzene	11.676	78	1293	0.19	ug/L	99
71) 4-methyl-2-pentanone	13.354	58	640	0.63	ug/L #	66
75) toluene	13.621	92	747	0.20	ug/L	92
86) chlorobenzene	14.937	112	768	0.19	ug/L #	68
88) ethylbenzene	15.016	91	1308	0.20	ug/L	88
89) m,p-xylene	15.121	106	830	0.32	ug/L	97
94) isopropylbenzene	15.802	105	1058	0.18	ug/L	81
102) n-propylbenzene	16.175	91	1260	0.19	ug/L	58
104) 4-chlorotoluene	16.390	91	699	0.17	ug/L	86
105) 1,3,5-trimethylbenzene	16.306	105	779	0.17	ug/L	91
107) 1,2,4-trimethylbenzene	16.662	105	870	0.19	ug/L	91
109) 1,3-dichlorobenzene	16.977	146	541	0.20	ug/L	98
110) p-isopropyltoluene	16.935	119	733	0.17	ug/L	51
111) 1,4-dichlorobenzene	17.045	146	557	0.20	ug/L	71
120) naphthalene	19.200	128	811	0.21	ug/L	70

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4496\
Data File : 4D101404.D
Acq On : 16 Apr 2020 4:32 pm
Operator : ROBERTS
Sample : IC4496-0.2
Misc : MS42511,V4D4496,5,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 17 16:28:42 2020
Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 08:29:10 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4496\
Data File : 4D101405.D
Acq On : 16 Apr 2020 5:01 pm
Operator : ROBERTS
Sample : IC4496-0.5
Misc : MS42511,V4D4496,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 17 16:17:01 2020
Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 08:29:10 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	8.640	65	200716	500.00	ug/L		0.00
5) pentafluorobenzene	11.131	168	233488	50.00	ug/L		0.00
51) 1,4-difluorobenzene	12.017	114	334117	50.00	ug/L		0.00
73) chlorobenzene-d5	14.911	117	248969	50.00	ug/L		0.00
96) 1,4-dichlorobenzene-d4	17.019	152	106968	50.00	ug/L		0.00
System Monitoring Compounds							
43) dibromofluoromethane (s)	11.131	113	110568	48.87	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 97.74%				
52) 1,2-dichloroethane-d4 (s)	11.556	65	116581	50.21	ug/L		0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 100.42%				
74) toluene-d8 (s)	13.553	98	337711	50.96	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 101.92%				
97) 4-bromofluorobenzene (s)	15.954	95	107109	50.74	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 101.48%				
Target Compounds							Qvalue
9) vinyl chloride	5.364	62	867	0.42	ug/L	#	51
17) 1,1-dichloroethene	7.948	96	684	0.40	ug/L		86
24) methyl tert butyl ether	9.154	73	2541	0.45	ug/L		94
26) di-isopropyl ether	9.831	45	2616	0.43	ug/L		80
28) 1,1-dichloroethane	9.773	63	1421	0.43	ug/L		78
33) ethyl tert-butyl ether	10.329	59	2491	0.42	ug/L		97
35) 2,2-dichloropropane	10.586	77	1016	0.39	ug/L		84
36) cis-1,2-dichloroethene	10.565	96	800	0.40	ug/L	#	77
38) propionitrile	10.586	54	1747	3.70	ug/L		52
45) 1,1,1-trichloroethane	11.246	97	1062	0.39	ug/L	#	69
47) 1,1-dichloropropene	11.430	75	1093	0.46	ug/L		98
53) n-butyl alcohol	12.106	56	2129	17.62	ug/L		89
55) benzene	11.676	78	3476	0.53	ug/L		94
59) 1,2-dichloroethane	11.645	62	1413	0.57	ug/L		83
60) trichloroethene	12.353	130	707	0.41	ug/L		90
63) 2-chloroethyl vinyl ether	13.066	63	2777	2.13	ug/L		98
65) 1,2-dichloropropane	12.583	63	681	0.40	ug/L	#	48
68) bromodichloromethane	12.824	83	1009	0.43	ug/L		93
70) cis-1,3-dichloropropene	13.265	75	1075	0.39	ug/L		88
71) 4-methyl-2-pentanone	13.359	58	1738	1.78	ug/L	#	73
75) toluene	13.621	92	1663	0.46	ug/L		100
76) trans-1,3-dichloropropene	13.768	75	927	0.38	ug/L	#	73
78) 1,1,2-trichloroethane	13.957	83	506	0.40	ug/L		95
79) tetrachloroethene	14.172	164	560	0.42	ug/L		95
80) 1,3-dichloropropane	14.130	76	1089	0.46	ug/L	#	72
81) 2-hexanone	14.146	58	1504	1.51	ug/L		92
83) dibromochloromethane	14.361	129	709	0.40	ug/L		81
84) 1,2-dibromoethane	14.507	107	777	0.40	ug/L		95
85) n-butyl ether	14.911	57	2712	0.45	ug/L	#	1
86) chlorobenzene	14.937	112	1865	0.48	ug/L		87
88) ethylbenzene	15.016	91	2953	0.46	ug/L		91
89) m,p-xylene	15.110	106	2196	0.89	ug/L		94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4496\
Data File : 4D101405.D
Acq On : 16 Apr 2020 5:01 pm
Operator : ROBERTS
Sample : IC4496-0.5
Misc : MS42511,V4D4496,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 17 16:17:01 2020
Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 08:29:10 2020
Response via : Initial Calibration

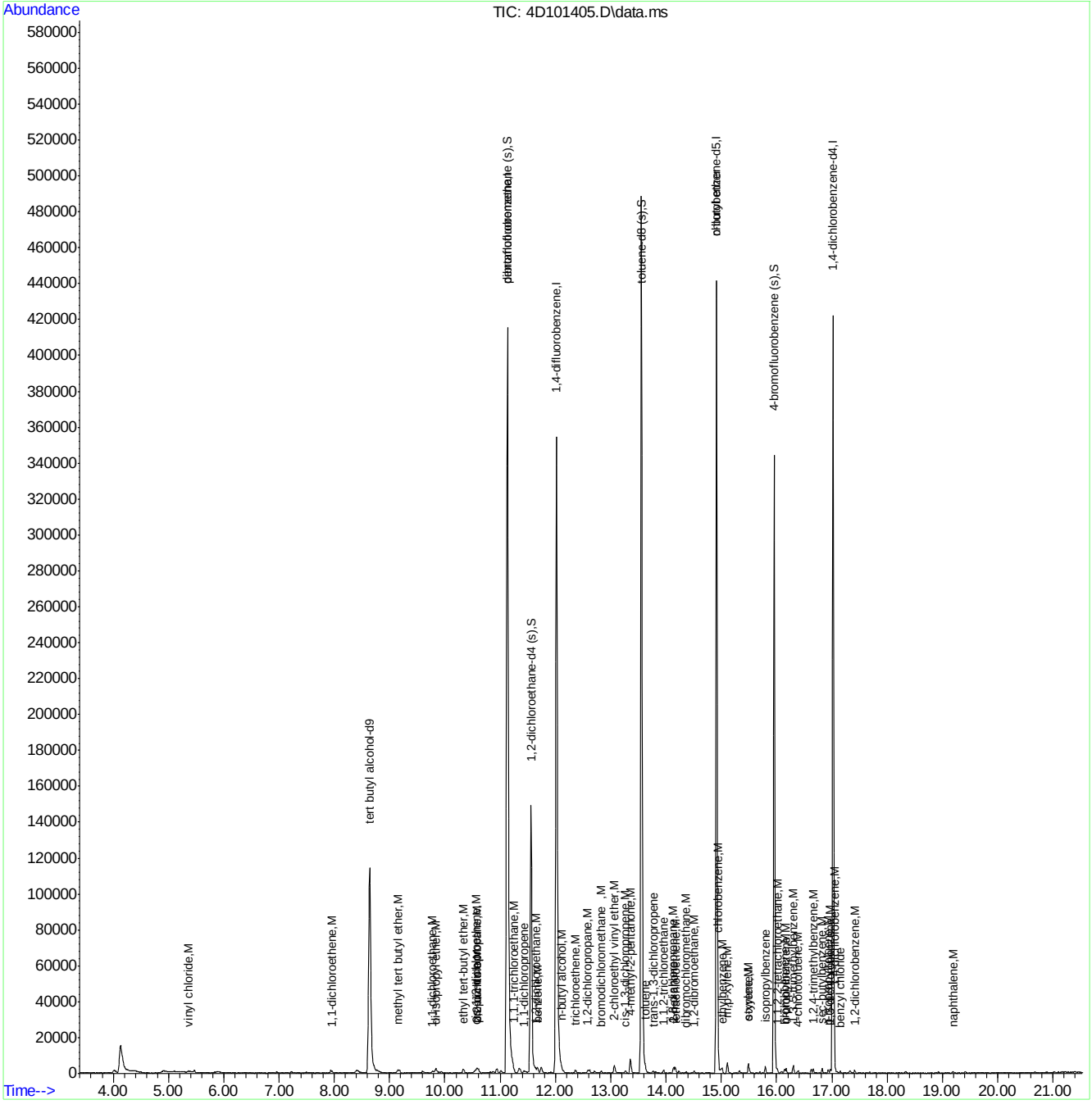
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
90) o-xylene	15.483	106	1035	0.44	ug/L	94
91) styrene	15.493	104	1683	0.42	ug/L	97
94) isopropylbenzene	15.797	105	2654	0.46	ug/L	97
98) bromobenzene	16.143	156	727	0.45	ug/L	94
99) 1,1,2,2-tetrachloroethane	16.012	83	1064	0.49	ug/L	91
102) n-propylbenzene	16.169	91	2978	0.46	ug/L	98
104) 4-chlorotoluene	16.384	91	1880	0.47	ug/L	79
105) 1,3,5-trimethylbenzene	16.306	105	2047	0.46	ug/L	95
107) 1,2,4-trimethylbenzene	16.662	105	2031	0.46	ug/L	85
108) sec-butylbenzene	16.820	105	2310	0.46	ug/L	94
109) 1,3-dichlorobenzene	16.972	146	1241	0.47	ug/L	94
110) p-isopropyltoluene	16.930	119	1885	0.44	ug/L	98
111) 1,4-dichlorobenzene	17.045	146	1276	0.47	ug/L	86
112) benzyl chloride	17.145	91	1427	0.41	ug/L	61
113) 1,2-dichlorobenzene	17.412	146	1076	0.42	ug/L	91
120) naphthalene	19.189	128	1699	0.44	ug/L	70

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4496\
Data File : 4D101405.D
Acq On : 16 Apr 2020 5:01 pm
Operator : ROBERTS
Sample : IC4496-0.5
Misc : MS42511,V4D4496,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 17 16:17:01 2020
Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 08:29:10 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4496\
Data File : 4D101406.D
Acq On : 16 Apr 2020 5:29 pm
Operator : ROBERTS
Sample : IC4496-1
Misc : MS42511,V4D4496,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 17 16:19:41 2020
Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 08:29:10 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	8.640	65	198887	500.00	ug/L		0.00
5) pentafluorobenzene	11.131	168	224992	50.00	ug/L		0.00
51) 1,4-difluorobenzene	12.022	114	323245	50.00	ug/L		0.00
73) chlorobenzene-d5	14.916	117	241161	50.00	ug/L		0.00
96) 1,4-dichlorobenzene-d4	17.019	152	102761	50.00	ug/L		0.00
System Monitoring Compounds							
43) dibromofluoromethane (s)	11.131	113	106906	49.04	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 98.08%				
52) 1,2-dichloroethane-d4 (s)	11.556	65	112647	50.14	ug/L		0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 100.28%				
74) toluene-d8 (s)	13.553	98	327377	51.00	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 102.00%				
97) 4-bromofluorobenzene (s)	15.954	95	103949	51.26	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 102.52%				
Target Compounds							Qvalue
2) tertiary butyl alcohol	8.777	59	2286	5.02	ug/L		72
3) ethanol	7.214	45	4277	88.41	ug/L		92
4) 1,4-dioxane	12.683	88	795	21.14	ug/L		95
8) chloromethane	5.107	50	1777	0.92	ug/L		84
9) vinyl chloride	5.358	62	1671	0.84	ug/L		89
11) chloroethane	6.391	64	904	0.73	ug/L	#	45
13) vinyl bromide	6.805	106	959	0.70	ug/L		90
17) 1,1-dichloroethene	7.943	96	1441	0.87	ug/L		86
18) acetone	7.969	43	3159	3.61	ug/L		91
19) acetonitrile	8.415	41	3947	9.48	ug/L		98
21) carbon disulfide	8.394	76	4374	1.07	ug/L		97
22) methylene chloride	8.714	84	1612	0.89	ug/L		95
24) methyl tert butyl ether	9.149	73	5005	0.92	ug/L		96
25) trans-1,2-dichloroethene	9.180	96	1506	0.88	ug/L		97
26) di-isopropyl ether	9.836	45	5348	0.91	ug/L		90
28) 1,1-dichloroethane	9.773	63	2852	0.89	ug/L		96
29) chloroprene	9.930	53	1983	0.77	ug/L		88
33) ethyl tert-butyl ether	10.329	59	5308	0.92	ug/L		94
35) 2,2-dichloropropane	10.596	77	2343	0.92	ug/L		96
36) cis-1,2-dichloroethene	10.565	96	1890	0.98	ug/L		85
38) propionitrile	10.580	54	4083	8.98	ug/L		93
39) bromochloromethane	10.874	128	829	0.90	ug/L		98
41) chloroform	10.937	85	2509	1.23	ug/L		99
42) t-butyl formate	11.021	59	1951	0.91	ug/L		88
45) 1,1,1-trichloroethane	11.241	97	2411	0.91	ug/L	#	73
46) cyclohexane	11.356	84	1507	0.72	ug/L	#	65
47) 1,1-dichloropropene	11.430	75	2008	0.88	ug/L		93
49) carbon tetrachloride	11.461	117	1958	0.85	ug/L		94
53) n-butyl alcohol	12.101	56	4851	41.50	ug/L		98
54) 2,2,4-trimethylpentane	11.755	57	2755	0.70	ug/L		87
55) benzene	11.681	78	6340	0.99	ug/L		96
56) tert-amyl methyl ether	11.739	87	1099	0.88	ug/L	#	79

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4496\
Data File : 4D101406.D
Acq On : 16 Apr 2020 5:29 pm
Operator : ROBERTS
Sample : IC4496-1
Misc : MS42511,V4D4496,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 17 16:19:41 2020
Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 08:29:10 2020
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
59)	1,2-dichloroethane	11.650	62	2695	1.13	ug/L		90
60)	trichloroethene	12.352	130	1533	0.91	ug/L		95
61)	ethyl acrylate	12.363	55	2469	0.81	ug/L		84
63)	2-chloroethyl vinyl ether	13.060	63	5716	4.53	ug/L		96
65)	1,2-dichloropropane	12.583	63	1562	0.94	ug/L		96
66)	dibromomethane	12.704	93	984	0.87	ug/L		88
68)	bromodichloromethane	12.830	83	2106	0.93	ug/L		89
69)	epichlorohydrin	13.149	57	1344	4.46	ug/L		80
70)	cis-1,3-dichloropropene	13.265	75	2482	0.94	ug/L		98
71)	4-methyl-2-pentanone	13.354	58	3664	3.88	ug/L		96
75)	toluene	13.627	92	3497	0.99	ug/L		99
76)	trans-1,3-dichloropropene	13.763	75	2203	0.93	ug/L		95
77)	ethyl methacrylate	13.794	69	2109	0.93	ug/L		86
78)	1,1,2-trichloroethane	13.952	83	1093	0.89	ug/L		86
79)	tetrachloroethene	14.167	164	1313	1.01	ug/L		93
80)	1,3-dichloropropane	14.125	76	2338	1.02	ug/L		88
81)	2-hexanone	14.130	58	3458	3.59	ug/L		90
83)	dibromochloromethane	14.361	129	1519	0.89	ug/L		87
84)	1,2-dibromoethane	14.507	107	1747	0.94	ug/L		95
85)	n-butyl ether	14.906	57	5643	0.96	ug/L	#	25
86)	chlorobenzene	14.943	112	3664	0.97	ug/L		98
87)	1,1,1,2-tetrachloroethane	14.990	131	1211	0.85	ug/L		89
88)	ethylbenzene	15.016	91	6013	0.97	ug/L		99
89)	m,p-xylene	15.110	106	4481	1.88	ug/L		94
90)	o-xylene	15.477	106	2143	0.94	ug/L		84
91)	styrene	15.488	104	3376	0.87	ug/L		93
92)	bromoform	15.692	173	1031	0.80	ug/L		88
93)	butyl acrylate	15.320	55	2793	0.82	ug/L	#	94
94)	isopropylbenzene	15.797	105	5051	0.90	ug/L		99
98)	bromobenzene	16.138	156	1452	0.94	ug/L		93
99)	1,1,2,2-tetrachloroethane	16.012	83	2061	0.99	ug/L		94
101)	1,2,3-trichloropropane	16.091	110	488	0.86	ug/L		85
102)	n-propylbenzene	16.169	91	5967	0.97	ug/L		98
103)	2-chlorotoluene	16.290	126	1157	0.86	ug/L		88
104)	4-chlorotoluene	16.379	91	3721	0.98	ug/L		93
105)	1,3,5-trimethylbenzene	16.300	105	4019	0.93	ug/L		99
107)	1,2,4-trimethylbenzene	16.662	105	4070	0.96	ug/L		96
108)	sec-butylbenzene	16.820	105	4492	0.92	ug/L		95
109)	1,3-dichlorobenzene	16.972	146	2427	0.95	ug/L		99
110)	p-isopropyltoluene	16.930	119	3680	0.89	ug/L		96
111)	1,4-dichlorobenzene	17.045	146	2452	0.95	ug/L		93
112)	benzyl chloride	17.145	91	2925	0.87	ug/L		96
113)	1,2-dichlorobenzene	17.412	146	2348	0.96	ug/L		93
114)	n-butylbenzene	17.318	92	1561	0.83	ug/L		95
116)	1,3,5-trichlorobenzene	18.330	180	1356	0.86	ug/L		93
118)	1,2,4-trichlorobenzene	18.922	180	1134	0.86	ug/L		98
119)	hexachlorobutadiene	19.053	225	522	0.89	ug/L		94
120)	naphthalene	19.184	128	3676	0.99	ug/L		97
121)	1,2,3-trichlorobenzene	19.410	180	1022	0.84	ug/L		92

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4496\
Data File : 4D101406.D
Acq On : 16 Apr 2020 5:29 pm
Operator : ROBERTS
Sample : IC4496-1
Misc : MS42511,V4D4496,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 17 16:19:41 2020
Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 08:29:10 2020
Response via : Initial Calibration

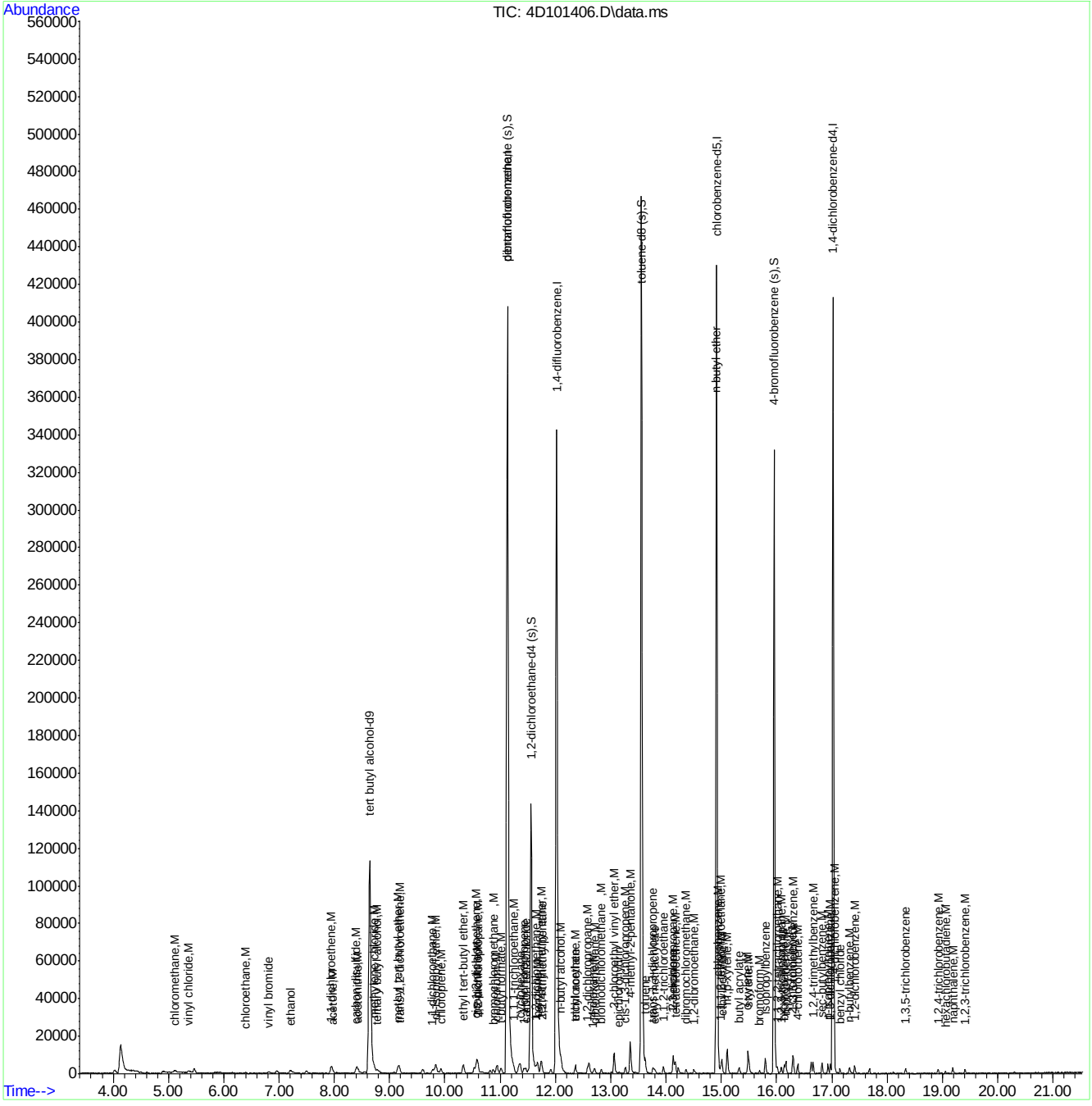
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4496\
Data File : 4D101406.D
Acq On : 16 Apr 2020 5:29 pm
Operator : ROBERTS
Sample : IC4496-1
Misc : MS42511,V4D4496,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 17 16:19:41 2020
Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 08:29:10 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4496\
Data File : 4D101407.D
Acq On : 16 Apr 2020 5:58 pm
Operator : ROBERTS
Sample : IC4496-2
Misc : MS42511,V4D4496,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 17 16:21:53 2020
Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 08:35:27 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	8.640	65	198173	500.00	ug/L		0.00
5) pentafluorobenzene	11.131	168	225971	50.00	ug/L		0.00
51) 1,4-difluorobenzene	12.017	114	323854	50.00	ug/L		0.00
73) chlorobenzene-d5	14.911	117	239925	50.00	ug/L		0.00
96) 1,4-dichlorobenzene-d4	17.019	152	103454	50.00	ug/L		0.00
System Monitoring Compounds							
43) dibromofluoromethane (s)	11.131	113	107847	49.71	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.42%				
52) 1,2-dichloroethane-d4 (s)	11.555	65	113400	50.29	ug/L		0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 100.58%				
74) toluene-d8 (s)	13.553	98	328491	50.71	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 101.42%				
97) 4-bromofluorobenzene (s)	15.954	95	104747	50.18	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.36%				
Target Compounds							Qvalue
2) tertiary butyl alcohol	8.782	59	4347	10.45	ug/L		96
3) ethanol	7.193	45	8571	208.73	ug/L		97
4) 1,4-dioxane	12.683	88	1758	50.65	ug/L		96
7) dichlorodifluoromethane	4.598	85	3662	2.14	ug/L		89
8) chloromethane	5.106	50	3796	2.17	ug/L		91
9) vinyl chloride	5.369	62	3608	1.98	ug/L		94
10) bromomethane	6.160	94	847	2.16	ug/L		85
11) chloroethane	6.386	64	2217	2.08	ug/L		90
12) trichlorofluoromethane	6.952	101	5002	2.11	ug/L		89
13) vinyl bromide	6.805	106	2387	2.03	ug/L		91
14) ethyl ether	7.492	74	1568	1.67	ug/L		94
16) freon 113	7.938	151	2055	1.83	ug/L	#	87
17) 1,1-dichloroethene	7.948	96	3062	1.95	ug/L		83
18) acetone	7.959	43	6057	7.77	ug/L		94
19) acetonitrile	8.410	41	7864	20.59	ug/L		93
21) carbon disulfide	8.394	76	8213	1.77	ug/L		97
22) methylene chloride	8.708	84	3373	1.97	ug/L		95
24) methyl tert butyl ether	9.149	73	10311	1.98	ug/L		100
25) trans-1,2-dichloroethene	9.180	96	3265	2.00	ug/L		85
26) di-isopropyl ether	9.836	45	11311	2.03	ug/L		89
27) 2-butanone	10.528	72	2528	7.94	ug/L	#	71
28) 1,1-dichloroethane	9.773	63	5995	2.01	ug/L		96
29) chloroprene	9.930	53	4365	1.86	ug/L		98
30) acrylonitrile	9.065	53	1400	1.67	ug/L		81
31) hexane	9.600	56	1631	1.62	ug/L		91
33) ethyl tert-butyl ether	10.329	59	10783	1.98	ug/L		96
35) 2,2-dichloropropane	10.591	77	4777	2.08	ug/L		92
36) cis-1,2-dichloroethene	10.559	96	3827	2.03	ug/L		88
37) methyl acrylate	10.669	55	4031	1.92	ug/L		91
38) propionitrile	10.575	54	8662	21.27	ug/L		97
39) bromochloromethane	10.874	128	1764	2.00	ug/L		94
40) tetrahydrofuran	10.947	72	678	1.83	ug/L	#	66

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4496\
Data File : 4D101407.D
Acq On : 16 Apr 2020 5:58 pm
Operator : ROBERTS
Sample : IC4496-2
Misc : MS42511,V4D4496,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 17 16:21:53 2020
Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 08:35:27 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) chloroform	10.937	85	4476	1.78	ug/L		98
42) t-butyl formate	11.015	59	3774	1.85	ug/L		97
44) methacrylonitrile	10.806	67	1743	1.82	ug/L		96
45) 1,1,1-trichloroethane	11.241	97	4897	2.00	ug/L		80
46) cyclohexane	11.356	84	3993	2.23	ug/L		94
47) 1,1-dichloropropene	11.430	75	4445	2.09	ug/L		99
49) carbon tetrachloride	11.461	117	4205	2.06	ug/L		89
50) tert amyl alcohol	11.508	55	1290	9.74	ug/L		90
53) n-butyl alcohol	12.095	56	10271	102.93	ug/L		98
54) 2,2,4-trimethylpentane	11.749	57	6672	2.06	ug/L		83
55) benzene	11.676	78	12846	2.00	ug/L		99
56) tert-amyl methyl ether	11.734	87	2267	0.96	ug/L		98
57) heptane	11.912	71	1500	1.81	ug/L		97
59) 1,2-dichloroethane	11.645	62	4986	1.91	ug/L		97
60) trichloroethene	12.358	130	3280	2.11	ug/L		96
61) ethyl acrylate	12.358	55	5613	2.04	ug/L		94
63) 2-chloroethyl vinyl ether	13.055	63	11944	10.08	ug/L		95
65) 1,2-dichloropropane	12.583	63	3159	2.04	ug/L		99
66) dibromomethane	12.704	93	2183	2.00	ug/L		97
67) methylcyclohexane	12.604	83	3608	1.89	ug/L		98
68) bromodichloromethane	12.824	83	4195	1.95	ug/L		99
69) epichlorohydrin	13.144	57	2801	10.04	ug/L		89
70) cis-1,3-dichloropropene	13.265	75	4886	1.97	ug/L		98
71) 4-methyl-2-pentanone	13.354	58	7453	8.22	ug/L		96
72) 3-methyl-1-butanol	13.343	70	3127	3.24	ug/L	#	74
75) toluene	13.621	92	6965	2.00	ug/L		96
76) trans-1,3-dichloropropene	13.757	75	4352	1.99	ug/L		95
77) ethyl methacrylate	13.789	69	4280	1.85	ug/L		97
78) 1,1,2-trichloroethane	13.951	83	2422	2.03	ug/L		94
79) tetrachloroethene	14.166	164	2595	2.02	ug/L		96
80) 1,3-dichloropropane	14.124	76	4473	2.05	ug/L		90
81) 2-hexanone	14.124	58	7347	8.48	ug/L		93
82) butyl acetate	14.208	56	2426	1.95	ug/L	#	78
83) dibromochloromethane	14.360	129	3054	1.99	ug/L		99
84) 1,2-dibromoethane	14.507	107	3583	2.04	ug/L		91
85) n-butyl ether	14.900	57	11328	2.01	ug/L		76
86) chlorobenzene	14.942	112	7364	1.98	ug/L		97
87) 1,1,1,2-tetrachloroethane	14.990	131	2464	1.87	ug/L		91
88) ethylbenzene	15.011	91	11896	1.96	ug/L		97
89) m,p-xylene	15.105	106	9129	4.03	ug/L		98
90) o-xylene	15.482	106	4385	2.05	ug/L		100
91) styrene	15.482	104	7111	1.97	ug/L		97
92) bromoform	15.687	173	2263	1.91	ug/L		94
93) butyl acrylate	15.309	55	5681	1.84	ug/L	#	96
94) isopropylbenzene	15.797	105	10465	1.96	ug/L		98
98) bromobenzene	16.138	156	3156	2.09	ug/L		95
99) 1,1,2,2-tetrachloroethane	16.012	83	4199	2.08	ug/L		100
101) 1,2,3-trichloropropane	16.091	110	1152	2.09	ug/L		87
102) n-propylbenzene	16.169	91	11811	1.92	ug/L		97
103) 2-chlorotoluene	16.290	126	2616	2.01	ug/L		90

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4496\
Data File : 4D101407.D
Acq On : 16 Apr 2020 5:58 pm
Operator : ROBERTS
Sample : IC4496-2
Misc : MS42511,V4D4496,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 17 16:21:53 2020
Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 08:35:27 2020
Response via : Initial Calibration

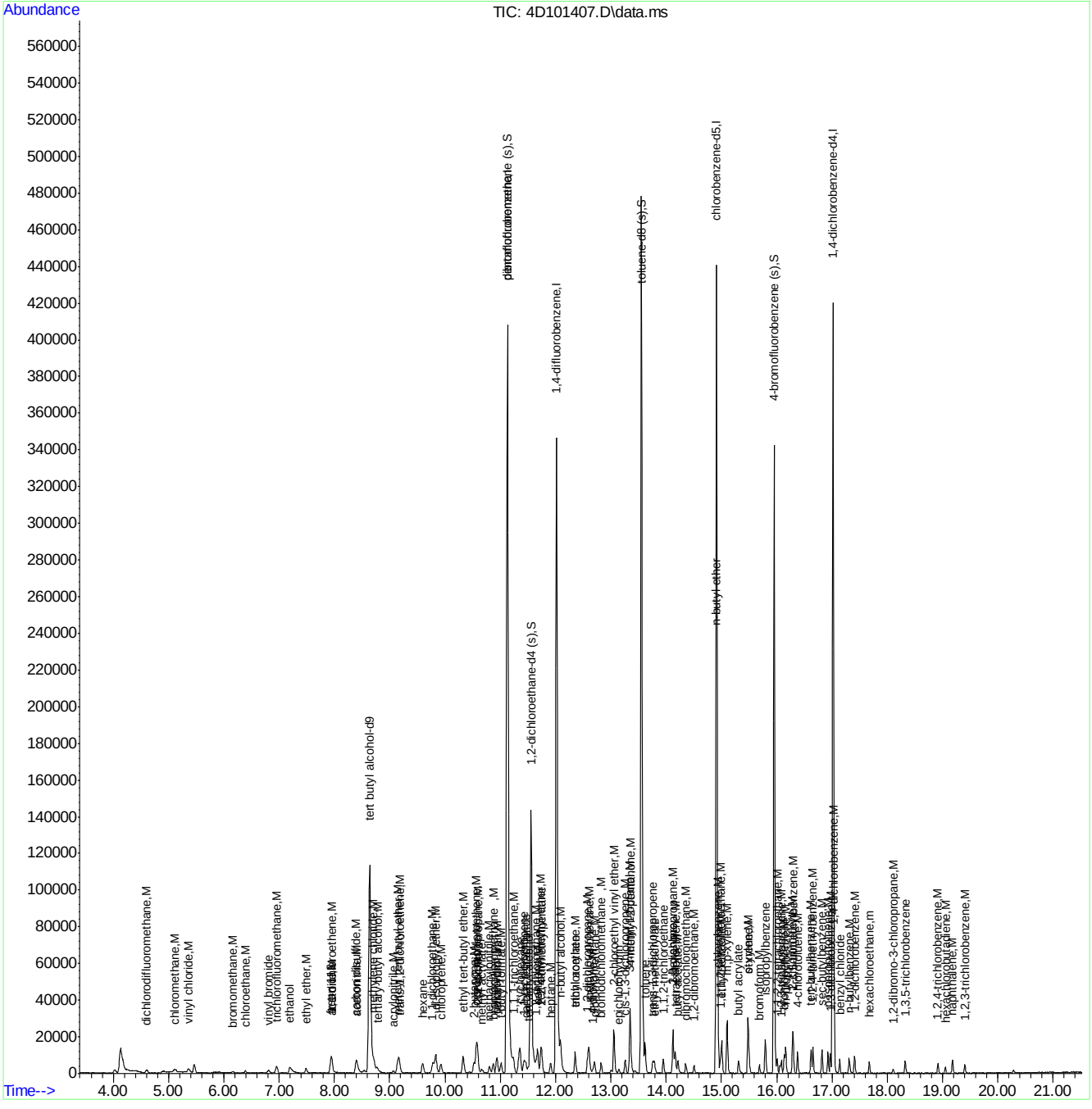
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 4-chlorotoluene	16.379	91	7596	2.01	ug/L	97
105) 1,3,5-trimethylbenzene	16.300	105	8230	1.97	ug/L	96
106) tert-butylbenzene	16.620	134	1469	2.02	ug/L	93
107) 1,2,4-trimethylbenzene	16.657	105	8176	1.93	ug/L	96
108) sec-butylbenzene	16.819	105	9193	1.92	ug/L	98
109) 1,3-dichlorobenzene	16.977	146	4941	1.94	ug/L	97
110) p-isopropyltoluene	16.930	119	7718	1.94	ug/L	98
111) 1,4-dichlorobenzene	17.040	146	5041	1.95	ug/L	97
112) benzyl chloride	17.139	91	5983	1.94	ug/L	98
113) 1,2-dichlorobenzene	17.407	146	4651	1.91	ug/L	94
114) n-butylbenzene	17.312	92	3193	1.90	ug/L	97
115) 1,2-dibromo-3-chloropr...	18.104	157	926	1.75	ug/L	90
116) 1,3,5-trichlorobenzene	18.329	180	2861	1.89	ug/L	95
118) 1,2,4-trichlorobenzene	18.917	180	2373	1.89	ug/L	97
119) hexachlorobutadiene	19.053	225	1115	1.98	ug/L	98
120) naphthalene	19.179	128	7247	1.94	ug/L	96
121) 1,2,3-trichlorobenzene	19.404	180	2138	1.87	ug/L	95
122) hexachloroethane	17.679	201	1173	1.76	ug/L	97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4496\
Data File : 4D101407.D
Acq On : 16 Apr 2020 5:58 pm
Operator : ROBERTS
Sample : IC4496-2
Misc : MS42511,V4D4496,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 17 16:21:53 2020
Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 08:35:27 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4496\
Data File : 4D101408.D
Acq On : 16 Apr 2020 6:27 pm
Operator : ROBERTS
Sample : IC4496-4
Misc : MS42511,V4D4496,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 17 16:24:47 2020
Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 08:44:05 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	8.640	65	194413	500.00	ug/L		0.00
5) pentafluorobenzene	11.131	168	221524	50.00	ug/L		0.00
51) 1,4-difluorobenzene	12.017	114	317853	50.00	ug/L		0.00
73) chlorobenzene-d5	14.911	117	234290	50.00	ug/L		0.00
96) 1,4-dichlorobenzene-d4	17.019	152	100872	50.00	ug/L		0.00
System Monitoring Compounds							
43) dibromofluoromethane (s)	11.131	113	105805	49.75	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.50%				
52) 1,2-dichloroethane-d4 (s)	11.556	65	112498	50.83	ug/L		0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 101.66%				
74) toluene-d8 (s)	13.553	98	320852	50.73	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 101.46%				
97) 4-bromofluorobenzene (s)	15.954	95	103668	50.94	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 101.88%				
Target Compounds							Qvalue
2) tertiary butyl alcohol	8.777	59	8645	19.73	ug/L		96
3) ethanol	7.183	45	18031	398.39	ug/L		96
4) 1,4-dioxane	12.678	88	3793	105.79	ug/L		93
7) dichlorodifluoromethane	4.609	85	6713	3.59	ug/L		98
8) chloromethane	5.112	50	6897	3.75	ug/L		100
9) vinyl chloride	5.364	62	7120	3.85	ug/L		95
10) bromomethane	6.155	94	1837	4.01	ug/L		93
11) chloroethane	6.396	64	4404	3.89	ug/L		95
12) trichlorofluoromethane	6.952	101	9653	3.66	ug/L		94
13) vinyl bromide	6.805	106	4784	3.82	ug/L		95
14) ethyl ether	7.482	74	3553	3.69	ug/L		94
16) freon 113	7.943	151	4255	3.66	ug/L		94
17) 1,1-dichloroethene	7.948	96	5987	3.89	ug/L		99
18) acetone	7.954	43	12760	15.61	ug/L		97
19) acetonitrile	8.399	41	15652	39.31	ug/L		95
20) iodomethane	8.226	142	471	0.51	ug/L	#	41
21) carbon disulfide	8.394	76	15999	3.90	ug/L		97
22) methylene chloride	8.714	84	6716	3.88	ug/L		97
23) methyl acetate	8.525	43	7589	3.65	ug/L		98
24) methyl tert butyl ether	9.144	73	20694	3.95	ug/L		97
25) trans-1,2-dichloroethene	9.175	96	6387	3.88	ug/L		94
26) di-isopropyl ether	9.836	45	22742	4.05	ug/L		97
27) 2-butanone	10.517	72	5334	15.30	ug/L		97
28) 1,1-dichloroethane	9.778	63	12086	3.98	ug/L		99
29) chloroprene	9.925	53	9113	3.84	ug/L		97
30) acrylonitrile	9.055	53	3213	3.61	ug/L		93
31) hexane	9.595	56	3624	3.51	ug/L		91
33) ethyl tert-butyl ether	10.329	59	21732	3.98	ug/L		97
34) ethyl acetate	10.580	70	1060	3.49	ug/L	#	29
35) 2,2-dichloropropane	10.591	77	9745	4.11	ug/L		97
36) cis-1,2-dichloroethene	10.559	96	7371	3.98	ug/L		88
37) methyl acrylate	10.659	55	8838	3.92	ug/L		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4496\
Data File : 4D101408.D
Acq On : 16 Apr 2020 6:27 pm
Operator : ROBERTS
Sample : IC4496-4
Misc : MS42511,V4D4496,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 17 16:24:47 2020
Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 08:44:05 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
38) propionitrile	10.570	54	17403	41.33	ug/L		98
39) bromochloromethane	10.874	128	3540	3.98	ug/L		96
40) tetrahydrofuran	10.953	72	1456	3.86	ug/L	#	77
41) chloroform	10.932	85	8313	3.95	ug/L		95
42) t-butyl formate	11.016	59	7565	3.75	ug/L		95
44) methacrylonitrile	10.801	67	3724	3.81	ug/L		98
45) 1,1,1-trichloroethane	11.241	97	9848	3.98	ug/L		95
46) cyclohexane	11.356	84	7696	3.96	ug/L		93
47) 1,1-dichloropropene	11.430	75	8701	3.97	ug/L		95
48) isobutyl alcohol	11.367	74	422	26.08	ug/L	#	4
49) carbon tetrachloride	11.461	117	8424	3.86	ug/L		97
50) tert amyl alcohol	11.503	55	2629	19.53	ug/L		96
53) n-butyl alcohol	12.090	56	21476	205.66	ug/L		98
54) 2,2,4-trimethylpentane	11.755	57	13912	3.90	ug/L		97
55) benzene	11.676	78	25483	4.04	ug/L		98
56) tert-amyl methyl ether	11.739	87	4783	4.00	ug/L		93
57) heptane	11.912	71	3234	3.71	ug/L		95
58) isopropyl acetate	11.598	87	1772	3.55	ug/L	#	77
59) 1,2-dichloroethane	11.645	62	9709	3.95	ug/L		96
60) trichloroethene	12.352	130	6485	4.04	ug/L		99
61) ethyl acrylate	12.352	55	11203	3.91	ug/L		97
62) 2-nitropropane	13.008	43	2574	3.85	ug/L		91
63) 2-chloroethyl vinyl ether	13.055	63	24446	20.36	ug/L		99
64) methyl methacrylate	12.599	100	1918	3.46	ug/L	#	80
65) 1,2-dichloropropane	12.578	63	6392	4.03	ug/L		99
66) dibromomethane	12.704	93	4343	3.95	ug/L		94
67) methylcyclohexane	12.609	83	7828	3.81	ug/L		98
68) bromodichloromethane	12.824	83	8302	3.86	ug/L		96
69) epichlorohydrin	13.144	57	5654	19.80	ug/L		92
70) cis-1,3-dichloropropene	13.260	75	9841	3.96	ug/L		99
71) 4-methyl-2-pentanone	13.354	58	14890	16.72	ug/L		96
72) 3-methyl-1-butanol	13.338	70	6798	76.09	ug/L		83
75) toluene	13.621	92	13772	4.05	ug/L		96
76) trans-1,3-dichloropropene	13.758	75	8669	3.96	ug/L		98
77) ethyl methacrylate	13.784	69	8568	3.97	ug/L		97
78) 1,1,2-trichloroethane	13.952	83	4742	4.08	ug/L		96
79) tetrachloroethene	14.167	164	5456	4.34	ug/L		98
80) 1,3-dichloropropane	14.119	76	9232	4.33	ug/L		94
81) 2-hexanone	14.125	58	15446	17.30	ug/L		98
82) butyl acetate	14.203	56	5273	4.05	ug/L		91
83) dibromochloromethane	14.355	129	6237	3.94	ug/L		99
84) 1,2-dibromoethane	14.502	107	7193	4.08	ug/L		99
85) n-butyl ether	14.895	57	22053	3.93	ug/L		97
86) chlorobenzene	14.943	112	14389	3.97	ug/L		97
87) 1,1,1,2-tetrachloroethane	14.985	131	5100	3.87	ug/L		94
88) ethylbenzene	15.011	91	23824	4.01	ug/L		98
89) m,p-xylene	15.105	106	18075	8.17	ug/L		97
90) o-xylene	15.477	106	8662	4.01	ug/L		97
91) styrene	15.477	104	14535	4.03	ug/L		97
92) bromoform	15.687	173	4548	3.81	ug/L		95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4496\
Data File : 4D101408.D
Acq On : 16 Apr 2020 6:27 pm
Operator : ROBERTS
Sample : IC4496-4
Misc : MS42511,V4D4496,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 17 16:24:47 2020
Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 08:44:05 2020
Response via : Initial Calibration

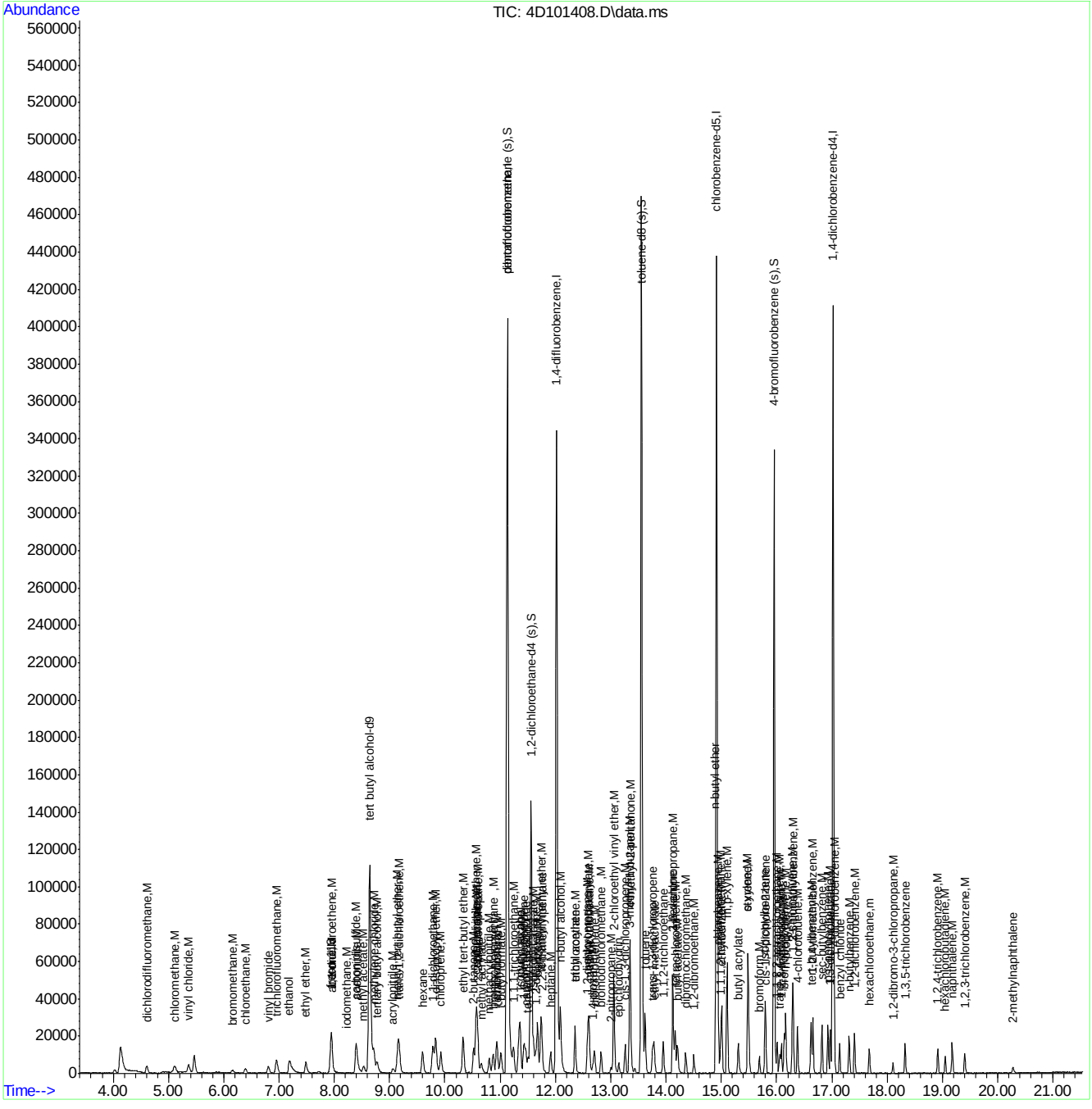
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
93) butyl acrylate	15.304	55	12218	3.94	ug/L	#	97
94) isopropylbenzene	15.792	105	20855	3.99	ug/L		99
95) cis-1,4-dichloro-2-butene	15.808	88	2745	3.58	ug/L		93
98) bromobenzene	16.138	156	5965	3.95	ug/L		99
99) 1,1,2,2-tetrachloroethane	16.007	83	8061	3.92	ug/L		99
100) trans-1,4-dichloro-2-b...	16.054	53	1983	3.63	ug/L		97
101) 1,2,3-trichloropropane	16.086	110	2326	4.12	ug/L		94
102) n-propylbenzene	16.164	91	24288	4.06	ug/L		99
103) 2-chlorotoluene	16.290	126	5119	3.93	ug/L		95
104) 4-chlorotoluene	16.379	91	14913	4.04	ug/L		98
105) 1,3,5-trimethylbenzene	16.301	105	16006	3.92	ug/L		99
106) tert-butylbenzene	16.626	134	2887	3.83	ug/L	#	82
107) 1,2,4-trimethylbenzene	16.657	105	16286	3.95	ug/L		99
108) sec-butylbenzene	16.820	105	18066	3.87	ug/L		99
109) 1,3-dichlorobenzene	16.972	146	9824	3.96	ug/L		98
110) p-isopropyltoluene	16.930	119	15390	3.97	ug/L		98
111) 1,4-dichlorobenzene	17.045	146	9935	3.94	ug/L		97
112) benzyl chloride	17.139	91	11999	3.85	ug/L		99
113) 1,2-dichlorobenzene	17.407	146	9345	3.94	ug/L		98
114) n-butylbenzene	17.307	92	6687	3.79	ug/L		98
115) 1,2-dibromo-3-chloropr...	18.109	157	1930	3.56	ug/L		95
116) 1,3,5-trichlorobenzene	18.324	180	5869	3.85	ug/L		99
118) 1,2,4-trichlorobenzene	18.917	180	4687	3.70	ug/L		92
119) hexachlorobutadiene	19.048	225	2261	3.93	ug/L		99
120) naphthalene	19.174	128	14301	3.93	ug/L		97
121) 1,2,3-trichlorobenzene	19.404	180	4383	3.79	ug/L		93
122) hexachloroethane	17.679	201	2424	3.58	ug/L		92
123) 2-methylnaphthalene	20.275	142	2416	1.67	ug/L		95

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4496\
Data File : 4D101408.D
Acq On : 16 Apr 2020 6:27 pm
Operator : ROBERTS
Sample : IC4496-4
Misc : MS42511,V4D4496,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 17 16:24:47 2020
Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 08:44:05 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4496\
Data File : 4D101409.D
Acq On : 16 Apr 2020 6:55 pm
Operator : ROBERTS
Sample : IC4496-8
Misc : MS42511,V4D4496,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 17 08:29:52 2020
Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 08:29:10 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	8.640	65	185193	500.00	ug/L		0.00
5) pentafluorobenzene	11.131	168	218344	50.00	ug/L		0.00
51) 1,4-difluorobenzene	12.017	114	312617	50.00	ug/L		0.00
73) chlorobenzene-d5	14.916	117	231464	50.00	ug/L		0.00
96) 1,4-dichlorobenzene-d4	17.019	152	98424	50.00	ug/L		0.00
System Monitoring Compounds							
43) dibromofluoromethane (s)	11.131	113	104910	49.59	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.18%				
52) 1,2-dichloroethane-d4 (s)	11.555	65	111214	51.19	ug/L		0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 102.38%				
74) toluene-d8 (s)	13.553	98	316815	51.42	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 102.84%				
97) 4-bromofluorobenzene (s)	15.954	95	100948	51.97	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 103.94%				
Target Compounds							Qvalue
2) tertiary butyl alcohol	8.771	59	16664	39.34	ug/L		97
3) ethanol	7.177	45	35345	784.67	ug/L		100
4) 1,4-dioxane	12.677	88	7191	205.36	ug/L		95
7) dichlorodifluoromethane	4.603	85	13242	6.80	ug/L		97
8) chloromethane	5.112	50	13628	7.30	ug/L		95
9) vinyl chloride	5.363	62	14257	7.41	ug/L		97
10) bromomethane	6.160	94	3990	6.11	ug/L		98
11) chloroethane	6.391	64	8918	7.45	ug/L		99
12) trichlorofluoromethane	6.952	101	19346	7.08	ug/L		96
13) vinyl bromide	6.805	106	9742	7.36	ug/L		97
14) ethyl ether	7.487	74	7395	7.32	ug/L		94
15) acrolein	7.707	56	2676	6.35	ug/L		92
16) freon 113	7.932	151	8512	6.94	ug/L		94
17) 1,1-dichloroethene	7.943	96	12290	7.68	ug/L		95
18) acetone	7.948	43	25387	29.89	ug/L		99
19) acetonitrile	8.394	41	31049	76.86	ug/L		96
20) iodomethane	8.231	142	2278	1.84	ug/L		83
21) carbon disulfide	8.394	76	31515	7.95	ug/L		98
22) methylene chloride	8.714	84	13481	7.66	ug/L		95
23) methyl acetate	8.520	43	15381	7.06	ug/L		99
24) methyl tert butyl ether	9.149	73	41326	7.79	ug/L		98
25) trans-1,2-dichloroethene	9.175	96	12955	7.78	ug/L		95
26) di-isopropyl ether	9.830	45	45154	7.90	ug/L		96
27) 2-butanone	10.512	72	10855	30.42	ug/L		98
28) 1,1-dichloroethane	9.773	63	24192	7.77	ug/L		99
29) chloroprene	9.925	53	19217	7.70	ug/L		96
30) acrylonitrile	9.049	53	6683	7.06	ug/L		94
31) hexane	9.594	56	7777	6.90	ug/L		96
32) vinyl acetate	9.783	86	2912	6.62	ug/L	#	86
33) ethyl tert-butyl ether	10.329	59	43109	7.73	ug/L		99
34) ethyl acetate	10.575	70	2210	7.11	ug/L	#	42
35) 2,2-dichloropropane	10.591	77	18831	7.64	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4496\
Data File : 4D101409.D
Acq On : 16 Apr 2020 6:55 pm
Operator : ROBERTS
Sample : IC4496-8
Misc : MS42511,V4D4496,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 17 08:29:52 2020
Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 08:29:10 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) cis-1,2-dichloroethene	10.559	96	14968	8.02	ug/L		94
37) methyl acrylate	10.654	55	17813	7.75	ug/L		98
38) propionitrile	10.564	54	34159	77.45	ug/L		99
39) bromochloromethane	10.869	128	7105	7.98	ug/L		98
40) tetrahydrofuran	10.942	72	2857	7.29	ug/L		96
41) chloroform	10.937	85	15901	8.06	ug/L		96
42) t-butyl formate	11.015	59	15479	7.45	ug/L		95
44) methacrylonitrile	10.800	67	7481	7.43	ug/L		99
45) 1,1,1-trichloroethane	11.241	97	19467	7.58	ug/L		97
46) cyclohexane	11.356	84	15265	7.51	ug/L		94
47) 1,1-dichloropropene	11.430	75	17631	7.93	ug/L		97
48) isobutyl alcohol	11.356	74	1179	65.05	ug/L	#	84
49) carbon tetrachloride	11.461	117	16977	7.58	ug/L		96
50) tert amyl alcohol	11.508	55	5209	37.55	ug/L		98
53) n-butyl alcohol	12.090	56	41971	371.30	ug/L		99
54) 2,2,4-trimethylpentane	11.749	57	27960	7.33	ug/L		89
55) benzene	11.676	78	50096	8.12	ug/L		98
56) tert-amyl methyl ether	11.734	87	9532	7.91	ug/L		99
57) heptane	11.912	71	6685	7.42	ug/L		98
58) isopropyl acetate	11.597	87	3753	7.49	ug/L	#	80
59) 1,2-dichloroethane	11.645	62	18858	8.17	ug/L		99
60) trichloroethene	12.352	130	12932	7.93	ug/L		98
61) ethyl acrylate	12.347	55	22582	7.68	ug/L		97
62) 2-nitropropane	13.002	43	4809	7.15	ug/L		93
63) 2-chloroethyl vinyl ether	13.055	63	48132	39.43	ug/L		98
64) methyl methacrylate	12.594	100	4251	7.61	ug/L		92
65) 1,2-dichloropropane	12.578	63	12802	7.95	ug/L		99
66) dibromomethane	12.704	93	8761	7.97	ug/L		96
67) methylcyclohexane	12.609	83	15747	7.45	ug/L		99
68) bromodichloromethane	12.824	83	16692	7.60	ug/L		97
69) epichlorohydrin	13.144	57	11261	38.61	ug/L		96
70) cis-1,3-dichloropropene	13.259	75	19316	7.55	ug/L		96
71) 4-methyl-2-pentanone	13.349	58	28792	31.53	ug/L		98
72) 3-methyl-1-butanol	13.338	70	13533	141.95	ug/L		98
75) toluene	13.621	92	27235	8.05	ug/L		98
76) trans-1,3-dichloropropene	13.757	75	17687	7.78	ug/L		98
77) ethyl methacrylate	13.778	69	16946	7.82	ug/L		97
78) 1,1,2-trichloroethane	13.946	83	9636	8.16	ug/L		96
79) tetrachloroethene	14.166	164	10225	8.19	ug/L		98
80) 1,3-dichloropropane	14.119	76	17902	8.14	ug/L		98
81) 2-hexanone	14.119	58	29781	32.20	ug/L		93
82) butyl acetate	14.203	56	10232	7.80	ug/L		96
83) dibromochloromethane	14.355	129	12558	7.70	ug/L		99
84) 1,2-dibromoethane	14.502	107	14062	7.85	ug/L		95
85) n-butyl ether	14.895	57	44192	7.81	ug/L		98
86) chlorobenzene	14.942	112	28887	7.96	ug/L		95
87) 1,1,1,2-tetrachloroethane	14.990	131	10125	7.40	ug/L		97
88) ethylbenzene	15.005	91	46910	7.88	ug/L		96
89) m,p-xylene	15.105	106	35942	15.72	ug/L		95
90) o-xylene	15.477	106	17135	7.82	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4496\
Data File : 4D101409.D
Acq On : 16 Apr 2020 6:55 pm
Operator : ROBERTS
Sample : IC4496-8
Misc : MS42511,V4D4496,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 17 08:29:52 2020
Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 08:29:10 2020
Response via : Initial Calibration

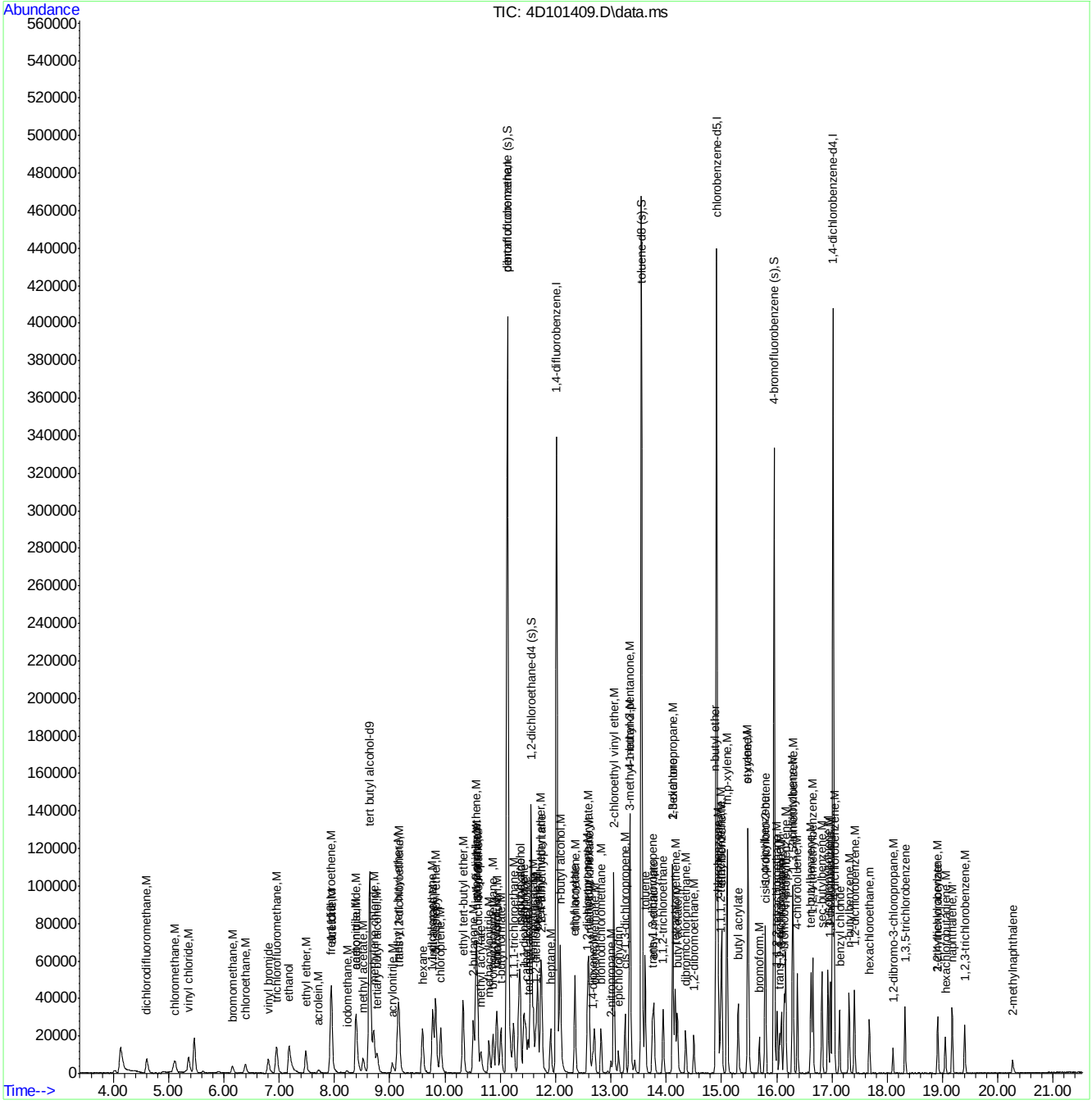
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
91) styrene	15.477	104	28663	7.69	ug/L		94
92) bromoform	15.687	173	9243	7.46	ug/L		96
93) butyl acrylate	15.304	55	24572	7.54	ug/L		99
94) isopropylbenzene	15.792	105	41113	7.63	ug/L		100
95) cis-1,4-dichloro-2-butene	15.802	88	5642	7.22	ug/L		95
98) bromobenzene	16.138	156	12073	8.14	ug/L		96
99) 1,1,2,2-tetrachloroethane	16.007	83	15969	8.03	ug/L		100
100) trans-1,4-dichloro-2-b...	16.054	53	4009	7.39	ug/L		93
101) 1,2,3-trichloropropane	16.085	110	4600	8.42	ug/L		97
102) n-propylbenzene	16.164	91	47145	7.99	ug/L		98
103) 2-chlorotoluene	16.290	126	10220	7.89	ug/L		97
104) 4-chlorotoluene	16.374	91	29733	8.13	ug/L		99
105) 1,3,5-trimethylbenzene	16.300	105	32635	7.92	ug/L		99
106) tert-butylbenzene	16.620	134	5713	7.79	ug/L		93
107) 1,2,4-trimethylbenzene	16.657	105	32514	8.04	ug/L		99
108) sec-butylbenzene	16.819	105	36106	7.76	ug/L		98
109) 1,3-dichlorobenzene	16.971	146	19788	8.09	ug/L		99
110) p-isopropyltoluene	16.924	119	30469	7.71	ug/L		99
111) 1,4-dichlorobenzene	17.045	146	19742	7.96	ug/L		98
112) benzyl chloride	17.139	91	24556	7.59	ug/L		99
113) 1,2-dichlorobenzene	17.407	146	18846	8.07	ug/L		96
114) n-butylbenzene	17.307	92	13840	7.71	ug/L		98
115) 1,2-dibromo-3-chloropr...	18.104	157	3967	7.09	ug/L		86
116) 1,3,5-trichlorobenzene	18.324	180	11748	7.74	ug/L		98
117) 2-ethylhexyl acrylate	18.911	70	718	0.98	ug/L	#	94
118) 1,2,4-trichlorobenzene	18.917	180	9461	7.45	ug/L		99
119) hexachlorobutadiene	19.053	225	4607	8.17	ug/L		99
120) naphthalene	19.174	128	28292	7.98	ug/L		99
121) 1,2,3-trichlorobenzene	19.404	180	8646	7.44	ug/L		97
122) hexachloroethane	17.674	201	4802	6.92	ug/L		97
123) 2-methylnaphthalene	20.269	142	5040	3.26	ug/L		95

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4496\
Data File : 4D101409.D
Acq On : 16 Apr 2020 6:55 pm
Operator : ROBERTS
Sample : IC4496-8
Misc : MS42511,V4D4496,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 17 08:29:52 2020
Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 08:29:10 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4496\
Data File : 4D101410.D
Acq On : 16 Apr 2020 7:23 pm
Operator : ROBERTS
Sample : IC4496-20
Misc : MS42511,V4D4496,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 17 08:29:54 2020
Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 08:29:10 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	8.640	65	190978	500.00	ug/L		0.00
5) pentafluorobenzene	11.126	168	216215	50.00	ug/L		0.00
51) 1,4-difluorobenzene	12.017	114	310240	50.00	ug/L		0.00
73) chlorobenzene-d5	14.911	117	231925	50.00	ug/L		0.00
96) 1,4-dichlorobenzene-d4	17.019	152	100139	50.00	ug/L		0.00
System Monitoring Compounds							
43) dibromofluoromethane (s)	11.131	113	104454	49.86	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.72%				
52) 1,2-dichloroethane-d4 (s)	11.556	65	110857	51.42	ug/L		0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 102.84%				
74) toluene-d8 (s)	13.553	98	314445	50.94	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 101.88%				
97) 4-bromofluorobenzene (s)	15.954	95	100151	50.68	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 101.36%				
Target Compounds							Qvalue
2) tertiary butyl alcohol	8.772	59	42744	97.84	ug/L		99
3) ethanol	7.178	45	89482	1926.35	ug/L		99
4) 1,4-dioxane	12.672	88	18024	499.13	ug/L		99
7) dichlorodifluoromethane	4.603	85	36447	18.91	ug/L		97
8) chloromethane	5.107	50	34576	18.70	ug/L		98
9) vinyl chloride	5.364	62	36006	18.89	ug/L		96
10) bromomethane	6.155	94	10951	16.94	ug/L		94
11) chloroethane	6.391	64	23207	19.58	ug/L		98
12) trichlorofluoromethane	6.952	101	51456	19.01	ug/L		97
13) vinyl bromide	6.805	106	25110	19.15	ug/L		97
14) ethyl ether	7.477	74	18898	18.89	ug/L		98
15) acrolein	7.697	56	7748	18.57	ug/L		98
16) freon 113	7.938	151	22866	18.83	ug/L		97
17) 1,1-dichloroethene	7.943	96	31799	20.06	ug/L		94
18) acetone	7.943	43	65183	77.51	ug/L		100
19) acetonitrile	8.389	41	77369	193.41	ug/L		99
20) iodomethane	8.226	142	15559	12.70	ug/L		99
21) carbon disulfide	8.389	76	77670	19.79	ug/L		100
22) methylene chloride	8.714	84	33696	19.32	ug/L		98
23) methyl acetate	8.515	43	42528	19.71	ug/L		98
24) methyl tert butyl ether	9.144	73	104373	19.86	ug/L		100
25) trans-1,2-dichloroethene	9.175	96	32474	19.69	ug/L		98
26) di-isopropyl ether	9.831	45	113102	19.97	ug/L		98
27) 2-butanone	10.507	72	27307	77.27	ug/L		98
28) 1,1-dichloroethane	9.773	63	60792	19.73	ug/L		99
29) chloroprene	9.920	53	48933	19.80	ug/L		98
30) acrylonitrile	9.039	53	17901	19.09	ug/L		100
31) hexane	9.595	56	21145	18.95	ug/L		97
32) vinyl acetate	9.778	86	8324	19.11	ug/L		95
33) ethyl tert-butyl ether	10.329	59	109726	19.87	ug/L		100
34) ethyl acetate	10.570	70	5850	19.02	ug/L	#	72
35) 2,2-dichloropropane	10.586	77	48267	19.78	ug/L		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4496\
Data File : 4D101410.D
Acq On : 16 Apr 2020 7:23 pm
Operator : ROBERTS
Sample : IC4496-20
Misc : MS42511,V4D4496,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 17 08:29:54 2020
Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 08:29:10 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) cis-1,2-dichloroethene	10.559	96	37100	20.07	ug/L		98
37) methyl acrylate	10.643	55	44946	19.75	ug/L		98
38) propionitrile	10.565	54	84849	194.28	ug/L		99
39) bromochloromethane	10.869	128	17986	20.39	ug/L		98
40) tetrahydrofuran	10.942	72	7506	19.34	ug/L		90
41) chloroform	10.937	85	39545	20.23	ug/L		100
42) t-butyl formate	11.010	59	40129	19.52	ug/L		97
44) methacrylonitrile	10.795	67	19362	19.41	ug/L		98
45) 1,1,1-trichloroethane	11.241	97	49973	19.65	ug/L		96
46) cyclohexane	11.356	84	39691	19.73	ug/L		98
47) 1,1-dichloropropene	11.425	75	43988	19.99	ug/L		99
48) isobutyl alcohol	11.356	74	3242	180.63	ug/L	#	88
49) carbon tetrachloride	11.461	117	43528	19.62	ug/L		97
50) tert amyl alcohol	11.503	55	13362	97.27	ug/L		93
53) n-butyl alcohol	12.085	56	107535	958.60	ug/L		100
54) 2,2,4-trimethylpentane	11.750	57	73253	19.35	ug/L		97
55) benzene	11.676	78	122988	20.09	ug/L		99
56) tert-amyl methyl ether	11.734	87	23704	19.81	ug/L		96
57) heptane	11.907	71	17457	19.54	ug/L		97
58) isopropyl acetate	11.598	87	9789	19.68	ug/L	#	85
59) 1,2-dichloroethane	11.645	62	46670	20.37	ug/L		98
60) trichloroethene	12.353	130	31598	19.51	ug/L		98
61) ethyl acrylate	12.342	55	56935	19.51	ug/L		100
62) 2-nitropropane	13.008	43	12593	18.86	ug/L		97
63) 2-chloroethyl vinyl ether	13.055	63	119865	98.95	ug/L		99
64) methyl methacrylate	12.594	100	10741	19.36	ug/L	#	92
65) 1,2-dichloropropane	12.578	63	32137	20.11	ug/L		97
66) dibromomethane	12.704	93	21730	19.91	ug/L		98
67) methylcyclohexane	12.604	83	40638	19.38	ug/L		99
68) bromodichloromethane	12.824	83	43146	19.80	ug/L		100
69) epichlorohydrin	13.139	57	27979	96.67	ug/L		96
70) cis-1,3-dichloropropene	13.260	75	49038	19.31	ug/L		99
71) 4-methyl-2-pentanone	13.349	58	71925	79.37	ug/L		99
72) 3-methyl-1-butanol	13.333	70	35478	374.98	ug/L		97
75) toluene	13.621	92	68110	20.08	ug/L		100
76) trans-1,3-dichloropropene	13.752	75	44498	19.54	ug/L		98
77) ethyl methacrylate	13.779	69	43582	20.07	ug/L		98
78) 1,1,2-trichloroethane	13.946	83	23792	20.11	ug/L		98
79) tetrachloroethene	14.167	164	25334	20.26	ug/L		97
80) 1,3-dichloropropane	14.119	76	44435	20.16	ug/L		99
81) 2-hexanone	14.119	58	72758	78.52	ug/L		94
82) butyl acetate	14.198	56	25944	19.74	ug/L		98
83) dibromochloromethane	14.355	129	32065	19.61	ug/L		99
84) 1,2-dibromoethane	14.502	107	35969	20.04	ug/L		99
85) n-butyl ether	14.895	57	112949	19.92	ug/L		99
86) chlorobenzene	14.943	112	72074	19.83	ug/L		97
87) 1,1,1,2-tetrachloroethane	14.990	131	25979	18.94	ug/L		98
88) ethylbenzene	15.006	91	119130	19.96	ug/L		99
89) m,p-xylene	15.100	106	89569	39.11	ug/L		99
90) o-xylene	15.477	106	43577	19.84	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4496\
Data File : 4D101410.D
Acq On : 16 Apr 2020 7:23 pm
Operator : ROBERTS
Sample : IC4496-20
Misc : MS42511,V4D4496,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 17 08:29:54 2020
Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 08:29:10 2020
Response via : Initial Calibration

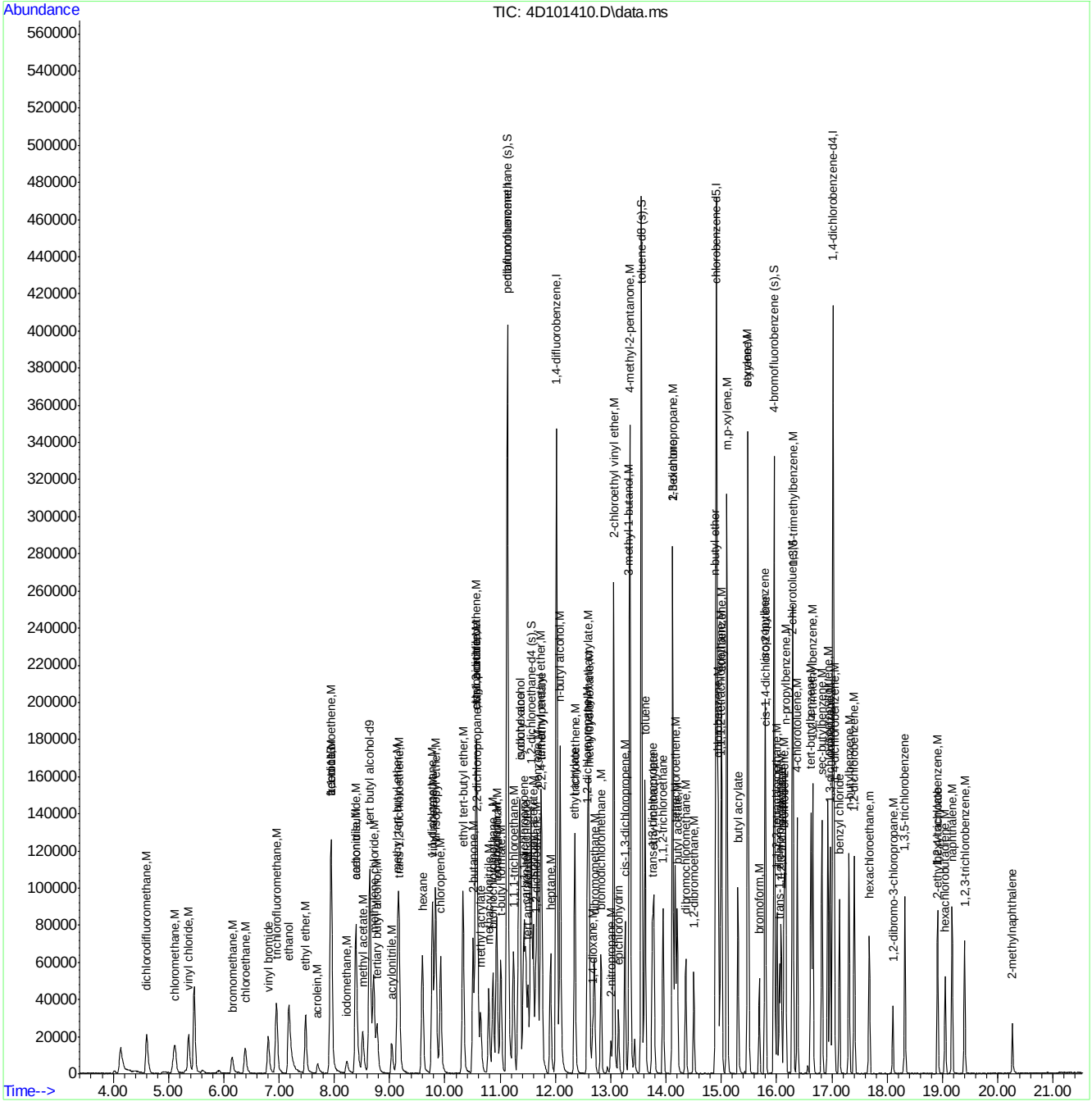
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91)	styrene	15.477	104	73272	19.61	ug/L	97
92)	bromoform	15.687	173	23611	19.01	ug/L	100
93)	butyl acrylate	15.299	55	63173	19.34	ug/L	98
94)	isopropylbenzene	15.792	105	104535	19.35	ug/L	99
95)	cis-1,4-dichloro-2-butene	15.802	88	14599	18.65	ug/L	97
98)	bromobenzene	16.138	156	30580	20.27	ug/L	98
99)	1,1,2,2-tetrachloroethane	16.007	83	40644	20.10	ug/L	100
100)	trans-1,4-dichloro-2-b...	16.054	53	10709	19.40	ug/L	99
101)	1,2,3-trichloropropane	16.086	110	11294	20.32	ug/L	96
102)	n-propylbenzene	16.164	91	119768	19.95	ug/L	99
103)	2-chlorotoluene	16.285	126	26596	20.18	ug/L	98
104)	4-chlorotoluene	16.374	91	74762	20.10	ug/L	99
105)	1,3,5-trimethylbenzene	16.295	105	82520	19.69	ug/L	99
106)	tert-butylbenzene	16.620	134	14416	19.33	ug/L	100
107)	1,2,4-trimethylbenzene	16.657	105	82639	20.09	ug/L	99
108)	sec-butylbenzene	16.820	105	92100	19.44	ug/L	99
109)	1,3-dichlorobenzene	16.972	146	49224	19.78	ug/L	100
110)	p-isopropyltoluene	16.924	119	78376	19.49	ug/L	99
111)	1,4-dichlorobenzene	17.045	146	50057	19.85	ug/L	98
112)	benzyl chloride	17.134	91	63260	19.21	ug/L	98
113)	1,2-dichlorobenzene	17.402	146	47004	19.78	ug/L	100
114)	n-butylbenzene	17.307	92	35020	19.17	ug/L	99
115)	1,2-dibromo-3-chloropr...	18.104	157	10758	18.90	ug/L	96
116)	1,3,5-trichlorobenzene	18.319	180	30043	19.45	ug/L	99
117)	2-ethylhexyl acrylate	18.906	70	2514	3.37	ug/L	94
118)	1,2,4-trichlorobenzene	18.912	180	24330	18.83	ug/L	97
119)	hexachlorobutadiene	19.048	225	11246	19.61	ug/L	99
120)	naphthalene	19.174	128	69280	19.20	ug/L	98
121)	1,2,3-trichlorobenzene	19.404	180	22447	18.98	ug/L	99
122)	hexachloroethane	17.679	201	12912	18.28	ug/L	98
123)	2-methylnaphthalene	20.264	142	14102	8.97	ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4496\
Data File : 4D101410.D
Acq On : 16 Apr 2020 7:23 pm
Operator : ROBERTS
Sample : IC4496-20
Misc : MS42511,V4D4496,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 17 08:29:54 2020
Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 08:29:10 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4496\
Data File : 4D101411.D
Acq On : 16 Apr 2020 7:52 pm
Operator : ROBERTS
Sample : ICC4496-50
Misc : MS42511,V4D4496,5,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 17 08:35:44 2020
Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 08:35:27 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	8.646	65	186464	500.00	ug/L	0.00
5) pentafluorobenzene	11.126	168	209051	50.00	ug/L	0.00
51) 1,4-difluorobenzene	12.017	114	300681	50.00	ug/L	0.00
73) chlorobenzene-d5	14.911	117	228667	50.00	ug/L	0.00
96) 1,4-dichlorobenzene-d4	17.019	152	102164	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	11.131	113	101276	50.46	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.92%			
52) 1,2-dichloroethane-d4 (s)	11.555	65	104484	49.90	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 99.80%			
74) toluene-d8 (s)	13.553	98	304314	49.29	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 98.58%			
97) 4-bromofluorobenzene (s)	15.954	95	100807	48.90	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 97.80%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	8.777	59	106636	272.47	ug/L	100
3) ethanol	7.183	45	226768	5869.21	ug/L	100
4) 1,4-dioxane	12.672	88	44072	1349.52	ug/L	100
7) dichlorodifluoromethane	4.603	85	93194	58.95	ug/L	100
8) chloromethane	5.117	50	89383	55.35	ug/L	100
9) vinyl chloride	5.363	62	92140	54.61	ug/L	100
10) bromomethane	6.139	94	31256	50.11	ug/L	100
11) chloroethane	6.381	64	57297	58.14	ug/L	100
12) trichlorofluoromethane	6.952	101	130883	59.61	ug/L	100
13) vinyl bromide	6.800	106	63403	58.30	ug/L	100
14) ethyl ether	7.482	74	48366	55.60	ug/L	100
15) acrolein	7.691	56	20169	55.74	ug/L	100
16) freon 113	7.933	151	58710	56.56	ug/L	100
17) 1,1-dichloroethene	7.938	96	76623	52.73	ug/L	100
18) acetone	7.938	43	162629	225.53	ug/L	100
19) acetonitrile	8.383	41	193076	546.46	ug/L	100
20) iodomethane	8.226	142	59235	67.48	ug/L	100
21) carbon disulfide	8.389	76	189771	44.29	ug/L	100
22) methylene chloride	8.708	84	84294	53.30	ug/L	100
23) methyl acetate	8.509	43	104326	52.54	ug/L	100
24) methyl tert butyl ether	9.144	73	254107	52.70	ug/L	100
25) trans-1,2-dichloroethene	9.170	96	79739	52.71	ug/L	100
26) di-isopropyl ether	9.831	45	273794	53.00	ug/L	100
27) 2-butanone	10.507	72	68336	232.00	ug/L	100
28) 1,1-dichloroethane	9.773	63	148990	54.04	ug/L	100
29) chloroprene	9.920	53	119478	54.93	ug/L	100
30) acrylonitrile	9.034	53	45342	58.32	ug/L	100
31) hexane	9.589	56	53938	57.79	ug/L	100
32) vinyl acetate	9.773	86	21061	56.45	ug/L	100
33) ethyl tert-butyl ether	10.329	59	266948	53.01	ug/L	100
34) ethyl acetate	10.565	70	14872	54.91	ug/L	100
35) 2,2-dichloropropane	10.591	77	117991	55.45	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4496\
Data File : 4D101411.D
Acq On : 16 Apr 2020 7:52 pm
Operator : ROBERTS
Sample : ICC4496-50
Misc : MS42511,V4D4496,5,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 17 08:35:44 2020
Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 08:35:27 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) cis-1,2-dichloroethene	10.559	96	89362	51.15	ug/L	100
37) methyl acrylate	10.643	55	110032	56.60	ug/L	100
38) propionitrile	10.565	54	211132	560.37	ug/L	100
39) bromochloromethane	10.869	128	42649	52.29	ug/L	100
40) tetrahydrofuran	10.942	72	18760	54.60	ug/L	100
41) chloroform	10.932	85	94483	40.56	ug/L	100
42) t-butyl formate	11.010	59	99401	52.68	ug/L	100
44) methacrylonitrile	10.790	67	48226	54.34	ug/L	100
45) 1,1,1-trichloroethane	11.241	97	122965	54.17	ug/L	100
46) cyclohexane	11.356	84	96721	58.43	ug/L	100
47) 1,1-dichloropropene	11.424	75	106387	54.00	ug/L	100
48) isobutyl alcohol	11.356	74	8677	17.36	ug/L	100
49) carbon tetrachloride	11.461	117	107279	56.92	ug/L	100
50) tert amyl alcohol	11.503	55	33203	271.08	ug/L	100
53) n-butyl alcohol	12.085	56	271807	2933.88	ug/L	100
54) 2,2,4-trimethylpentane	11.749	57	183443	61.02	ug/L	100
55) benzene	11.676	78	296601	49.70	ug/L	100
56) tert-amyl methyl ether	11.734	87	57985	26.51	ug/L	100
57) heptane	11.912	71	43299	56.26	ug/L	100
58) isopropyl acetate	11.597	87	24102	50.07	ug/L	100
59) 1,2-dichloroethane	11.645	62	111005	45.71	ug/L	100
60) trichloroethene	12.352	130	78474	54.32	ug/L	100
61) ethyl acrylate	12.342	55	141408	55.31	ug/L	100
62) 2-nitropropane	13.003	43	32359	52.87	ug/L	100
63) 2-chloroethyl vinyl ether	13.055	63	293522	266.85	ug/L	100
64) methyl methacrylate	12.588	100	26880	56.30	ug/L	100
65) 1,2-dichloropropane	12.578	63	77459	53.75	ug/L	100
66) dibromomethane	12.698	93	52886	52.11	ug/L	100
67) methylcyclohexane	12.604	83	101640	57.41	ug/L	100
68) bromodichloromethane	12.824	83	105592	52.98	ug/L	100
69) epichlorohydrin	13.139	57	70126	270.75	ug/L	100
70) cis-1,3-dichloropropene	13.254	75	123044	53.44	ug/L	100
71) 4-methyl-2-pentanone	13.349	58	175660	208.57	ug/L	100
72) 3-methyl-1-butanol	13.338	70	91698	102.49	ug/L	100
75) toluene	13.621	92	167185	50.42	ug/L	100
76) trans-1,3-dichloropropene	13.752	75	112291	53.82	ug/L	100
77) ethyl methacrylate	13.778	69	107035	48.42	ug/L	100
78) 1,1,2-trichloroethane	13.946	83	58319	51.40	ug/L	100
79) tetrachloroethene	14.166	164	61641	50.27	ug/L	100
80) 1,3-dichloropropane	14.119	76	108683	52.23	ug/L	100
81) 2-hexanone	14.119	58	182726	221.29	ug/L	100
82) butyl acetate	14.198	56	64778	54.75	ug/L	100
83) dibromochloromethane	14.355	129	80599	55.04	ug/L	100
84) 1,2-dibromoethane	14.502	107	88495	52.89	ug/L	100
85) n-butyl ether	14.895	57	279593	52.18	ug/L	100
86) chlorobenzene	14.942	112	179216	50.65	ug/L	100
87) 1,1,1,2-tetrachloroethane	14.990	131	67617	53.87	ug/L	100
88) ethylbenzene	15.005	91	294195	50.78	ug/L	100
89) m,p-xylene	15.100	106	225819	104.58	ug/L	100
90) o-xylene	15.477	106	108261	53.23	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4496\
Data File : 4D101411.D
Acq On : 16 Apr 2020 7:52 pm
Operator : ROBERTS
Sample : ICC4496-50
Misc : MS42511,V4D4496,5,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 17 08:35:44 2020
Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 08:35:27 2020
Response via : Initial Calibration

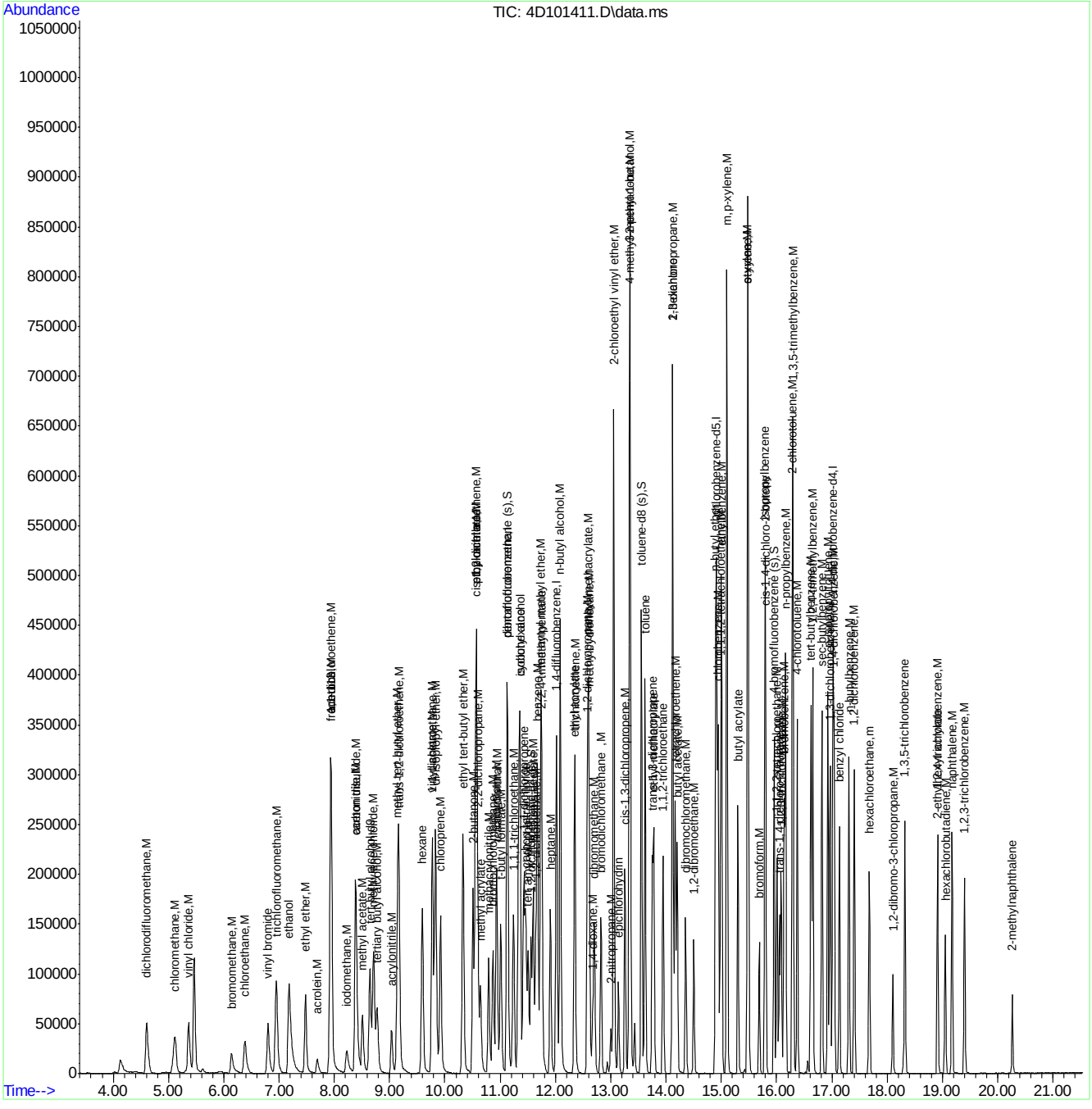
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91)	styrene	15.477	104	184159	53.45	ug/L	100
92)	bromoform	15.687	173	61221	54.21	ug/L	100
93)	butyl acrylate	15.299	55	161023	54.74	ug/L	100
94)	isopropylbenzene	15.792	105	266321	52.21	ug/L	100
95)	cis-1,4-dichloro-2-butene	15.802	88	38595	14.30	ug/L	100
98)	bromobenzene	16.138	156	76965	51.57	ug/L	100
99)	1,1,2,2-tetrachloroethane	16.007	83	103155	51.64	ug/L	100
100)	trans-1,4-dichloro-2-b...	16.049	53	28156	54.67	ug/L	100
101)	1,2,3-trichloropropane	16.080	110	28357	51.97	ug/L	100
102)	n-propylbenzene	16.164	91	306307	50.54	ug/L	100
103)	2-chlorotoluene	16.285	126	67223	52.22	ug/L	100
104)	4-chlorotoluene	16.374	91	189694	50.78	ug/L	100
105)	1,3,5-trimethylbenzene	16.295	105	213830	51.74	ug/L	100
106)	tert-butylbenzene	16.620	134	38047	52.92	ug/L	100
107)	1,2,4-trimethylbenzene	16.657	105	209791	50.27	ug/L	100
108)	sec-butylbenzene	16.819	105	241617	51.06	ug/L	100
109)	1,3-dichlorobenzene	16.972	146	126972	50.54	ug/L	100
110)	p-isopropyltoluene	16.924	119	205137	52.31	ug/L	100
111)	1,4-dichlorobenzene	17.040	146	128643	50.36	ug/L	100
112)	benzyl chloride	17.134	91	167984	55.29	ug/L	100
113)	1,2-dichlorobenzene	17.401	146	121234	50.52	ug/L	100
114)	n-butylbenzene	17.307	92	93212	56.21	ug/L	100
115)	1,2-dibromo-3-chloropr...	18.104	157	29030	55.50	ug/L	100
116)	1,3,5-trichlorobenzene	18.319	180	78782	52.56	ug/L	100
117)	2-ethylhexyl acrylate	18.906	70	7610	11.94	ug/L	100
118)	1,2,4-trichlorobenzene	18.911	180	65922	53.23	ug/L	100
119)	hexachlorobutadiene	19.053	225	29255	52.68	ug/L	100
120)	naphthalene	19.174	128	184023	49.92	ug/L	100
121)	1,2,3-trichlorobenzene	19.399	180	60342	53.49	ug/L	100
122)	hexachloroethane	17.679	201	36037	54.80	ug/L	100
123)	2-methylnaphthalene	20.264	142	40115	30.98	ug/L	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4496\
Data File : 4D101411.D
Acq On : 16 Apr 2020 7:52 pm
Operator : ROBERTS
Sample : ICC4496-50
Misc : MS42511,V4D4496,5,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 17 08:35:44 2020
Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 08:35:27 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4496\
Data File : 4D101412.D
Acq On : 16 Apr 2020 8:21 pm
Operator : ROBERTS
Sample : IC4496-100
Misc : MS42511,V4D4496,5,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 17 08:29:58 2020
Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 08:29:10 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	8.651	65	188016	500.00	ug/L	0.00
5) pentafluorobenzene	11.131	168	208531	50.00	ug/L	0.00
51) 1,4-difluorobenzene	12.017	114	298801	50.00	ug/L	0.00
73) chlorobenzene-d5	14.911	117	231362	50.00	ug/L	0.00
96) 1,4-dichlorobenzene-d4	17.019	152	103022	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	11.131	113	101612	50.29	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.58%			
52) 1,2-dichloroethane-d4 (s)	11.556	65	102857	49.53	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 99.06%			
74) toluene-d8 (s)	13.553	98	304654	49.47	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 98.94%			
97) 4-bromofluorobenzene (s)	15.954	95	102520	50.43	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.86%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	8.782	59	211522	491.80	ug/L	99
3) ethanol	7.188	45	450522	9851.55	ug/L	99
4) 1,4-dioxane	12.672	88	87136	2451.01	ug/L	98
7) dichlorodifluoromethane	4.603	85	188613	101.45	ug/L	99
8) chloromethane	5.117	50	179009	100.39	ug/L	98
9) vinyl chloride	5.364	62	191467	104.16	ug/L	97
10) bromomethane	6.124	94	75556	121.17	ug/L	98
11) chloroethane	6.370	64	115025	100.63	ug/L	99
12) trichlorofluoromethane	6.947	101	265237	101.58	ug/L	97
13) vinyl bromide	6.795	106	131274	103.78	ug/L	99
14) ethyl ether	7.476	74	101953	105.66	ug/L	98
15) acrolein	7.686	56	42282	105.08	ug/L	98
16) freon 113	7.933	151	121504	103.74	ug/L	95
17) 1,1-dichloroethene	7.938	96	157938	103.32	ug/L	98
18) acetone	7.938	43	329759	406.55	ug/L	99
19) acetonitrile	8.384	41	391454	1014.62	ug/L	99
20) iodomethane	8.221	142	145104	122.79	ug/L	99
21) carbon disulfide	8.389	76	400986	105.91	ug/L	100
22) methylene chloride	8.709	84	175130	104.14	ug/L	99
23) methyl acetate	8.504	43	215341	103.46	ug/L	100
24) methyl tert butyl ether	9.144	73	530450	104.64	ug/L	100
25) trans-1,2-dichloroethene	9.170	96	164872	103.64	ug/L	98
26) di-isopropyl ether	9.831	45	558024	102.16	ug/L	98
27) 2-butanone	10.507	72	140439	412.05	ug/L	98
28) 1,1-dichloroethane	9.768	63	310000	104.29	ug/L	100
29) chloroprene	9.920	53	245733	103.09	ug/L	97
30) acrylonitrile	9.028	53	94878	104.89	ug/L	99
31) hexane	9.589	56	108497	100.83	ug/L	99
32) vinyl acetate	9.773	86	45922	109.29	ug/L	95
33) ethyl tert-butyl ether	10.329	59	557269	104.64	ug/L	100
34) ethyl acetate	10.565	70	31518	106.23	ug/L #	87
35) 2,2-dichloropropane	10.586	77	238354	101.26	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4496\
Data File : 4D101412.D
Acq On : 16 Apr 2020 8:21 pm
Operator : ROBERTS
Sample : IC4496-100
Misc : MS42511,V4D4496,5,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 17 08:29:58 2020
Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 08:29:10 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) cis-1,2-dichloroethene	10.554	96	184613	103.55	ug/L		98
37) methyl acrylate	10.638	55	223608	101.86	ug/L		99
38) propionitrile	10.565	54	422872	1003.94	ug/L		100
39) bromochloromethane	10.869	128	86419	101.57	ug/L		99
40) tetrahydrofuran	10.942	72	37896	101.25	ug/L		97
41) chloroform	10.932	85	192854	102.31	ug/L		100
42) t-butyl formate	11.010	59	207287	104.53	ug/L		99
44) methacrylonitrile	10.790	67	99258	103.17	ug/L		98
45) 1,1,1-trichloroethane	11.241	97	253465	103.32	ug/L		99
46) cyclohexane	11.356	84	193680	99.80	ug/L		96
47) 1,1-dichloropropene	11.425	75	217141	102.31	ug/L		98
48) isobutyl alcohol	11.356	74	17346	1002.03	ug/L		97
49) carbon tetrachloride	11.461	117	221349	103.42	ug/L		100
50) tert amyl alcohol	11.508	55	65974	497.99	ug/L		97
53) n-butyl alcohol	12.090	56	533751	4940.17	ug/L		98
54) 2,2,4-trimethylpentane	11.750	57	370803	101.70	ug/L		99
55) benzene	11.671	78	607348	103.03	ug/L		99
56) tert-amyl methyl ether	11.734	87	120456	104.52	ug/L		97
57) heptane	11.907	71	88025	102.29	ug/L		99
58) isopropyl acetate	11.598	87	50310	105.03	ug/L	#	87
59) 1,2-dichloroethane	11.645	62	228017	103.35	ug/L		100
60) trichloroethene	12.353	130	162079	103.92	ug/L		100
61) ethyl acrylate	12.337	55	292342	104.02	ug/L		98
62) 2-nitropropane	13.003	43	67375	104.76	ug/L		99
63) 2-chloroethyl vinyl ether	13.055	63	605239	518.74	ug/L		99
64) methyl methacrylate	12.588	100	56607	105.96	ug/L		98
65) 1,2-dichloropropane	12.578	63	160045	103.96	ug/L		98
66) dibromomethane	12.699	93	111049	105.65	ug/L		99
67) methylcyclohexane	12.604	83	207464	102.70	ug/L		98
68) bromodichloromethane	12.824	83	219641	104.66	ug/L		100
69) epichlorohydrin	13.139	57	141175	506.46	ug/L		99
70) cis-1,3-dichloropropene	13.254	75	256446	104.86	ug/L		98
71) 4-methyl-2-pentanone	13.349	58	354601	406.28	ug/L		100
72) 3-methyl-1-butanol	13.338	70	181939	1996.59	ug/L		98
75) toluene	13.621	92	345046	101.99	ug/L		98
76) trans-1,3-dichloropropene	13.752	75	236068	103.89	ug/L		100
77) ethyl methacrylate	13.779	69	225051	103.91	ug/L		98
78) 1,1,2-trichloroethane	13.946	83	123309	104.49	ug/L		99
79) tetrachloroethene	14.161	164	126119	101.11	ug/L		98
80) 1,3-dichloropropane	14.119	76	226038	102.78	ug/L		98
81) 2-hexanone	14.119	58	371131	401.48	ug/L		95
82) butyl acetate	14.198	56	134679	102.74	ug/L		97
83) dibromochloromethane	14.355	129	174223	106.82	ug/L		98
84) 1,2-dibromoethane	14.502	107	186504	104.15	ug/L		99
85) n-butyl ether	14.895	57	587876	103.91	ug/L		100
86) chlorobenzene	14.943	112	374476	103.26	ug/L		99
87) 1,1,1,2-tetrachloroethane	14.985	131	144264	105.43	ug/L		98
88) ethylbenzene	15.006	91	614510	103.22	ug/L		99
89) m,p-xylene	15.100	106	468558	205.08	ug/L		100
90) o-xylene	15.477	106	226678	103.47	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4496\
Data File : 4D101412.D
Acq On : 16 Apr 2020 8:21 pm
Operator : ROBERTS
Sample : IC4496-100
Misc : MS42511,V4D4496,5,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 17 08:29:58 2020
Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 08:29:10 2020
Response via : Initial Calibration

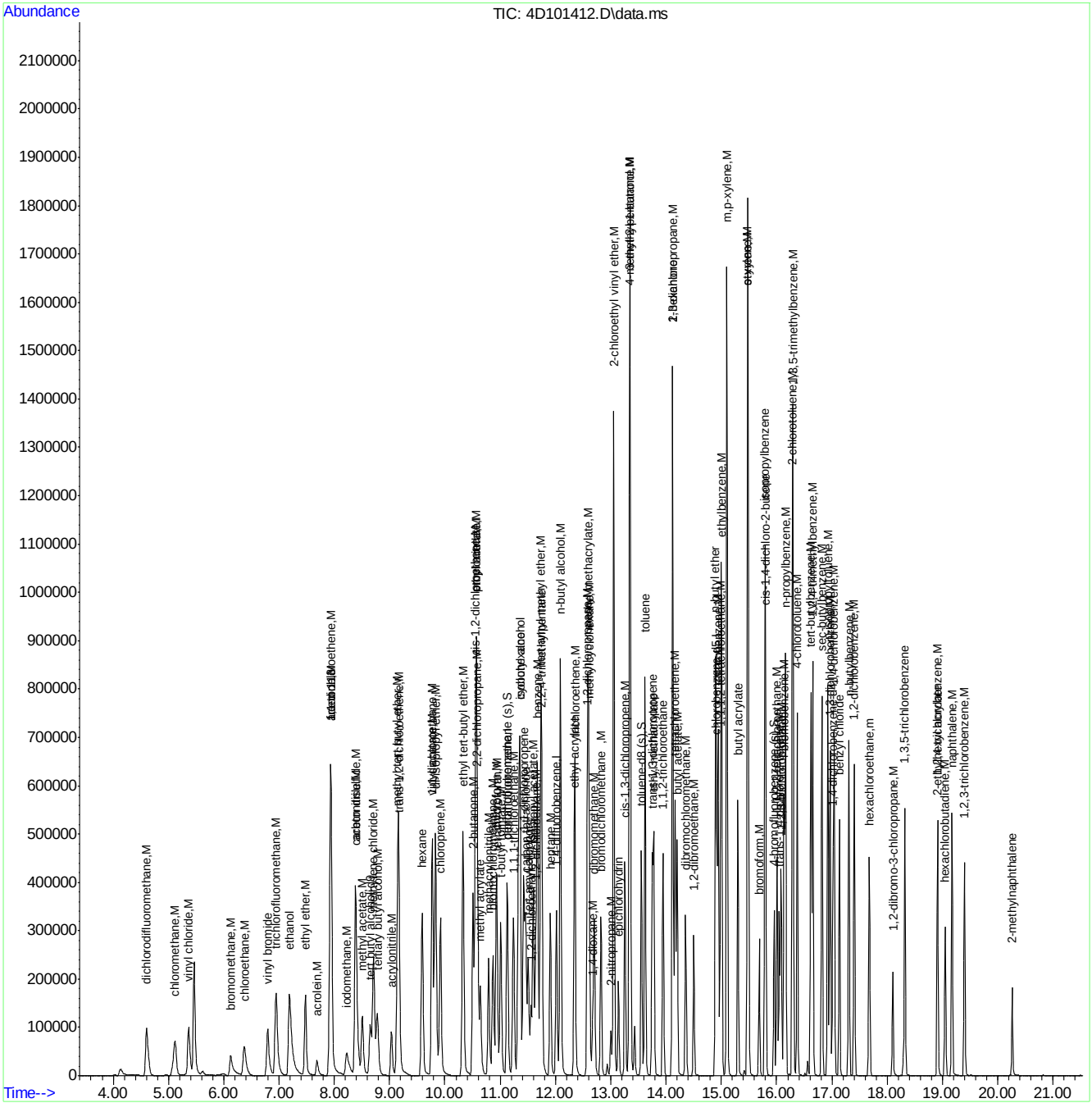
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91)	styrene	15.477	104	389297	104.46	ug/L	99
92)	bromoform	15.687	173	132659	107.08	ug/L	100
93)	butyl acrylate	15.299	55	336580	103.30	ug/L	99
94)	isopropylbenzene	15.792	105	565085	104.86	ug/L	100
95)	cis-1,4-dichloro-2-butene	15.802	88	83508	106.92	ug/L	100
98)	bromobenzene	16.138	156	161618	104.12	ug/L	99
99)	1,1,2,2-tetrachloroethane	16.007	83	217865	104.72	ug/L	99
100)	trans-1,4-dichloro-2-b...	16.049	53	59692	105.12	ug/L	97
101)	1,2,3-trichloropropane	16.086	110	60226	105.31	ug/L	100
102)	n-propylbenzene	16.164	91	642987	104.08	ug/L	99
103)	2-chlorotoluene	16.285	126	139886	103.18	ug/L	99
104)	4-chlorotoluene	16.374	91	396364	103.60	ug/L	100
105)	1,3,5-trimethylbenzene	16.295	105	449260	104.18	ug/L	99
106)	tert-butylbenzene	16.620	134	82525	107.55	ug/L	97
107)	1,2,4-trimethylbenzene	16.652	105	450365	106.44	ug/L	98
108)	sec-butylbenzene	16.820	105	519372	106.58	ug/L	100
109)	1,3-dichlorobenzene	16.972	146	265165	103.55	ug/L	99
110)	p-isopropyltoluene	16.924	119	438415	105.97	ug/L	100
111)	1,4-dichlorobenzene	17.040	146	270686	104.33	ug/L	100
112)	benzyl chloride	17.134	91	352439	104.03	ug/L	100
113)	1,2-dichlorobenzene	17.402	146	256217	104.79	ug/L	99
114)	n-butylbenzene	17.307	92	200795	106.81	ug/L	99
115)	1,2-dibromo-3-chloropr...	18.104	157	62433	106.64	ug/L	96
116)	1,3,5-trichlorobenzene	18.319	180	171368	107.86	ug/L	100
117)	2-ethylhexyl acrylate	18.906	70	17063	22.24	ug/L	94
118)	1,2,4-trichlorobenzene	18.912	180	147327	110.81	ug/L	98
119)	hexachlorobutadiene	19.048	225	63169	107.06	ug/L	96
120)	naphthalene	19.168	128	399714	107.70	ug/L	99
121)	1,2,3-trichlorobenzene	19.399	180	133613	109.79	ug/L	99
122)	hexachloroethane	17.679	201	78894	108.55	ug/L	99
123)	2-methylnaphthalene	20.259	142	86591	53.51	ug/L	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4496\
Data File : 4D101412.D
Acq On : 16 Apr 2020 8:21 pm
Operator : ROBERTS
Sample : IC4496-100
Misc : MS42511,V4D4496,5,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 17 08:29:58 2020
Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 08:29:10 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4496\
Data File : 4D101413.D
Acq On : 16 Apr 2020 8:49 pm
Operator : ROBERTS
Sample : IC4496-200
Misc : MS42511,V4D4496,5,,,,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 17 16:25:56 2020
Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 08:29:10 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	8.661	65	174184	500.00	ug/L	0.02
5) pentafluorobenzene	11.126	168	201497	50.00	ug/L	0.00
51) 1,4-difluorobenzene	12.017	114	290055	50.00	ug/L	0.00
73) chlorobenzene-d5	14.911	117	228292	50.00	ug/L	0.00
96) 1,4-dichlorobenzene-d4	17.019	152	98232	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	11.131	113	98001	50.20	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.40%			
52) 1,2-dichloroethane-d4 (s)	11.556	65	97128	48.18	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 96.36%			
74) toluene-d8 (s)	13.553	98	297843	49.02	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 98.04%			
97) 4-bromofluorobenzene (s)	15.954	95	99441	51.30	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 102.60%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	8.792	59	398354	999.75	ug/L	99
3) ethanol	7.214	45	848459	20026.54	ug/L	99
4) 1,4-dioxane	12.683	88	161689	4909.24	ug/L	100
7) dichlorodifluoromethane	4.603	85	379709	211.36	ug/L	99
8) chloromethane	5.117	50	375572	217.97	ug/L	98
9) vinyl chloride	5.369	62	397392	223.73	ug/L	96
11) chloroethane	6.354	64	224340	203.11	ug/L	99
12) trichlorofluoromethane	6.936	101	531775	210.76	ug/L	99
13) vinyl bromide	6.784	106	264297	216.24	ug/L	99
14) ethyl ether	7.476	74	192891	206.88	ug/L	98
15) acrolein	7.686	56	80026	205.83	ug/L	97
16) freon 113	7.927	151	233514	206.33	ug/L	98
17) 1,1-dichloroethene	7.933	96	300910	203.72	ug/L	99
18) acetone	7.943	43	614727	784.33	ug/L	98
19) acetonitrile	8.389	41	736706	1976.15	ug/L	99
20) iodomethane	8.226	142	287573	251.84	ug/L	96
21) carbon disulfide	8.383	76	766462	209.51	ug/L	100
22) methylene chloride	8.709	84	335587	206.52	ug/L	100
23) methyl acetate	8.509	43	405652	201.70	ug/L	100
24) methyl tert butyl ether	9.149	73	1008438	205.87	ug/L	100
25) trans-1,2-dichloroethene	9.165	96	315519	205.26	ug/L	99
26) di-isopropyl ether	9.831	45	1049828	198.91	ug/L	98
27) 2-butanone	10.512	72	267716	812.90	ug/L	95
28) 1,1-dichloroethane	9.768	63	590761	205.69	ug/L	99
29) chloroprene	9.920	53	463625	201.29	ug/L	97
30) acrylonitrile	9.028	53	182240	208.50	ug/L	99
31) hexane	9.584	56	212229	204.11	ug/L	98
32) vinyl acetate	9.773	86	88287	217.46	ug/L #	84
33) ethyl tert-butyl ether	10.329	59	1063850	206.73	ug/L	100
34) ethyl acetate	10.565	70	59485	207.49	ug/L #	81
35) 2,2-dichloropropane	10.586	77	447105	196.57	ug/L	96
36) cis-1,2-dichloroethene	10.554	96	347684	201.83	ug/L	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4496\
Data File : 4D101413.D
Acq On : 16 Apr 2020 8:49 pm
Operator : ROBERTS
Sample : IC4496-200
Misc : MS42511,V4D4496,5,,,,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 17 16:25:56 2020
Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 08:29:10 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) methyl acrylate	10.643	55	422621	199.24	ug/L		99
38) propionitrile	10.570	54	786499	1932.40	ug/L		99
39) bromochloromethane	10.869	128	164724	200.36	ug/L		97
40) tetrahydrofuran	10.942	72	71942	198.93	ug/L		96
41) chloroform	10.932	85	366957	201.47	ug/L		98
42) t-butyl formate	11.010	59	394359	205.80	ug/L		99
44) methacrylonitrile	10.790	67	188558	202.82	ug/L		99
45) 1,1,1-trichloroethane	11.241	97	487501	205.66	ug/L		98
46) cyclohexane	11.351	84	383531	204.53	ug/L	#	85
47) 1,1-dichloropropene	11.424	75	414752	202.23	ug/L		99
48) isobutyl alcohol	11.367	74	33021	1974.12	ug/L	#	53
49) carbon tetrachloride	11.461	117	426241	206.11	ug/L		99
50) tert amyl alcohol	11.514	55	122127	954.02	ug/L		95
53) n-butyl alcohol	12.101	56	1002568	9559.14	ug/L		98
54) 2,2,4-trimethylpentane	11.750	57	714310	201.83	ug/L		99
55) benzene	11.676	78	1150905	201.12	ug/L		99
56) tert-amyl methyl ether	11.734	87	227609	203.46	ug/L		97
57) heptane	11.907	71	174252	208.59	ug/L		99
58) isopropyl acetate	11.597	87	96450	207.42	ug/L	#	89
59) 1,2-dichloroethane	11.645	62	427499	199.61	ug/L		100
60) trichloroethene	12.352	130	311636	205.83	ug/L		99
61) ethyl acrylate	12.342	55	557181	204.23	ug/L		99
62) 2-nitropropane	13.003	43	129407	207.28	ug/L		99
63) 2-chloroethyl vinyl ether	13.055	63	1141112	1007.52	ug/L		100
64) methyl methacrylate	12.588	100	107203	206.72	ug/L		96
65) 1,2-dichloropropane	12.578	63	305095	204.15	ug/L		99
66) dibromomethane	12.698	93	209979	205.79	ug/L		99
67) methylcyclohexane	12.604	83	401845	204.92	ug/L		97
68) bromodichloromethane	12.824	83	425207	208.72	ug/L		99
69) epichlorohydrin	13.144	57	267438	988.35	ug/L		99
70) cis-1,3-dichloropropene	13.254	75	495820	208.86	ug/L		100
71) 4-methyl-2-pentanone	13.354	58	655437	773.60	ug/L		98
72) 3-methyl-1-butanol	13.343	70	339768	3841.03	ug/L		99
75) toluene	13.621	92	666211	199.57	ug/L		98
76) trans-1,3-dichloropropene	13.752	75	455458	203.14	ug/L		100
77) ethyl methacrylate	13.779	69	425761	199.22	ug/L		99
78) 1,1,2-trichloroethane	13.946	83	236884	203.43	ug/L		98
79) tetrachloroethene	14.167	164	240309	195.25	ug/L		99
80) 1,3-dichloropropane	14.119	76	429131	197.75	ug/L		97
81) 2-hexanone	14.119	58	692931	759.68	ug/L		99
82) butyl acetate	14.198	56	254239	196.56	ug/L		94
83) dibromochloromethane	14.355	129	340064	211.31	ug/L		100
84) 1,2-dibromoethane	14.502	107	365507	206.85	ug/L		99
85) n-butyl ether	14.895	57	1137435	203.74	ug/L		100
86) chlorobenzene	14.943	112	732336	204.65	ug/L		100
87) 1,1,1,2-tetrachloroethane	14.984	131	283130	209.71	ug/L		99
88) ethylbenzene	15.005	91	1183813	201.53	ug/L		99
89) m,p-xylene	15.100	106	893955	396.52	ug/L		99
90) o-xylene	15.477	106	431022	199.39	ug/L		99
91) styrene	15.477	104	745176	202.65	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4496\
Data File : 4D101413.D
Acq On : 16 Apr 2020 8:49 pm
Operator : ROBERTS
Sample : IC4496-200
Misc : MS42511,V4D4496,5,,,,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 17 16:25:56 2020
Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 08:29:10 2020
Response via : Initial Calibration

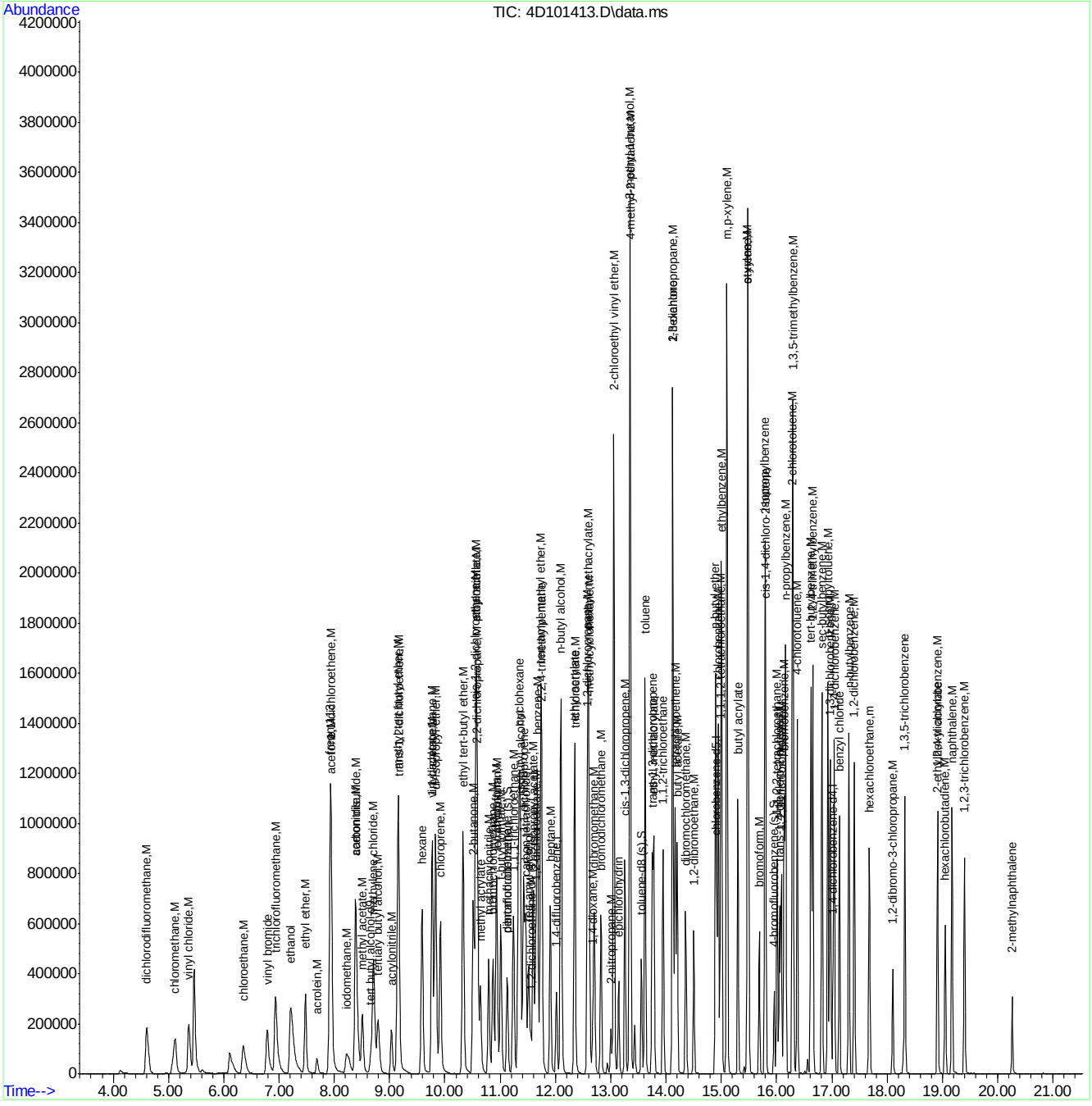
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
92) bromoform	15.687	173	260009	212.70	ug/L	100
93) butyl acrylate	15.299	55	639965	199.04	ug/L	99
94) isopropylbenzene	15.792	105	1088829	204.76	ug/L	100
95) cis-1,4-dichloro-2-butene	15.802	88	162161	210.43	ug/L	99
98) bromobenzene	16.138	156	309873	209.37	ug/L	99
99) 1,1,2,2-tetrachloroethane	16.007	83	415830	209.62	ug/L	99
100) trans-1,4-dichloro-2-b...	16.054	53	114387	211.26	ug/L	94
101) 1,2,3-trichloropropane	16.086	110	114258	209.53	ug/L	99
102) n-propylbenzene	16.164	91	1224575	207.89	ug/L	99
103) 2-chlorotoluene	16.285	126	267024	206.56	ug/L	99
104) 4-chlorotoluene	16.374	91	742904	203.65	ug/L	100
105) 1,3,5-trimethylbenzene	16.295	105	860595	209.29	ug/L	99
106) tert-butylbenzene	16.620	134	159802	218.41	ug/L	98
107) 1,2,4-trimethylbenzene	16.657	105	859621	213.08	ug/L	99
108) sec-butylbenzene	16.820	105	1000980	215.43	ug/L	99
109) 1,3-dichlorobenzene	16.972	146	505082	206.86	ug/L	99
110) p-isopropyltoluene	16.924	119	847000	214.71	ug/L	99
111) 1,4-dichlorobenzene	17.045	146	515325	208.31	ug/L	99
112) benzyl chloride	17.134	91	674223	208.71	ug/L	100
113) 1,2-dichlorobenzene	17.402	146	484676	207.89	ug/L	100
114) n-butylbenzene	17.307	92	394071	219.85	ug/L	99
115) 1,2-dibromo-3-chloropr...	18.099	157	121094	216.92	ug/L	97
116) 1,3,5-trichlorobenzene	18.319	180	338921	223.71	ug/L	99
117) 2-ethylhexyl acrylate	18.906	70	31938	43.65	ug/L	97
118) 1,2,4-trichlorobenzene	18.912	180	292611	230.82	ug/L	99
119) hexachlorobutadiene	19.048	225	122784	218.25	ug/L	96
120) naphthalene	19.168	128	789765	223.17	ug/L	99
121) 1,2,3-trichlorobenzene	19.399	180	266067	229.29	ug/L	99
122) hexachloroethane	17.679	201	159411	230.03	ug/L	98
123) 2-methylnaphthalene	20.259	142	145114	94.06	ug/L	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4496\
Data File : 4D101413.D
Acq On : 16 Apr 2020 8:49 pm
Operator : ROBERTS
Sample : IC4496-200
Misc : MS42511,V4D4496,5,,,,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 17 16:25:56 2020
Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 08:29:10 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4496\
Data File : 4D101416.D
Acq On : 16 Apr 2020 10:15 pm
Operator : ROBERTS
Sample : ICV4496-50
Misc : MS42511,V4D4496,5,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Apr 17 16:32:18 2020
Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 16:29:00 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	8.645	65	197961	500.00	ug/L		0.00
5) pentafluorobenzene	11.131	168	230712	50.00	ug/L		0.00
51) 1,4-difluorobenzene	12.017	114	332319	50.00	ug/L		0.00
73) chlorobenzene-d5	14.911	117	253759	50.00	ug/L		0.00
96) 1,4-dichlorobenzene-d4	17.019	152	109753	50.00	ug/L		0.00
System Monitoring Compounds							
43) dibromofluoromethane (s)	11.131	113	111553	50.36	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.72%				
52) 1,2-dichloroethane-d4 (s)	11.555	65	109340	47.25	ug/L		0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 94.50%				
74) toluene-d8 (s)	13.553	98	335393	48.96	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 97.92%				
97) 4-bromofluorobenzene (s)	15.954	95	110227	49.78	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.56%				
Target Compounds							Qvalue
2) tertiary butyl alcohol	8.777	59	115784	259.54	ug/L		99
3) ethanol	7.183	45	249540	5414.73	ug/L		100
4) 1,4-dioxane	12.672	88	48987	1341.75	ug/L		97
7) dichlorodifluoromethane	4.603	85	105011	53.94	ug/L		99
8) chloromethane	5.106	50	98574	51.53	ug/L		98
9) vinyl chloride	5.363	62	106168	55.06	ug/L		99
10) bromomethane	6.139	94	42495	59.34	ug/L		96
11) chloroethane	6.380	64	55772	47.25	ug/L		97
12) trichlorofluoromethane	6.952	101	136616	49.72	ug/L		97
13) vinyl bromide	6.800	106	76910	58.94	ug/L		99
14) ethyl ether	7.476	74	54150	54.07	ug/L		98
15) acrolein	7.686	56	21093	49.33	ug/L		93
16) freon 113	7.938	151	68889	56.88	ug/L		97
17) 1,1-dichloroethene	7.938	96	80109	49.96	ug/L		97
18) acetone	7.938	43	171005	200.87	ug/L		98
20) iodomethane	8.231	142	32864	33.92	ug/L		95
21) carbon disulfide	8.389	76	247538	57.97	ug/L		99
22) methylene chloride	8.708	84	93748	52.01	ug/L		99
23) methyl acetate	8.509	43	106869	48.27	ug/L		99
24) methyl tert butyl ether	9.144	73	553482	101.49	ug/L		100
25) trans-1,2-dichloroethene	9.170	96	87451	51.04	ug/L		97
26) di-isopropyl ether	9.830	45	284359	48.68	ug/L		99
27) 2-butanone	10.507	72	75243	207.27	ug/L		92
28) 1,1-dichloroethane	9.773	63	168579	53.27	ug/L		99
29) chloroprene	9.920	53	133918	54.13	ug/L		95
31) hexane	9.589	56	59727	55.47	ug/L		99
32) vinyl acetate	9.778	86	22984	49.81	ug/L	#	84
33) ethyl tert-butyl ether	10.328	59	273764	48.10	ug/L		100
34) ethyl acetate	10.564	70	16017	50.65	ug/L	#	93
35) 2,2-dichloropropane	10.585	77	120620	48.79	ug/L		97
36) cis-1,2-dichloroethene	10.559	96	98610	51.14	ug/L		96
37) methyl acrylate	10.643	55	122695	52.27	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4496\
Data File : 4D101416.D
Acq On : 16 Apr 2020 10:15 pm
Operator : ROBERTS
Sample : ICV4496-50
Misc : MS42511,V4D4496,5,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Apr 17 16:32:18 2020
Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 16:29:00 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
38) propionitrile	10.564	54	232223	529.49	ug/L		99
39) bromochloromethane	10.869	128	49285	53.20	ug/L		99
40) tetrahydrofuran	10.942	72	20888	53.20	ug/L		96
41) chloroform	10.937	85	104771	47.75	ug/L		96
42) t-butyl formate	11.010	59	83890	39.88	ug/L		99
44) methacrylonitrile	10.790	67	54461	53.52	ug/L		96
45) 1,1,1-trichloroethane	11.241	97	131988	51.24	ug/L		99
46) cyclohexane	11.356	84	107069	52.89	ug/L		97
47) 1,1-dichloropropene	11.424	75	116949	51.21	ug/L		98
48) isobutyl alcohol	11.356	74	9307	552.32	ug/L		97
49) carbon tetrachloride	11.461	117	117072	51.55	ug/L		98
50) tert amyl alcohol	11.503	55	36261	258.70	ug/L		95
53) n-butyl alcohol	12.085	56	286910	2627.95	ug/L		99
54) 2,2,4-trimethylpentane	11.749	57	202290	54.30	ug/L		97
55) benzene	11.676	78	332870	50.46	ug/L		100
56) tert-amyl methyl ether	11.734	87	59115	47.27	ug/L		98
57) heptane	11.907	71	49140	53.98	ug/L		99
58) isopropyl acetate	11.597	87	25900	49.63	ug/L	#	84
59) 1,2-dichloroethane	11.644	62	120155	46.77	ug/L		100
60) trichloroethene	12.352	130	91632	54.64	ug/L		99
61) ethyl acrylate	12.342	55	153007	51.08	ug/L		99
62) 2-nitropropane	13.002	43	36183	51.79	ug/L		99
63) 2-chloroethyl vinyl ether	13.055	63	326712	260.26	ug/L		100
64) methyl methacrylate	12.588	100	31053	53.55	ug/L		95
65) 1,2-dichloropropane	12.578	63	86994	52.50	ug/L		99
66) dibromomethane	12.704	93	57909	50.35	ug/L		95
67) methylcyclohexane	12.604	83	115251	53.70	ug/L		98
68) bromodichloromethane	12.824	83	112260	49.93	ug/L		98
69) epichlorohydrin	13.139	57	74603	249.85	ug/L		98
70) cis-1,3-dichloropropene	13.254	75	134491	51.78	ug/L		99
71) 4-methyl-2-pentanone	13.348	58	192311	206.60	ug/L		98
72) 3-methyl-1-butanol	13.333	70	100834	1079.56	ug/L		96
75) toluene	13.621	92	186515	50.69	ug/L		99
76) trans-1,3-dichloropropene	13.752	75	125331	52.89	ug/L		99
77) ethyl methacrylate	13.778	69	121982	52.13	ug/L		98
78) 1,1,2-trichloroethane	13.946	83	66516	52.83	ug/L		98
80) 1,3-dichloropropane	14.114	76	122611	50.84	ug/L		96
81) 2-hexanone	14.119	58	197383	204.12	ug/L		99
82) butyl acetate	14.198	56	71877	51.03	ug/L		96
83) dibromochloromethane	14.355	129	92872	54.23	ug/L		99
84) 1,2-dibromoethane	14.502	107	100017	52.33	ug/L		100
85) n-butyl ether	14.895	57	308791	50.86	ug/L		99
86) chlorobenzene	14.942	112	203185	51.75	ug/L		100
87) 1,1,1,2-tetrachloroethane	14.984	131	76451	53.54	ug/L		99
88) ethylbenzene	15.005	91	329414	51.24	ug/L		99
89) m,p-xylene	15.100	106	253402	105.75	ug/L		98
90) o-xylene	15.477	106	121037	51.76	ug/L		99
91) styrene	15.477	104	208576	53.46	ug/L		99
92) bromoform	15.687	173	72935	56.48	ug/L		99
93) butyl acrylate	15.299	55	172438	51.29	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4496\
Data File : 4D101416.D
Acq On : 16 Apr 2020 10:15 pm
Operator : ROBERTS
Sample : ICV4496-50
Misc : MS42511,V4D4496,5,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Apr 17 16:32:18 2020
Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 16:29:00 2020
Response via : Initial Calibration

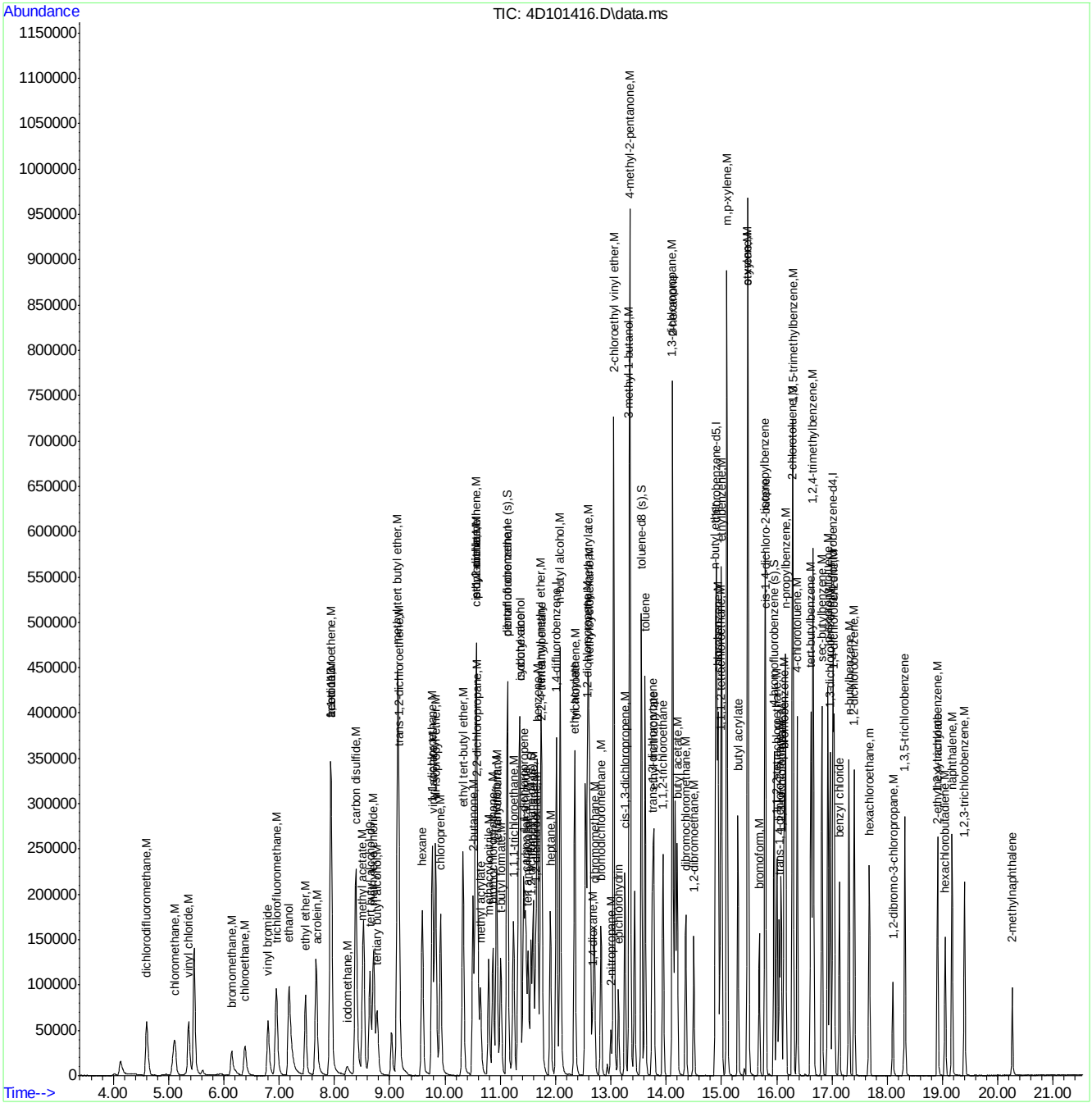
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) isopropylbenzene	15.792	105	298223	52.69	ug/L	99
95) cis-1,4-dichloro-2-butene	15.802	88	42750	51.41	ug/L	98
98) bromobenzene	16.138	156	87145	52.98	ug/L	98
99) 1,1,2,2-tetrachloroethane	16.007	83	114647	51.29	ug/L	99
100) trans-1,4-dichloro-2-b...	16.049	53	30941	52.08	ug/L	98
101) 1,2,3-trichloropropane	16.080	110	31137	50.69	ug/L	96
102) n-propylbenzene	16.164	91	344126	52.85	ug/L	99
103) 2-chlorotoluene	16.285	126	73601	52.00	ug/L	98
104) 4-chlorotoluene	16.374	91	214022	53.33	ug/L	100
105) 1,3,5-trimethylbenzene	16.295	105	235840	53.12	ug/L	99
106) tert-butylbenzene	16.620	134	43256	52.75	ug/L	96
107) 1,2,4-trimethylbenzene	16.657	105	238285	53.15	ug/L	99
108) sec-butylbenzene	16.819	105	272263	53.59	ug/L	99
109) 1,3-dichlorobenzene	16.966	146	143532	53.18	ug/L	99
110) p-isopropyltoluene	16.924	119	230329	54.68	ug/L	99
111) 1,4-dichlorobenzene	17.040	146	145373	52.97	ug/L	99
112) benzyl chloride	17.134	91	142763	42.11	ug/L	99
113) 1,2-dichlorobenzene	17.401	146	135388	53.05	ug/L	100
114) n-butylbenzene	17.307	92	102972	53.59	ug/L	99
115) 1,2-dibromo-3-chloropr...	18.104	157	31131	52.84	ug/L	97
116) 1,3,5-trichlorobenzene	18.319	180	89596	54.06	ug/L	99
117) 2-ethylhexyl acrylate	18.906	70	8827	10.44	ug/L	98
118) 1,2,4-trichlorobenzene	18.911	180	72339	52.53	ug/L	98
119) hexachlorobutadiene	19.048	225	31557	50.39	ug/L	97
120) naphthalene	19.168	128	202804	51.21	ug/L	99
121) 1,2,3-trichlorobenzene	19.399	180	66450	52.85	ug/L	100
122) hexachloroethane	17.679	201	39915	54.11	ug/L	98
123) 2-methylnaphthalene	20.264	142	48344	30.68	ug/L	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4496\
Data File : 4D101416.D
Acq On : 16 Apr 2020 10:15 pm
Operator : ROBERTS
Sample : ICV4496-50
Misc : MS42511,V4D4496,5,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Apr 17 16:32:18 2020
Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 16:29:00 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4496\
Data File : 4D101417.D
Acq On : 16 Apr 2020 10:44 pm
Operator : ROBERTS
Sample : ICV4496-50
Misc : MS42511,V4D4496,5,,,,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Apr 17 16:32:47 2020
Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 16:29:00 2020
Response via : Initial Calibration

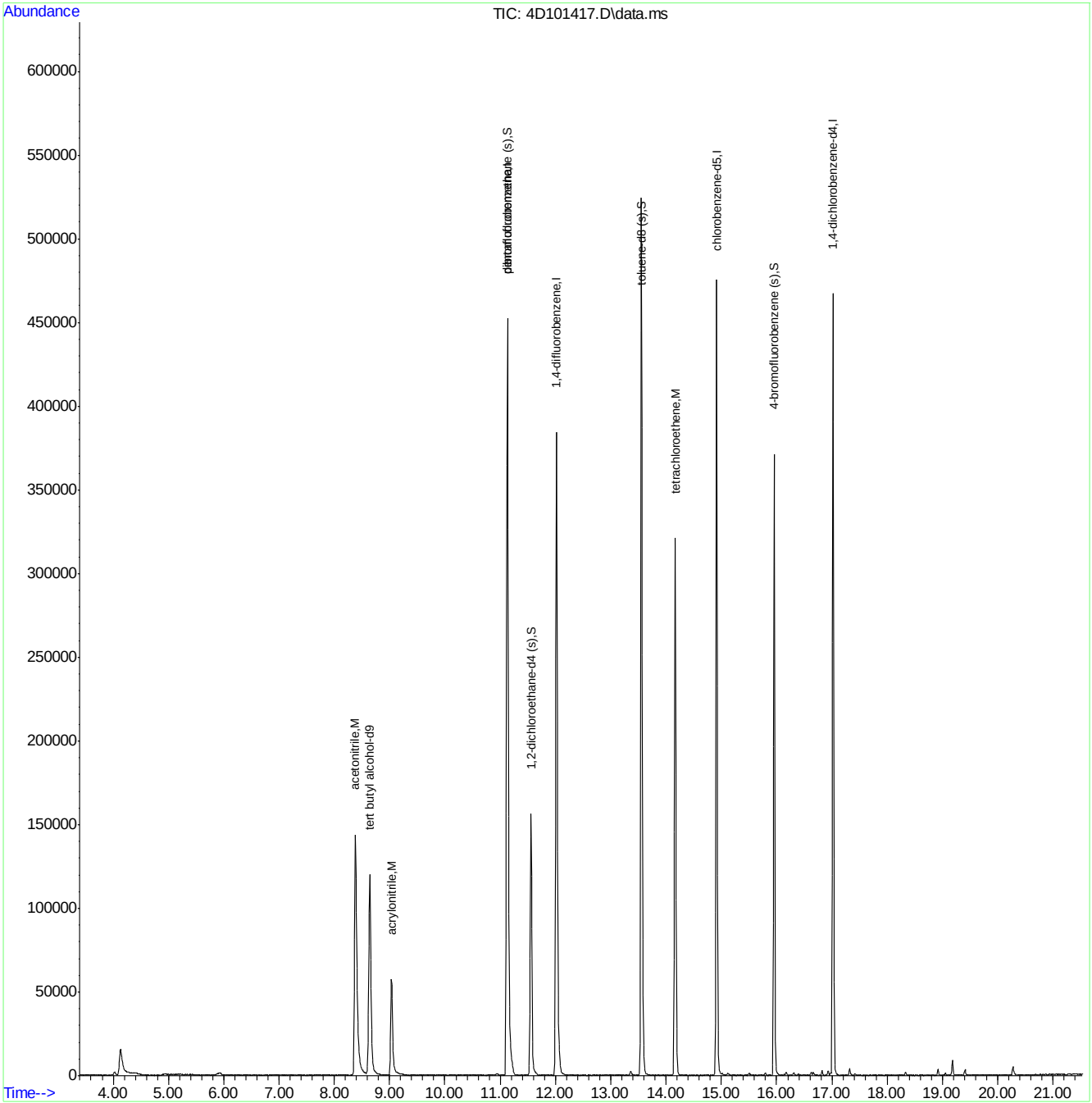
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	8.640	65	210648	500.00	ug/L	0.00
5) pentafluorobenzene	11.131	168	254295	50.00	ug/L	0.00
51) 1,4-difluorobenzene	12.017	114	365391	50.00	ug/L	0.00
73) chlorobenzene-d5	14.916	117	274539	50.00	ug/L	0.00
96) 1,4-dichlorobenzene-d4	17.019	152	117675	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	11.131	113	119837	49.08	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 98.16%			
52) 1,2-dichloroethane-d4 (s)	11.555	65	121411	47.72	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 95.44%			
74) toluene-d8 (s)	13.553	98	371337	50.10	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.20%			
97) 4-bromofluorobenzene (s)	15.954	95	117257	49.39	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 98.78%			
Target Compounds						Qvalue
19) acetonitrile	8.378	41	247268	540.96	ug/L	100
30) acrylonitrile	9.034	53	60237	59.01	ug/L	97
79) tetrachloroethene	14.166	164	79553	54.04	ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4496\
Data File : 4D101417.D
Acq On : 16 Apr 2020 10:44 pm
Operator : ROBERTS
Sample : ICV4496-50
Misc : MS42511,V4D4496,5,,,,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Apr 17 16:32:47 2020
Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 16:29:00 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\janellac\07-28-2020\v4d4597\
Data File : 4d103625.d
Acq On : 27 Jul 2020 8:27 am
Operator : mariceld
Sample : CC4496-20 Inst : MS4D
Misc : MS44684,V4D4597,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Results File: M4D4496.RES
Quant Time: Jul 27 22:07:02 2020
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 16:28:05 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	8.640	65	196595	500.00	ug/L	0.00
5) pentafluorobenzene	11.126	168	241013	50.00	ug/L	0.00
51) 1,4-difluorobenzene	12.017	114	339426	50.00	ug/L	0.00
73) chlorobenzene-d5	14.911	117	258033	50.00	ug/L	0.00
96) 1,4-dichlorobenzene-d4	17.019	152	116909	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	11.126	113	116626	50.40	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.80%			
52) 1,2-dichloroethane-d4 (s)	11.550	65	106544	45.08	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 90.16%			
74) toluene-d8 (s)	13.553	98	346189	49.69	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.38%			
97) 4-bromofluorobenzene (s)	15.949	95	111978	47.47	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 94.94%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	8.772	59	44782	101.08	ug/L	98
3) ethanol	7.178	45	94619	2067.39	ug/L	100
4) 1,4-dioxane	12.672	88	20468	564.51	ug/L	95
7) dichlorodifluoromethane	4.603	85	42261	20.78	ug/L	98
8) chloromethane	5.112	50	33586	16.81	ug/L	99
9) vinyl chloride	5.364	62	38031	18.88	ug/L	98
10) bromomethane	6.150	94	7318	12.52	ug/L	95
11) chloroethane	6.381	64	24759	20.08	ug/L	97
12) trichlorofluoromethane	6.952	101	53937	18.79	ug/L	98
13) vinyl bromide	6.800	106	18531	13.59	ug/L	96
14) ethyl ether	7.477	74	20825	19.91	ug/L	91
15) acrolein	7.697	56	7113	15.92	ug/L	96
16) freon 113	7.933	151	26748	21.14	ug/L	96
17) 1,1-dichloroethene	7.943	96	33056	19.73	ug/L	85
18) acetone	7.938	43	62034	69.76	ug/L	93
19) acetonitrile	8.384	41	78189	180.48	ug/L	98
20) iodomethane	8.221	142	7965	7.87	ug/L	90
21) carbon disulfide	8.389	76	81266	18.22	ug/L	98
22) methylene chloride	8.703	84	37985	20.17	ug/L	95
23) methyl acetate	8.509	43	42652	18.44	ug/L	97
24) methyl tert butyl ether	9.144	73	108430	19.03	ug/L	100
25) trans-1,2-dichloroethene	9.170	96	35821	20.01	ug/L	92
26) di-isopropyl ether	9.831	45	115981	19.01	ug/L	96
27) 2-butanone	10.507	72	29278	77.20	ug/L #	86
28) 1,1-dichloroethane	9.768	63	63911	19.33	ug/L	97
29) chloroprene	9.920	53	45572	17.63	ug/L	90
30) acrylonitrile	9.034	53	18014	18.62	ug/L	98
31) hexane	9.589	56	22890	20.35	ug/L	97
32) vinyl acetate	9.778	86	9581	19.88	ug/L #	59
33) ethyl tert-butyl ether	10.323	59	71225	11.98	ug/L	98
34) ethyl acetate	10.565	70	6584	19.93	ug/L #	72
35) 2,2-dichloropropane	10.586	77	51610	19.98	ug/L	95
36) cis-1,2-dichloroethene	10.554	96	42399	21.05	ug/L	87
37) methyl acrylate	10.643	55	46889	19.12	ug/L	98
38) propionitrile	10.559	54	87194	190.31	ug/L	99
39) bromochloromethane	10.864	128	21851	22.58	ug/L	92
40) tetrahydrofuran	10.942	72	8219	20.04	ug/L #	84
41) chloroform	10.932	85	42631	18.60	ug/L	95
42) t-butyl formate	11.010	59	26343	11.99	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\janellac\07-28-2020\v4d4597\
Data File : 4d103625.d
Acq On : 27 Jul 2020 8:27 am
Operator : mariceld
Sample : CC4496-20 Inst : MS4D
Misc : MS44684,V4D4597,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Results File: M4D4496.RES
Quant Time: Jul 27 22:07:02 2020
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 16:28:05 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) methacrylonitrile	10.790	67	21363	20.10	ug/L		90
45) 1,1,1-trichloroethane	11.236	97	51753	19.23	ug/L		97
46) cyclohexane	11.351	84	45802	21.66	ug/L	#	91
47) 1,1-dichloropropene	11.425	75	45032	18.88	ug/L		96
48) isobutyl alcohol	11.356	74	3771	214.22	ug/L	#	68
49) carbon tetrachloride	11.456	117	46206	19.47	ug/L		96
50) tert amyl alcohol	11.503	55	13689	93.49	ug/L		94
53) n-butyl alcohol	12.080	56	118916	1066.40	ug/L		95
54) 2,2,4-trimethylpentane	11.750	57	21322	5.60	ug/L	#	75
55) benzene	11.671	78	131980	19.59	ug/L		99
56) tert-amyl methyl ether	11.734	87	17424	13.64	ug/L		99
57) heptane	11.907	71	20739	22.30	ug/L		98
58) isopropyl acetate	11.598	87	11501	21.58	ug/L	#	69
59) 1,2-dichloroethane	11.639	62	45560	17.36	ug/L		97
60) trichloroethene	12.353	130	37434	21.85	ug/L		96
61) ethyl acrylate	12.342	55	57888	18.92	ug/L		97
62) 2-nitropropane	13.003	43	12229	17.14	ug/L		94
63) 2-chloroethyl vinyl ether	13.050	63	88184	68.78	ug/L		98
64) methyl methacrylate	12.588	100	12474	21.06	ug/L	#	81
65) 1,2-dichloropropane	12.573	63	34729	20.52	ug/L		99
66) dibromomethane	12.699	93	24975	21.26	ug/L		95
67) methylcyclohexane	12.604	83	45719	20.86	ug/L		94
68) bromodichloromethane	12.819	83	47145	20.53	ug/L		99
69) epichlorohydrin	13.139	57	22829	74.85	ug/L		92
70) cis-1,3-dichloropropene	13.254	75	55073	20.76	ug/L		92
71) 4-methyl-2-pentanone	13.349	58	78506	82.57	ug/L		92
72) 3-methyl-1-butanol	13.333	70	42644	447.00	ug/L		94
75) toluene	13.616	92	73911	19.75	ug/L		100
76) trans-1,3-dichloropropene	13.752	75	49863	20.69	ug/L		98
77) ethyl methacrylate	13.779	69	47247	19.86	ug/L		93
78) 1,1,2-trichloroethane	13.946	83	27552	21.52	ug/L		96
79) tetrachloroethene	14.161	164	28562	20.64	ug/L		97
80) 1,3-dichloropropane	14.114	76	49626	20.24	ug/L		89
81) 2-hexanone	14.114	58	79609	80.96	ug/L		98
82) butyl acetate	14.198	56	29272	20.44	ug/L		91
83) dibromochloromethane	14.355	129	39442	22.65	ug/L		99
84) 1,2-dibromoethane	14.502	107	50124	25.79	ug/L		100
85) n-butyl ether	14.895	57	107948	17.49	ug/L		97
86) chlorobenzene	14.943	112	82011	20.54	ug/L		95
87) 1,1,1,2-tetrachloroethane	14.985	131	32012	22.05	ug/L		98
88) ethylbenzene	15.006	91	125715	19.23	ug/L		99
89) m,p-xylene	15.100	106	99697	40.92	ug/L		96
90) o-xylene	15.477	106	48201	20.27	ug/L		92
91) styrene	15.472	104	81886	20.64	ug/L		97
92) bromoform	15.682	173	29624	22.56	ug/L		99
93) butyl acrylate	15.299	55	65592	19.19	ug/L		97
94) isopropylbenzene	15.792	105	112171	19.49	ug/L		99
95) cis-1,4-dichloro-2-butene	15.802	88	14673	17.35	ug/L		96
98) bromobenzene	16.133	156	35538	20.28	ug/L		96
99) 1,1,2,2-tetrachloroethane	16.007	83	47145	19.80	ug/L		99
100) trans-1,4-dichloro-2-b...	16.049	53	10414	16.45	ug/L		88
101) 1,2,3-trichloropropane	16.080	110	12677	19.37	ug/L		98
102) n-propylbenzene	16.159	91	128775	18.57	ug/L		99
103) 2-chlorotoluene	16.285	126	30168	20.01	ug/L		88
104) 4-chlorotoluene	16.374	91	81181	18.99	ug/L		98
105) 1,3,5-trimethylbenzene	16.295	105	89886	19.01	ug/L		100
106) tert-butylbenzene	16.620	134	17138	19.62	ug/L	#	79

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\janellac\07-28-2020\v4d4597\
Data File : 4d103625.d
Acq On : 27 Jul 2020 8:27 am
Operator : mariceld
Sample : CC4496-20 Inst : MS4D
Misc : MS44684,V4D4597,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Results File: M4D4496.RES
Quant Time: Jul 27 22:07:02 2020
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 16:28:05 2020
Response via : Initial Calibration

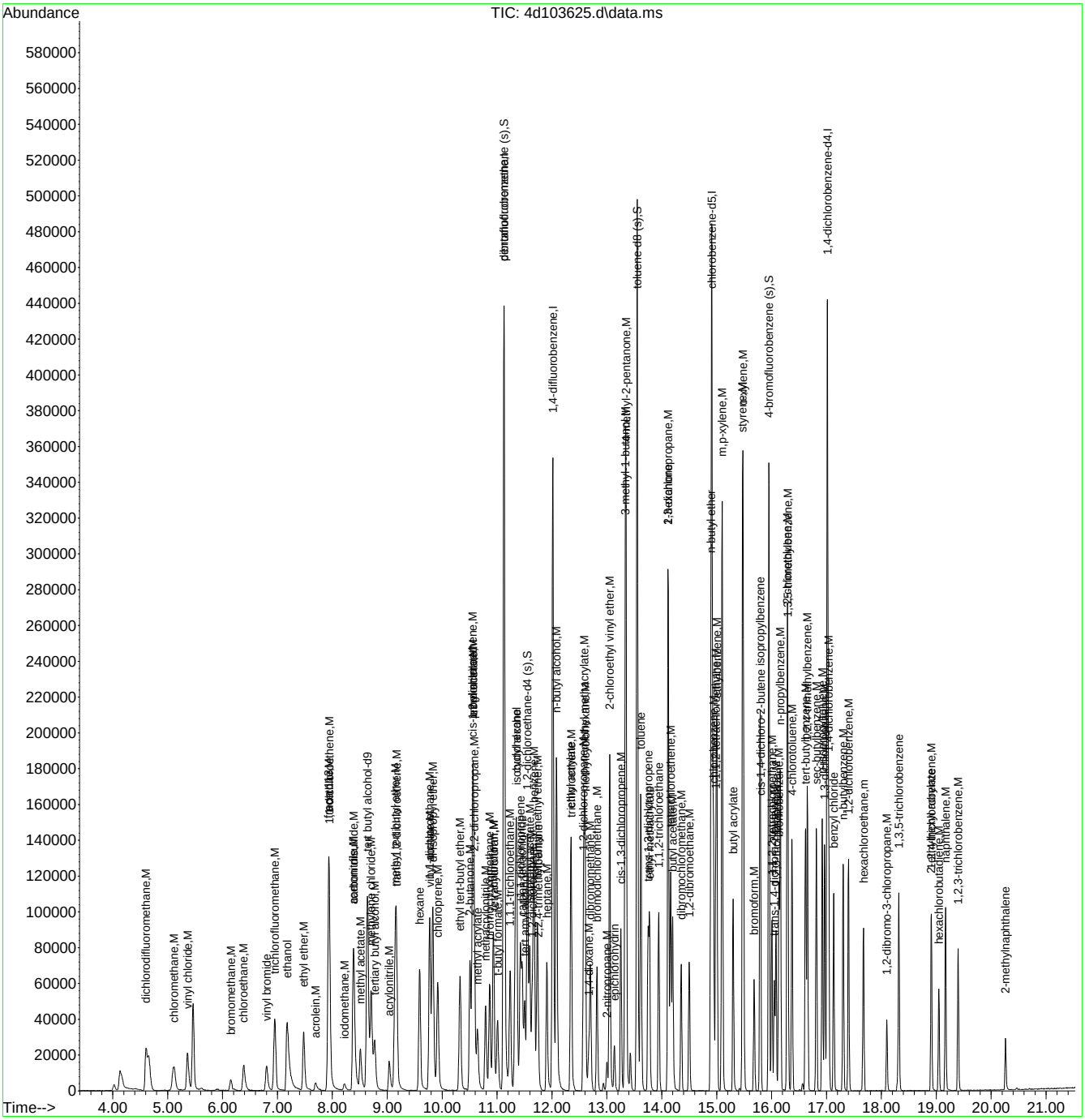
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
107) 1,2,4-trimethylbenzene	16.652	105	90040	18.85	ug/L	98
108) sec-butylbenzene	16.814	105	101180	18.70	ug/L	99
109) 1,3-dichlorobenzene	16.966	146	57003	19.83	ug/L	97
110) p-isopropyltoluene	16.924	119	85500	19.05	ug/L	97
111) 1,4-dichlorobenzene	17.040	146	57843	19.79	ug/L	99
112) benzyl chloride	17.134	91	79259	21.95	ug/L	96
113) 1,2-dichlorobenzene	17.402	146	54099	19.90	ug/L	97
114) n-butylbenzene	17.302	92	39729	19.41	ug/L	96
115) 1,2-dibromo-3-chloropr...	18.099	157	12640	20.14	ug/L	94
116) 1,3,5-trichlorobenzene	18.319	180	35922	20.35	ug/L	99
117) 2-ethylhexyl acrylate	18.906	70	3101	3.98	ug/L	92
118) 1,2,4-trichlorobenzene	18.912	180	29307	19.98	ug/L	98
119) hexachlorobutadiene	19.048	225	12036	18.04	ug/L	98
120) naphthalene	19.168	128	80096	18.99	ug/L	99
121) 1,2,3-trichlorobenzene	19.399	180	25956	19.38	ug/L	97
122) hexachloroethane	17.674	201	15644	19.91	ug/L	99
123) 2-methylnaphthalene	20.259	142	15609	9.30	ug/L	97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\janellac\07-28-2020\v4d4597\
Data File : 4d103625.d
Acq On : 27 Jul 2020 8:27 am
Operator : mariceld
Sample : CC4496-20 Inst : MS4D
Misc : MS44684,V4D4597,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Results File: M4D4496.RES
Quant Time: Jul 27 22:07:02 2020
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 16:28:05 2020
Response via : Initial Calibration



GCMS Volatile Run Log

Standard / Reagents	Lot #					
Standards	ABK: V020-2701-136.40	EC: V020-2703-13.9	Acrolein: V020-2703-9.25	EXT Chlorodifluoromethane	Column	ZB-624(60mx0.25mmx1.4um)
Standard Concentration	100-10,000 ppm	100 ppm	100ppm	100ppm	Method	V8260C
Expiration Date	7/24/2020	7/17/2020	8/6/2020	7/30/2020	Init Calib Date	7/14/2020
Standards	Ext. ABK: V020-2703-6.4	Ext. EC: V020-2703-17.1	Ext. Acrolein: V020-2703-7.2	Ext. PA: V020-2703-8.1		
Standard Concentration	100-10,000 ppm	100 ppm	100 ppm	100-1,000 ppm	Analysis Date	7/14/2020
Expiration Date	8/6/2020	7/21/2020	8/6/2020	8/6/2020	Sequence loaded by	Brittany Klimek
Internal Surrogate	V020-2703-15				Data processed by	Bridget Kelly
Internal Surrogate Concentration	250/2,500 ppm				Batch ID	V2E8157
Expiration Date	8/13/2020				Matrix	AQ
					Approved By:	KANYAV
			Initial Calibration Method	M2E8157	Approved Date:	7/16/2020 3:01:19 AM

Data File		Sample ID	Bot #	Dil	Workgroup #	Test	Purge Vol (ml)	CL	pH	ALS #	Status	Comments
2E	162814	IB		NA			5			1	ok	
2E	162815	BFB		NA			5			2	ok	7/14/2020; 5:48PM.
2E	162816	IC8157-0.2		NA		IC 8206 AQ	5			3	ok	0.2uL ABK, EC, Acrolein/100mL DI H2O.
2E	162817	IC8157-0.5		NA		IC 8206 AQ	5			4	ok	0.5uL ABK, EC, Acrolein/100mL DI H2O.
2E	162818	IC8157-1		NA		IC 8206 AQ	5			5	ok	1uL ABK, EC, Acrolein/100mL DI H2O.
2E	162819	IC8157-2		NA		IC 8206 AQ	5			6	ok	2uL ABK, EC, Acrolein/100mL DI H2O.
2E	162820	IC8157-4		NA		IC 8206 AQ	5			7	ok	4uL ABK, EC, Acrolein/100mL DI H2O.
2E	162821	IC8157-8		NA		IC 8206 AQ	5			8	ok	8uL ABK, EC, Acrolein/100mL DI H2O.
2E	162822	IC8157-20		NA		IC 8206 AQ	5			9	ok	20uL ABK, EC, Acrolein/100mL DI H2O.
2E	162823	ICC8157-50		NA		ICC 8206 AQ	5			10	ok	50uL ABK, EC, Acrolein/100mL DI H2O.
2E	162824	IC8157-100		NA		IC 8206 AQ	5			11	ok	100uL ABK, EC, Acrolein/100mL DI H2O.

Data File		Sample ID	Bot #	Dil	Workgroup #	Test	Purge Vol (ml)	CL	pH	ALS #	Status	Comments
2E	162825	IC8157-200		NA		IC 8206 AQ	5			12	ok	200uL ABK, EC, Acrolein/100mL DI H2O.
2E	162826	IB		NA			5			13	ok	
2E	162827	IB		NA			5			14	ok	
2E	162828	ICV8157-50		NA		IC 8206 AQ	5			15	ok	50uL Ext. ABK, EC, Acrolein/100mL DI H2O.
2E	162829	ICV8157-50		NA		IC 8206 AQ	5			16	ok	50uL Ext. PA/100mL DI H2O.
2E	162830	IB		NA			5			17	ok	
2E	162832	IB		NA			5			1	ok	*Analyst skipped 2E162831
2E	162833	BFB2		NA			5			2	ok	
2E	162834	ICV8157-50		NA			5			3	ok	50 uL EXT Chlorodifluoromethane / 100 mL

GCMS Volatile Run Log

Standard / Reagents	Lot #					
Standards	ABK: V020-2701-136.61	EC: V020-2703-25.9	Acrolein: V020-2703-09.23		Column	ZB-624(60mx0.25mmx1.4um)
Standard Concentration	100ppm-10,000ppm	100ppm	100ppm		Method	V8260C
Expiration Date	07/24/2020	07/23/2020	08/06/2020		Init Calib Date	07/14/2020
Internal Surrogate	V020-2703-15					
Internal Surrogate Concentration	250/2,500 ppm				Analysis Date	7/20/2020
Expiration Date	08/13/2020				Sequence loaded by	Krizhka Cuenta
					Data processed by	Lotusa/kristelv
					Batch ID	V2E8165
					Matrix	AQ
Rough reviewed by	Krizhka				Approved By:	MOHUI
pH Paper Lot# (wide range):	221419	Exp. 8/1/2022	Initial Calibration Method	M2E8157	Approved Date:	7/21/2020 1:06:39 PM

Data File		Sample ID	Bot #	Dil	Workgroup #	Test	Purge Vol (ml)	CL	pH	ALS #	Status	Comments
2E	162966	IB		NA			5			1	OK	
2E	162967	CC8157-20		NA			5			2	ng	20uL ABK, EC, Acrolein/100mL (failed low)
2E	162968	IB		NA			5			3	OK	
2E	162969	BFB/CC8157-20		NA			5			4	OK/OK	20uL ABK, EC, Acrolein/100mL (11:05 am)
2E	162970	BS		NA			5			5	OK	25uL ABK, EC, Acrolein/50mL
2E	162971	BSD		NA			5			6	OK	25uL ABK, EC, Acrolein/50mL
2E	162972	IB		NA			5			7	OK	
2E	162973	MB		NA			5			8	OK	
2E	162974	JD10105-3	2	NA	MS44467	V8260PPTCL42+, MPXYL, NAP, OXYL,	5		1	9	OK	
2E	162975	JD9724-3	13	NA	MS44329	V8260TCL20	5		1	10	OK	
2E	162976	JD10105-2	2	NA	MS44467	V8260PPTCL42+, MPXYL, NAP, OXYL,	5		1	11	OK	

Data File		Sample ID	Bot #	Dil	Workgroup #	Test	Purge Vol (ml)	CL	pH	ALS #	Status	Comments
2E	162977	JD9724-4	13	20X	MS44329	V8260TCL20	2.5/50		5	12	OK	cfi; +2E162863
2E	162978	JD10196-7	3	100X	MS44511	V8260MCP	0.50/50		1	13	OK	l/d 10x
2E	162979	JD10196-7	3	10X	MS44511	V8260MCP	5/50		1	14	OK	+2E162978
2E	162980	JD10196-7MS	3	10X	MS44511	V8260MCP	5/50		1	15	OK	25uL ABK, EC, Acrolein/50mL
2E	162981	JD10196-7MSD	3	10X	MS44511	V8260MCP	5/50		1	16	OK	25uL ABK, EC, Acrolein/50mL
2E	162982	IB		NA			5			17	OK	
2E	162983	JD10241-10	1	NA	MS44522	V8260STD	5		1	18	OK	
2E	162984	JD10241-11	1	NA	MS44522	V8260STD	5		1	19	OK	
2E	162985	JD10241-1	1	NA	MS44522	V8260STD	5		1	20	OK	
2E	162986	JD10241-3	1	NA	MS44522	V8260STD	5		1	21	OK	
2E	162987	JD10241-4	1	NA	MS44522	V8260STD	5		1	22	OK	
2E	162988	JD10241-6	1	NA	MS44522	V8260STD	5		1	23	rr	f/d 10x
2E	162989	JD10241-9	1	NA	MS44522	V8260STD	5		1	24	OK	
2E	162990	JD10241-12	1	NA	MS44522	V8260STD	5		1	25	OK	
2E	162991	JD10241-5	1	10X	MS44522	V8260STD	5/50		1	26	OK	
2E	162992	JD10241-7	1	20X	MS44522	V8260STD	2.5/50		1	27	RR	10:49 pm; l/d 1x
2E	162993	IB		NA			5			28	OK	

GCMS Volatile Run Log

Standard / Reagents	Lot #				Column	DB-624(60mx0.25mmx1.4um)
Standards	ABK:V020-2701-04.55	EC:V020-2701-23.8	Acrolein:V020-2701-12.21		Method	V8260C
Standard Concentrations	100 ppm-10,000 ppm	100 ppm	100 ppm		Init Calib Date	4/16/2020
Expiration Date	4/30/2020	4/21/2020	5/2/2020			
Internal Surrogate	V020-2701-27					
Internal Surrogate Concentration	50/500ppm				Analysis Date	4/16/2020
Expiration Date	5/14/2020				Sequence loaded by	Robert Szot
					Data processed by	Robert Szot
					Batch ID	V4D4496
Initial Calibration Method	M4D4496				Matrix	AQ
pH Paper Lot# (Wide range)					Approved By:	KANYAV
Expiration Date	8/1/2022				Approved Date:	4/17/2020 9:06:11 PM

Data File		Sample ID	Bot #	Dil	Workgroup #	Test	Purge Vol (ml)	CL	pH	ALS #	Status	Comments
4D	101403	BFB		NA			5			1	ok	3:37 pm
4D	101404	IC4496-0.2		NA		8260 initial calibration	5			2	ok	1 uL ABK, EC, Acrolein / 500 mL DI H2O
4D	101405	IC4496-0.5		NA		8260 initial calibration	5			3	ok	2.5 uL ABK, EC, Acrolein / 500 mL DI H2O
4D	101406	IC4496-1		NA		8260 initial calibration	5			4	ok	5 uL ABK, EC, Acrolein / 500 mL DI H2O
4D	101407	IC4496-2		NA		8260 initial calibration	5			5	ok	10 uL ABK, EC, Acrolein / 500 mL DI H2O
4D	101408	IC4496-4		NA		8260 initial calibration	5			6	ok	20 uL ABK, EC, Acrolein / 500 mL DI H2O
4D	101409	IC4496-8		NA		8260 initial calibration	5			7	ok	40 uL ABK, EC, Acrolein / 500 mL DI H2O
4D	101410	IC4496-20		NA		8260 initial calibration	5			8	ok	40 uL ABK, EC, Acrolein / 200 mL DI H2O
4D	101411	ICC4496-50		NA		8260 initial calibration	5			9	ok	100 uL ABK, EC, Acrolein / 200 mL DI H2O
4D	101412	IC4496-100		NA		8260 initial calibration	5			10	ok	200 uL ABK, EC, Acrolein / 200 mL DI H2O
4D	101413	IC4496-200		NA		8260 initial calibration	5			11	ok	400 uL ABK, EC, Acrolein / 200 mL DI H2O

Data File		Sample ID	Bot #	Dil	Workgroup #	Test	Purge Vol (ml)	CL	pH	ALS #	Status	Comments
4D	101414	IB		NA			5			12	ok	
4D	101415	IB		NA			5			13	ok	
4D	101416	ICV4496-50		NA		8260 initial calibration	5			14	ok	100 uL Ext ABK, Ext EC, Ext Acrolein / 200 mL DI H2O
4D	101417	ICV4496-50		NA		8260 initial calibration	5			15	ok	100 uL Ext PA / 200 mL DI H2O

GCMS Volatile Run Log

Standard / Reagents	Lot #					
Standards	ABK: V020-2703-35.10	EC: V020-2703-31.5	Acrolein: V020-2703-09.36		Column	DB-624(60mx0.25mmx1.4um)
Standard Concentration	100ppm-10,000ppm	100ppm	100ppm		Method	V8260C
Expiration Date	08/24/2020	07/30/2020	08/06/2020		Init Calib Date	04/16/2020
Internal Surrogate	V020-2703-16					
Internal Surrogate Concentration	50/500ppm				Analysis Date	7/27/2020
Expiration Date	8/13/2020				Sequence loaded by	Krizhka Cuenta
					Data processed by	janellec
					Batch ID	V4D4597
					Matrix	AQ
Rough reviewed by	Krizhka				Approved By:	MEI
pH Paper Lot# (wide range):	221419	Exp. 8/1/2022	Initial Calibration Method	M4D4496	Approved Date:	7/28/2020 11:49:10 AM

Data File		Sample ID	Bot #	Dil	Workgroup #	Test	Purge Vol (ml)	CL	pH	ALS #	Status	Comments
4D	103624	IB		NA			5			1	OK	
4D	103625	BFB/CC4496-20		NA			5			2	OK/OK	20uL ABK, EC, Acrolein/100mL (8:27 am) #10 low, #84 high
4D	103626	CC4496-2		NA			5			3	OK	2uL ABK, EC, Acrolein/100mL
4D	103627	BS		NA			5			4	OK	50uL ABK, EC, Acrolein/100mL #84 high
4D	103628	IB		NA			5			5	OK	
4D	103629	MB		NA			5			6	OK	
4D	103630	JD10241-2	2	NA	MS44522	V8260STD	5		1	7	OK	
4D	103631	JD10241-7	2	NA	MS44522	V8260STD	5		1	8	OK	+2E162992
4D	103632	JD10241-8	2	NA	MS44522	V8260STD	5		1	9	OK	
4D	103633	JD10241-6	2	10X	MS44522	V8260STD	5/50		1	10	OK	+2E162988
4D	103634	JD10484-10	6	NA	MS44632	V8260NJTCL20+	5		1	11	OK	+2E163104

Data File		Sample ID	Bot #	Dil	Workgroup #	Test	Purge Vol (ml)	CL	pH	ALS #	Status	Comments
4D	103635	JD10484-12	6	NA	MS44632	V8260NJTCL20+	5		1	12	OK	
4D	103636	JD10484-8	6	20X	MS44632	V8260NJTCL20+	2.5/50		1	13	OK	+2E163102
4D	103637	JD10484-7	6	5X	MS44632	V8260NJTCL20+	10/50		1	14	OK	+2E163094
4D	103638	JD10484-9	6	5X	MS44632	V8260NJTCL20+	10/50		1	15	OK	+2E163103
4D	103639	JD10484-11	6	2X	MS44632	V8260NJTCL20+	25/50		1	16	OK	+2E163105
4D	103640	JD10241-2MS	3	NA	MS44522	V8260STD	5		1	17	OK	20uL ABK, EC, Acrolein/40mL sample
4D	103641	JD10241-2MSD	4	NA	MS44522	V8260STD	5		1	18	OK	20uL ABK, EC, Acrolein/40mL sample
4D	103642	IB		NA			5			19	OK	
4D	103643	JD10608-1	1	NA	MS44703	V8260TCL20+	5		1	20	OK	
4D	103644	JD10608-7	1	NA	MS44703	V8260TCL20+	5		1	21	OK	
4D	103645	JD10608-2	1	NA	MS44703	V8260TCL20+	5		1	22	OK	
4D	103646	JD10608-3	1	NA	MS44703	V8260TCL20+	5		1	23	OK	
4D	103647	JD10608-4	1	100X	MS44703	V8260TCL20+	0.50/50		1	24	rr	l/d 25x (to push)
4D	103648	JD10608-5	1	NA	MS44703	V8260TCL20+	5		5	25	OK	8:05PM
4D	103649	JD10608-6	1	NA	MS44703	V8260TCL20+	5		1	26	RR	Out of BFB time, RR 1X. (8:35PM)
4D	103650	IB		NA			5			27	OK	
4D	103651	IB		NA			5			28	OK	

1,4-Dioxane Lab Report

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Ensafe, Inc

Former Carlysle Compressor, Syracuse, NY

Carrier Corporation 888814574 Phase:006

SGS Job Number: JD10244

Sampling Date: 07/15/20



Report to:

Ensafe, Inc
5724 Summer Trees Drive
Memphis, TN 38134
MHeflin@Ensafe.com; Nelson.Wong@Carrier.UTC.com;
TCantwell@Ensafe.com; SGoodnight@Ensafe.com;
ATTN: May Heflin

Total number of pages in report: **147**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Hemex Patel
Appointed Deputy for GM

Client Service contact: Beth Wasserman 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TX, UT, VA, WV, DoD ELAP (ANAB L2248)

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how we can serve you better at:
EHS.US.CustomerCare@sgs.com

August 05, 2020

Ms. May Heflin
Ensafe, Inc.
5724 Summer Trees Drive
Memphis, TN 38134

RE: SGS – Dayton, Job # JD10244 – Reissues

Dear Ms. Heflin,

The final report for SGS jobs number JD10244 has been edited to reflect corrections to the final results. These edits have been incorporated into the revised report which is attached.

Specifically, this report has been upgraded to full deliverable report to including all associated QCs raw data. The attached revised report incorporates these revisions.

SGS apologizes for this occurrence and for any inconvenience this situation may have caused. Please contact me if I can be of further assistance in this matter.

Sincerely,

Report Department

SGS North America Inc.



CONTINUOUS SERVICE IMPROVEMENT!

Our goal is to continuously improve our service to you. Please share your ideas about how we can serve you better at EHS.US.CustomerCare@sgs.com. Your feedback is appreciated!

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SGS North America Inc.

Sample Summary

Ensafe, Inc

Job No: JD10244

Former Carlysle Compressor, Syracuse, NY
Project No: Carrier Corporation 888814574 Phase:006

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
This report contains results reported as ND = Not detected. The following applies:							
Organics ND = Not detected above the MDL							
JD10244-1	07/15/20	10:40	MG	07/16/20	AQ	Ground Water	CC1MW01G0720
JD10244-1R	07/15/20	10:40	MG	07/16/20	AQ	Ground Water	CC1MW01G0720
JD10244-2	07/15/20	12:35	MG	07/16/20	AQ	Ground Water	CC1MW106G0720
JD10244-3	07/15/20	13:00	MG	07/16/20	AQ	Ground Water	CC1MW106H0918
JD10244-4	07/15/20	11:30	MG	07/16/20	AQ	Equipment Blank	CC1EB01E0720
JD10244-5	07/15/20	13:10	MG	07/16/20	AQ	Field Blank Water	CC1FB02F0720

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Ensafe, Inc	**Job No**	JD10244
Site:	Former Carlysle Compressor, Syracuse, NY	**Report Date**	8/5/2020 1:15:19 PM

On 07/16/2020, 4 Sample(s), 0 Trip Blank(s) and 1 Field Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of 3.6 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JD10244 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

MS Semi-volatiles By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP28540A

- All samples were extracted within the recommended method holding time.
- Sample(s) JD10207-1MS, JD10207-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS North America Inc indicated via signature on the report cover

Summary of Hits

Job Number: JD10244
Account: Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY
Collected: 07/15/20

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD10244-1	**CC1MW01G0720**					
1,4-Dioxane		0.106	0.10	0.050	ug/l	SW846 8270D BY SIM
JD10244-2	**CC1MW106G0720**					
1,4-Dioxane		0.914	0.10	0.050	ug/l	SW846 8270D BY SIM
JD10244-3	**CC1MW106H0918**					
1,4-Dioxane		0.951	0.10	0.050	ug/l	SW846 8270D BY SIM
JD10244-4	**CC1EB01E0720**					
No hits reported in this sample.						
JD10244-5	**CC1FB02F0720**					
No hits reported in this sample.						

Sample Results

Report of Analysis

SGS North America Inc.

Report of Analysis

Client Sample ID:	CC1MW01G0720		
Lab Sample ID:	JD10244-1	**Date Sampled:**	07/15/20
Matrix:	AQ - Ground Water	**Date Received:**	07/16/20
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	Former Carlysle Compressor, Syracuse, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M94087.D	1	07/23/20 08:35	CS	07/22/20 08:00	OP28540A	E4M4348
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	0.106	0.10	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	75%		29-124%
321-60-8	2-Fluorobiphenyl	75%		23-122%
1718-51-0	Terphenyl-d14	83%		22-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID: CC1MW106G0720
Lab Sample ID: JD10244-2
Matrix: AQ - Ground Water
Method: SW846 8270D BY SIM SW846 3510C
Project: Former Carlysle Compressor, Syracuse, NY

Date Sampled: 07/15/20
Date Received: 07/16/20
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M94083.D	1	07/23/20 07:10	CS	07/22/20 08:00	OP28540A	E4M4348
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	0.914	0.10	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	65%		29-124%
321-60-8	2-Fluorobiphenyl	68%		23-122%
1718-51-0	Terphenyl-d14	74%		22-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID: CC1MW106H0918
Lab Sample ID: JD10244-3
Matrix: AQ - Ground Water
Method: SW846 8270D BY SIM SW846 3510C
Project: Former Carlysle Compressor, Syracuse, NY

Date Sampled: 07/15/20
Date Received: 07/16/20
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M94084.D	1	07/23/20 07:32	CS	07/22/20 08:00	OP28540A	E4M4348
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	0.951	0.10	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	68%		29-124%
321-60-8	2-Fluorobiphenyl	70%		23-122%
1718-51-0	Terphenyl-d14	80%		22-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID: CC1EB01E0720
Lab Sample ID: JD10244-4
Matrix: AQ - Equipment Blank
Method: SW846 8270D BY SIM SW846 3510C
Project: Former Carlysle Compressor, Syracuse, NY

Date Sampled: 07/15/20
Date Received: 07/16/20
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M94085.D	1	07/23/20 07:52	CS	07/22/20 08:00	OP28540A	E4M4348
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	0.10	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	71%		29-124%
321-60-8	2-Fluorobiphenyl	70%		23-122%
1718-51-0	Terphenyl-d14	81%		22-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	CC1FB02F0720		
Lab Sample ID:	JD10244-5	**Date Sampled:**	07/15/20
Matrix:	AQ - Field Blank Water	**Date Received:**	07/16/20
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	Former Carlysle Compressor, Syracuse, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M94086.D	1	07/23/20 08:13	CS	07/22/20 08:00	OP28540A	E4M4348
Run #2							

	Initial Volume	Final Volume
Run #1	900 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	0.11	0.056	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	69%		29-124%
321-60-8	2-Fluorobiphenyl	69%		23-122%
1718-51-0	Terphenyl-d14	82%		22-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody

1207 0571 - W11 BW-00M20-144 JV 10644

ENSAFE

EnSafe Inc.
800-588-7962

CHAIN OF CUSTODY AND ANALYTICAL REQUEST RECORD CHAIN OF CU...

COC No: 001 Page: 1 of 1

Project Name: UTC - Former Carlysle Compressor (Syracuse, NY) UTC - Form...

PO No: Project No: 888814574 Phase: 006

Site Location: Syracuse, New York

Send Results To: mheflin@ensafe.com; sgoodnight@ensafe.com; tclemmey@ensafe.com

Sample Analysis Requested (*Enter number of containers for each test*)

Sampler/Site Phone# Marshall Gibson 603.770.4444

Lab Name: SGS New Jersey Turnaround Time(specify): Standard

(3)→

Lab ID	Sample ID (sys_samp_code)	Location ID (sys_loc_code)	(mm/dd/yy)	Time (Military) (hhmm)	Matrix Code (1)	Sample Type (2)	Field Filtered (Y/N)	Total No. of Containers	1,4-Dioxane SW 846 8270_SIM	Extra Volume for MS/MSD	HOLD
1	CC1MW01G0720	MW01	7/15/2020	1040	WG	N	N	6	X	X	
2	CC1MW106G0720	MW106	7/15/2020	1235	WG	N	N	2	x		
3	CC1MW106H0918	MW106	7/15/2020	1300	WG	FD	N	2	x		
4	CC1EB01E0720	MW01	7/15/20	1130	WQ	EB	N	2	x		
5	CC1FB02F0720	MW106	7/15/20	1310	WQ	FB	N	2	x		

Initial Assessment JB

Label Verification

***Field* Comments:**

***Lab* Comments:**

Sample Shipment and Delivery Details

Number of coolers in shipment:

Samples Iced?(check) Yes ✓ No

Method of Shipment: 3.9°C

Airbill No: FD

Date Shipped:

	Relinquished by (signature)	Date	Time	Received by (signature)	Date	Time
1		7/15/20	1530		7/15/20	1530
2		7/15/20	1710			
3	M.FGE	7/16/20	1000			

(1) **Matrix Code:** AA=Air, AQ=Air QC Matrix, CK=Caulk, GS=Soil Gas, LF=Free Product, LH=Liquid Waste, MS=Mastic, OIl=Oil, PT=Paint, SC=Cement/Concrete, SE=Sediment, SF=Filter Sandpack, SL=Sludge, SM=Miscellaneous Solid/Building Materials, SO=Soil, SQ=Soil/Solid QC Matrix, ST=Solid Waste, SW=Swab/Wipe, TA=Animal Tissue, TP=Plant Tissue, WG=Ground Water, WL=Leachate, WO=Ocean Water, WP=Drinking Water, WQ=Water QC Matrix, WS=Surface Water, SU=Storm Water, WW=Waste Water

(2) **Sample Type:** AB=Ambient Blank, EB=Equipment Blank, FB=Field Blank, FD=Field Duplicate Sample, FR=Field Replicate, MB=Material Blank, N=Normal Environmental Sample, RB=Material Rinse Blank, TB=Trip Blank

(3) **Preservative added:** HA=Hydrochloric Acid, NI=Nitric Acid, SH=Sodium Hydroxide, SA=Sulfuric Acid, AA=Ascorbic Acid, HX=Hexane, ME=Methanol, SB=sodium bisulfate, ST=Sodium Thiosulfate, If **NO preservative** added leave blank

Rev. 12/12

3.6°C IP IR-4

JD10244: Chain of Custody
Page 1 of 3

SGS Sample Receipt Summary

Job Number: JD10244 **Client:** ENSAFE **Project:** ENSTNN: FORMER CARLYSLE COMPRESSOR,

Date / Time Received: 7/16/2020 10:00:00 AM **Delivery Method:** **Airbill #'s:**

Cooler Temps (Raw Measured) °C: Cooler 1: (3.9); Cooler 2: (3.6);

Cooler Temps (Corrected) °C: Cooler 1: (3.6); Cooler 2: (3.3);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR Gun		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	2		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☑	☐
2. Trip Blank listed on COC:	☐		☑	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 229517 pH 12+: 208717 Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17

JD10244: Chain of Custody
Page 2 of 3

Job Change Order: JD10244

Requested Date:	8/5/2020	**Received Date:**	7/16/2020
Account Name:	Raytheon Technologies Corporati	**Due Date:**	7/30/2020
Project Description:	ENSTNN: Former Carlysle Compressor, Syracuse,	**Deliverable:**	COMMB
C/O Initiated By:	BW **PM:** BW	**TAT (Days):**	14

==========

Sample #: JD10244-All

Dept:

TAT: 14

Change:
Move to ENSCTN86805. Upgrade deliverable to FULT1 and reissue report.

==========

Above Changes Per: Shane Goodnight **Date/Time:** 8/5/2020 9:15:40 AM

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

Page 1 of 1

JD10244: Chain of Custody
Page 3 of 3

Internal Sample Tracking Chronicle

Ensafe, Inc

Job No: JD10244

Former Carlysle Compressor, Syracuse, NY
Project No: Carrier Corporation 888814574 Phase:006

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD10244-1	Collected: 15-JUL-20 10:40 By: MG			Received: 16-JUL-20	By: JP	
CC1MW01G0720						
JD10244-1	SW846 8270D BY SIM	23-JUL-20 08:35	CS	22-JUL-20	VP	B8270SIM14DIOX
JD10244-2	Collected: 15-JUL-20 12:35 By: MG			Received: 16-JUL-20	By: JP	
CC1MW106G0720						
JD10244-2	SW846 8270D BY SIM	23-JUL-20 07:10	CS	22-JUL-20	VP	B8270SIM14DIOX
JD10244-3	Collected: 15-JUL-20 13:00 By: MG			Received: 16-JUL-20	By: JP	
CC1MW106H0918						
JD10244-3	SW846 8270D BY SIM	23-JUL-20 07:32	CS	22-JUL-20	VP	B8270SIM14DIOX
JD10244-4	Collected: 15-JUL-20 11:30 By: MG			Received: 16-JUL-20	By: JP	
CC1EB01E0720						
JD10244-4	SW846 8270D BY SIM	23-JUL-20 07:52	CS	22-JUL-20	VP	B8270SIM14DIOX
JD10244-5	Collected: 15-JUL-20 13:10 By: MG			Received: 16-JUL-20	By: JP	
CC1FB02F0720						
JD10244-5	SW846 8270D BY SIM	23-JUL-20 08:13	CS	22-JUL-20	VP	B8270SIM14DIOX

SGS Internal Chain of Custody

Job Number: JD10244
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY
Received: 07/16/20

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD10244-1.4	Secured Storage	Omar Khalid	07/21/20 17:30	Retrieve from Storage
JD10244-1.4	Omar Khalid	Secured Staging Area	07/21/20 17:30	Return to Storage
JD10244-1.4	Secured Staging Area	Vikas Parikh	07/22/20 06:26	Retrieve from Storage
JD10244-1.4	Vikas Parikh		07/27/20 10:22	Depleted
JD10244-1.4.1	Vikas Parikh	Organics Prep	07/22/20 06:26	Extract from JD10244-1.4
JD10244-1.4.1	Organics Prep	Vikas Parikh	07/22/20 17:20	Extract from JD10244-1.4
JD10244-1.4.1	Vikas Parikh	Extract Storage	07/22/20 17:20	Return to Storage
JD10244-1.4.1	Extract Storage	Christopher Sowa	07/23/20 00:48	Retrieve from Storage
JD10244-1.4.1	Christopher Sowa	GCMS4M	07/23/20 00:48	Load on Instrument
JD10244-1.4.1	GCMS4M	Angela Rastelli	07/23/20 10:48	Unload from Instrument
JD10244-1.4.1	Angela Rastelli	Extract Freezer	07/23/20 10:48	Return to Storage
JD10244-2.1	Secured Storage	Omar Khalid	07/21/20 17:30	Retrieve from Storage
JD10244-2.1	Omar Khalid	Secured Staging Area	07/21/20 17:30	Return to Storage
JD10244-2.1	Secured Staging Area	Vikas Parikh	07/22/20 06:26	Retrieve from Storage
JD10244-2.1	Vikas Parikh		07/27/20 10:22	Depleted
JD10244-2.1.1	Vikas Parikh	Organics Prep	07/22/20 06:26	Extract from JD10244-2.1
JD10244-2.1.1	Organics Prep	Vikas Parikh	07/22/20 17:20	Extract from JD10244-2.1
JD10244-2.1.1	Vikas Parikh	Extract Storage	07/22/20 17:20	Return to Storage
JD10244-2.1.1	Extract Storage	Christopher Sowa	07/23/20 00:48	Retrieve from Storage
JD10244-2.1.1	Christopher Sowa	GCMS4M	07/23/20 00:48	Load on Instrument
JD10244-2.1.1	GCMS4M	Angela Rastelli	07/23/20 10:48	Unload from Instrument
JD10244-2.1.1	Angela Rastelli	Extract Freezer	07/23/20 10:48	Return to Storage
JD10244-3.2	Secured Storage	Omar Khalid	07/21/20 17:30	Retrieve from Storage
JD10244-3.2	Omar Khalid	Secured Staging Area	07/21/20 17:30	Return to Storage
JD10244-3.2	Secured Staging Area	Vikas Parikh	07/22/20 06:26	Retrieve from Storage
JD10244-3.2	Vikas Parikh		07/27/20 10:22	Depleted
JD10244-3.2.1	Vikas Parikh	Organics Prep	07/22/20 06:26	Extract from JD10244-3.2
JD10244-3.2.1	Organics Prep	Vikas Parikh	07/22/20 17:20	Extract from JD10244-3.2
JD10244-3.2.1	Vikas Parikh	Extract Storage	07/22/20 17:20	Return to Storage
JD10244-3.2.1	Extract Storage	Christopher Sowa	07/23/20 00:48	Retrieve from Storage
JD10244-3.2.1	Christopher Sowa	GCMS4M	07/23/20 00:48	Load on Instrument
JD10244-3.2.1	GCMS4M	Angela Rastelli	07/23/20 10:48	Unload from Instrument
JD10244-3.2.1	Angela Rastelli	Extract Freezer	07/23/20 10:48	Return to Storage
JD10244-4.2	Secured Storage	Omar Khalid	07/21/20 17:30	Retrieve from Storage
JD10244-4.2	Omar Khalid	Secured Staging Area	07/21/20 17:30	Return to Storage
JD10244-4.2	Secured Staging Area	Vikas Parikh	07/22/20 06:26	Retrieve from Storage
JD10244-4.2	Vikas Parikh		07/27/20 10:22	Depleted

SGS Internal Chain of Custody

Job Number: JD10244
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY
Received: 07/16/20

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD10244-4.2.1	Vikas Parikh	Organics Prep	07/22/20 06:26	Extract from JD10244-4.2
JD10244-4.2.1	Organics Prep	Vikas Parikh	07/22/20 17:20	Extract from JD10244-4.2
JD10244-4.2.1	Vikas Parikh	Extract Storage	07/22/20 17:20	Return to Storage
JD10244-4.2.1	Extract Storage	Christopher Sowa	07/23/20 00:48	Retrieve from Storage
JD10244-4.2.1	Christopher Sowa	GCMS4M	07/23/20 00:48	Load on Instrument
JD10244-4.2.1	GCMS4M	Angela Rastelli	07/23/20 10:48	Unload from Instrument
JD10244-4.2.1	Angela Rastelli	Extract Freezer	07/23/20 10:48	Return to Storage
JD10244-5.2	Secured Storage	Omar Khalid	07/21/20 17:30	Retrieve from Storage
JD10244-5.2	Omar Khalid	Secured Staging Area	07/21/20 17:30	Return to Storage
JD10244-5.2	Secured Staging Area	Vikas Parikh	07/22/20 06:26	Retrieve from Storage
JD10244-5.2	Vikas Parikh		07/27/20 10:22	Depleted
JD10244-5.2.1	Vikas Parikh	Organics Prep	07/22/20 06:26	Extract from JD10244-5.2
JD10244-5.2.1	Organics Prep	Vikas Parikh	07/22/20 17:20	Extract from JD10244-5.2
JD10244-5.2.1	Vikas Parikh	Extract Storage	07/22/20 17:20	Return to Storage
JD10244-5.2.1	Extract Storage	Christopher Sowa	07/23/20 00:48	Retrieve from Storage
JD10244-5.2.1	Christopher Sowa	GCMS4M	07/23/20 00:48	Load on Instrument
JD10244-5.2.1	GCMS4M	Angela Rastelli	07/23/20 10:48	Unload from Instrument
JD10244-5.2.1	Angela Rastelli	Extract Freezer	07/23/20 10:48	Return to Storage

MS Semi-volatiles

6

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (DFTPP)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries
- Run Sequence Reports

Method Blank Summary

Job Number: JD10244
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP28540A-MB1	4M94065.D	1	07/23/20	CS	07/22/20	OP28540A	E4M4348

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

JD10244-1, JD10244-2, JD10244-3, JD10244-4, JD10244-5

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	0.10	0.050	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	68%	15-110%
4165-62-2	Phenol-d5	71%	12-110%
118-79-6	2,4,6-Tribromophenol	82%	32-143%
4165-60-0	Nitrobenzene-d5	78%	29-124%
321-60-8	2-Fluorobiphenyl	75%	23-122%
1718-51-0	Terphenyl-d14	87%	22-130%

Blank Spike Summary

Job Number: JD10244
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP28540A-BS12	4M94066.D	1	07/23/20	CS	07/22/20	OP28540A	E4M4348

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

JD10244-1, JD10244-2, JD10244-3, JD10244-4, JD10244-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
123-91-1	1,4-Dioxane	1	0.570	57	10-110

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	74%	15-110%
4165-62-2	Phenol-d5	70%	12-110%
118-79-6	2,4,6-Tribromophenol	87%	32-143%
4165-60-0	Nitrobenzene-d5	78%	29-124%
321-60-8	2-Fluorobiphenyl	75%	23-122%
1718-51-0	Terphenyl-d14	90%	22-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD10244
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP28540A-MSA	4M94078.D	1	07/23/20	CS	07/22/20	OP28540A	E4M4348
OP28540A-MSDA	4M94079.D	1	07/23/20	CS	07/22/20	OP28540A	E4M4348
JD10207-1	4M94077.D	1	07/23/20	CS	07/22/20	OP28540A	E4M4348

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

JD10244-1, JD10244-2, JD10244-3, JD10244-4, JD10244-5

CAS No.	Compound	JD10207-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
123-91-1	1,4-Dioxane	0.593		1	1.13	54	1	1.19	60	5	10-125/46

CAS No.	Surrogate Recoveries	MS	MSD	JD10207-1	Limits
367-12-4	2-Fluorophenol	64%	68%	66%	15-110%
4165-62-2	Phenol-d5	65%	69%	68%	12-110%
118-79-6	2,4,6-Tribromophenol	89%	88%	88%	32-143%
4165-60-0	Nitrobenzene-d5	70%	74%	73%	29-124%
321-60-8	2-Fluorobiphenyl	70%	72%	72%	23-122%
1718-51-0	Terphenyl-d14	92%	90%	90%	22-130%

* = Outside of Control Limits.

Instrument Performance Check (DFTPP)

Job Number: JD10244
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample: E4M4347-DFTPP
Lab File ID: 4M94048.D
Instrument ID: GCMS4M
Injection Date: 07/22/20
Injection Time: 08:29

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	29114	35.2		Pass
68	Less than 2.0% of mass 69	661	0.80	(1.52) [a]	Pass
69	Mass 69 relative abundance	43569	52.7		Pass
70	Less than 2.0% of mass 69	105	0.13	(0.24) [a]	Pass
127	40.0 - 60.0% of mass 198	41100	49.7		Pass
197	Less than 1.0% of mass 198	226	0.27		Pass
198	Base peak, 100% relative abundance	82752	100.0		Pass
199	5.0 - 9.0% of mass 198	4964	6.00		Pass
275	10.0 - 30.0% of mass 198	18845	22.8		Pass
365	1.0 - 100.0% of mass 198	2419	2.92		Pass
441	Present, but less than mass 443	5621	6.79	(68.2) [b]	Pass
442	40.0 - 100.0% of mass 198	45419	54.9		Pass
443	17.0 - 23.0% of mass 442	8245	9.96	(18.2) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E4M4347-IC4347	4M94049.D	07/22/20	08:42	00:13	Initial cal 0.5
E4M4347-IC4347	4M94050.D	07/22/20	09:21	00:52	Initial cal 5
E4M4347-IC4347	4M94051.D	07/22/20	09:42	01:13	Initial cal 2.5
E4M4347-ICC4347	4M94052.D	07/22/20	10:04	01:35	Initial cal 1
E4M4347-IC4347	4M94053.D	07/22/20	10:25	01:56	Initial cal 0.2
E4M4347-IC4347	4M94054.D	07/22/20	10:46	02:17	Initial cal 0.1
E4M4347-IC4347	4M94055.D	07/22/20	11:08	02:39	Initial cal 0.05
E4M4347-IC4347	4M94056.D	07/22/20	11:29	03:00	Initial cal 0.02
E4M4347-IC4347	4M94057.D	07/22/20	11:53	03:24	Initial cal 0.01
E4M4347-ICV4347	4M94058.D	07/22/20	12:14	03:45	Initial cal verification 1
E4M4347-ICV4347	4M94059.D	07/22/20	12:36	04:07	Initial cal verification 5

Instrument Performance Check (DFTPP)

Job Number: JD10244
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample: E4M4348-DFTPP
Lab File ID: 4M94062.D
Instrument ID: GCMS4M
Injection Date: 07/22/20
Injection Time: 23:29

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	28030	45.3		Pass
68	Less than 2.0% of mass 69	700	1.13	(1.89) [a]	Pass
69	Mass 69 relative abundance	37064	59.9		Pass
70	Less than 2.0% of mass 69	222	0.36	(0.60) [a]	Pass
127	40.0 - 60.0% of mass 198	34323	55.5		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	61827	100.0		Pass
199	5.0 - 9.0% of mass 198	4091	6.62		Pass
275	10.0 - 30.0% of mass 198	13464	21.8		Pass
365	1.0 - 100.0% of mass 198	1868	3.02		Pass
441	Present, but less than mass 443	4521	7.31	(80.3) [b]	Pass
442	40.0 - 100.0% of mass 198	29621	47.9		Pass
443	17.0 - 23.0% of mass 442	5628	9.10	(19.0) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E4M4348-CC4347	4M94063.D	07/22/20	23:42	00:13	Continuing cal 0.5
OP28540A-MB1	4M94065.D	07/23/20	00:49	01:20	Method Blank
OP28540A-BS12	4M94066.D	07/23/20	01:11	01:42	Blank Spike
ZZZZZZ	4M94067.D	07/23/20	01:32	02:03	(unrelated sample)
ZZZZZZ	4M94068.D	07/23/20	01:53	02:24	(unrelated sample)
ZZZZZZ	4M94069.D	07/23/20	02:14	02:45	(unrelated sample)
ZZZZZZ	4M94070.D	07/23/20	02:36	03:07	(unrelated sample)
ZZZZZZ	4M94071.D	07/23/20	02:57	03:28	(unrelated sample)
ZZZZZZ	4M94072.D	07/23/20	03:18	03:49	(unrelated sample)
ZZZZZZ	4M94073.D	07/23/20	03:39	04:10	(unrelated sample)
ZZZZZZ	4M94074.D	07/23/20	04:00	04:31	(unrelated sample)
ZZZZZZ	4M94075.D	07/23/20	04:22	04:53	(unrelated sample)
ZZZZZZ	4M94076.D	07/23/20	04:43	05:14	(unrelated sample)
JD10207-1	4M94077.D	07/23/20	05:04	05:35	(used for QC only; not part of job JD10244)
OP28540A-MSA	4M94078.D	07/23/20	05:25	05:56	Matrix Spike
OP28540A-MSDA	4M94079.D	07/23/20	05:46	06:17	Matrix Spike Duplicate
ZZZZZZ	4M94080.D	07/23/20	06:07	06:38	(unrelated sample)
ZZZZZZ	4M94081.D	07/23/20	06:28	06:59	(unrelated sample)
ZZZZZZ	4M94082.D	07/23/20	06:49	07:20	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JD10244
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample:	E4M4348-DFTPP	**Injection Date:**	07/22/20
Lab File ID:	4M94062.D	**Injection Time:**	23:29
Instrument ID:	GCMS4M		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
JD10244-2	4M94083.D	07/23/20	07:10	07:41	CC1MW106G0720
JD10244-3	4M94084.D	07/23/20	07:32	08:03	CC1MW106H0918
JD10244-4	4M94085.D	07/23/20	07:52	08:23	CC1EB01E0720
JD10244-5	4M94086.D	07/23/20	08:13	08:44	CC1FB02F0720
JD10244-1	4M94087.D	07/23/20	08:35	09:06	CC1MW01G0720
ZZZZZZ	4M94088.D	07/23/20	08:56	09:27	(unrelated sample)
E4M4348-ECC4347	4M94089.D	07/23/20	09:17	09:48	Ending cal 0.5

Internal Standard Area Summary

Job Number: JD10244
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Check Std:	E4M4348-CC4347	**Injection Date:**	07/22/20
Lab File ID:	4M94063.D	**Injection Time:**	23:42
Instrument ID:	GCMS4M	**Method:**	SW846 8270D BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Check Std	59247	6.74	61766	8.21	105458	10.32	59655	12.98
Upper Limit [a]	118494	7.24	123532	8.71	210916	10.82	119310	13.48
Lower Limit [b]	29624	6.24	30883	7.71	52729	9.82	29828	12.48

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
OP28540A-MB1	54078	6.74	57702	8.21	98486	10.32	49466	12.98
OP28540A-BS12	54395	6.74	54874	8.21	93514	10.31	47292	12.98
ZZZZZZ	48526	6.74	49427	8.21	85408	10.31	43409	12.98
ZZZZZZ	50001	6.74	50797	8.21	92941	10.32	51713	12.98
ZZZZZZ	58991	6.74	60829	8.21	104151	10.31	56481	12.98
ZZZZZZ	55910	6.74	56974	8.21	98987	10.31	54301	12.98
ZZZZZZ	55848	6.74	55640	8.21	100667	10.31	55885	12.98
ZZZZZZ	55027	6.74	55236	8.21	96456	10.31	51238	12.98
ZZZZZZ	54507	6.74	54417	8.21	94845	10.31	51685	12.98
ZZZZZZ	46030	6.74	44497	8.21	78822	10.31	40263	12.98
ZZZZZZ	46346	6.74	45600	8.21	81995	10.31	40792	12.98
ZZZZZZ	48814	6.74	48086	8.21	92256	10.31	53115	12.98
JD10207-1	46442	6.74	45937	8.21	79553	10.31	42092	12.98
OP28540A-MSA	52396	6.74	52815	8.21	91491	10.31	45875	12.98
OP28540A-MSDA	51943	6.74	51803	8.21	89594	10.31	48066	12.98
ZZZZZZ	49570	6.74	48029	8.21	85477	10.31	41704	12.98
ZZZZZZ	52593	6.74	51878	8.21	90584	10.31	41703	12.98
ZZZZZZ	47574	6.74	46480	8.21	82529	10.31	41442	12.98
JD10244-2	48031	6.74	49521	8.21	96705	10.31	65091	12.98
JD10244-3	58724	6.74	59438	8.21	108065	10.32	71007	12.98
JD10244-4	61935	6.74	61181	8.21	110719	10.31	67611	12.98
JD10244-5	57647	6.74	58386	8.21	108078	10.31	65490	12.98
JD10244-1	63634	6.74	78177	8.21	119099	10.32	78016	12.99
ZZZZZZ	67640	6.74	71688	8.21	128428	10.32	82264	12.98
E4M4348-ECC4347	67126	6.74	68986	8.21	128298	10.32	85878	12.99

IS 1 = 1-Methylnaphthalene-d10
IS 2 = Fluorene-d10
IS 3 = Fluoranthene-d10
IS 4 = Benzo(a)pyrene-d12

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Surrogate Recovery Summary

Job Number: JD10244
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Method: SW846 8270D BY SIM **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
JD10244-1	4M94087.D	75	75	83
JD10244-2	4M94083.D	65	68	74
JD10244-3	4M94084.D	68	70	80
JD10244-4	4M94085.D	71	70	81
JD10244-5	4M94086.D	69	69	82
OP28540A-BS12	4M94066.D	78	75	90
OP28540A-MB1	4M94065.D	78	75	87
OP28540A-MSA	4M94078.D	70	70	92
OP28540A-MSDA	4M94079.D	74	72	90

Surrogate Compounds	Recovery Limits
S1 = Nitrobenzene-d5	29-124%
S2 = 2-Fluorobiphenyl	23-122%
S3 = Terphenyl-d14	22-130%

Initial Calibration Summary

Job Number: JD10244
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample: E4M4347-ICC4347
Lab FileID: 4M94052.D

Response Factor Report GCMS4M

Method : C:\msdchem\1\METHODS\M4M4347SIM.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
Last Update : Wed Jul 22 12:21:59 2020
Response via : Initial Calibration

Calibration Files
0.05=4m94055.D .2 =4m94053.D 2.5 =4m94051.D .02 =4m94056.D
.1 =4m94054.D 1 =4m94052.D .01 =4m94057.D .5 =4m94049.D
5 =4m94050.D = = =

Compound	0.05	.2	2.5	.02	.1	1	.01	.5	5	Avg	%RSD
1) I 1-Methylnaphthalene-d	----------ISTD----------										
2) 2-Fluorophenol	0.673	0.629	0.617	0.647	0.628	0.631	0.655	0.636	0.594	0.635	3.58
3) Phenol-d5	0.826	0.849	0.819	0.780	0.819	0.849	0.755	0.841	0.754	0.810	4.67
4) Phenol	0.853	0.904	0.915	0.805	0.838	0.925	0.786	0.909	0.851	0.865	5.83
5) bis(2-Chloroethyl)ether	0.666	0.689	0.717	0.559	0.678	0.714	0.594	0.704	0.690	0.668	8.23
6) Nitrobenzene-d5	0.772	0.832	0.810	0.734	0.782	0.841	0.713	0.813	0.741	0.782	5.83
7) Naphthalene	2.026	2.024	2.018	2.034	1.989	2.017	2.023	2.015	1.930	2.008	1.59
8) Hexachlorobutadiene	0.485	0.462	0.455	0.467	0.465	0.466	0.537	0.453	0.438	0.470	5.97
9) 2-Methylnaphthalene	1.228	1.155	1.210	1.214	1.148	1.188	1.494	1.181	1.175	1.221	8.66
10) Hexachlorocyclopentadiene	0.295	0.355	0.460		0.316	0.426		0.430	0.472	0.393	18.01
11) 2-Fluorobiphenyl	1.422	1.476	1.365	1.400	1.434	1.441	1.377	1.429	1.259	1.400	4.49
12) I Fluorene-d10	----------ISTD----------										
13) Acenaphthylene	1.713	1.844	1.796	1.741	1.809	1.803	1.754	1.920	1.669	1.783	4.17
14) Acenaphthene	1.105	1.189	1.099	1.196	1.155	1.141	1.148	1.180	1.028	1.138	4.69
15) Dibenzofuran	1.590	1.653	1.686	1.704	1.652	1.708	1.722	1.688	1.622	1.670	2.61
16) Fluorene	1.355	1.389	1.395	1.585	1.442	1.409	1.292	1.393	1.355	1.402	5.75
17) 2,4,6-Tribromophenol	0.175	0.204	0.200	0.171	0.189	0.218	0.166	0.224	0.180	0.192	10.84
18) Hexachlorobenzene	0.502	0.510	0.464	0.495	0.505	0.478	0.558	0.497	0.430	0.493	7.08
19) Pentachlorophenol	0.133	0.159	0.240		0.152	0.231		0.224	0.253	0.199	24.68
---- Quadratic regression ---- Coefficient = 0.9992											
Response Ratio = -0.00836 + 0.22871 *A + 0.00419 *A^2											
20) Phenanthrene	1.783	1.918	1.932	1.883	1.846	1.956	1.945	1.983	1.835	1.898	3.46
21) Anthracene	1.477	1.622	1.880	1.590	1.671	1.876	1.706	1.830	1.792	1.716	8.11

Initial Calibration Summary

Job Number: JD10244
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample: E4M4347-ICC4347
Lab FileID: 4M94052.D

```
22) I   Fluoranthene-d10      ----------------ISTD---------------------
23)  Fluoranthene
          1.306 1.252 1.283 1.293 1.287 1.251 1.360 1.280 1.234        1.283    2.89
24)  Pyrene
          1.046 1.086 1.282 1.062 1.072 1.210 1.153 1.220 1.278        1.157    8.13
25)  Terphenyl-d14
          0.582 0.665 0.671 0.514 0.629 0.684 0.506 0.684 0.640        0.619   11.26
26)  Benzo[a]anthracene
          0.628 0.721 0.984 0.627 0.677 0.892 0.717 0.928 1.034        0.801   19.82
27)  Chrysene
          0.797 0.889 1.121 0.739 0.909 1.073 0.873 1.062 1.126        0.954   15.14

28) I   Benzo(a)pyrene-d12    ----------------ISTD---------------------
29)  Benzo[b]fluoranthene
          1.096 1.167 1.588 1.143 1.135 1.405 1.190 1.448 1.591        1.307   15.38
30)  Benzo[k]fluoranthene
          1.065 1.320 1.793 1.286 1.213 1.723       1.611 1.727        1.467   18.96
31)  Benzo[a]pyrene
          1.343 1.516 1.536 1.537 1.593 1.530 1.498 1.549 1.496        1.511    4.59
32)  Indeno[1,2,3-cd]pyrene
          0.979 1.118 1.565       1.029 1.365       1.397 1.568        1.289   19.12
33)  Dibenz[a,h]anthracene
               0.856 1.256       0.830 1.123       1.093 1.274        1.072   17.82
34)  Benzo[g,h,i]perylene
          0.934 1.051 1.279 0.939 0.983 1.173 1.001 1.210 1.288        1.095   13.06

35) I   1-Methylnaphthalene-d ----------------ISTD---------------------
36)  1,4-Dioxane
          0.468 0.374 0.405 0.252 0.340 0.383       0.360 0.354        0.367   16.66
37)  1-Methylnaphthalene
          1.383 1.339 1.338 1.306 1.289 1.338 1.503 1.342 1.301        1.349    4.76

38) I   Fluorene-d10a         ----------------ISTD---------------------
39)  4,6-dinitro-2-methylphenol
          0.082 0.114 0.236       0.100 0.195       0.168              0.149   40.36
           ---- Quadratic regression ----  Coefficient =  0.9985
             Response Ratio = -0.00714 + 0.16406 *A + 0.02391 *A^2

----------------------------------------------------------------------------
(#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          M4M4347SIM.M        Wed Jul 22 12:55:13 2020
```

Initial Calibration Verification

Job Number: JD10244
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample: E4M4347-ICV4347
Lab FileID: 4M94058.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E4M4347\4m94058.D Vial: 11
Acq On : 22 Jul 2020 12:14 pm Operator: angelar
Sample : icv4347-1 Inst : GCMS4M
Misc : op25425a,e4m4347,1000,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\msdchem\1\METHODS\M4M4347SIM.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
Last Update : Wed Jul 22 12:21:59 2020
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1-Methylnaphthalene-d10	1.000	1.000	0.0	104	0.00	6.74
5	t	bis(2-Chloroethyl)ether	0.668	0.573	14.2	84	0.00	4.52
7	t	Naphthalene	2.008	1.645	18.1	85	-0.02	5.99
8	t	Hexachlorobutadiene	0.470	0.399	15.1	89	0.00	6.14
9	t	2-Methylnaphthalene	1.221	1.028	15.8	90	0.00	6.68
12	I	Fluorene-d10	1.000	1.000	0.0	101	-0.01	8.21
13	t	Acenaphthylene	1.783	1.396	21.7	78	-0.01	7.54
14	t	Acenaphthene	1.138	0.916	19.5	81	-0.01	7.72
15	t	Dibenzofuran	1.670	1.395	16.5	83	-0.01	7.90
16	t	Fluorene	1.402	1.124	19.8	81	-0.01	8.23
18	t	Hexachlorobenzene	0.493	0.394	20.1	84	0.00	8.77
		----------	AvgRF	CCRF	% Dev	----------		
20	t	Phenanthrene	1.898	1.585	16.5	82	-0.02	9.16
21	t	Anthracene	1.716	1.364	20.5	74	0.00	9.21
22	I	Fluoranthene-d10	1.000	1.000	0.0	96	-0.01	10.32
23	t	Fluoranthene	1.283	1.053	17.9	81	-0.02	10.33
24	t	Pyrene	1.157	0.925	20.1	73	-0.01	10.55
26	t	Benzo[a]anthracene	0.801	0.616	23.1	66	-0.01	11.74
27	t	Chrysene	0.954	0.842	11.7	75	-0.01	11.77
28	I	Benzo(a)pyrene-d12	1.000	1.000	0.0	79	-0.01	12.99
29	t	Benzo[b]fluoranthene	1.307	1.000	23.5	56	-0.01	12.73
30	t	Benzo[k]fluoranthene	1.467	1.353	7.8	62	-0.01	12.76
31	t	Benzo[a]pyrene	1.511	1.302	13.8	67	-0.01	13.01
32	t	Indeno[1,2,3-cd]pyrene	1.289	1.016	21.2	59	-0.02	14.00
33	t	Dibenz[a,h]anthracene	1.072	0.764	28.7	54	-0.02	14.02
34	t	Benzo[g,h,i]perylene	1.095	0.928	15.3	62	-0.02	14.27
35	I	1-Methylnaphthalene-d10a	1.000	1.000	0.0	104	0.00	6.74
36	t	1,4-Dioxane	0.367	0.288	21.5	78	0.02	1.80

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4m94052.D M4M4347SIM.M Wed Jul 22 12:33:43 2020

Initial Calibration Verification

Job Number: JD10244
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample: E4M4347-ICV4347
Lab FileID: 4M94059.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E4M4347\4m94059.D Vial: 12
Acq On : 22 Jul 2020 12:36 pm Operator: angelar
Sample : icv4347-5 Inst : GCMS4M
Misc : op25425a,e4m4347,1000,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\msdchem\1\METHODS\M4M4347SIM.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
Last Update : Wed Jul 22 12:21:59 2020
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1-Methylnaphthalene-d10	1.000	1.000	0.0	85	0.00	6.74
4	t	Phenol	0.865	0.854	1.3	79	-0.02	4.47
12	I	Fluorene-d10	1.000	1.000	0.0	84	-0.01	8.21
		----------	True	Calc.	% Drift	----------		
19	t	Pentachlorophenol	5.000	4.242	15.2	70	0.00	8.97
38	I	Fluorene-d10a	1.000	1.000	0.0	84	-0.01	8.21
		----------	True	Calc.	% Drift	----------		
39	t	4,6-dinitro-2-methylpheno	5.000	4.683	6.3	75	-0.01	8.30

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4m94052.D M4M4347SIM.M Wed Jul 22 12:53:22 2020

Continuing Calibration Summary

Job Number: JD10244
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample: E4M4348-CC4347
Lab FileID: 4M94063.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\da...eel\e4m4348\4m94063.d Vial: 2
Acq On : 22 Jul 2020 11:42 pm Operator: chriss2
Sample : cc4347-0.5 Inst : GCMS4M
Misc : op25425a,e4m4348,1000,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\msdchem\1\METHODS\M4M4347SIM.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
Last Update : Fri Jul 24 03:13:51 2020
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1-Methylnaphthalene-d10	1.000	1.000	0.0	95	0.00	6.74
2	S	2-Fluorophenol	0.635	0.657	-3.5	98	0.00	3.51
3	S	Phenol-d5	0.810	0.875	-8.0	99	0.00	4.46
4	t	Phenol	0.865	0.945	-9.2	99	0.00	4.47
5	t	bis(2-Chloroethyl)ether	0.668	0.727	-8.8	98	0.00	4.52
6	S	Nitrobenzene-d5	0.782	0.846	-8.2	99	0.00	5.29
7	t	Naphthalene	2.008	2.043	-1.7	96	0.00	6.00
8	t	Hexachlorobutadiene	0.470	0.468	0.4	98	0.00	6.14
9	t	2-Methylnaphthalene	1.221	1.265	-3.6	102	0.00	6.68
10	t	Hexachlorocyclopentadiene	0.393	0.395	-0.5	87	0.00	6.85
11	S	2-Fluorobiphenyl	1.400	1.467	-4.8	98	0.00	7.05
12	I	Fluorene-d10	1.000	1.000	0.0	97	0.00	8.21
13	t	Acenaphthylene	1.783	1.752	1.7	89	0.00	7.54
14	t	Acenaphthene	1.138	1.117	1.8	92	0.00	7.73
15	t	Dibenzofuran	1.670	1.691	-1.3	97	0.00	7.90
16	t	Fluorene	1.402	1.439	-2.6	101	0.00	8.23
17	S	2,4,6-Tribromophenol	0.192	0.211	-9.9	92	0.00	8.47
18	t	Hexachlorobenzene	0.493	0.488	1.0	96	0.00	8.77
		----------	True	Calc.	% Drift	----------		
19	t	Pentachlorophenol	2.500	1.970	21.2#	73	0.00	8.97
		----------	AvgRF	CCRF	% Dev	----------		
20	t	Phenanthrene	1.898	1.969	-3.7	97	0.00	9.16
21	t	Anthracene	1.716	1.711	0.3	91	0.00	9.21
22	I	Fluoranthene-d10	1.000	1.000	0.0	93	0.00	10.32
23	t	Fluoranthene	1.283	1.317	-2.7	96	0.00	10.33
24	t	Pyrene	1.157	1.148	0.8	87	0.00	10.55
25	S	Terphenyl-d14	0.619	0.710	-14.7	96	0.00	10.73
26	t	Benzo[a]anthracene	0.801	0.685	14.5	69	0.00	11.73
27	t	Chrysene	0.954	0.981	-2.8	86	0.00	11.76
28	I	Benzo(a)pyrene-d12	1.000	1.000	0.0	83	0.00	12.98
29	t	Benzo[b]fluoranthene	1.307	1.287	1.5	74	0.00	12.73
30	t	Benzo[k]fluoranthene	1.467	1.653	-12.7	85	0.00	12.75
31	t	Benzo[a]pyrene	1.511	1.609	-6.5	86	0.00	13.00
32	t	Indeno[1,2,3-cd]pyrene	1.289	1.230	4.6	73	0.00	14.00
33	t	Dibenz[a,h]anthracene	1.072	0.958	10.6	73	0.00	14.02
34	t	Benzo[g,h,i]perylene	1.095	1.063	2.9	73	0.00	14.26

Continuing Calibration Summary

Job Number: JD10244
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample: E4M4348-CC4347
Lab FileID: 4M94063.D

35	I	1-Methylnaphthalene-d10a	1.000	1.000	0.0	95	0.00	6.74
36	t	1,4-Dioxane	0.367	0.435	-18.5	115	0.00	1.76
37	t	1-Methylnaphthalene	1.349	1.388	-2.9	98	0.00	6.77
38	I	Fluorene-d10a	1.000	1.000	0.0	97	0.00	8.21
		----------	True	Calc.	% Drift	----------		
39	t	4,6-dinitro-2-methylpheno	2.500	2.108	15.7	79	0.00	8.30

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4m94063.d M4M4347SIM.M Fri Jul 24 03:16:45 2020

Continuing Calibration Summary

Job Number: JD10244
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample: E4M4348-ECC4347
Lab FileID: 4M94089.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\da...eel\e4m4348\4m94089.d Vial: 2
Acq On : 23 Jul 2020 9:17 am Operator: chriss2
Sample : ecc4347-0.5 Inst : GCMS4M
Misc : op28540a,e4m4348,1000,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\msdchem\1\METHODS\M4M4347SIM.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
Last Update : Fri Jul 24 04:37:48 2020
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 50% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1-Methylnaphthalene-d10	1.000	1.000	0.0	108	0.00	6.74
2	S	2-Fluorophenol	0.635	0.652	-2.7	111	0.00	3.52
3	S	Phenol-d5	0.810	0.873	-7.8	112	0.00	4.46
4	t	Phenol	0.865	0.937	-8.3	111	0.00	4.47
5	t	bis(2-Chloroethyl)ether	0.668	0.715	-7.0	110	0.00	4.52
6	S	Nitrobenzene-d5	0.782	0.830	-6.1	110	0.00	5.29
7	t	Naphthalene	2.008	2.060	-2.6	110	0.00	6.00
8	t	Hexachlorobutadiene	0.470	0.464	1.3	110	0.00	6.14
9	t	2-Methylnaphthalene	1.221	1.226	-0.4	112	0.00	6.68
10	t	Hexachlorocyclopentadiene	0.393	0.364	7.4	91	0.00	6.85
11	S	2-Fluorobiphenyl	1.400	1.468	-4.9	111	0.00	7.05
12	I	Fluorene-d10	1.000	1.000	0.0	109	0.00	8.21
13	t	Acenaphthylene	1.783	1.935	-8.5	110	0.00	7.54
14	t	Acenaphthene	1.138	1.196	-5.1	110	0.00	7.72
15	t	Dibenzofuran	1.670	1.784	-6.8	115	0.00	7.90
16	t	Fluorene	1.402	1.437	-2.5	112	0.00	8.23
17	S	2,4,6-Tribromophenol	0.192	0.235	-22.4	114	0.00	8.47
18	t	Hexachlorobenzene	0.493	0.514	-4.3	112	0.00	8.77
		----------	True	Calc.	% Drift	----------		
19	t	Pentachlorophenol	2.500	2.707	-8.3	115	0.00	8.97
		----------	AvgRF	CCRF	% Dev	----------		
20	t	Phenanthrene	1.898	2.065	-8.8	113	0.00	9.16
21	t	Anthracene	1.716	1.964	-14.5	117	0.00	9.21
22	I	Fluoranthene-d10	1.000	1.000	0.0	113	0.00	10.32
23	t	Fluoranthene	1.283	1.300	-1.3	115	0.00	10.33
24	t	Pyrene	1.157	1.257	-8.6	116	0.00	10.55
25	S	Terphenyl-d14	0.619	0.712	-15.0	118	0.00	10.73
26	t	Benzo[a]anthracene	0.801	0.970	-21.1	118	0.00	11.73
27	t	Chrysene	0.954	1.089	-14.2	116	0.00	11.77
28	I	Benzo(a)pyrene-d12	1.000	1.000	0.0	119	0.00	12.99
29	t	Benzo[b]fluoranthene	1.307	1.479	-13.2	122	0.00	12.73
30	t	Benzo[k]fluoranthene	1.467	1.645	-12.1	122	0.00	12.75
31	t	Benzo[a]pyrene	1.511	1.560	-3.2	120	0.00	13.01
32	t	Indeno[1,2,3-cd]pyrene	1.289	1.434	-11.2	122	0.00	14.00
33	t	Dibenz[a,h]anthracene	1.072	1.175	-9.6	128	0.00	14.02
34	t	Benzo[g,h,i]perylene	1.095	1.229	-12.2	121	0.00	14.27

Continuing Calibration Summary

Job Number: JD10244
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample: E4M4348-ECC4347
Lab FileID: 4M94089.D

35	I	1-Methylnaphthalene-d10a	1.000	1.000	0.0	108	0.00	6.74
36	t	1,4-Dioxane	0.367	0.359	2.2	108	0.00	1.77
37	t	1-Methylnaphthalene	1.349	1.382	-2.4	111	0.00	6.77
38	I	Fluorene-d10a	1.000	1.000	0.0	109	0.00	8.21
			True	Calc.	% Drift			
39	t	4,6-dinitro-2-methylpheno	2.500	2.028	18.9	85	0.00	8.30

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4m94089.d M4M4347SIM.M Fri Jul 24 04:41:02 2020

Run Sequence Report

Job Number: JD10244
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Run ID: E4M4347 **Method:** SW846 8270D BY SIM **Instrument ID:** GCMS4M

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
E4M4347-DFTPP	4M94048.D	07/22/20 08:29	n/a	DFTPP Tune
E4M4347-IC4347	4M94049.D	07/22/20 08:42	n/a	Initial cal 0.5
E4M4347-IC4347	4M94050.D	07/22/20 09:21	n/a	Initial cal 5
E4M4347-IC4347	4M94051.D	07/22/20 09:42	n/a	Initial cal 2.5
E4M4347-ICC4347	4M94052.D	07/22/20 10:04	n/a	Initial cal 1
E4M4347-IC4347	4M94053.D	07/22/20 10:25	n/a	Initial cal 0.2
E4M4347-IC4347	4M94054.D	07/22/20 10:46	n/a	Initial cal 0.1
E4M4347-IC4347	4M94055.D	07/22/20 11:08	n/a	Initial cal 0.05
E4M4347-IC4347	4M94056.D	07/22/20 11:29	n/a	Initial cal 0.02
E4M4347-IC4347	4M94057.D	07/22/20 11:53	n/a	Initial cal 0.01
E4M4347-ICV4347	4M94058.D	07/22/20 12:14	n/a	Initial cal verification 1
E4M4347-ICV4347	4M94059.D	07/22/20 12:36	n/a	Initial cal verification 5

Run Sequence Report

Job Number: JD10244
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Run ID: E4M4348 **Method:** SW846 8270D BY SIM **Instrument ID:** GCMS4M

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
E4M4348-DFTPP	4M94062.D	07/22/20 23:29	n/a	DFTPP Tune
E4M4348-CC4347	4M94063.D	07/22/20 23:42	n/a	Continuing cal 0.5
OP28540A-MB1	4M94065.D	07/23/20 00:49	OP28540A	Method Blank
OP28540A-BS12	4M94066.D	07/23/20 01:11	OP28540A	Blank Spike
ZZZZZZ	4M94067.D	07/23/20 01:32	OP28540A	(unrelated sample)
ZZZZZZ	4M94068.D	07/23/20 01:53	OP28540A	(unrelated sample)
ZZZZZZ	4M94069.D	07/23/20 02:14	OP28540A	(unrelated sample)
ZZZZZZ	4M94070.D	07/23/20 02:36	OP28540A	(unrelated sample)
ZZZZZZ	4M94071.D	07/23/20 02:57	OP28540A	(unrelated sample)
ZZZZZZ	4M94072.D	07/23/20 03:18	OP28540A	(unrelated sample)
ZZZZZZ	4M94073.D	07/23/20 03:39	OP28540A	(unrelated sample)
ZZZZZZ	4M94074.D	07/23/20 04:00	OP28540A	(unrelated sample)
ZZZZZZ	4M94075.D	07/23/20 04:22	OP28540A	(unrelated sample)
ZZZZZZ	4M94076.D	07/23/20 04:43	OP28540A	(unrelated sample)
JD10207-1	4M94077.D	07/23/20 05:04	OP28540A	(used for QC only; not part of job JD10244)
OP28540A-MSA	4M94078.D	07/23/20 05:25	OP28540A	Matrix Spike
OP28540A-MSDA	4M94079.D	07/23/20 05:46	OP28540A	Matrix Spike Duplicate
ZZZZZZ	4M94080.D	07/23/20 06:07	OP28540A	(unrelated sample)
ZZZZZZ	4M94081.D	07/23/20 06:28	OP28540A	(unrelated sample)
ZZZZZZ	4M94082.D	07/23/20 06:49	OP28540A	(unrelated sample)
JD10244-2	4M94083.D	07/23/20 07:10	OP28540A	CC1MW106G0720
JD10244-3	4M94084.D	07/23/20 07:32	OP28540A	CC1MW106H0918
JD10244-4	4M94085.D	07/23/20 07:52	OP28540A	CC1EB01E0720
JD10244-5	4M94086.D	07/23/20 08:13	OP28540A	CC1FB02F0720
JD10244-1	4M94087.D	07/23/20 08:35	OP28540A	CC1MW01G0720
ZZZZZZ	4M94088.D	07/23/20 08:56	OP28493A	(unrelated sample)
E4M4348-ECC4347	4M94089.D	07/23/20 09:17	n/a	Ending cal 0.5

MS Semi-volatiles

Raw Data

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
07/24/20 13:02

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\data_aimeel\e4m4348\
Data File : 4m94087.d
Acq On : 23 Jul 2020 8:35 am
Operator : chriss2
Sample : jd10244-1 Inst : GCMS4M
Misc : op28540a,e4m4348,1000,,,1,1
ALS Vial : 26 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Results File: M4M4347SIM.RES
Quant Time: Jul 24 04:28:55 2020
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Fri Jul 24 03:13:51 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	6.739	152	63634	4.00	ppm	0.00
12) Fluorene-d10	8.206	176	78177	4.00	ppm	0.00
22) Fluoranthene-d10	10.315	212	119099	4.00	ppm	0.00
28) Benzo(a)pyrene-d12	12.987	264	78016	4.00	ppm	0.00
35) 1-Methylnaphthalene-d10a	6.739	152	63634	4.00	ppm	0.00
38) Fluorene-d10a	8.206	176	78177	4.00	ppm	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	3.523	112	370173	36.67	ppm	0.01
Spiked Amount 50.000	Range 11 - 58		Recovery =	73.34%#		
3) Phenol-d5	4.465	99	459097	35.61	ppm	0.00
Spiked Amount 50.000			Recovery =	71.22%		
6) Nitrobenzene-d5	5.290	82	464002	37.30	ppm	0.00
Spiked Amount 50.000			Recovery =	74.60%		
11) 2-Fluorobiphenyl	7.050	172	834490	37.46	ppm	0.00
Spiked Amount 50.000			Recovery =	74.92%		
17) 2,4,6-Tribromophenol	8.469	330	133972	35.73	ppm	0.00
Spiked Amount 50.000			Recovery =	71.46%		
25) Terphenyl-d14	10.736	244	764785	41.47	ppm	0.00
Spiked Amount 50.000			Recovery =	82.94%		
Target Compounds						Qvalue
36) 1,4-Dioxane	1.785	88	618m	0.11	ppm	

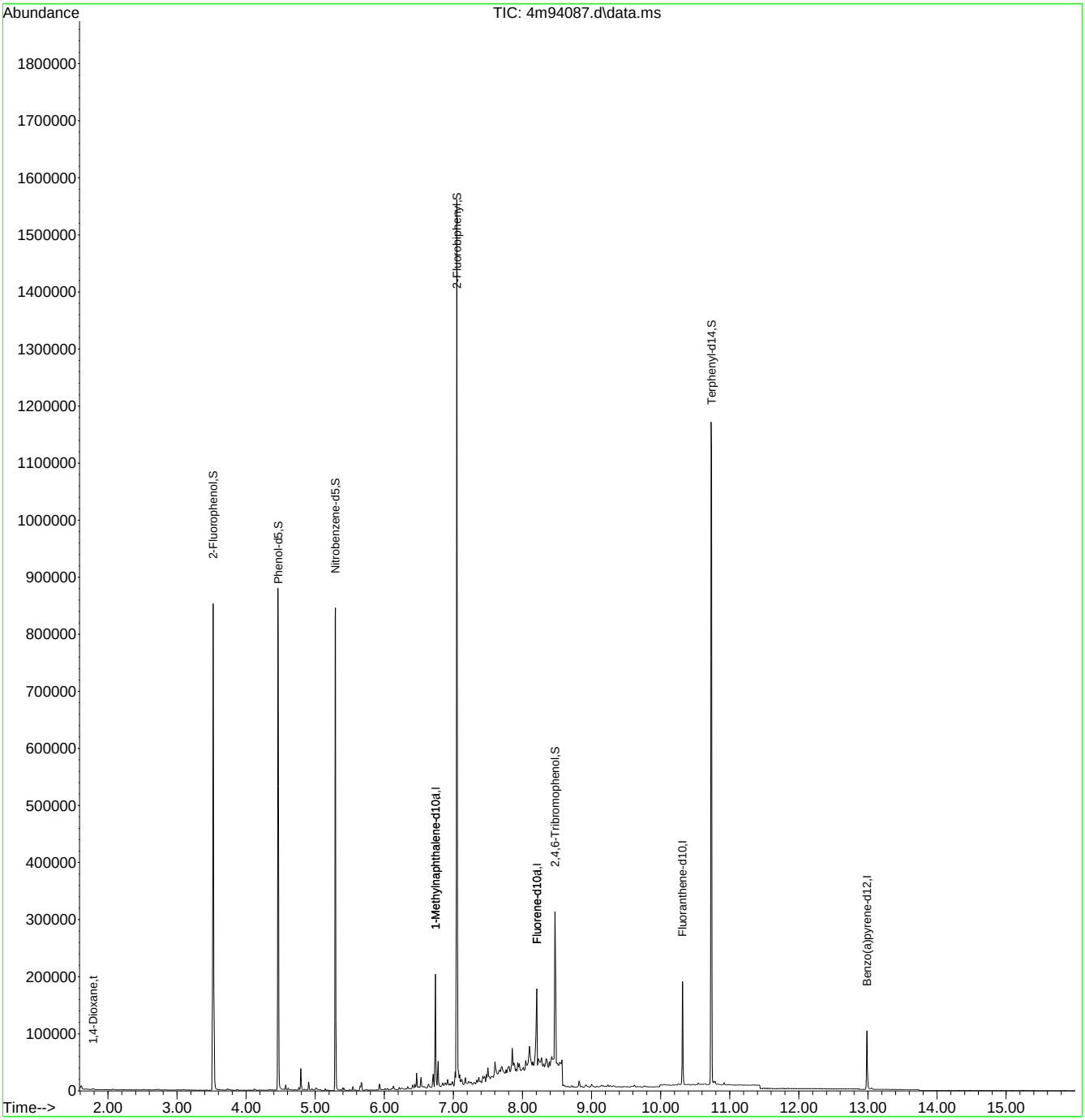
(#) = qualifier out of range (m) = manual integration (+) = signals summed

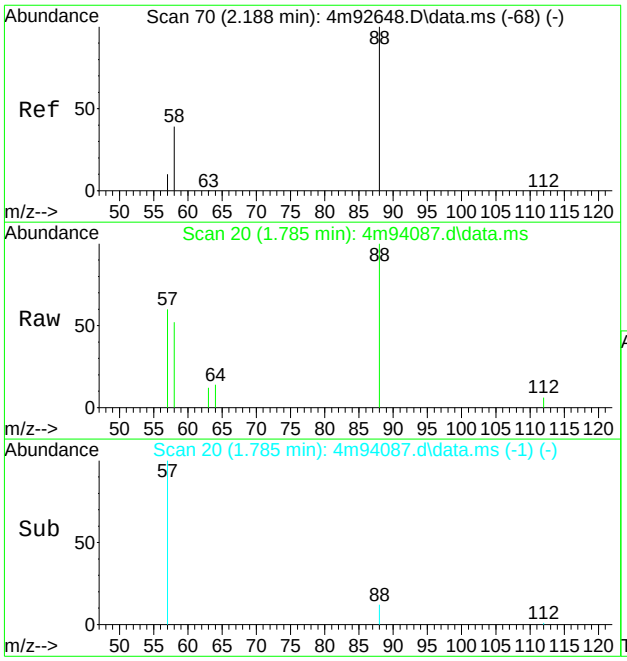
7.1.1
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\data_aimeel\e4m4348\
Data File : 4m94087.d
Acq On : 23 Jul 2020 8:35 am
Operator : chriss2
Sample : jd10244-1 Inst : GCMS4M
Misc : op28540a,e4m4348,1000,,,1,1
ALS Vial : 26 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Results File: M4M4347SIM.RES
Quant Time: Jul 24 04:28:55 2020
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Fri Jul 24 03:13:51 2020
Response via : Initial Calibration

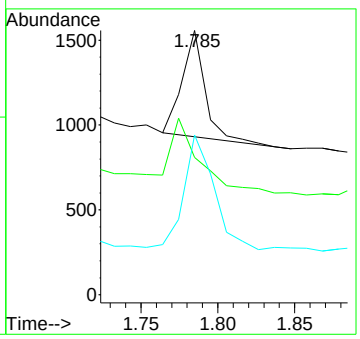




#36
1,4-Dioxane
Concen: 0.11 ppm m
RT: 1.785 min Scan# 20
Delta R.T. 0.021 min
Lab File: 4m94087.d
Acq: 23 Jul 2020 8:35 am

Tgt Ion: 88 Resp: 618

Ion	Ratio	Lower	Upper
88	100		
58	52.0	31.4	71.4
57	60.4	0.0	35.1#



Manual Integration Approval Summary

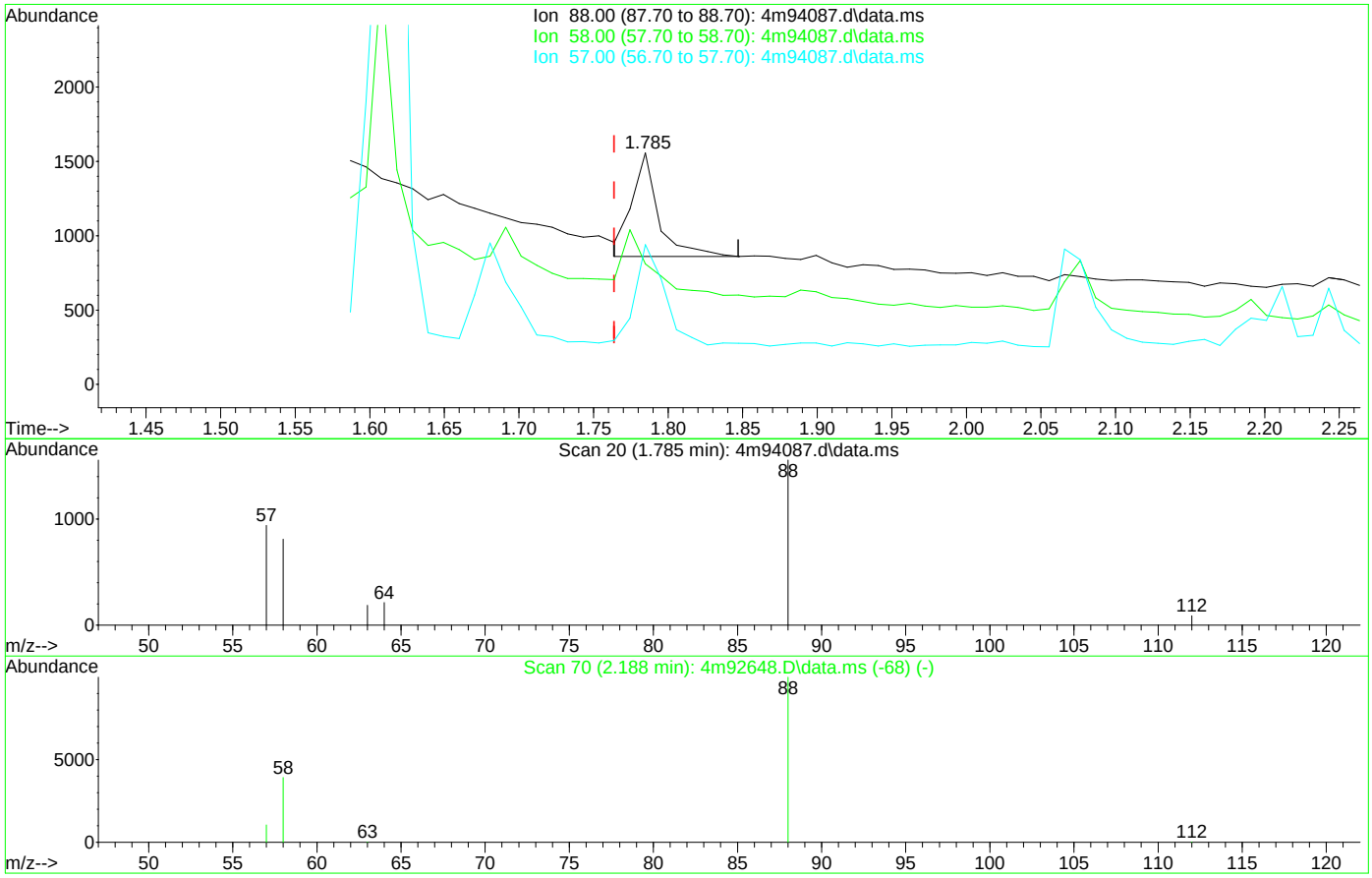
Sample Number: JD10244-1
Lab FileID: 4M94087.D
Injection Time: 07/23/20 08:35
Method: SW846 8270D BY SIM
Analyst approved: 07/24/20 04:41 Aimee Laurente
Supervisor approved: 07/24/20 13:02 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
1,4-Dioxane	123-91-1		1.78	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\data_aimeel\e4m4348\
Data File : 4m94087.d
Acq On : 23 Jul 2020 8:35 am
Operator : chriss2
Sample : jd10244-1 Inst : GCMS4M
Misc : op28540a,e4m4348,1000,,,1,1
ALS Vial : 26 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Results File: M4M4347SIM.RES
Quant Time: Jul 24 03:20:03 2020
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Fri Jul 24 03:13:51 2020
Response via : Initial Calibration



TIC: 4m94087.d\data.ms

(36) 1,4-Dioxane (t)

1.785min (+0.021) 0.15ppm

response 855

Ion	Exp%	Act%
88.00	100	100
58.00	51.40	24.14#
57.00	15.10	100.69#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\data_aimeel\e4m4348\
Data File : 4m94083.d
Acq On : 23 Jul 2020 7:10 am
Operator : chriss2
Sample : jd10244-2 Inst : GCMS4M
Misc : op28540a,e4m4348,1000,,,1,1
ALS Vial : 22 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Results File: M4M4347SIM.RES
Quant Time: Jul 24 04:23:16 2020
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Fri Jul 24 03:13:51 2020
Response via : Initial Calibration

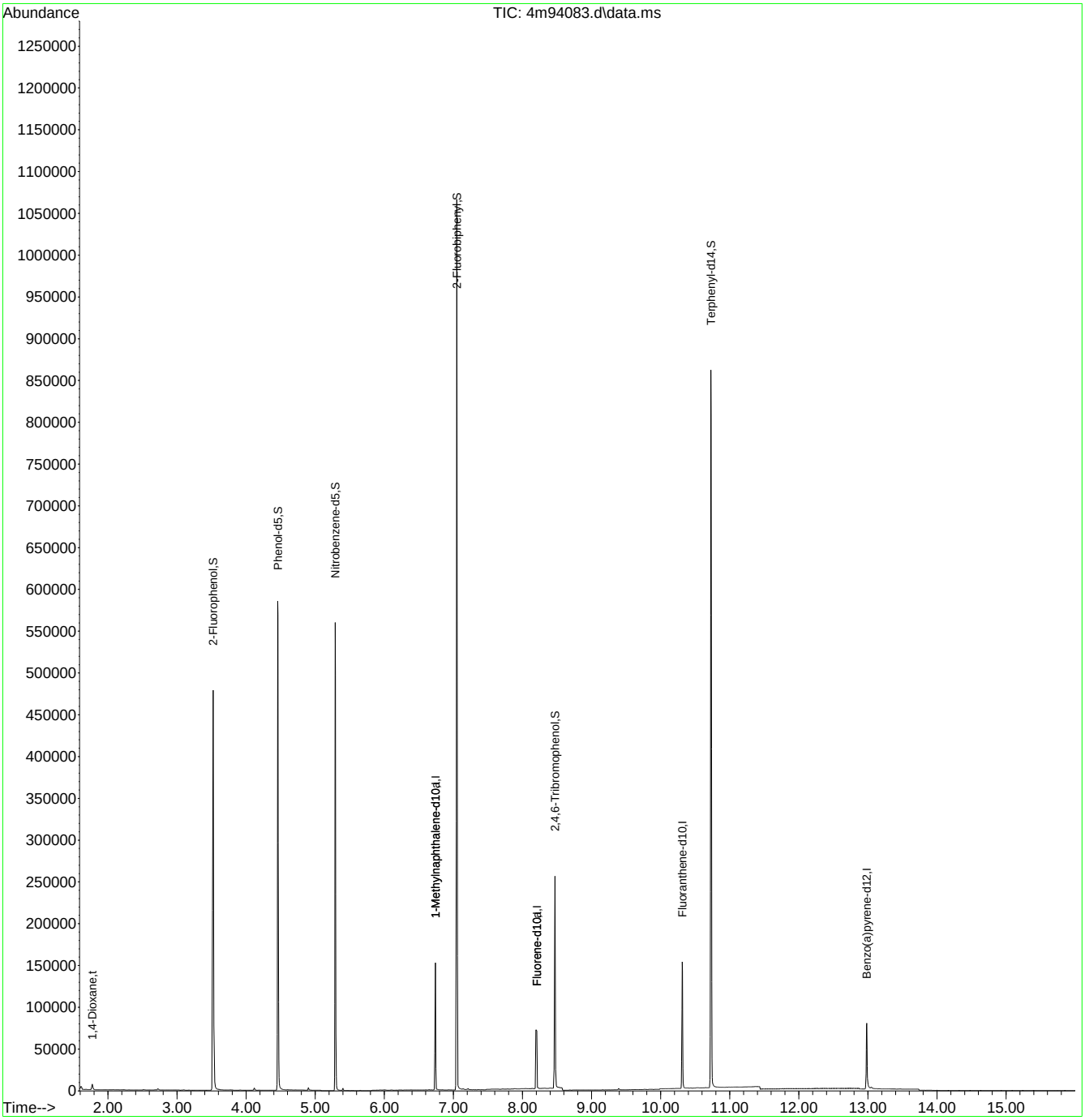
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	6.738	152	48031	4.00	ppm	0.00
12) Fluorene-d10	8.206	176	49521	4.00	ppm	0.00
22) Fluoranthene-d10	10.311	212	96705	4.00	ppm	0.00
28) Benzo(a)pyrene-d12	12.983	264	65091	4.00	ppm	0.00
35) 1-Methylnaphthalene-d10a	6.738	152	48031	4.00	ppm	0.00
38) Fluorene-d10a	8.206	176	49521	4.00	ppm	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	3.523	112	228378	29.97	ppm	0.01
Spiked Amount 50.000	Range 11 - 58		Recovery = 59.94%#			
3) Phenol-d5	4.461	99	301290	30.96	ppm	0.00
Spiked Amount 50.000			Recovery = 61.92%			
6) Nitrobenzene-d5	5.289	82	304359	32.41	ppm	0.00
Spiked Amount 50.000			Recovery = 64.82%			
11) 2-Fluorobiphenyl	7.050	172	571074	33.96	ppm	0.00
Spiked Amount 50.000			Recovery = 67.92%			
17) 2,4,6-Tribromophenol	8.468	330	96686	40.71	ppm	0.00
Spiked Amount 50.000			Recovery = 81.42%			
25) Terphenyl-d14	10.728	244	556553	37.17	ppm	0.00
Spiked Amount 50.000			Recovery = 74.34%			
Target Compounds						Qvalue
36) 1,4-Dioxane	1.774	88	4026	0.91	ppm	# 74

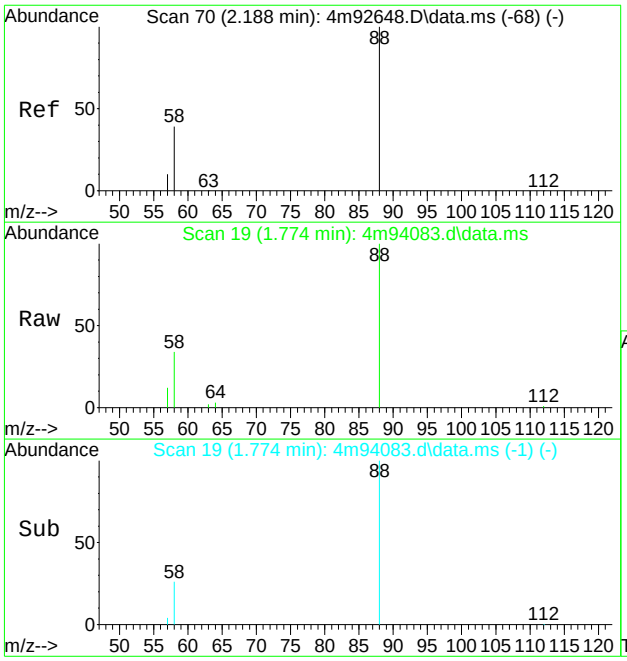
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\data_aimeel\e4m4348\
Data File : 4m94083.d
Acq On : 23 Jul 2020 7:10 am
Operator : chriss2
Sample : jd10244-2 Inst : GCMS4M
Misc : op28540a,e4m4348,1000,,,1,1
ALS Vial : 22 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Results File: M4M4347SIM.RES
Quant Time: Jul 24 04:23:16 2020
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Fri Jul 24 03:13:51 2020
Response via : Initial Calibration

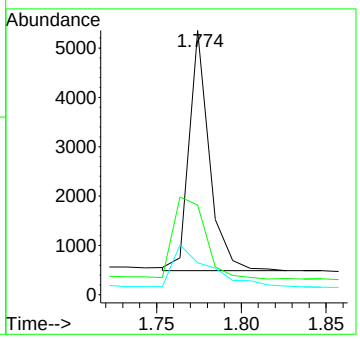




#36
1,4-Dioxane
Concen: 0.91 ppm
RT: 1.774 min Scan# 19
Delta R.T. 0.010 min
Lab File: 4m94083.d
Acq: 23 Jul 2020 7:10 am

Tgt Ion: 88 Resp: 4026

Ion	Ratio	Lower	Upper
88	100		
58	30.6	31.4	71.4#
57	9.9	0.0	35.1



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\data_aimeel\e4m4348\
Data File : 4m94084.d
Acq On : 23 Jul 2020 7:32 am
Operator : chriss2
Sample : jd10244-3 Inst : GCMS4M
Misc : op28540a,e4m4348,1000,,,1,1
ALS Vial : 23 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Results File: M4M4347SIM.RES
Quant Time: Jul 24 04:24:23 2020
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Fri Jul 24 03:13:51 2020
Response via : Initial Calibration

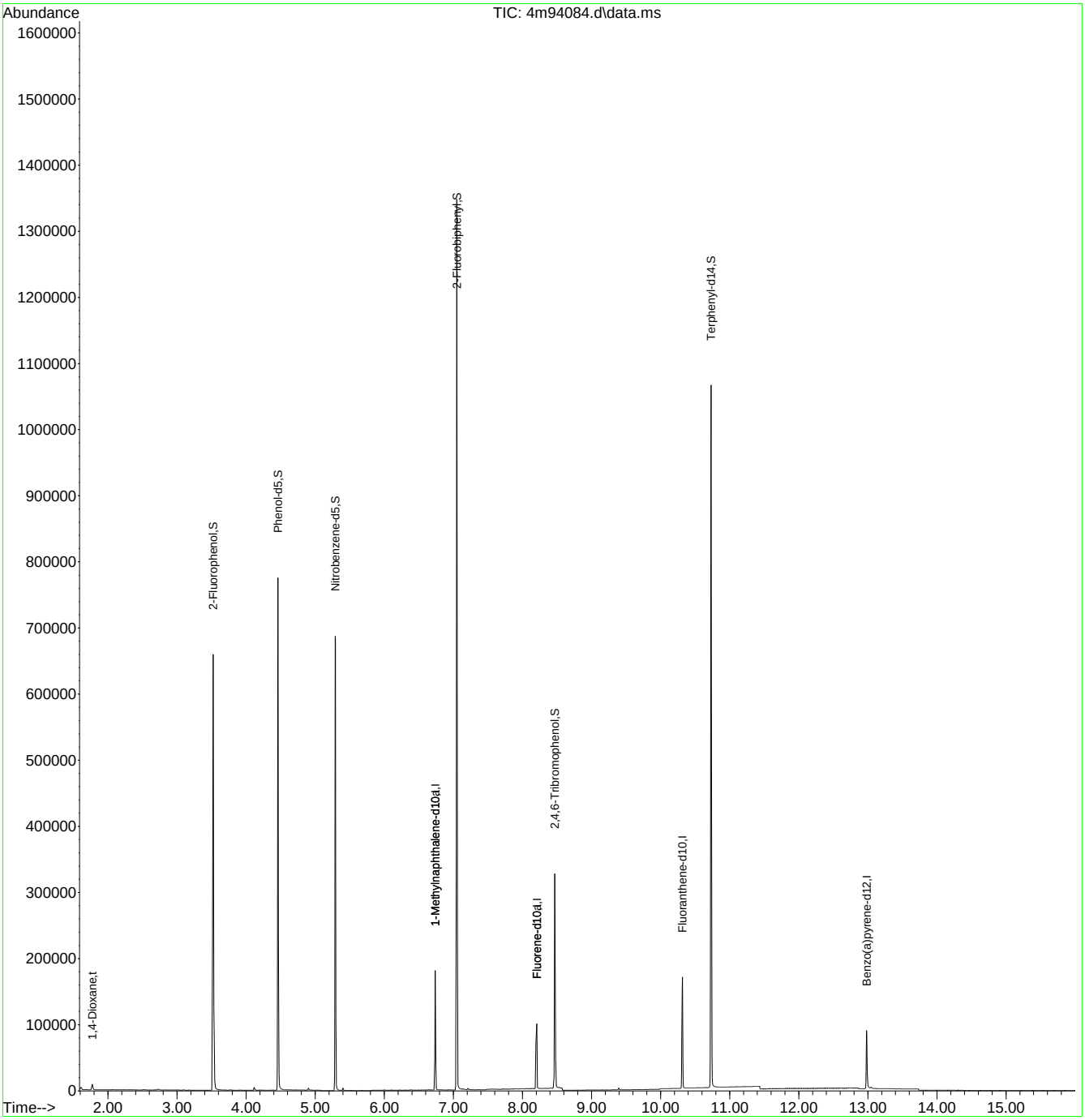
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	6.738	152	58724	4.00	ppm	0.00
12) Fluorene-d10	8.206	176	59438	4.00	ppm	0.00
22) Fluoranthene-d10	10.315	212	108065	4.00	ppm	0.00
28) Benzo(a)pyrene-d12	12.981	264	71007	4.00	ppm	0.00
35) 1-Methylnaphthalene-d10a	6.738	152	58724	4.00	ppm	0.00
38) Fluorene-d10a	8.206	176	59438	4.00	ppm	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	3.523	112	303944	32.62	ppm	0.01
Spiked Amount 50.000	Range 11 - 58		Recovery = 65.24%#			
3) Phenol-d5	4.461	99	395147	33.21	ppm	0.00
Spiked Amount 50.000			Recovery = 66.42%			
6) Nitrobenzene-d5	5.289	82	389319	33.91	ppm	0.00
Spiked Amount 50.000			Recovery = 67.82%			
11) 2-Fluorobiphenyl	7.050	172	720820	35.06	ppm	0.00
Spiked Amount 50.000			Recovery = 70.12%			
17) 2,4,6-Tribromophenol	8.469	330	124993	43.84	ppm	0.00
Spiked Amount 50.000			Recovery = 87.68%			
25) Terphenyl-d14	10.732	244	666111	39.81	ppm	0.00
Spiked Amount 50.000			Recovery = 79.62%			
Target Compounds						Qvalue
36) 1,4-Dioxane	1.774	88	5121	0.95	ppm	# 73

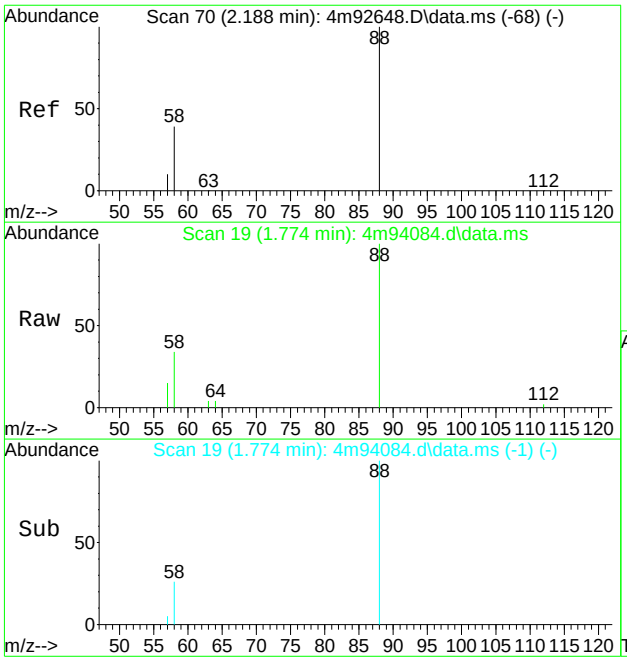
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\data_aimeel\e4m4348\
Data File : 4m94084.d
Acq On : 23 Jul 2020 7:32 am
Operator : chriss2
Sample : jd10244-3 Inst : GCMS4M
Misc : op28540a,e4m4348,1000,,,1,1
ALS Vial : 23 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Results File: M4M4347SIM.RES
Quant Time: Jul 24 04:24:23 2020
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Fri Jul 24 03:13:51 2020
Response via : Initial Calibration

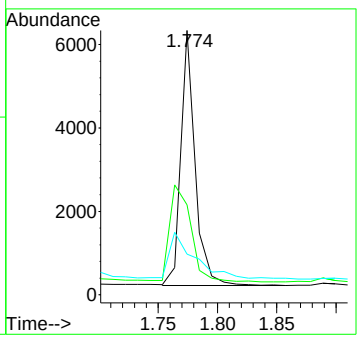




#36
1,4-Dioxane
Concen: 0.95 ppm
RT: 1.774 min Scan# 19
Delta R.T. 0.010 min
Lab File: 4m94084.d
Acq: 23 Jul 2020 7:32 am

Tgt Ion: 88 Resp: 5121

Ion	Ratio	Lower	Upper
88	100		
58	29.9	31.4	71.4#
57	9.3	0.0	35.1



Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
07/24/20 13:02

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\data_aimeel\e4m4348\
Data File : 4m94085.d
Acq On : 23 Jul 2020 7:52 am
Operator : chriss2
Sample : jd10244-4 Inst : GCMS4M
Misc : op28540a,e4m4348,1000,,,1,1
ALS Vial : 24 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Results File: M4M4347SIM.RES
Quant Time: Jul 24 04:26:04 2020
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Fri Jul 24 03:13:51 2020
Response via : Initial Calibration

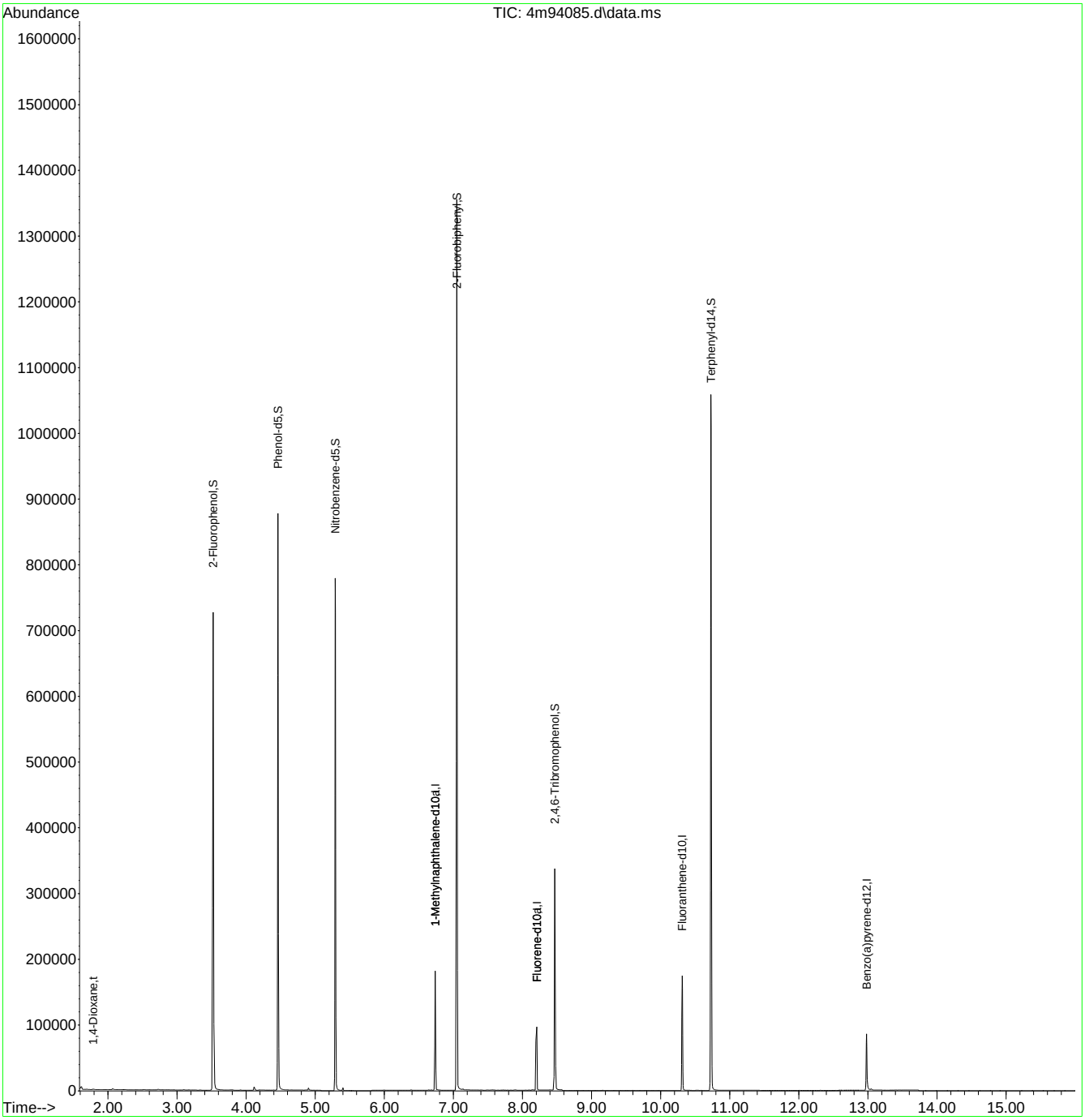
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	6.739	152	61935	4.00	ppm	0.00
12) Fluorene-d10	8.206	176	61181	4.00	ppm	0.00
22) Fluoranthene-d10	10.312	212	110719	4.00	ppm	0.00
28) Benzo(a)pyrene-d12	12.981	264	67611	4.00	ppm	0.00
35) 1-Methylnaphthalene-d10a	6.739	152	61935	4.00	ppm	0.00
38) Fluorene-d10a	8.206	176	61181	4.00	ppm	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	3.523	112	334438	34.04	ppm	0.01
Spiked Amount 50.000	Range 11 - 58		Recovery =	68.08%#		
3) Phenol-d5	4.461	99	426162	33.96	ppm	0.00
Spiked Amount 50.000			Recovery =	67.92%		
6) Nitrobenzene-d5	5.290	82	427125	35.28	ppm	0.00
Spiked Amount 50.000			Recovery =	70.56%		
11) 2-Fluorobiphenyl	7.050	172	757162	34.92	ppm	0.00
Spiked Amount 50.000			Recovery =	69.84%		
17) 2,4,6-Tribromophenol	8.469	330	127657	43.50	ppm	0.00
Spiked Amount 50.000			Recovery =	87.00%		
25) Terphenyl-d14	10.732	244	695644	40.58	ppm	0.00
Spiked Amount 50.000			Recovery =	81.16%		
Target Compounds						Qvalue
36) 1,4-Dioxane	1.785	88	186m	0.03	ppm	

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

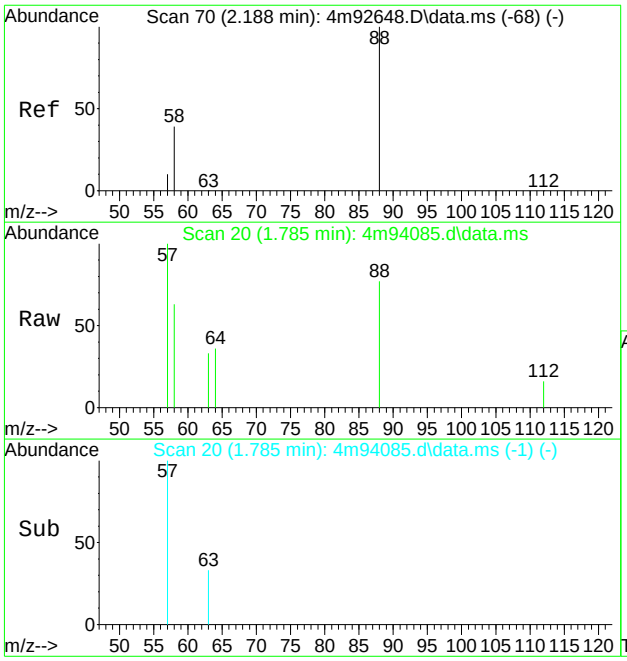
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\data_aimeel\e4m4348\
Data File : 4m94085.d
Acq On : 23 Jul 2020 7:52 am
Operator : chriss2
Sample : jd10244-4 Inst : GCMS4M
Misc : op28540a,e4m4348,1000,,,1,1
ALS Vial : 24 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Results File: M4M4347SIM.RES
Quant Time: Jul 24 04:26:04 2020
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Fri Jul 24 03:13:51 2020
Response via : Initial Calibration



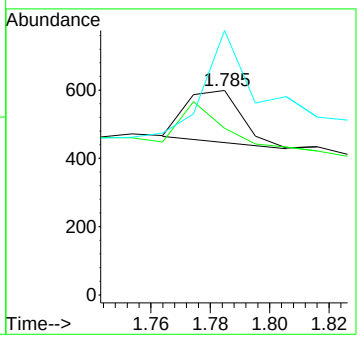
M4M4347SIM.M Fri Jul 24 04:35:29 2020 Page: 2



#36
1,4-Dioxane
Concen: 0.03 ppm m
RT: 1.785 min Scan# 20
Delta R.T. 0.021 min
Lab File: 4m94085.d
Acq: 23 Jul 2020 7:52 am

Tgt Ion: 88 Resp: 186

Ion	Ratio	Lower	Upper
88	100		
58	81.5	31.4	71.4#
57	129.4	0.0	35.1#



Manual Integration Approval Summary

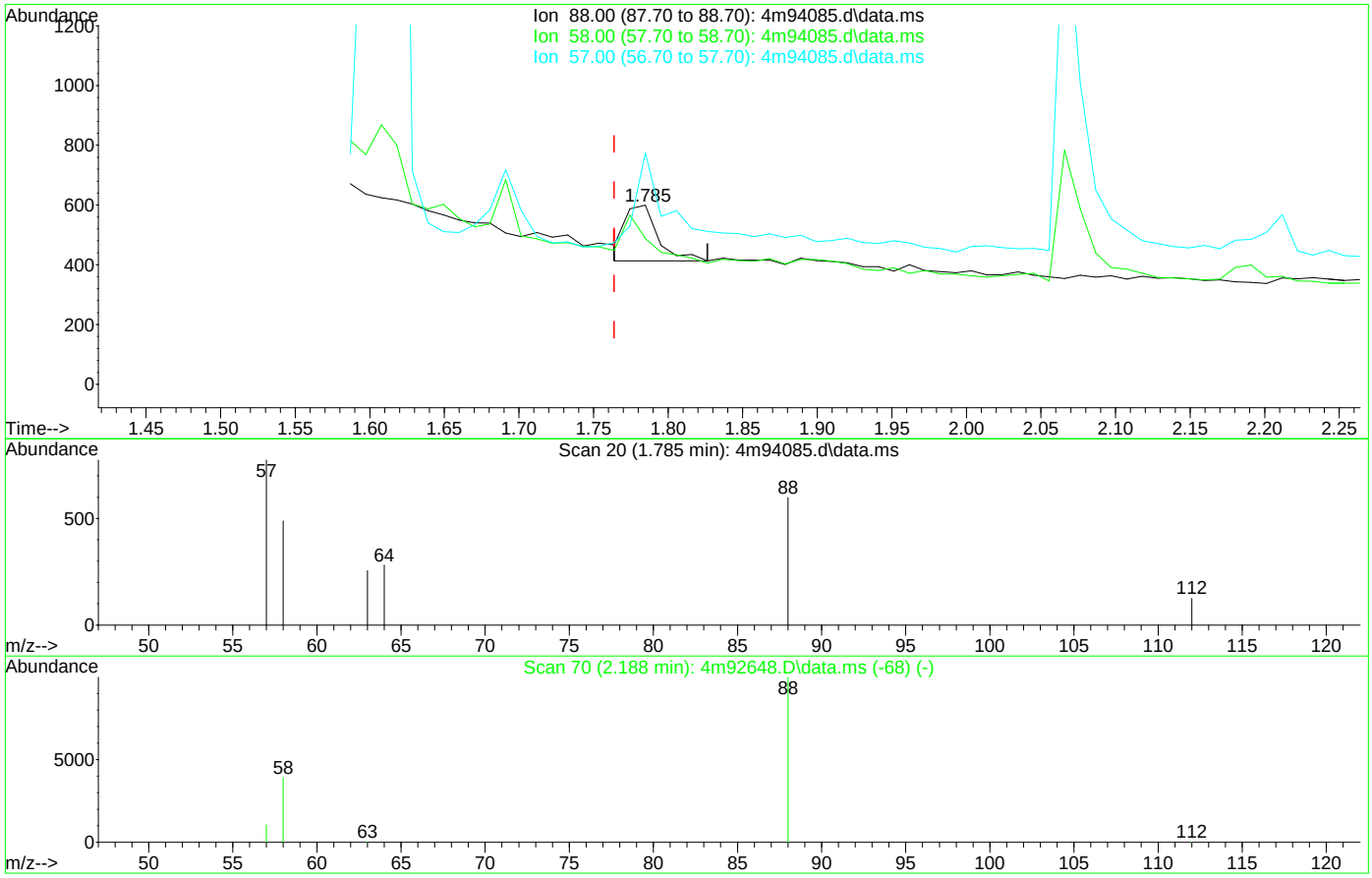
Sample Number: JD10244-4
Lab FileID: 4M94085.D
Injection Time: 07/23/20 07:52
Method: SW846 8270D BY SIM
Analyst approved: 07/24/20 04:41 Aimee Laurente
Supervisor approved: 07/24/20 13:02 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
1,4-Dioxane	123-91-1		1.78	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\data_aimeel\e4m4348\
Data File : 4m94085.d
Acq On : 23 Jul 2020 7:52 am
Operator : chriss2
Sample : jd10244-4 Inst : GCMS4M
Misc : op28540a,e4m4348,1000,,,1,1
ALS Vial : 24 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Results File: M4M4347SIM.RES
Quant Time: Jul 24 03:19:54 2020
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Fri Jul 24 03:13:51 2020
Response via : Initial Calibration



TIC: 4m94085.d\data.ms

(36) 1,4-Dioxane (t)

1.785min (+0.021) 0.05ppm

response 282

Ion	Exp%	Act%
88.00	100	100
58.00	51.40	38.36
57.00	15.10	177.36#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\data_aimeel\e4m4348\
Data File : 4m94086.d
Acq On : 23 Jul 2020 8:13 am
Operator : chriss2
Sample : jd10244-5 Inst : GCMS4M
Misc : op28540a,e4m4348,900,,,1,1
ALS Vial : 25 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Results File: M4M4347SIM.RES
Quant Time: Jul 24 04:27:22 2020
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Fri Jul 24 03:13:51 2020
Response via : Initial Calibration

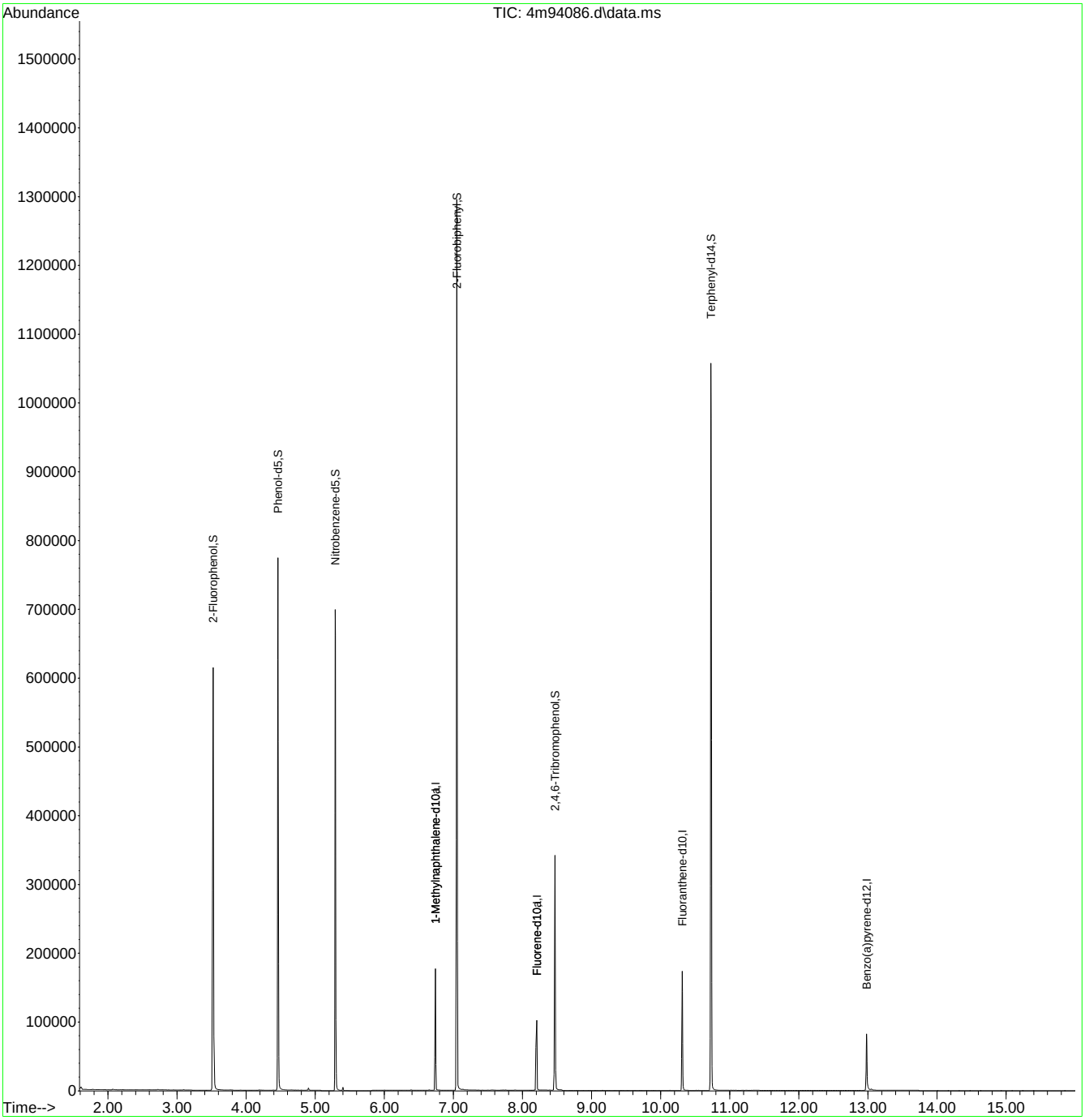
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	6.738	152	57647	4.00	ppm	0.00
12) Fluorene-d10	8.206	176	58386	4.00	ppm	0.00
22) Fluoranthene-d10	10.312	212	108078	4.00	ppm	0.00
28) Benzo(a)pyrene-d12	12.979	264	65490	4.00	ppm	0.00
35) 1-Methylnaphthalene-d10a	6.738	152	57647	4.00	ppm	0.00
38) Fluorene-d10a	8.206	176	58386	4.00	ppm	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	3.523	112	294270	32.18	ppm	0.01
Spiked Amount 50.000	Range 11 - 58		Recovery = 64.36%#			
3) Phenol-d5	4.461	99	383567	32.84	ppm	0.00
Spiked Amount 50.000			Recovery = 65.68%			
6) Nitrobenzene-d5	5.289	82	387541	34.39	ppm	0.00
Spiked Amount 50.000			Recovery = 68.78%			
11) 2-Fluorobiphenyl	7.050	172	696212	34.50	ppm	0.00
Spiked Amount 50.000			Recovery = 69.00%			
17) 2,4,6-Tribromophenol	8.469	330	128299	45.81	ppm	0.00
Spiked Amount 50.000			Recovery = 91.62%			
25) Terphenyl-d14	10.728	244	689112	41.18	ppm	0.00
Spiked Amount 50.000			Recovery = 82.36%			
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\data_aimeel\e4m4348\
Data File : 4m94086.d
Acq On : 23 Jul 2020 8:13 am
Operator : chriss2
Sample : jd10244-5 Inst : GCMS4M
Misc : op28540a,e4m4348,900,,,1,1
ALS Vial : 25 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Results File: M4M4347SIM.RES
Quant Time: Jul 24 04:27:22 2020
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Fri Jul 24 03:13:51 2020
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya 07/27/20 10:14

Quantitation Report (QT Reviewed)

Data Path : Z:\svoa-gcms\completed\00_2020\07_jul\07-24-2020\aimeel\e4m4348
Data File : 4m94065.d
Acq On : 23 Jul 2020 12:49 am
Operator : chriss2
Sample : op28540a-mb1
Misc : op28540a,e4m4348,1000,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 27 10:09:44 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Fri Jul 24 03:13:51 2020
Response via : Initial Calibration

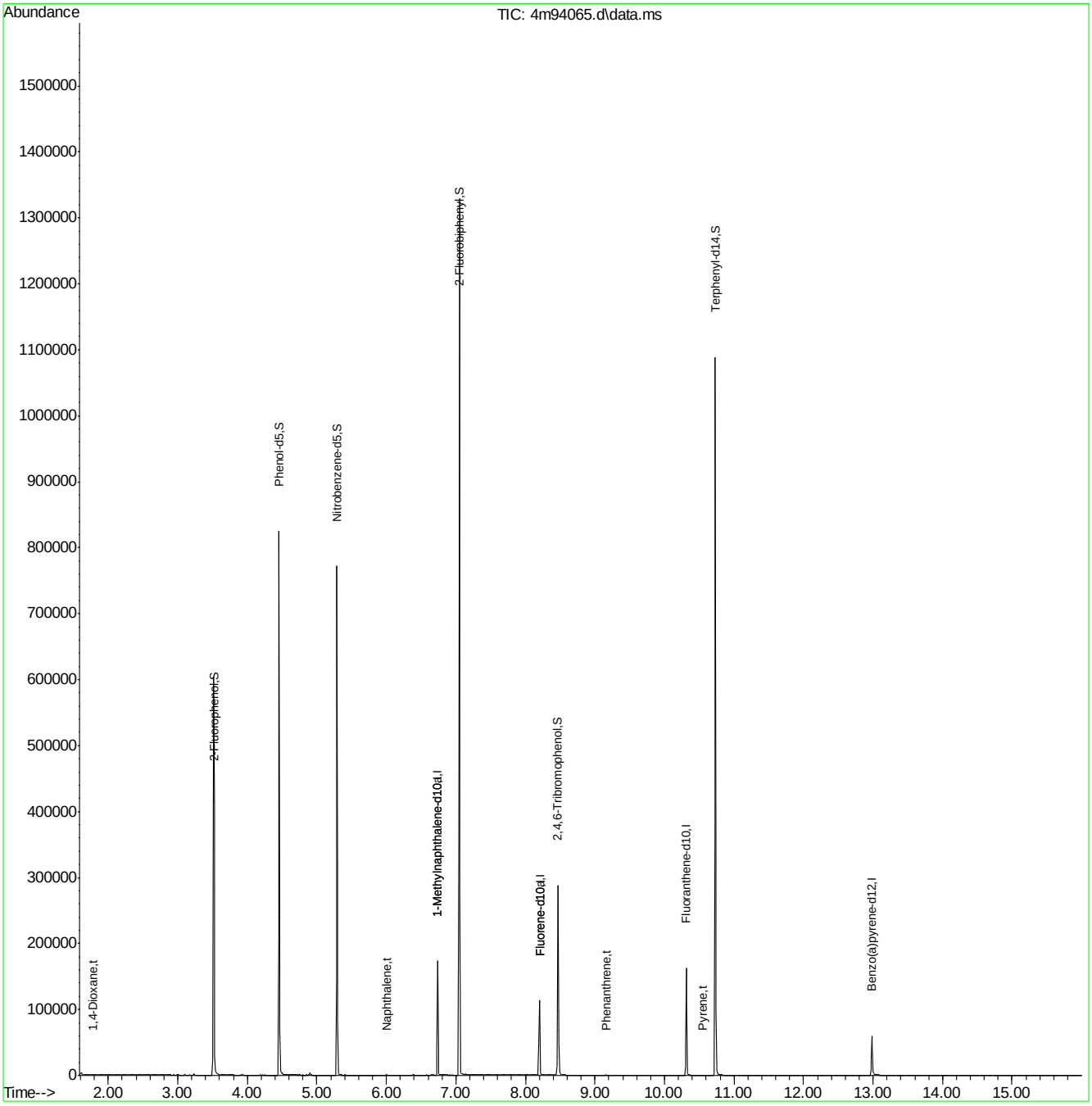
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	6.738	152	54078	4.00	ppm	0.00
12) Fluorene-d10	8.206	176	57702	4.00	ppm	0.00
22) Fluoranthene-d10	10.315	212	98486	4.00	ppm	0.00
28) Benzo(a)pyrene-d12	12.983	264	49466	4.00	ppm	0.00
35) 1-Methylnaphthalene-d10a	6.738	152	54078	4.00	ppm	0.00
38) Fluorene-d10a	8.206	176	57702	4.00	ppm	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	3.523	112	291990	34.03	ppm	0.01
Spiked Amount 50.000	Range 11 - 58		Recovery =	68.06%#		
3) Phenol-d5	4.457	99	389259	35.53	ppm	0.00
Spiked Amount 50.000			Recovery =	71.06%		
6) Nitrobenzene-d5	5.289	82	412960	39.06	ppm	0.00
Spiked Amount 50.000			Recovery =	78.12%		
11) 2-Fluorobiphenyl	7.050	172	708299	37.41	ppm	0.00
Spiked Amount 50.000			Recovery =	74.82%		
17) 2,4,6-Tribromophenol	8.468	330	113244	40.92	ppm	0.00
Spiked Amount 50.000			Recovery =	81.84%		
25) Terphenyl-d14	10.731	244	665050	43.61	ppm	0.00
Spiked Amount 50.000			Recovery =	87.22%		
Target Compounds						Qvalue
7) Naphthalene	6.001	128	137	0.01	ppm	97
20) Phenanthrene	9.157	178	236	0.01	ppm	98
24) Pyrene	10.550	202	166	0.01	ppm	93
36) 1,4-Dioxane	1.774	88	225m	0.05	ppm	

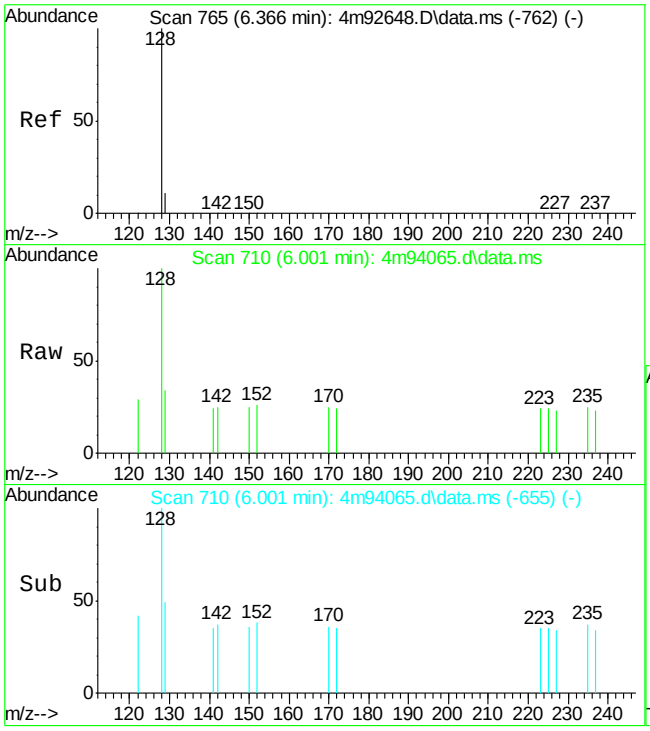
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : Z:\svoa-gcms\completed\00_2020\07_jul\07-24-2020\aimeel\e4m4348\
Data File : 4m94065.d
Acq On : 23 Jul 2020 12:49 am
Operator : chriss2
Sample : op28540a-mb1
Misc : op28540a,e4m4348,1000,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 27 10:09:44 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Fri Jul 24 03:13:51 2020
Response via : Initial Calibration

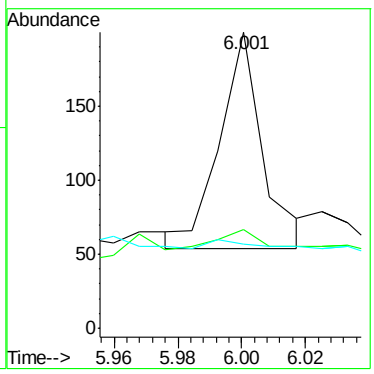


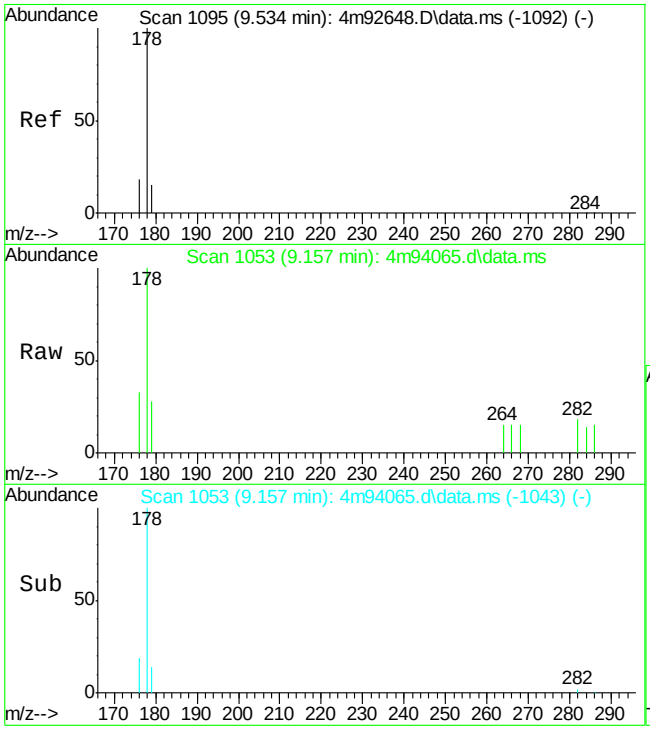


#7
Naphthalene
Concen: 0.01 ppm
RT: 6.001 min Scan# 710
Delta R.T. -0.000 min
Lab File: 4m94065.d
Acq: 23 Jul 2020 12:49 am

Tgt Ion:128 Resp: 137

Ion	Ratio	Lower	Upper
128	100		
129	10.0	0.0	41.2
122	1.5	0.0	30.1

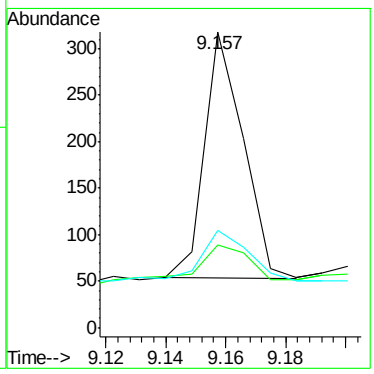


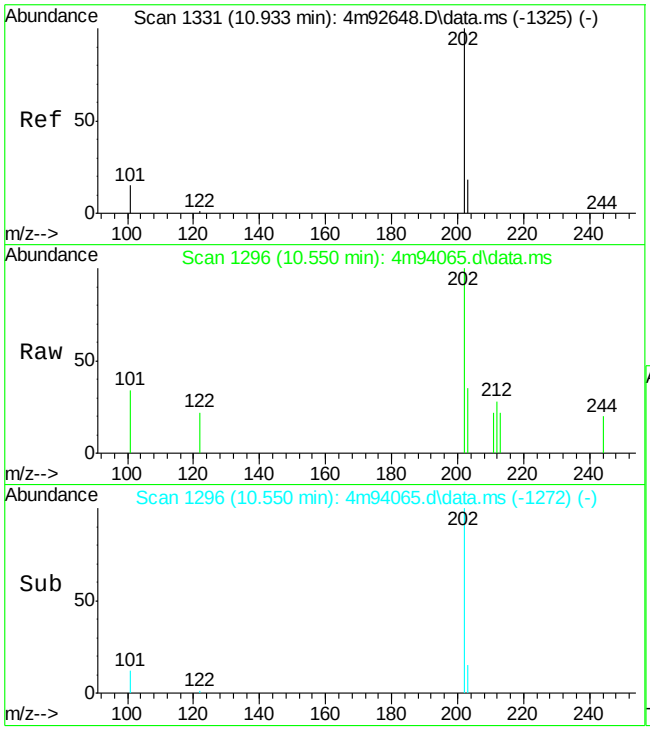


#20
Phenanthrene
Concen: 0.01 ppm
RT: 9.157 min Scan# 1053
Delta R.T. -0.000 min
Lab File: 4m94065.d
Acq: 23 Jul 2020 12:49 am

Tgt Ion:178 Resp: 236

Ion	Ratio	Lower	Upper
178	100		
179	13.6	0.0	44.7
176	20.3	0.0	49.4

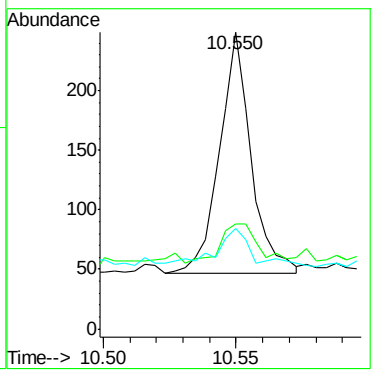


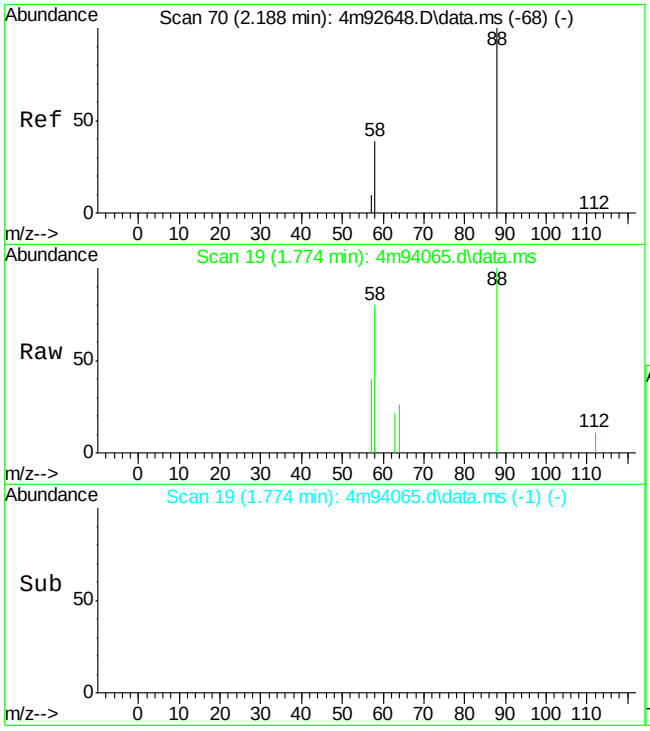


#24
Pyrene
Concen: 0.01 ppm
RT: 10.550 min Scan# 1296
Delta R.T. -0.000 min
Lab File: 4m94065.d
Acq: 23 Jul 2020 12:49 am

Tgt Ion:202 Resp: 166

Ion	Ratio	Lower	Upper
202	100		
203	14.3	0.0	47.6
101	14.5	0.0	42.3

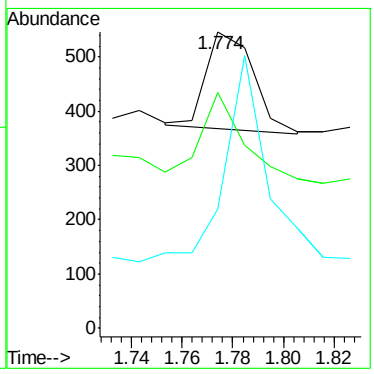




#36
1,4-Dioxane
Concen: 0.05 ppm m
RT: 1.774 min Scan# 19
Delta R.T. 0.010 min
Lab File: 4m94065.d
Acq: 23 Jul 2020 12:49 am

Tgt Ion: 88 Resp: 225

Ion	Ratio	Lower	Upper
88	100		
58	79.7	31.4	71.4#
57	40.3	0.0	35.1#



Manual Integration Approval Summary

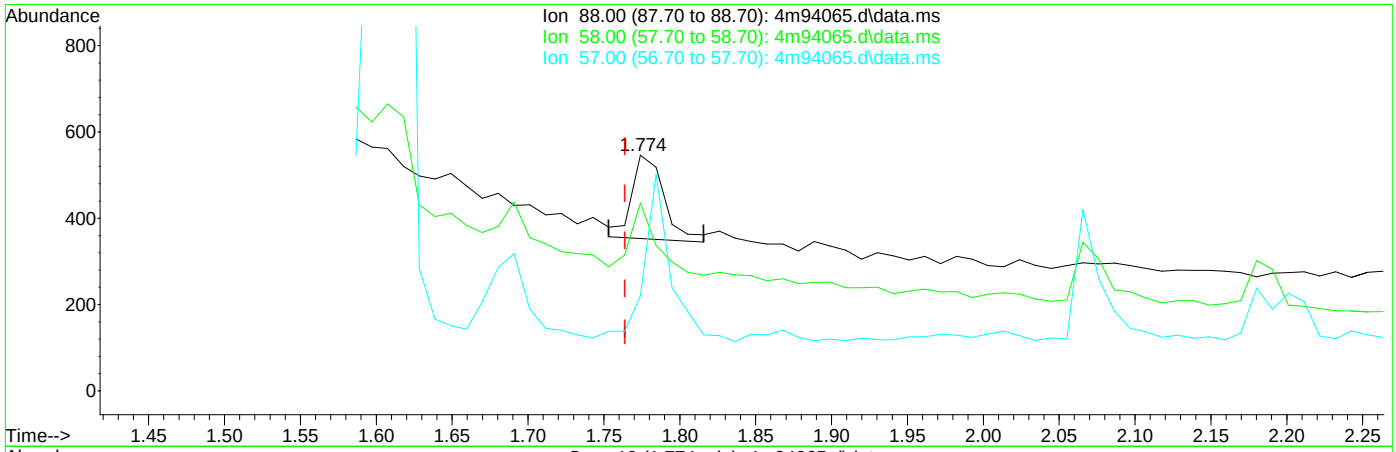
Sample Number: OP28540A-MB1
Lab FileID: 4M94065.D
Injection Time: 07/23/20 00:49
Method: SW846 8270D BY SIM
Analyst approved: 07/24/20 04:41 Aimee Laurente
Supervisor approved: 07/27/20 10:14 Nina Pandya

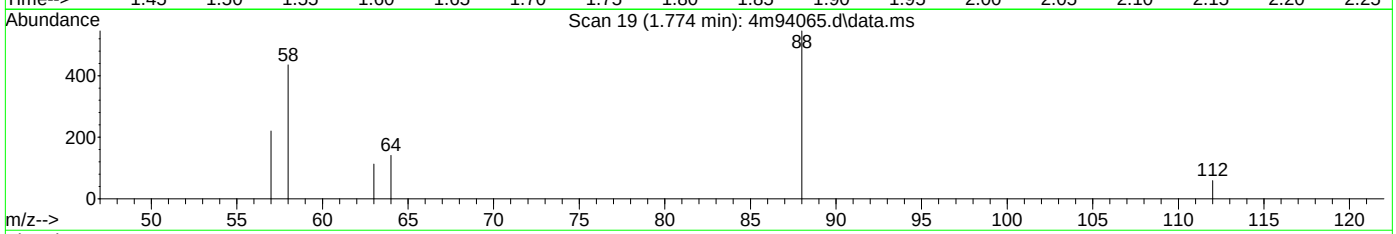
Parameter	CAS	Sig#	R.T. (min.)	Reason
1,4-Dioxane	123-91-1		1.77	Poor instrument integration

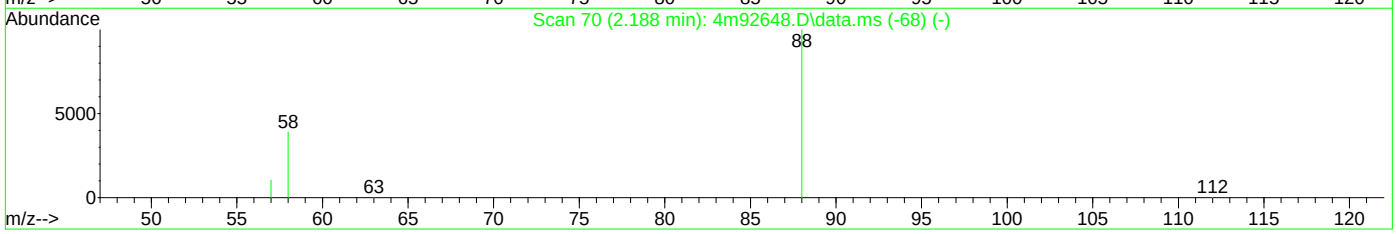
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\data_aimeel\e4m4348\
Data File : 4m94065.d
Acq On : 23 Jul 2020 12:49 am
Operator : chriss2
Sample : op28540a-mb1 Inst : GCMS4M
Misc : op28540a,e4m4348,1000,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Results File: M4M4347SIM.RES
Quant Time: Jul 24 03:18:16 2020
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Fri Jul 24 03:13:51 2020
Response via : Initial Calibration







TIC: 4m94065.d\data.ms

(36) 1,4-Dioxane (t)

1.774min (+0.010) 0.06ppm

response 282

Ion	Exp%	Act%
88.00	100	100
58.00	51.40	89.46#
57.00	15.10	49.00#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\data_aimeel\e4m4348\
Data File : 4m94066.d
Acq On : 23 Jul 2020 1:11 am
Operator : chriss2
Sample : op28540a-bs12 Inst : GCMS4M
Misc : op28540a,e4m4348,1000,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Results File: M4M4347SIM.RES
Quant Time: Jul 24 03:31:50 2020
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Fri Jul 24 03:13:51 2020
Response via : Initial Calibration

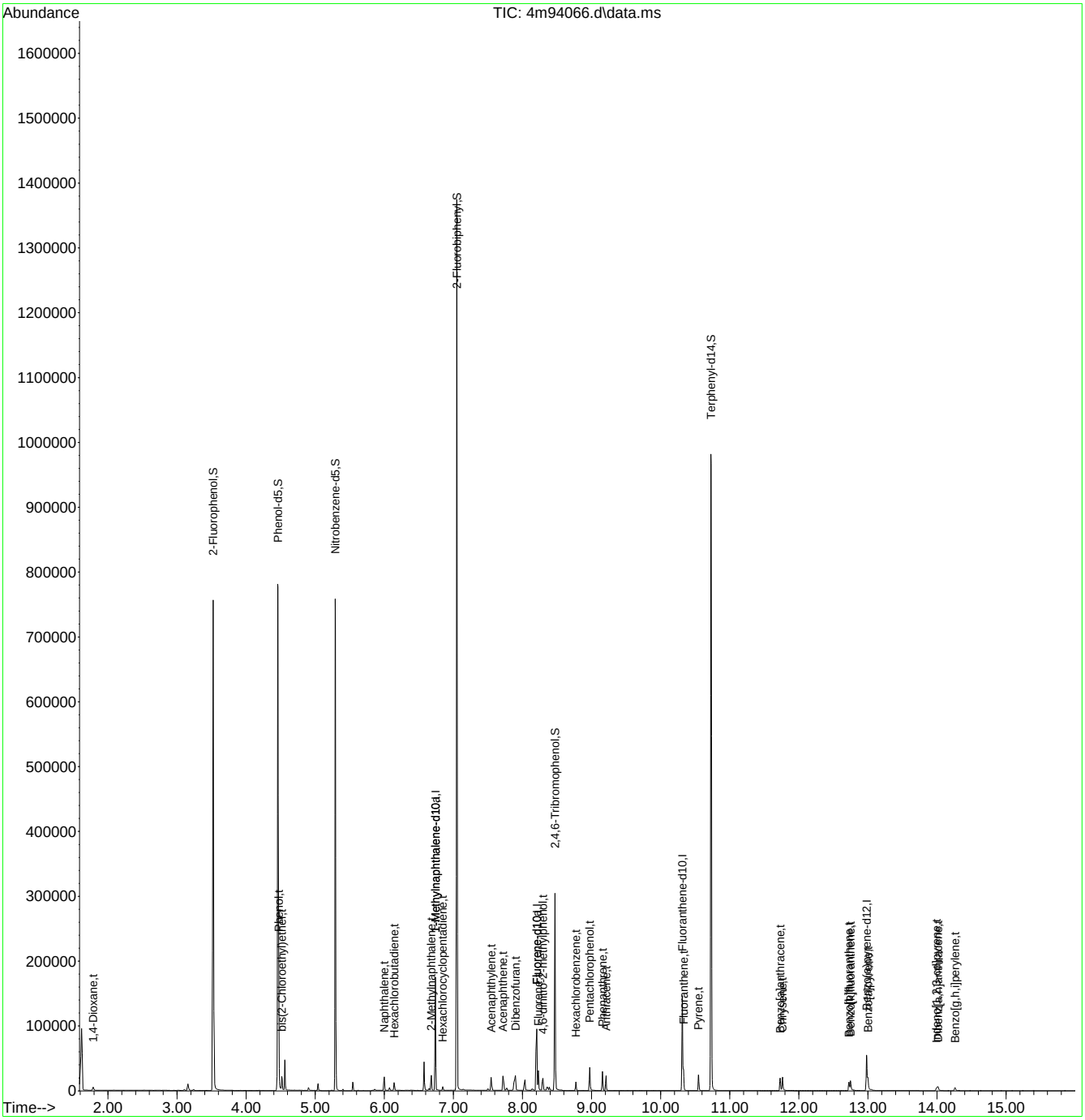
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1-Methylnaphthalene-d10	6.738	152	54395	4.00	ppm		0.00
12) Fluorene-d10	8.206	176	54874	4.00	ppm		0.00
22) Fluoranthene-d10	10.312	212	93514	4.00	ppm		0.00
28) Benzo(a)pyrene-d12	12.979	264	47292	4.00	ppm		0.00
35) 1-Methylnaphthalene-d10a	6.738	152	54395	4.00	ppm		0.00
38) Fluorene-d10a	8.206	176	54874	4.00	ppm		0.00
System Monitoring Compounds							
2) 2-Fluorophenol	3.523	112	321437	37.25	ppm		0.01
Spiked Amount 50.000	Range 11 - 58		Recovery = 74.50%#				
3) Phenol-d5	4.461	99	388302	35.23	ppm		0.00
Spiked Amount 50.000			Recovery = 70.46%				
6) Nitrobenzene-d5	5.289	82	416808	39.20	ppm		0.00
Spiked Amount 50.000			Recovery = 78.40%				
11) 2-Fluorobiphenyl	7.050	172	713785	37.48	ppm		0.00
Spiked Amount 50.000			Recovery = 74.96%				
17) 2,4,6-Tribromophenol	8.469	330	114841	43.63	ppm		0.00
Spiked Amount 50.000			Recovery = 87.26%				
25) Terphenyl-d14	10.732	244	651345	44.98	ppm		0.00
Spiked Amount 50.000			Recovery = 89.96%				
Target Compounds							Qvalue
4) Phenol	4.472	94	60937	5.18	ppm		89
5) bis(2-Chloroethyl)ether	4.518	93	6033	0.66	ppm		91
7) Naphthalene	6.001	128	17056	0.62	ppm		99
8) Hexachlorobutadiene	6.140	225	4046	0.63	ppm		99
9) 2-Methylnaphthalene	6.681	142	10932	0.66	ppm		98
10) Hexachlorocyclopentadiene	6.845	237	2734	0.51	ppm		100
13) Acenaphthylene	7.544	152	13875	0.57	ppm		99
14) Acenaphthene	7.716	153	9270	0.59	ppm	#	67
15) Dibenzofuran	7.898	168	15845	0.69	ppm		88
16) Fluorene	8.229	166	11981	0.62	ppm		97
18) Hexachlorobenzene	8.774	284	4378	0.65	ppm		97
19) Pentachlorophenol	8.975	266	15181	4.88	ppm		96
20) Phenanthrene	9.157	178	16680	0.64	ppm		100
21) Anthracene	9.210	178	14158	0.60	ppm		100
23) Fluoranthene	10.330	202	19345	0.64	ppm		98
24) Pyrene	10.546	202	16398	0.61	ppm		98
26) Benzo[a]anthracene	11.730	228	11068	0.59	ppm		99
27) Chrysene	11.765	228	14556	0.65	ppm		99
29) Benzo[b]fluoranthene	12.724	252	8462	0.55	ppm		95
30) Benzo[k]fluoranthene	12.747	252	11618	0.67	ppm		98
31) Benzo[a]pyrene	12.998	252	11000	0.62	ppm		99
32) Indeno[1,2,3-cd]pyrene	13.995	276	7715	0.51	ppm		87
33) Dibenz[a,h]anthracene	14.011	278	6010	0.47	ppm		98
34) Benzo[g,h,i]perylene	14.260	276	7152	0.55	ppm		99
36) 1,4-Dioxane	1.785	88	2844	0.57	ppm		94
39) 4,6-dinitro-2-methylph...	8.297	198	11318	4.47	ppm		96

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\data_aimeel\e4m4348\
Data File : 4m94066.d
Acq On : 23 Jul 2020 1:11 am
Operator : chriss2
Sample : op28540a-bs12 Inst : GCMS4M
Misc : op28540a,e4m4348,1000,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Results File: M4M4347SIM.RES
Quant Time: Jul 24 03:31:50 2020
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Fri Jul 24 03:13:51 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\data_aimeel\e4m4348\
Data File : 4m94078.d
Acq On : 23 Jul 2020 5:25 am
Operator : chriss2
Sample : op28540a-msa Inst : GCMS4M
Misc : op28540a,e4m4348,1000,,,1,1
ALS Vial : 17 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Results File: M4M4347SIM.RES
Quant Time: Jul 24 04:10:15 2020
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Fri Jul 24 03:13:51 2020
Response via : Initial Calibration

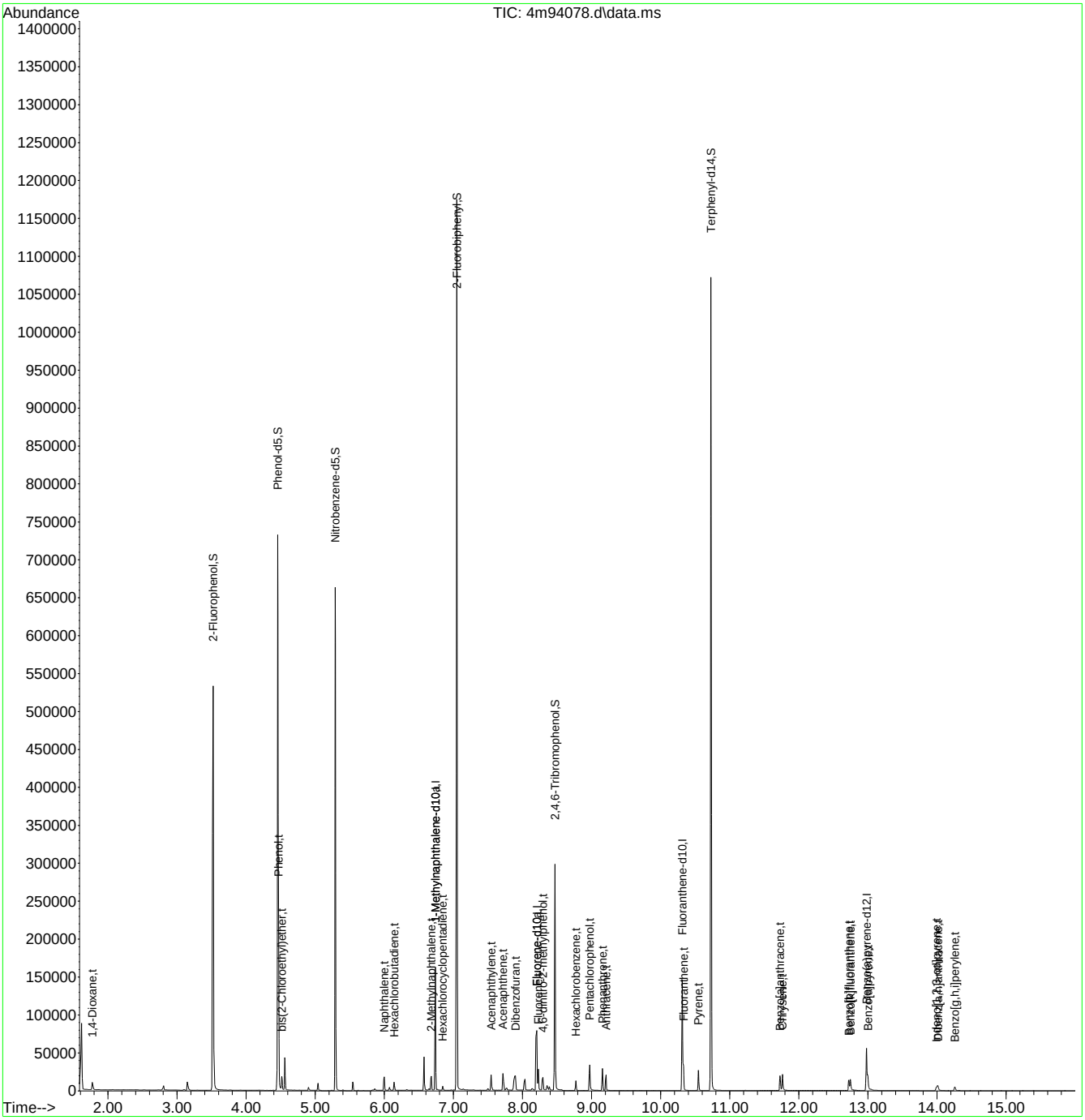
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1-Methylnaphthalene-d10	6.738	152	52396	4.00	ppm		0.00
12) Fluorene-d10	8.206	176	52815	4.00	ppm		0.00
22) Fluoranthene-d10	10.311	212	91491	4.00	ppm		0.00
28) Benzo(a)pyrene-d12	12.979	264	45875	4.00	ppm		0.00
35) 1-Methylnaphthalene-d10a	6.738	152	52396	4.00	ppm		0.00
38) Fluorene-d10a	8.206	176	52815	4.00	ppm		0.00
System Monitoring Compounds							
2) 2-Fluorophenol	3.523	112	267316	32.16	ppm		0.01
Spiked Amount 50.000	Range 11 - 58		Recovery = 64.32%#				
3) Phenol-d5	4.457	99	344760	32.47	ppm		0.00
Spiked Amount 50.000			Recovery = 64.94%				
6) Nitrobenzene-d5	5.289	82	359808	35.13	ppm		0.00
Spiked Amount 50.000			Recovery = 70.26%				
11) 2-Fluorobiphenyl	7.050	172	642509	35.03	ppm		0.00
Spiked Amount 50.000			Recovery = 70.06%				
17) 2,4,6-Tribromophenol	8.468	330	112869	44.55	ppm		0.00
Spiked Amount 50.000			Recovery = 89.10%				
25) Terphenyl-d14	10.728	244	650395	45.91	ppm		0.00
Spiked Amount 50.000			Recovery = 91.82%				
Target Compounds							Qvalue
4) Phenol	4.468	94	57193	5.05	ppm		98
5) bis(2-Chloroethyl)ether	4.517	93	5291	0.60	ppm		94
7) Naphthalene	6.001	128	15431	0.59	ppm		99
8) Hexachlorobutadiene	6.140	225	3489	0.57	ppm		98
9) 2-Methylnaphthalene	6.681	142	9791	0.61	ppm		98
10) Hexachlorocyclopentadiene	6.845	237	2254	0.44	ppm		100
13) Acenaphthylene	7.544	152	13198	0.56	ppm		99
14) Acenaphthene	7.715	153	8582	0.57	ppm	#	68
15) Dibenzofuran	7.898	168	14889	0.68	ppm		73
16) Fluorene	8.229	166	11114	0.60	ppm		97
18) Hexachlorobenzene	8.774	284	4188	0.64	ppm		97
19) Pentachlorophenol	8.974	266	16153	5.36	ppm		92
20) Phenanthrene	9.157	178	16695	0.67	ppm		99
21) Anthracene	9.210	178	14317	0.63	ppm		99
23) Fluoranthene	10.330	202	19795	0.67	ppm		98
24) Pyrene	10.546	202	16879	0.64	ppm		98
26) Benzo[a]anthracene	11.727	228	11111	0.61	ppm		99
27) Chrysene	11.762	228	14519	0.67	ppm		100
29) Benzo[b]fluoranthene	12.724	252	8486	0.57	ppm		94
30) Benzo[k]fluoranthene	12.747	252	11665	0.69	ppm		98
31) Benzo[a]pyrene	12.998	252	10993	0.63	ppm		97
32) Indeno[1,2,3-cd]pyrene	13.991	276	8063	0.55	ppm		99
33) Dibenz[a,h]anthracene	14.011	278	6243	0.51	ppm		96
34) Benzo[g,h,i]perylene	14.257	276	7472	0.59	ppm		99
36) 1,4-Dioxane	1.774	88	5452	1.13	ppm		91
39) 4,6-dinitro-2-methylph...	8.297	198	10658	4.39	ppm		92

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\data_aimeel\e4m4348\
Data File : 4m94078.d
Acq On : 23 Jul 2020 5:25 am
Operator : chriss2
Sample : op28540a-msa Inst : GCMS4M
Misc : op28540a,e4m4348,1000,,,1,1
ALS Vial : 17 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Results File: M4M4347SIM.RES
Quant Time: Jul 24 04:10:15 2020
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Fri Jul 24 03:13:51 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\data_aimeel\e4m4348\
Data File : 4m94079.d
Acq On : 23 Jul 2020 5:46 am
Operator : chriss2
Sample : op28540a-msda Inst : GCMS4M
Misc : op28540a,e4m4348,1000,,,1,1
ALS Vial : 18 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Results File: M4M4347SIM.RES
Quant Time: Jul 24 04:12:19 2020
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Fri Jul 24 03:13:51 2020
Response via : Initial Calibration

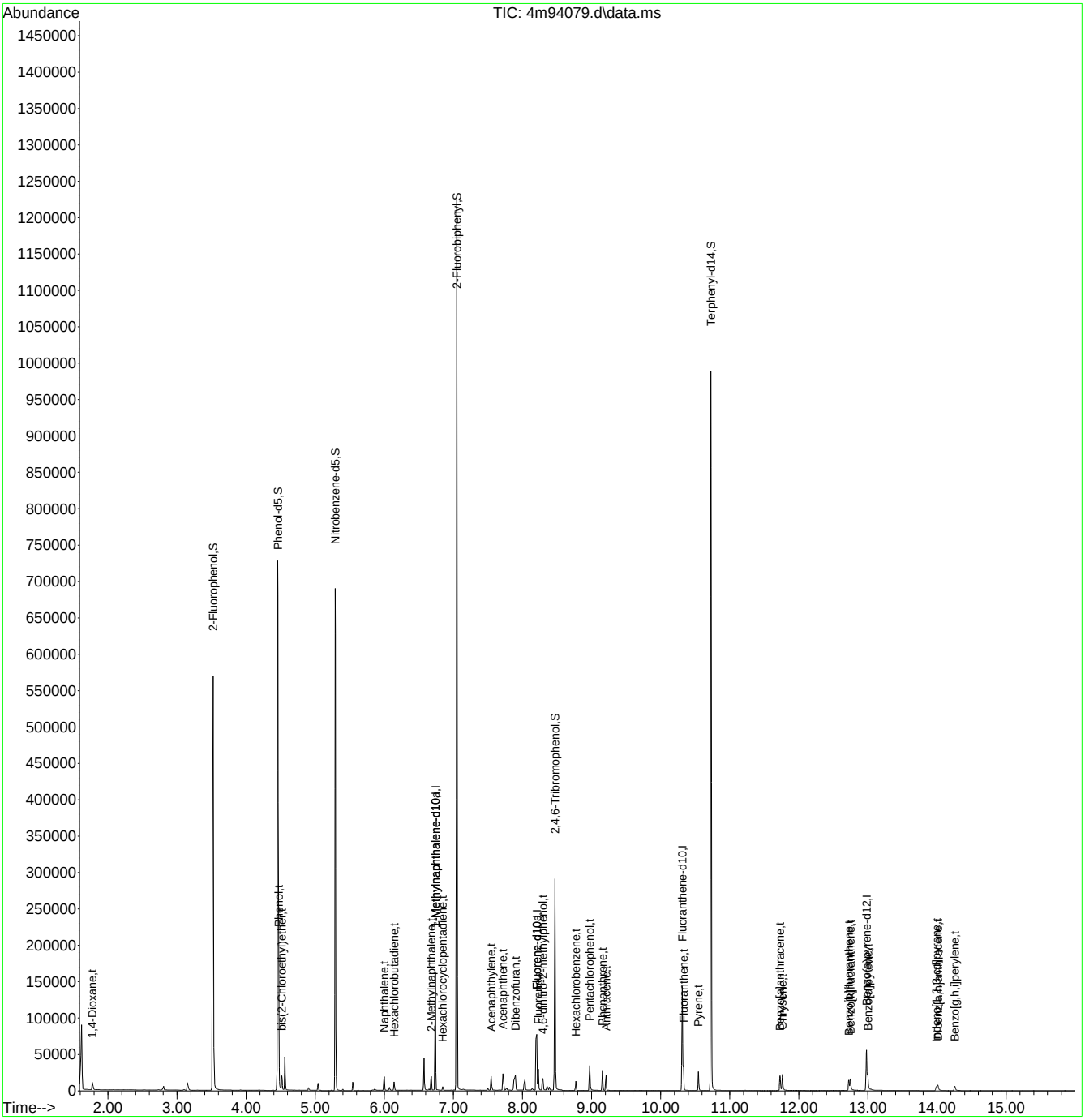
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1-Methylnaphthalene-d10	6.738	152	51943	4.00	ppm		0.00
12) Fluorene-d10	8.206	176	51803	4.00	ppm		0.00
22) Fluoranthene-d10	10.311	212	89594	4.00	ppm		0.00
28) Benzo(a)pyrene-d12	12.979	264	48066	4.00	ppm		0.00
35) 1-Methylnaphthalene-d10a	6.738	152	51943	4.00	ppm		0.00
38) Fluorene-d10a	8.206	176	51803	4.00	ppm		0.00
System Monitoring Compounds							
2) 2-Fluorophenol	3.523	112	281234	34.13	ppm		0.01
Spiked Amount 50.000	Range 11 - 58		Recovery = 68.26%#				
3) Phenol-d5	4.461	99	361847	34.38	ppm		0.00
Spiked Amount 50.000			Recovery = 68.76%				
6) Nitrobenzene-d5	5.289	82	377781	37.20	ppm		0.00
Spiked Amount 50.000			Recovery = 74.40%				
11) 2-Fluorobiphenyl	7.050	172	655417	36.04	ppm		0.00
Spiked Amount 50.000			Recovery = 72.08%				
17) 2,4,6-Tribromophenol	8.468	330	109377	44.02	ppm		0.00
Spiked Amount 50.000			Recovery = 88.04%				
25) Terphenyl-d14	10.728	244	622118	44.84	ppm		0.00
Spiked Amount 50.000			Recovery = 89.68%				
Target Compounds							Qvalue
4) Phenol	4.472	94	60629	5.40	ppm		85
5) bis(2-Chloroethyl)ether	4.517	93	5597	0.65	ppm		94
7) Naphthalene	6.001	128	15585	0.60	ppm		99
8) Hexachlorobutadiene	6.140	225	3674	0.60	ppm		100
9) 2-Methylnaphthalene	6.681	142	9786	0.62	ppm		99
10) Hexachlorocyclopentadiene	6.845	237	2288	0.45	ppm		94
13) Acenaphthylene	7.544	152	12891	0.56	ppm		99
14) Acenaphthene	7.716	153	8572	0.58	ppm	#	69
15) Dibenzofuran	7.898	168	14778	0.68	ppm		81
16) Fluorene	8.229	166	11342	0.62	ppm		98
18) Hexachlorobenzene	8.774	284	4233	0.66	ppm		96
19) Pentachlorophenol	8.974	266	15965	5.40	ppm		93
20) Phenanthrene	9.157	178	16117	0.66	ppm		99
21) Anthracene	9.210	178	13349	0.60	ppm		99
23) Fluoranthene	10.330	202	19172	0.67	ppm		99
24) Pyrene	10.546	202	15929	0.61	ppm		98
26) Benzo[a]anthracene	11.727	228	12081	0.67	ppm		98
27) Chrysene	11.762	228	15298	0.72	ppm		100
29) Benzo[b]fluoranthene	12.724	252	9950	0.63	ppm		96
30) Benzo[k]fluoranthene	12.747	252	13005	0.74	ppm		99
31) Benzo[a]pyrene	12.998	252	11981	0.66	ppm		98
32) Indeno[1,2,3-cd]pyrene	13.991	276	9691	0.63	ppm		98
33) Dibenz[a,h]anthracene	14.011	278	7527	0.58	ppm		99
34) Benzo[g,h,i]perylene	14.257	276	9264	0.70	ppm		100
36) 1,4-Dioxane	1.774	88	5647	1.19	ppm		74
39) 4,6-dinitro-2-methylph...	8.297	198	10263	4.32	ppm		92

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\data_aimeel\e4m4348\
Data File : 4m94079.d
Acq On : 23 Jul 2020 5:46 am
Operator : chriss2
Sample : op28540a-msda Inst : GCMS4M
Misc : op28540a,e4m4348,1000,,,1,1
ALS Vial : 18 Sample Multiplier: 1

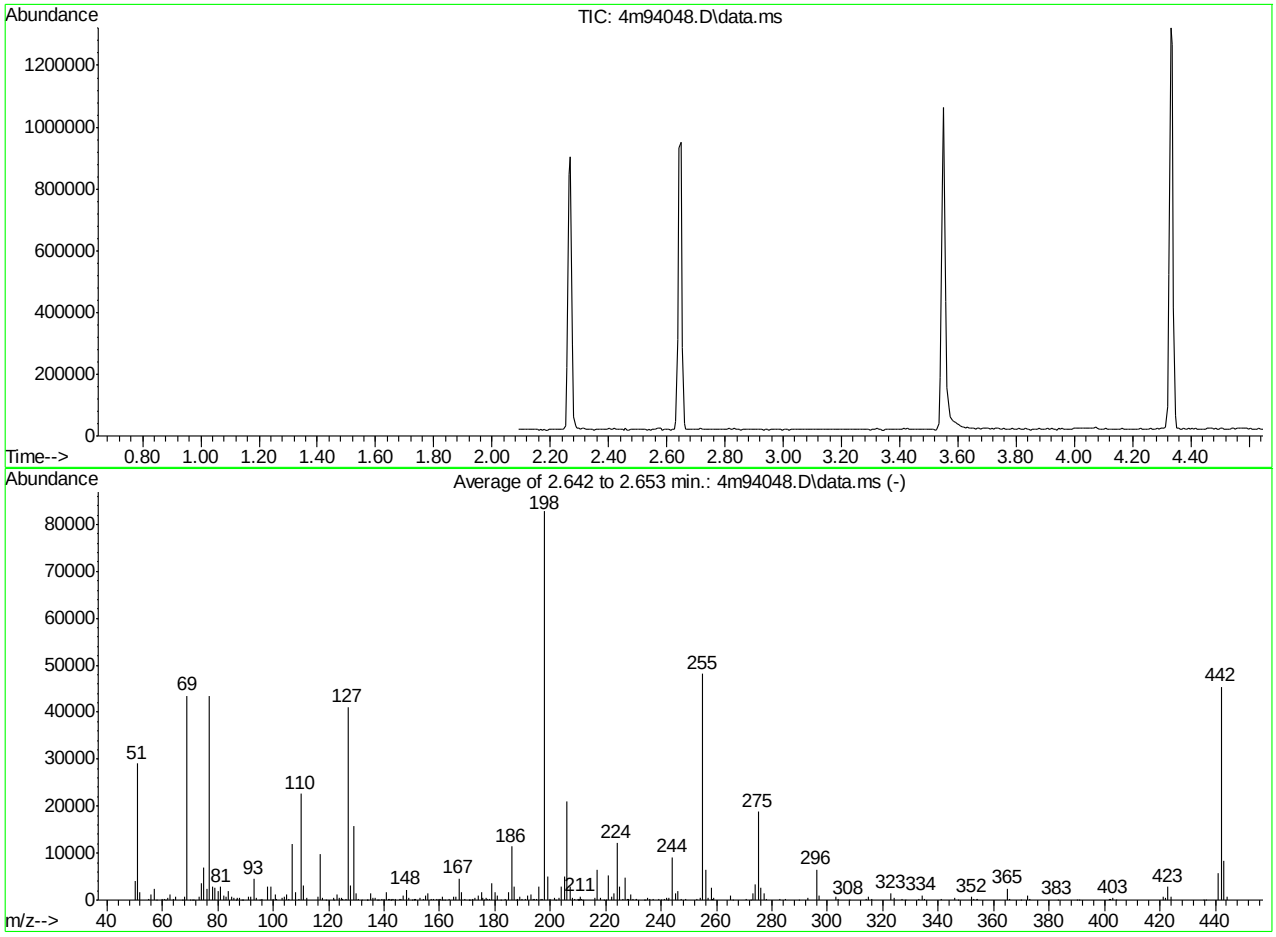
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Results File: M4M4347SIM.RES
Quant Time: Jul 24 04:12:19 2020
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Fri Jul 24 03:13:51 2020
Response via : Initial Calibration



DFTPP

Data File : C:\msdchem\1\DATA\E4M4347\4m94048.D Vial: 1
Acq On : 22 Jul 2020 8:29 am Operator: angelar
Sample : dftpp Inst : GCMS4M
Misc : op25425a,e4m4347,1000,,,1,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\METHODS\dftpp4m.m (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5 30m x .25mm x .50um



AutoFind: Scans 97, 98, 99; Background Corrected with Scan 92

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	35.2	29114	PASS
68	69	0.00	2	1.5	661	PASS
69	198	0.00	100	52.7	43569	PASS
70	69	0.00	2	0.2	105	PASS
127	198	40	60	49.7	41100	PASS
197	198	0.00	1	0.3	226	PASS
198	198	100	100	100.0	82752	PASS
199	198	5	9	6.0	4964	PASS
275	198	10	30	22.8	18845	PASS
365	198	1	100	2.9	2419	PASS
441	443	0.01	100	68.2	5621	PASS
442	198	40	100	54.9	45419	PASS
443	442	17	23	18.2	8245	PASS

4m94048.D dftpp4m.m Wed Jul 22 12:26:42 2020

Average of 2.642 to 2.653 min.: 4m94048.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
50.00	4187	62.90	1225	75.00	6837	85.90	519
51.00	29114	63.95	194	76.00	2392	86.80	101
52.00	1625	64.95	669	77.00	43463	87.05	586
55.05	251	67.00	125	78.00	2824	87.90	548
55.95	1103	67.95	661	78.95	2592	88.80	105
57.00	2439	69.00	43569	79.95	1933	89.10	74
57.90	68	69.90	105	81.00	2774	91.00	753
60.10	209	70.90	86	82.00	951	91.95	627
60.75	254	71.10	72	83.10	671	93.00	4484
61.20	102	73.05	628	83.90	1884	94.00	376
62.00	495	74.00	3579	84.80	621	94.90	78

Average of 2.642 to 2.653 min.: 4m94048.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
95.95	311	107.95	1788	123.00	1095	133.90	117
98.00	2938	109.10	183	123.85	534	134.10	83
99.00	2954	110.00	22654	124.75	418	135.00	1509
100.00	176	111.00	3089	125.20	193	136.00	416
100.90	1254	111.95	426	126.05	215	136.85	441
101.10	168	115.95	843	127.00	41100	137.60	89
103.00	484	117.00	9891	128.00	3005	138.10	72
103.95	717	117.90	491	129.00	15751	139.10	157
105.00	1231	118.90	83	130.00	1498	140.00	238
105.80	210	121.70	123	130.90	221	140.95	1560
107.00	11931	121.95	543	132.00	85	141.80	257

Average of 2.642 to 2.653 min.: 4m94048.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
142.00	344	150.80	257	160.10	283	170.90	110
142.60	85	151.10	122	160.90	841	171.80	283
142.90	194	151.40	165	161.10	110	172.95	594
143.10	185	153.00	407	161.90	71	174.00	871
143.90	133	154.00	366	163.65	145	175.00	1665
145.70	139	154.95	974	164.95	764	175.80	508
146.00	255	155.95	1392	165.95	698	176.10	70
146.95	872	156.90	255	167.00	4542	176.90	603
147.95	2166	157.95	367	167.95	1630	177.10	132
149.00	371	159.00	203	168.95	354	177.95	348
150.10	68	159.90	367	170.60	90	178.95	3616

Average of 2.642 to 2.653 min.: 4m94048.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
180.00	1783	191.00	303	199.95	364	210.00	303
180.95	889	191.95	1081	201.40	451	210.30	239
182.00	126	192.95	1103	201.80	101	210.50	116
183.80	297	193.90	150	203.00	496	210.90	751
185.00	1648	194.10	145	204.00	2816	211.10	156
186.00	11381	194.95	189	205.05	5126	211.50	104
187.00	2930	195.95	2936	206.00	20972	215.95	477
187.80	94	196.80	226	207.00	2989	217.00	6419
188.00	225	197.10	205	208.05	523	218.00	607
188.85	642	198.00	82752	208.95	345	219.20	96
189.90	158	199.00	4964	209.80	119	220.10	115

Average of 2.642 to 2.653 min.: 4m94048.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
221.00	5231	230.90	295	242.20	70	256.95	449
222.05	799	231.10	156	242.95	601	257.95	2637
223.00	1358	233.70	86	244.05	9142	258.70	157
224.00	12166	234.10	125	245.00	1343	259.05	401

dftpp4m.m Wed Jul 22 12:26:34 2020 Page: 0

225.00	2902	234.95	497	246.00	1825	265.05	955
226.10	345	235.95	299	247.05	314	266.00	69
226.95	4713	236.90	359	248.85	271	270.85	334
227.80	221	238.95	232	252.80	198	272.10	88
228.00	310	239.90	83	253.90	602	272.95	1518
229.00	1163	240.95	249	255.00	48123	274.00	3369
229.90	201	241.90	521	256.00	6462	275.00	18845

Average of 2.642 to 2.653 min.: 4m94048.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
276.00	2712	307.80	85	341.10	265	373.00	364
277.00	1516	314.00	235	346.00	449	383.00	105
277.85	209	314.95	710	347.00	91	390.00	70
283.00	206	316.00	342	352.05	706	391.00	74
285.00	288	323.00	1505	352.90	342	401.80	190
289.80	72	323.95	422	353.95	302	402.05	342
293.00	413	326.80	220	354.20	172	403.05	438
296.00	6461	328.00	98	365.00	2419	404.00	95
297.00	892	332.80	185	365.90	336	421.00	656
302.95	672	334.00	1007	370.00	70	422.05	428
303.90	136	334.95	302	372.10	932	423.00	2831

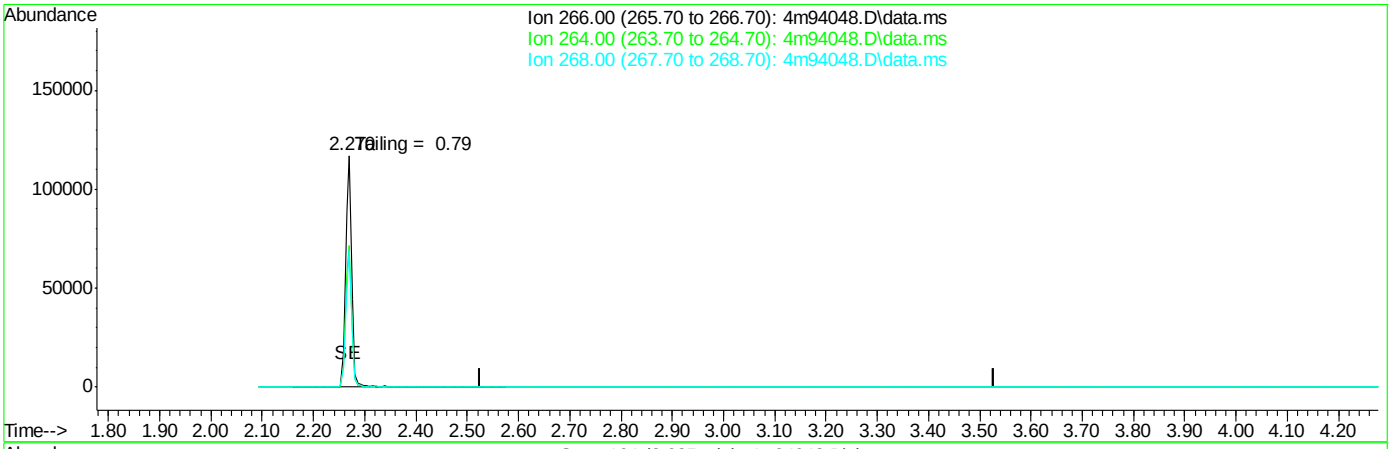
Average of 2.642 to 2.653 min.: 4m94048.D\data.ms
dftpp
Modified:subtracted

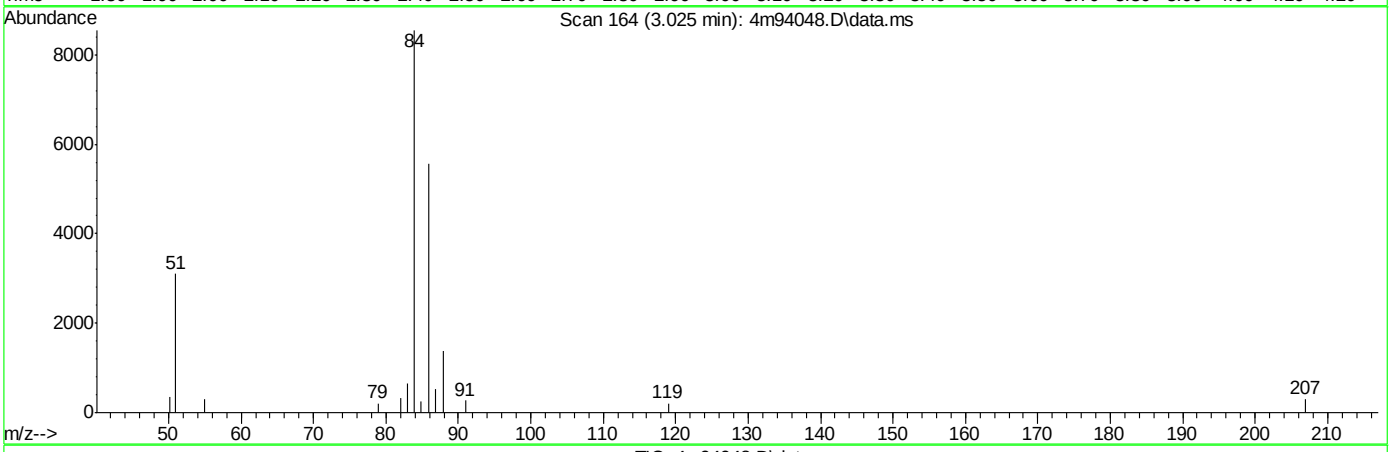
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
423.90	648						
435.60	68						
436.40	109						
441.00	5621						
442.05	45419						
443.00	8245						
444.05	841						

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94048.D
Acq On : 22 Jul 2020 8:29 am
Operator : angelar
Sample : dftpp
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 22 08:36:33 2020
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP4M.M
Quant Title : Semi Volatile GC/MS,zb-5 30m x .25mm x .50um
QLast Update : Sun Apr 05 12:14:16 2020
Response via : Initial Calibration





TIC: 4m94048.D\data.ms

(1) pentachlorophenol (t)

3.027min (-3.027) 0.00ng

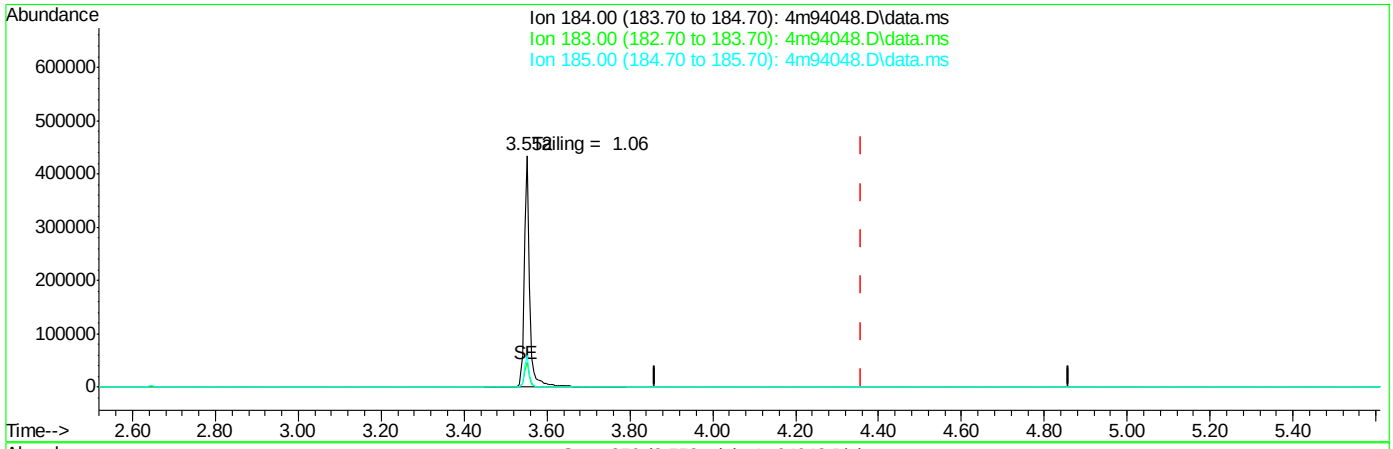
response 0

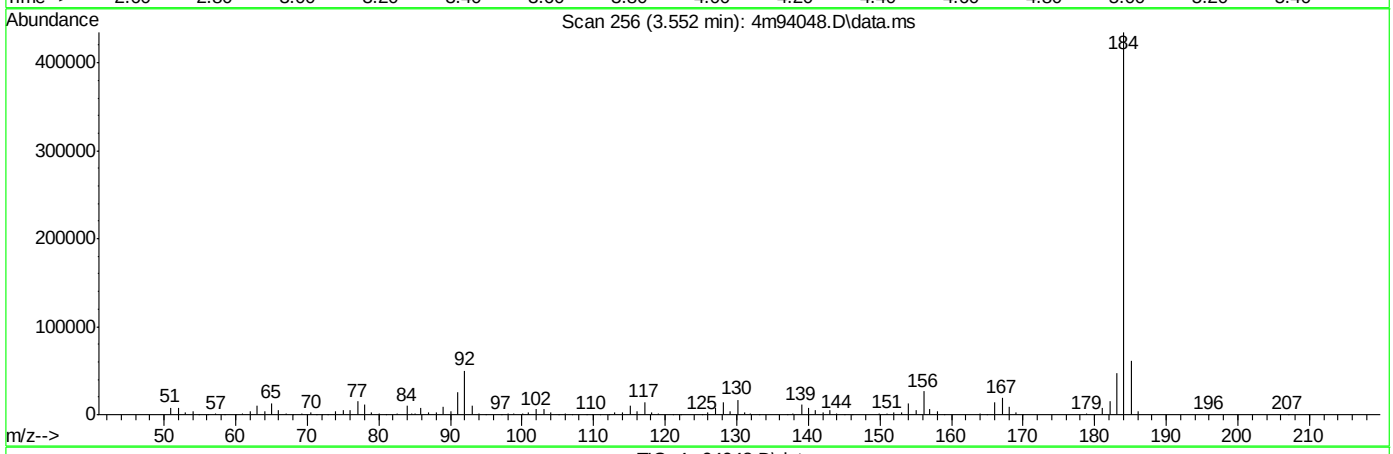
Ion	Exp%	Act%
266.00	100	0.00
264.00	66.80	0.00#
268.00	69.50	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94048.D
Acq On : 22 Jul 2020 8:29 am
Operator : angelar
Sample : dftpp
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 22 08:36:33 2020
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP4M.M
Quant Title : Semi Volatile GC/MS,zb-5 30m x .25mm x .50um
QLast Update : Sun Apr 05 12:14:16 2020
Response via : Initial Calibration





TIC: 4m94048.D\data.ms

(2) benzidine (t)

3.552min (-0.809) 6.78ng m

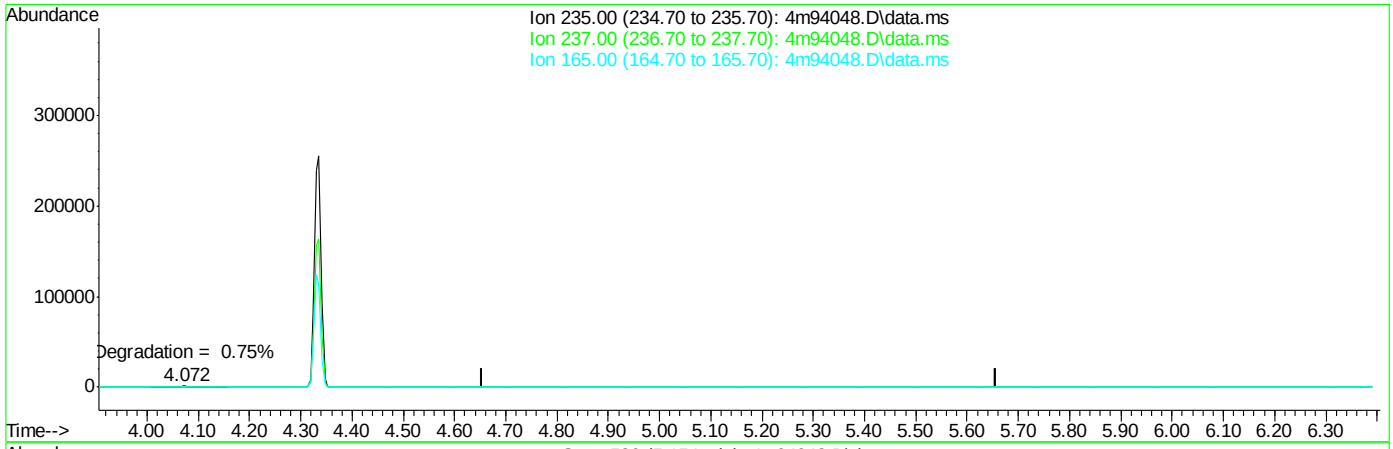
response 404472

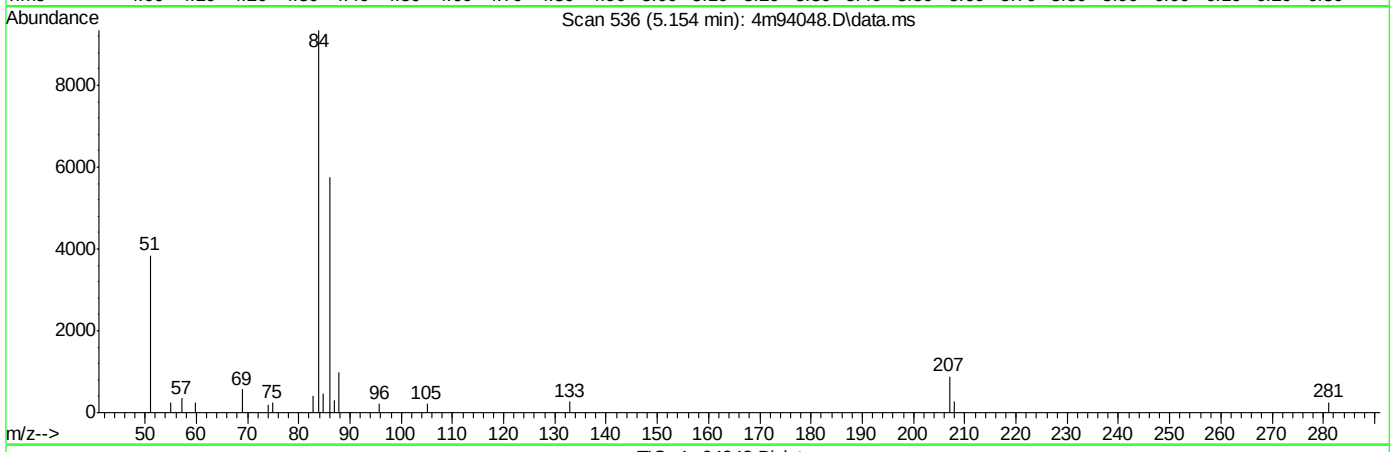
Ion	Exp%	Act%
184.00	100	100
183.00	11.80	0.00#
185.00	13.50	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94048.D
Acq On : 22 Jul 2020 8:29 am
Operator : angelar
Sample : dftpp
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 22 08:36:33 2020
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP4M.M
Quant Title : Semi Volatile GC/MS,zb-5 30m x .25mm x .50um
QLast Update : Sun Apr 05 12:14:16 2020
Response via : Initial Calibration





TIC: 4m94048.D\data.ms

(3) ddt (t)

5.156min (-5.156) 0.00ng

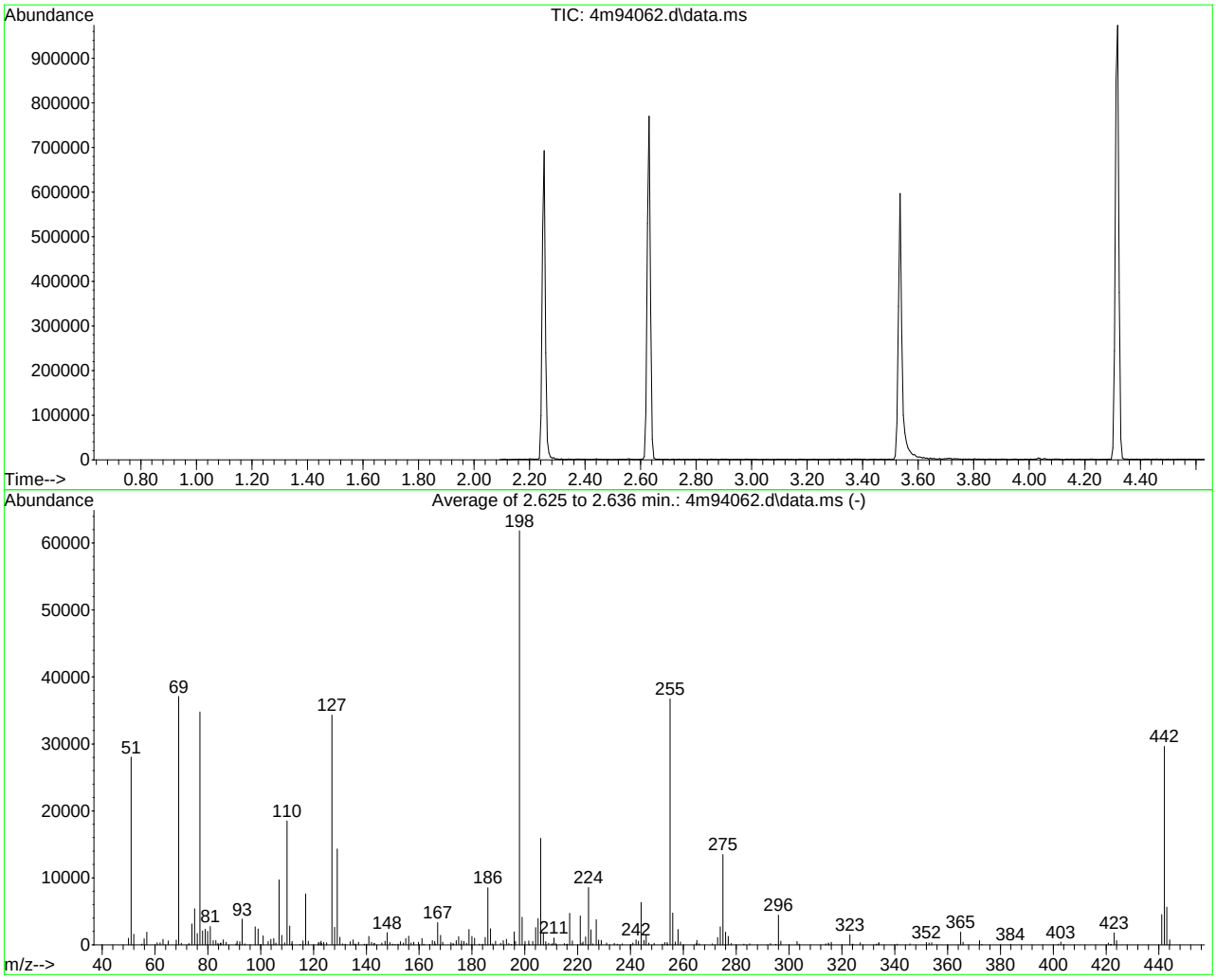
response 0

Ion	Exp%	Act%
235.00	100	0.00
237.00	65.90	0.00#
165.00	44.70	0.00#
0.00	0.00	0.00

DFTPP

Data File : C:\msdchem\1\data\da...eel\e4m4348\4m94062.d Vial: 1
Acq On : 22 Jul 2020 11:29 pm Operator: chriss2
Sample : dftpp Inst : GCMS4M
Misc : op25425a,e4m4348,1000,,,1,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\DFTPP4M.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5 30m x .25mm x .50um



AutoFind: Scans 94, 95, 96; Background Corrected with Scan 89

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	45.3	28030	PASS
68	69	0.00	2	1.9	700	PASS
69	198	0.00	100	59.9	37064	PASS
70	69	0.00	2	0.6	222	PASS
127	198	40	60	55.5	34323	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	61827	PASS
199	198	5	9	6.6	4091	PASS
275	198	10	30	21.8	13464	PASS
365	198	1	100	3.0	1868	PASS
441	443	0.01	100	80.3	4521	PASS
442	198	40	100	47.9	29621	PASS
443	442	17	23	19.0	5628	PASS

4m94062.d DFTPP4M.M Thu Jul 23 22:15:14 2020

Average of 2.625 to 2.636 min.: 4m94062.d\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
50.00	961	69.00	37064	80.95	2704	92.05	471
51.00	28030	70.00	222	82.00	601	93.00	3822
52.00	1562	72.80	123	83.05	598	94.00	135
55.00	108	73.00	154	83.80	208	97.95	2687
55.85	895	74.00	3098	83.90	69	99.00	2379
56.95	1871	75.00	5383	84.80	228	99.90	71
60.85	280	76.05	1694	84.95	254	100.90	1321
61.95	300	77.00	34767	85.90	745	102.85	515
63.00	798	78.00	2074	86.95	394	103.90	825
65.00	565	79.00	2331	90.70	135	104.95	929
68.05	700	79.95	2010	91.05	531	105.80	273

Average of 2.625 to 2.636 min.: 4m94062.d\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
107.00	9684	121.80	142	131.00	151	142.85	192
107.95	1395	121.95	365	132.00	95	143.10	216
109.05	291	122.70	314	133.95	475	145.90	241
110.00	18520	122.90	552	135.05	753	147.05	545
110.95	2791	123.10	172	135.60	121	147.90	1789
111.70	92	123.90	332	135.90	121	148.90	351
111.90	496	124.95	298	137.05	369	149.90	92
114.90	70	127.00	34323	139.20	97	150.90	72
116.05	571	127.95	2584	140.10	108	152.00	109
117.00	7618	129.00	14301	140.95	1256	152.90	452
118.00	536	129.95	1119	141.95	367	154.05	272

Average of 2.625 to 2.636 min.: 4m94062.d\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
154.95	952	167.00	3322	177.95	225	190.85	208
156.05	1309	168.05	1429	178.90	2276	191.85	616
156.90	257	168.95	363	180.00	1234	193.05	814
157.90	385	172.05	284	180.95	986	193.95	181
159.75	395	172.80	199	182.80	86	194.90	71
161.05	938	173.00	107	184.00	88	195.90	1907
161.80	111	174.05	634	184.95	1111	196.50	491
164.00	72	174.90	1194	186.00	8507	198.00	61827
164.95	630	175.70	88	187.00	2393	198.95	4091
165.90	486	176.05	592	187.80	143	200.05	503
166.10	97	176.95	511	188.90	525	201.45	563

Average of 2.625 to 2.636 min.: 4m94062.d\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
201.80	74	211.70	194	225.00	2244	242.05	733
202.95	491	214.90	188	225.70	127	243.05	529
204.05	2573	215.90	70	227.00	3763	244.00	6336
205.00	3904	216.10	105	227.90	701	245.10	655
206.05	15876	216.95	4718	228.90	674	245.95	1450
207.00	1753	218.00	586	230.95	264	246.90	241
207.90	466	220.95	4323	233.90	213	248.90	207
209.05	236	221.60	187	235.00	89	252.00	99
210.10	70	222.00	421	236.90	129	253.00	340
210.40	180	222.95	1190	240.20	73	253.85	328
211.00	1011	224.10	8562	240.85	242	254.10	101

Average of 2.625 to 2.636 min.: 4m94062.d\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
255.00	36733	275.00	13464	303.80	99	334.00	344
256.00	4737	276.00	1895	313.90	146	340.90	83
257.00	404	276.95	1271	314.90	273	345.80	131
258.00	2296	278.10	161	315.10	136	351.95	345
258.90	403	282.90	106	316.00	373	352.95	264
264.90	183	285.10	146	323.05	1486	353.95	319
265.10	659	293.00	170	323.90	73	364.95	1868
266.00	158	295.00	78	324.10	115	365.85	383
270.90	126	295.95	4427	326.95	286	372.05	631
273.00	1111	296.90	527	333.00	86	373.00	77
274.00	2681	303.00	506	333.80	123	383.90	70

Average of 2.625 to 2.636 min.: 4m94062.d\data.ms

M4P2005SIM.M Thu Jul 23 21:48:08 2020

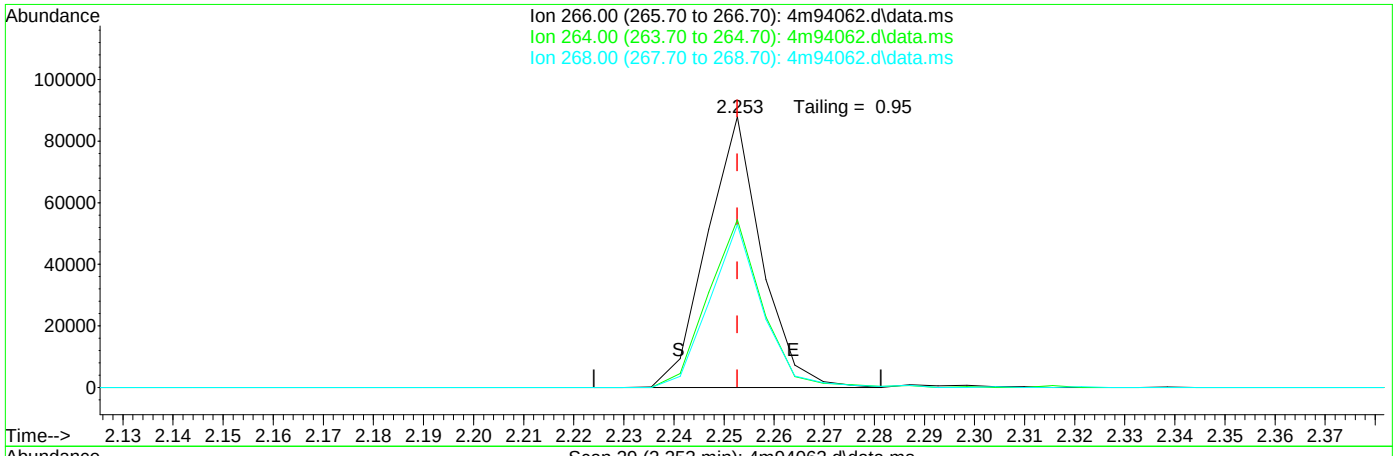
dftpp
Modified:subtracted

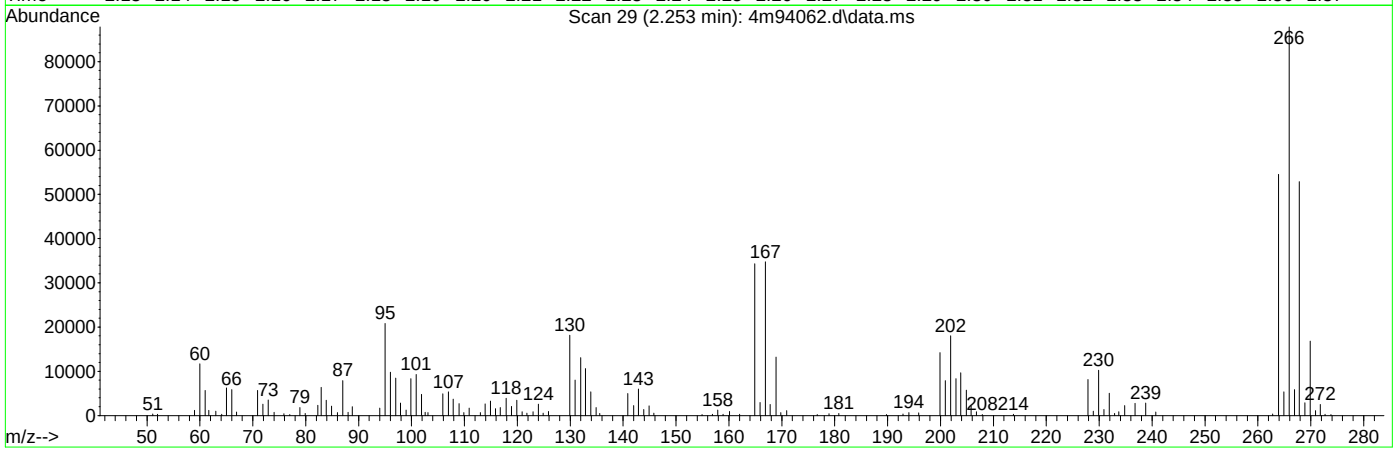
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
401.90	83	444.05	736				
402.85	437						
404.10	73						
420.90	260						
421.70	71						
422.00	72						
423.05	1763						
423.95	614						
441.05	4521						
442.05	29621						
443.00	5628						

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\data_aimeel\e4m4348\
Data File : 4m94062.d
Acq On : 22 Jul 2020 11:29 pm
Operator : chriss2
Sample : dftpp Inst : GCMS4M
Misc : op25425a,e4m4348,1000,,,1,1
ALS Vial : 1 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\DFTPP4M.M
Quant Results File: DFTPP4M.RES
Quant Time: Jul 23 22:15:54 2020
Quant Title : Semi Volatile GC/MS,zb-5 30m x .25mm x .50um
QLast Update : Thu Jul 23 22:15:45 2020
Response via : Initial Calibration





TIC: 4m94062.d\data.ms

(1) pentachlorophenol (t)

2.253min (0.000) 4.03ppb

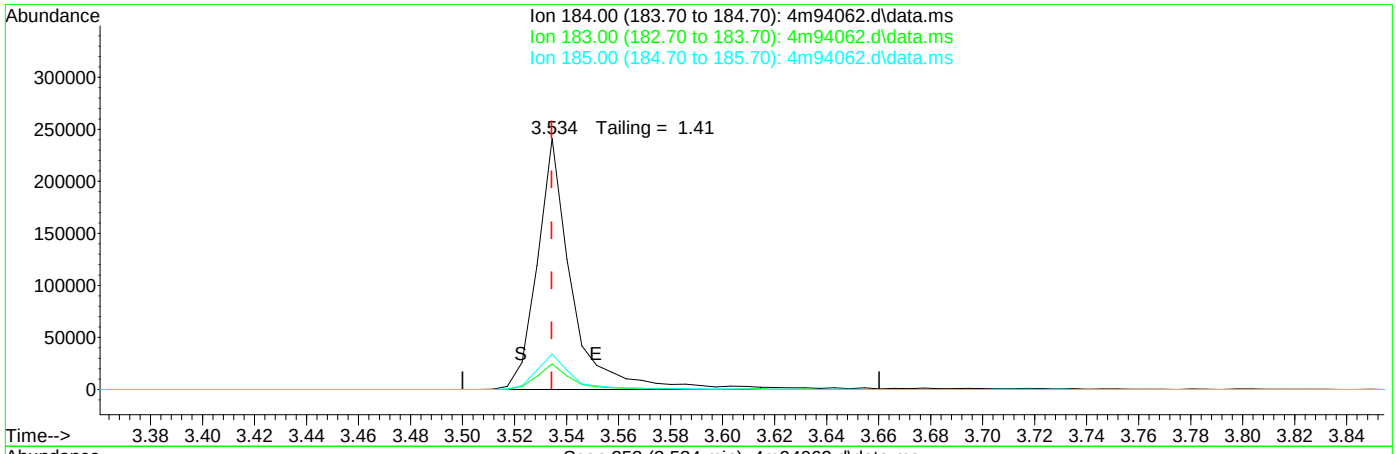
response 66568

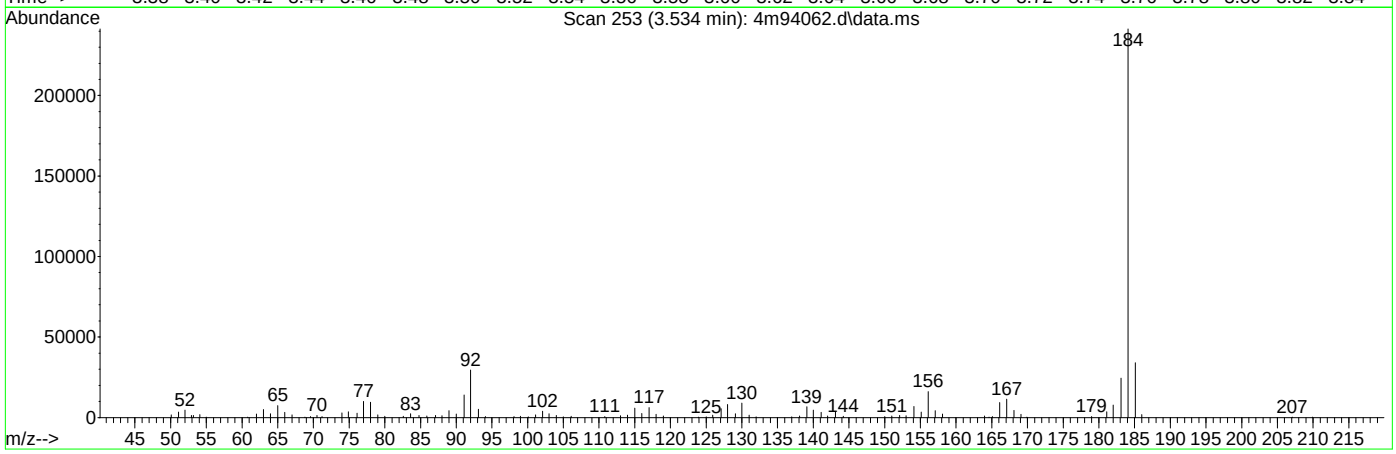
Ion	Exp%	Act%
266.00	100	100
264.00	62.00	61.90
268.00	60.20	58.40
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\data_aimeel\e4m4348\
Data File : 4m94062.d
Acq On : 22 Jul 2020 11:29 pm
Operator : chriss2
Sample : dftpp Inst : GCMS4M
Misc : op25425a,e4m4348,1000,,,1,1
ALS Vial : 1 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\DFTPP4M.M
Quant Results File: DFTPP4M.RES
Quant Time: Jul 23 22:15:54 2020
Quant Title : Semi Volatile GC/MS,zb-5 30m x .25mm x .50um
QLast Update : Thu Jul 23 22:15:45 2020
Response via : Initial Calibration





TIC: 4m94062.d\data.ms

(2) benzidine (t)

3.534min (0.000) 3.78ppb

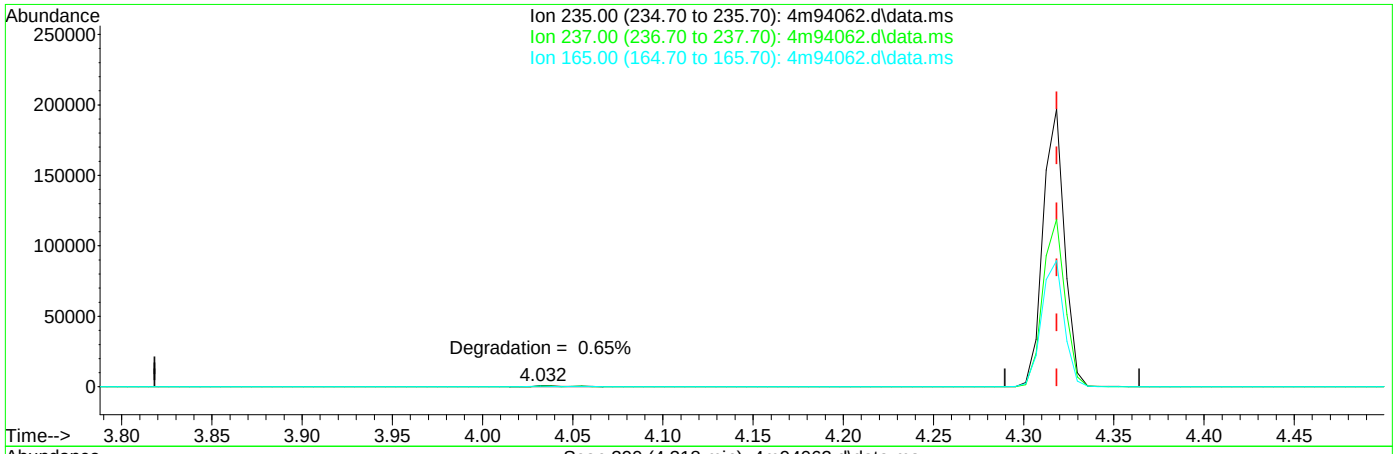
response 225491

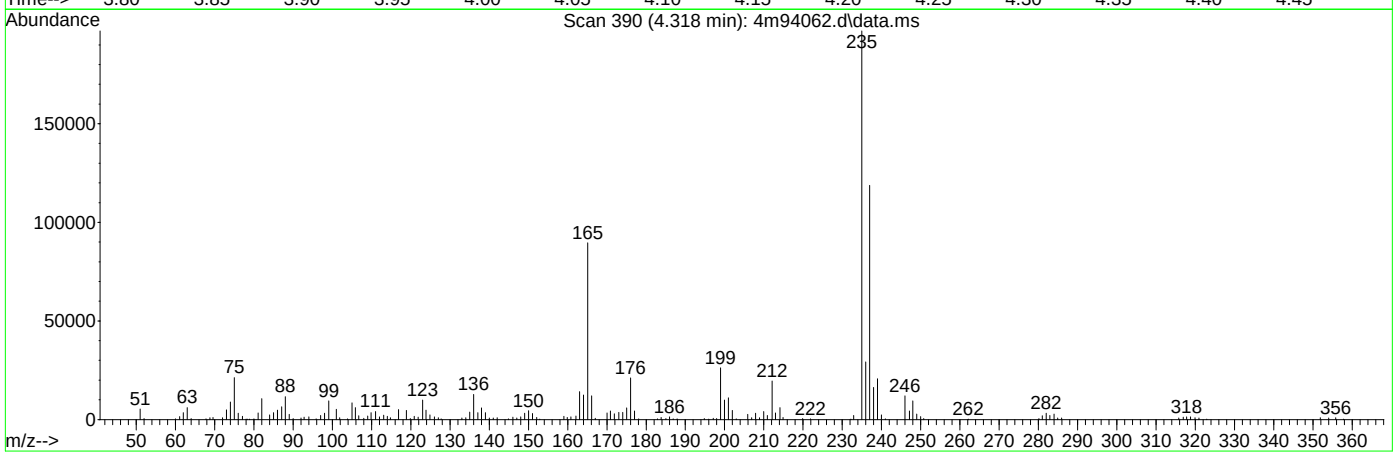
Ion	Exp%	Act%
184.00	100	100
183.00	10.10	10.11
185.00	14.10	14.19
0.00	0.00	0.00

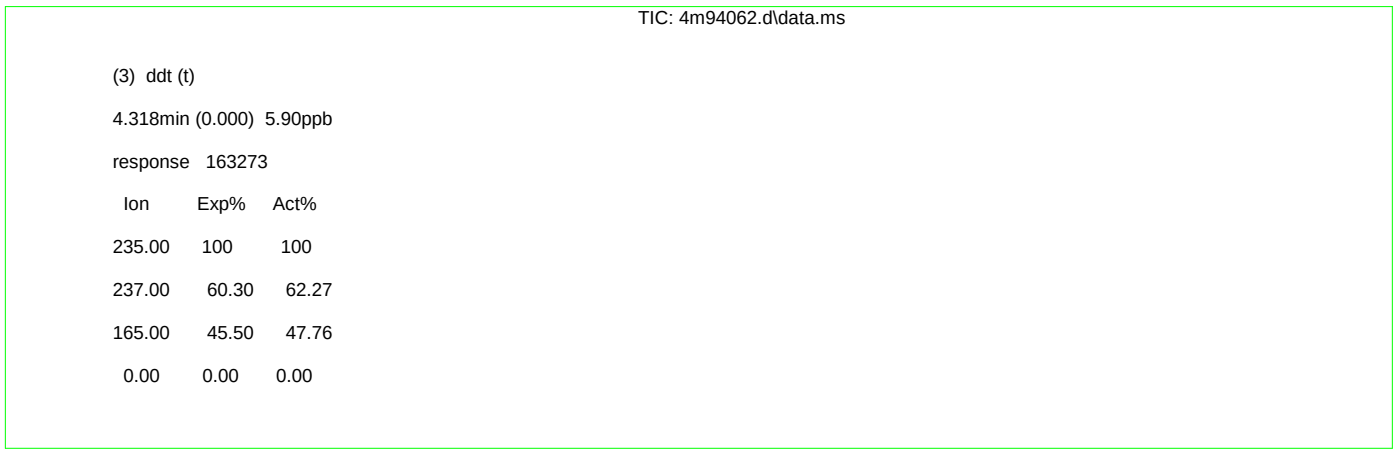
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\data_aimeel\e4m4348\
Data File : 4m94062.d
Acq On : 22 Jul 2020 11:29 pm
Operator : chriss2
Sample : dftpp Inst : GCMS4M
Misc : op25425a,e4m4348,1000,,,1,1
ALS Vial : 1 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\DFTPP4M.M
Quant Results File: DFTPP4M.RES
Quant Time: Jul 23 22:15:54 2020
Quant Title : Semi Volatile GC/MS,zb-5 30m x .25mm x .50um
QLast Update : Thu Jul 23 22:15:45 2020
Response via : Initial Calibration







(3) ddt (t)

4.318min (0.000) 5.90ppb

response 163273

Ion	Exp%	Act%
235.00	100	100
237.00	60.30	62.27
165.00	45.50	47.76
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94049.D
Acq On : 22 Jul 2020 8:42 am
Operator : angelar
Sample : ic4347-0.5
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 22 11:59:05 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 09:17:27 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1-Methylnaphthalene-d10	6.739	152	62273	4.00	ppm		0.00
12) Fluorene-d10	8.206	176	63488	4.00	ppm		-0.01
22) Fluoranthene-d10	10.315	212	113614	4.00	ppm		-0.01
28) Benzo(a)pyrene-d12	12.985	264	72006	4.00	ppm		-0.02
35) 1-Methylnaphthalene-d10a	6.739	152	62273	4.00	ppm		# 0.00
38) Fluorene-d10a	8.206	176	63488	4.00	ppm		-0.01
System Monitoring Compounds							
2) 2-Fluorophenol	3.523	112	98977	11.08	ppm		-0.01
Spiked Amount 50.000	Range 11 - 58		Recovery =	22.16%			
3) Phenol-d5	4.461	99	131006	10.87	ppm		-0.01
Spiked Amount 50.000			Recovery =	21.74%			
6) Nitrobenzene-d5	5.290	82	126598	15.39	ppm		-0.01
Spiked Amount 50.000			Recovery =	30.78%			
11) 2-Fluorobiphenyl	7.050	172	222496	10.25	ppm		0.00
Spiked Amount 50.000			Recovery =	20.50%			
17) 2,4,6-Tribromophenol	8.469	330	35533	13.05	ppm		-0.01
Spiked Amount 50.000			Recovery =	26.10%			
25) Terphenyl-d14	10.728	244	194182	10.41	ppm		-0.02
Spiked Amount 50.000			Recovery =	20.82%			
Target Compounds							Qvalue
4) Phenol	4.472	94	35363	2.62	ppm		95
5) bis(2-Chloroethyl)ether	4.518	93	5479	0.51	ppm		84
7) Naphthalene	5.993	128	15685	0.49	ppm		87
8) Hexachlorobutadiene	6.140	225	3528	0.53	ppm		86
9) 2-Methylnaphthalene	6.673	142	9194	0.48	ppm		85
10) Hexachlorocyclopentadiene	6.845	237	6702	1.20	ppm	#	22
13) Acenaphthylene	7.545	152	15234	0.60	ppm		80
14) Acenaphthene	7.716	153	9362	0.55	ppm	#	80
15) Dibenzofuran	7.898	168	13398	0.51	ppm		54
16) Fluorene	8.229	166	11057	0.52	ppm		88
18) Hexachlorobenzene	8.774	284	3941	0.50	ppm		72
19) Pentachlorophenol	8.975	266	8894	2.39	ppm		79
20) Phenanthrene	9.158	178	15735	0.52	ppm		93
21) Anthracene	9.210	178	14523	0.50	ppm		88
23) Fluoranthene	10.331	202	18175	0.48	ppm		72
24) Pyrene	10.550	202	17324	0.48	ppm		92
26) Benzo[a]anthracene	11.733	228	13176	0.48	ppm		71
27) Chrysene	11.768	228	15089	0.48	ppm		77
29) Benzo[b]fluoranthene	12.730	252	13036	0.49	ppm		67
30) Benzo[k]fluoranthene	12.753	252	14498	0.57	ppm		84
31) Benzo[a]pyrene	13.004	252	13946	0.51	ppm		94
32) Indeno[1,2,3-cd]pyrene	13.999	276	12571	0.54	ppm		99
33) Dibenz[a,h]anthracene	14.019	278	9837	0.50	ppm	#	49
34) Benzo[g,h,i]perylene	14.265	276	10889	0.55	ppm		93
36) 1,4-Dioxane	1.774	88	2802	0.57	ppm	#	56
37) 1-Methylnaphthalene	6.771	142	10443	0.48	ppm		93
39) 4,6-dinitro-2-methylph...	8.297	198	6679	5.96	ppm	#	41

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94049.D
Acq On : 22 Jul 2020 8:42 am
Operator : angelar
Sample : ic4347-0.5
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 22 11:59:05 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 09:17:27 2020
Response via : Initial Calibration

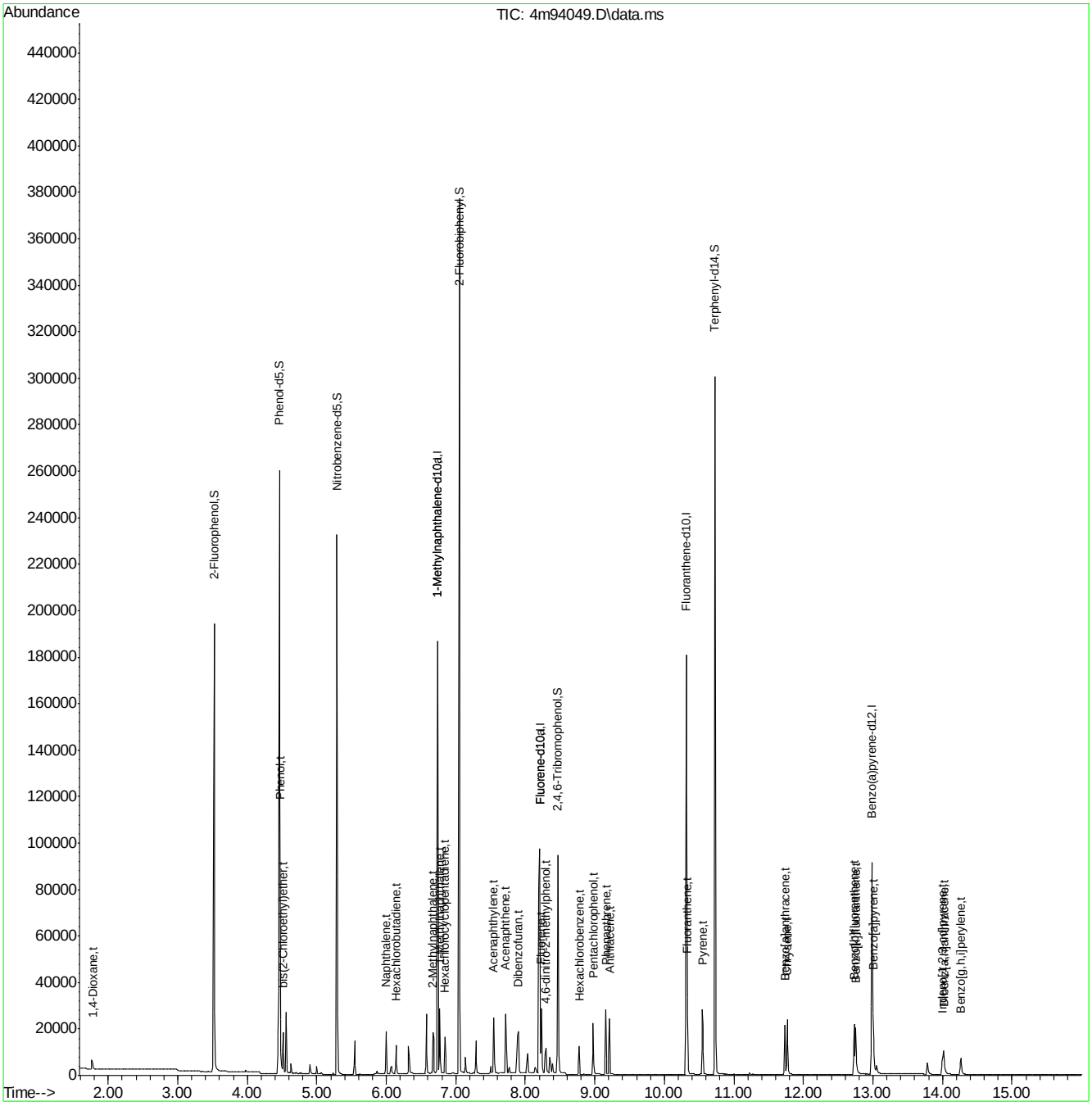
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94049.D
Acq On : 22 Jul 2020 8:42 am
Operator : angelar
Sample : ic4347-0.5
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 22 11:59:05 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 09:17:27 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94050.D
Acq On : 22 Jul 2020 9:21 am
Operator : angelar
Sample : ic4347-5
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 22 12:00:02 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 09:17:27 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1-Methylnaphthalene-d10	6.739	152	64215	4.00	ppm		0.00
12) Fluorene-d10	8.206	176	71571	4.00	ppm		-0.01
22) Fluoranthene-d10	10.319	212	118326	4.00	ppm		0.00
28) Benzo(a)pyrene-d12	12.985	264	78148	4.00	ppm		-0.02
35) 1-Methylnaphthalene-d10a	6.739	152	64215	4.00	ppm		# 0.00
38) Fluorene-d10a	8.206	176	71571	4.00	ppm		-0.01
System Monitoring Compounds							
2) 2-Fluorophenol	3.513	112	953570	103.52	ppm		-0.02
Spiked Amount 50.000	Range 11 - 58		Recovery =	207.04%#			
3) Phenol-d5	4.461	99	1211045	97.48	ppm		-0.01
Spiked Amount 50.000			Recovery =	194.96%			
6) Nitrobenzene-d5	5.293	82	1188934	140.17	ppm		0.00
Spiked Amount 50.000			Recovery =	280.34%			
11) 2-Fluorobiphenyl	7.050	172	2020762	90.29	ppm		0.00
Spiked Amount 50.000			Recovery =	180.58%			
17) 2,4,6-Tribromophenol	8.469	330	322166	104.93	ppm		-0.01
Spiked Amount 50.000			Recovery =	209.86%			
25) Terphenyl-d14	10.739	244	1893107	97.43	ppm		0.00
Spiked Amount 50.000			Recovery =	194.86%			
Target Compounds							Qvalue
4) Phenol	4.472	94	341468	24.49	ppm		96
5) bis(2-Chloroethyl)ether	4.518	93	55425	5.01	ppm		83
7) Naphthalene	5.993	128	154924	4.72	ppm		88
8) Hexachlorobutadiene	6.140	225	35187	5.11	ppm		87
9) 2-Methylnaphthalene	6.681	142	94319	4.75	ppm		99
10) Hexachlorocyclopentadiene	6.845	237	75787	13.18	ppm	#	22
13) Acenaphthylene	7.545	152	149293	5.22	ppm		78
14) Acenaphthene	7.727	153	91970	4.78	ppm	#	61
15) Dibenzofuran	7.898	168	145144	4.88	ppm		59
16) Fluorene	8.229	166	121219	5.01	ppm		91
18) Hexachlorobenzene	8.774	284	38508	4.36	ppm		75
19) Pentachlorophenol	8.975	266	113301	27.00	ppm		79
20) Phenanthrene	9.158	178	164175	4.79	ppm		91
21) Anthracene	9.210	178	160324	4.94	ppm		86
23) Fluoranthene	10.334	202	182492	4.58	ppm		73
24) Pyrene	10.554	202	189040	5.06	ppm		93
26) Benzo[a]anthracene	11.736	228	153007	5.33	ppm		71
27) Chrysene	11.771	228	166579	5.09	ppm		78
29) Benzo[b]fluoranthene	12.733	252	155430	5.36	ppm		65
30) Benzo[k]fluoranthene	12.756	252	168747	6.09	ppm		83
31) Benzo[a]pyrene	13.007	252	146157	4.93	ppm		94
32) Indeno[1,2,3-cd]pyrene	14.003	276	153152	6.08	ppm		93
33) Dibenz[a,h]anthracene	14.019	278	124450	5.82	ppm	#	52
34) Benzo[g,h,i]perylene	14.268	276	125849	5.87	ppm		93
36) 1,4-Dioxane	1.764	88	28421	5.59	ppm	#	57
37) 1-Methylnaphthalene	6.771	142	104443	4.62	ppm		93
39) 4,6-dinitro-2-methylph...	8.297	198	103392	81.80	ppm	#	67

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94050.D
Acq On : 22 Jul 2020 9:21 am
Operator : angelar
Sample : ic4347-5
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 22 12:00:02 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 09:17:27 2020
Response via : Initial Calibration

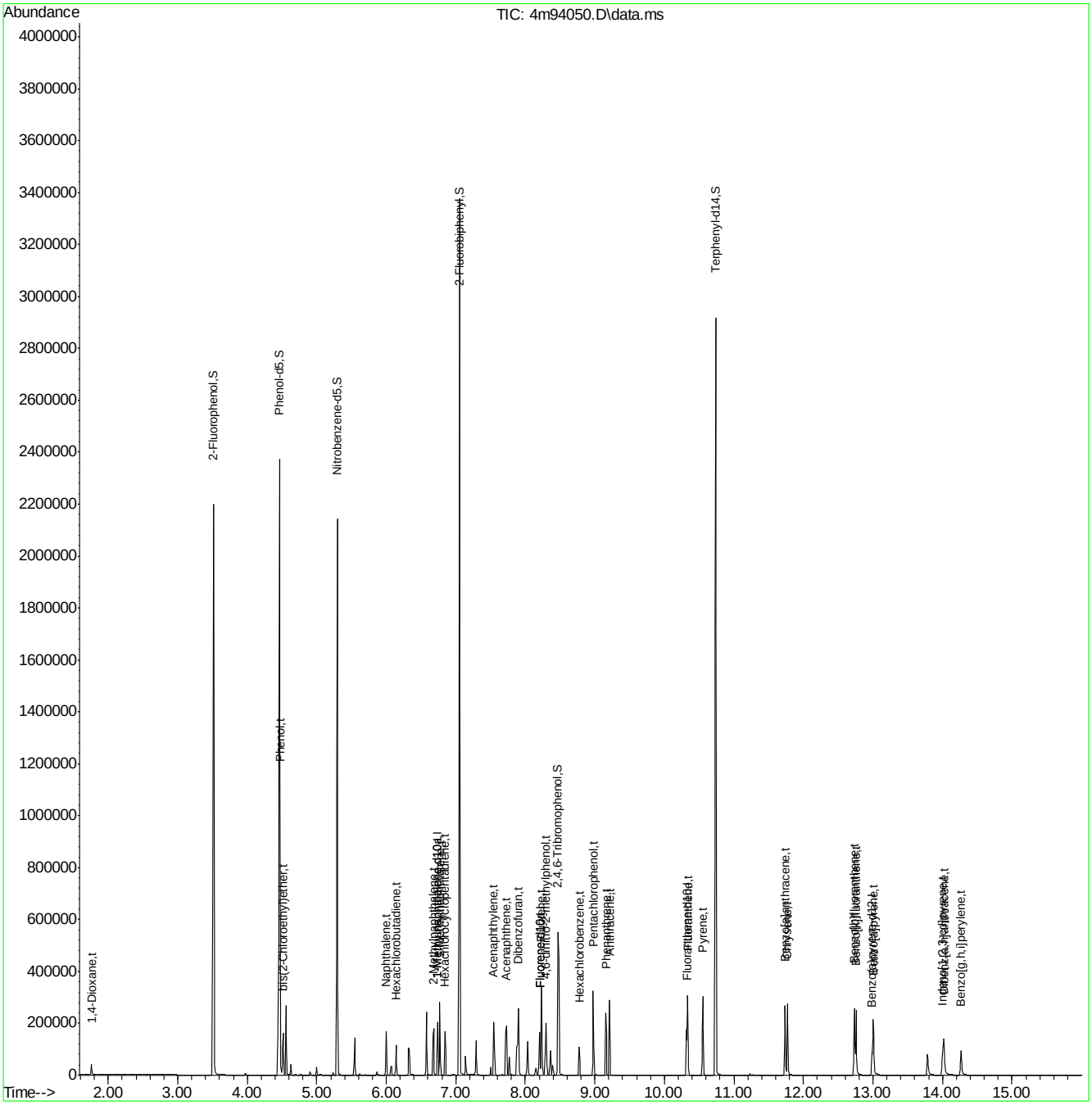
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94050.D
Acq On : 22 Jul 2020 9:21 am
Operator : angelar
Sample : ic4347-5
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 22 12:00:02 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 09:17:27 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94051.D
Acq On : 22 Jul 2020 9:42 am
Operator : angelar
Sample : ic4347-2.5
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 22 12:00:46 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 09:17:27 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1-Methylnaphthalene-d10	6.738	152	55527	4.00	ppm		0.00
12) Fluorene-d10	8.206	176	60124	4.00	ppm		-0.01
22) Fluoranthene-d10	10.315	212	102757	4.00	ppm		-0.01
28) Benzo(a)pyrene-d12	12.988	264	66002	4.00	ppm		-0.01
35) 1-Methylnaphthalene-d10a	6.738	152	55527	4.00	ppm		0.00
38) Fluorene-d10a	8.206	176	60124	4.00	ppm		-0.01
System Monitoring Compounds							
2) 2-Fluorophenol	3.523	112	428232	53.76	ppm		-0.01
Spiked Amount 50.000	Range 11 - 58		Recovery =	107.52%#			
3) Phenol-d5	4.461	99	568570	52.93	ppm		-0.01
Spiked Amount 50.000			Recovery =	105.86%			
6) Nitrobenzene-d5	5.289	82	562113	76.64	ppm		-0.01
Spiked Amount 50.000			Recovery =	153.28%			
11) 2-Fluorobiphenyl	7.050	172	947498	48.96	ppm		0.00
Spiked Amount 50.000			Recovery =	97.92%			
17) 2,4,6-Tribromophenol	8.469	330	150143	58.21	ppm		-0.01
Spiked Amount 50.000			Recovery =	116.42%			
25) Terphenyl-d14	10.735	244	861268	51.04	ppm		0.00
Spiked Amount 50.000			Recovery =	102.08%			
Target Compounds							Qvalue
4) Phenol	4.472	94	158854	13.18	ppm		94
5) bis(2-Chloroethyl)ether	4.518	93	24899	2.60	ppm		88
7) Naphthalene	6.001	128	70045	2.47	ppm		86
8) Hexachlorobutadiene	6.140	225	15776	2.65	ppm		88
9) 2-Methylnaphthalene	6.681	142	41984	2.45	ppm		99
10) Hexachlorocyclopentadiene	6.845	237	31899	6.42	ppm	#	22
13) Acenaphthylene	7.545	152	67501	2.81	ppm		78
14) Acenaphthene	7.716	153	41316	2.55	ppm	#	80
15) Dibenzofuran	7.898	168	63367	2.54	ppm		54
16) Fluorene	8.229	166	52412	2.58	ppm		89
18) Hexachlorobenzene	8.774	284	17450	2.35	ppm		73
19) Pentachlorophenol	8.975	266	45028	12.77	ppm		79
20) Phenanthrene	9.158	178	72595	2.52	ppm		92
21) Anthracene	9.210	178	70637	2.59	ppm		87
23) Fluoranthene	10.334	202	82386	2.38	ppm		72
24) Pyrene	10.550	202	82357	2.54	ppm		93
26) Benzo[a]anthracene	11.736	228	63210	2.53	ppm		71
27) Chrysene	11.768	228	72002	2.53	ppm		78
29) Benzo[b]fluoranthene	12.733	252	65515	2.68	ppm		65
30) Benzo[k]fluoranthene	12.756	252	73949	3.16	ppm		84
31) Benzo[a]pyrene	13.006	252	63371	2.53	ppm		95
32) Indeno[1,2,3-cd]pyrene	14.002	276	64547	3.03	ppm		100
33) Dibenz[a,h]anthracene	14.022	278	51809	2.87	ppm	#	50
34) Benzo[g,h,i]perylene	14.267	276	52758	2.91	ppm		93
36) 1,4-Dioxane	1.764	88	14054	3.20	ppm		78
37) 1-Methylnaphthalene	6.771	142	46438	2.38	ppm		90
39) 4,6-dinitro-2-methylph...	8.297	198	44250	41.68	ppm	#	47

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94051.D
Acq On : 22 Jul 2020 9:42 am
Operator : angelar
Sample : ic4347-2.5
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 22 12:00:46 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 09:17:27 2020
Response via : Initial Calibration

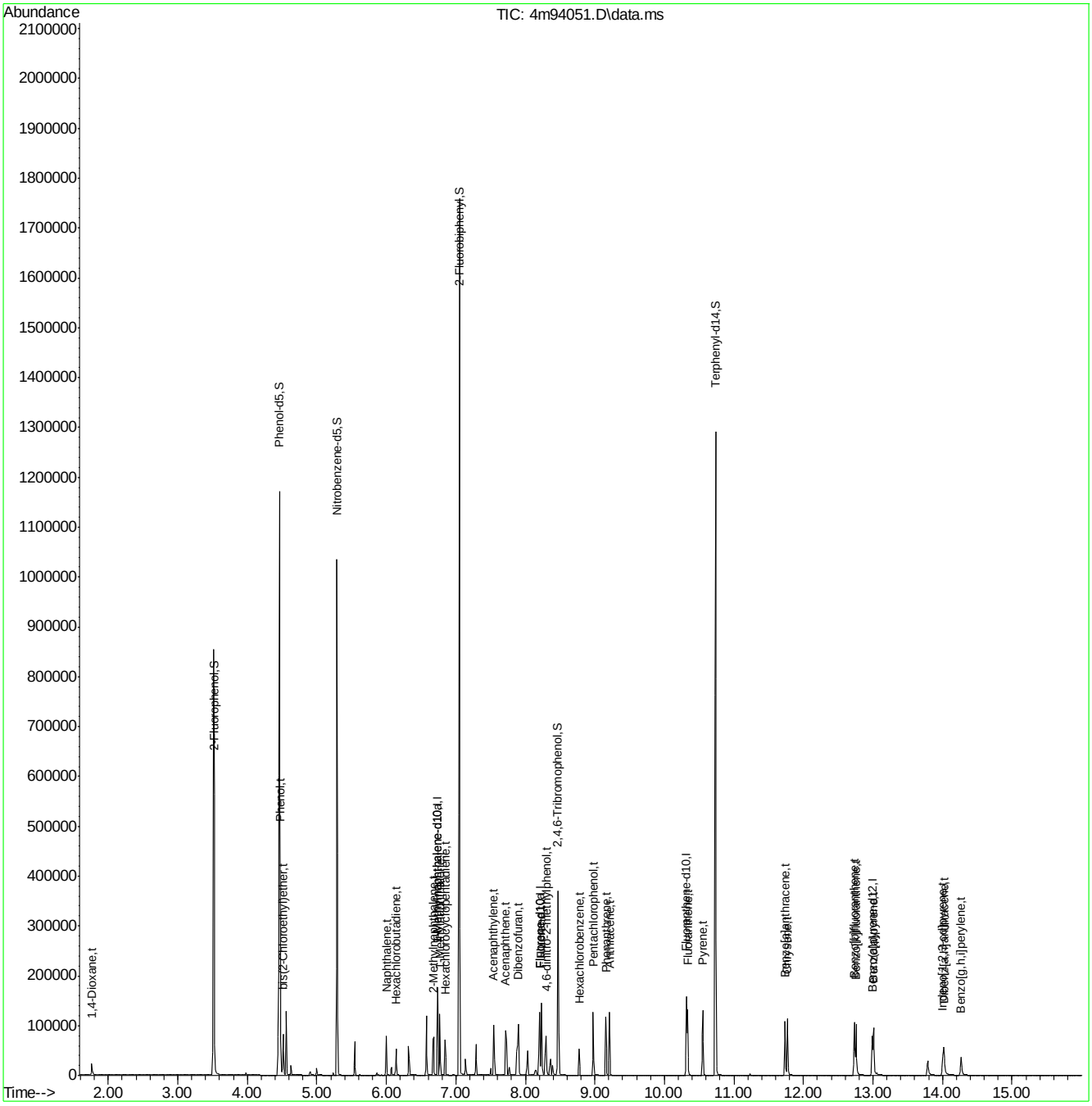
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94051.D
Acq On : 22 Jul 2020 9:42 am
Operator : angelar
Sample : ic4347-2.5
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 22 12:00:46 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 09:17:27 2020
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
07/23/20 09:08

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94052.D
Acq On : 22 Jul 2020 10:04 am
Operator : angelar
Sample : icc4347-1
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 22 12:02:10 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 09:17:27 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1-Methylnaphthalene-d10	6.738	152	54146	4.00	ppm		0.00
12) Fluorene-d10	8.206	176	57298	4.00	ppm		-0.01
22) Fluoranthene-d10	10.315	212	102693	4.00	ppm		-0.01
28) Benzo(a)pyrene-d12	12.984	264	64147	4.00	ppm		-0.02
35) 1-Methylnaphthalene-d10a	6.738	152	54146	4.00	ppm		0.00
38) Fluorene-d10a	8.206	176	57298	4.00	ppm		-0.01
System Monitoring Compounds							
2) 2-Fluorophenol	3.523	112	170893	22.00	ppm		-0.01
Spiked Amount 50.000	Range 11 - 58		Recovery = 44.00%				
3) Phenol-d5	4.457	99	229772	21.93	ppm		-0.01
Spiked Amount 50.000			Recovery = 43.86%				
6) Nitrobenzene-d5	5.289	82	227723	31.84	ppm		-0.01
Spiked Amount 50.000			Recovery = 63.68%				
11) 2-Fluorobiphenyl	7.050	172	390142	20.67	ppm		0.00
Spiked Amount 50.000			Recovery = 41.34%				
17) 2,4,6-Tribromophenol	8.468	330	62335	25.36	ppm		-0.01
Spiked Amount 50.000			Recovery = 50.72%				
25) Terphenyl-d14	10.732	244	351164	20.82	ppm		-0.01
Spiked Amount 50.000			Recovery = 41.64%				
Target Compounds							Qvalue
4) Phenol	4.468	94	62600	5.32	ppm		92
5) bis(2-Chloroethyl)ether	4.518	93	9660	1.04	ppm		82
7) Naphthalene	6.001	128	27306	0.99	ppm		86
8) Hexachlorobutadiene	6.140	225	6302	1.08	ppm		88
9) 2-Methylnaphthalene	6.681	142	16077	0.96	ppm		98
10) Hexachlorocyclopentadiene	6.845	237	11541	2.38	ppm	#	22
13) Acenaphthylene	7.544	152	25833	1.13	ppm		78
14) Acenaphthene	7.716	153	16342	1.06	ppm	#	82
15) Dibenzofuran	7.898	168	24470	1.03	ppm		53
16) Fluorene	8.229	166	20181	1.04	ppm		90
18) Hexachlorobenzene	8.774	284	6841	0.97	ppm		72
19) Pentachlorophenol	8.975	266	16536	4.92	ppm		81
20) Phenanthrene	9.157	178	28025	1.02	ppm		92
21) Anthracene	9.210	178	26870	1.03	ppm		87
23) Fluoranthene	10.330	202	32121	0.93	ppm		72
24) Pyrene	10.550	202	31058	0.96	ppm		93
26) Benzo[a]anthracene	11.733	228	22892	0.92	ppm		71
27) Chrysene	11.768	228	27535	0.97	ppm		78
29) Benzo[b]fluoranthene	12.730	252	22527	0.95	ppm		67
30) Benzo[k]fluoranthene	12.753	252	27634	1.22	ppm		84
31) Benzo[a]pyrene	13.003	252	24532	1.01	ppm		95
32) Indeno[1,2,3-cd]pyrene	13.998	276	21886	1.06	ppm		92
33) Dibenz[a,h]anthracene	14.019	278	18002	1.03	ppm	#	54
34) Benzo[g,h,i]perylene	14.267	276	18806	1.07	ppm		93
36) 1,4-Dioxane	1.764	88	5182m	1.21	ppm		
37) 1-Methylnaphthalene	6.771	142	18109	0.95	ppm		91
39) 4,6-dinitro-2-methylph...	8.297	198	13986	13.82	ppm	#	42

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94052.D
Acq On : 22 Jul 2020 10:04 am
Operator : angelar
Sample : icc4347-1
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 22 12:02:10 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 09:17:27 2020
Response via : Initial Calibration

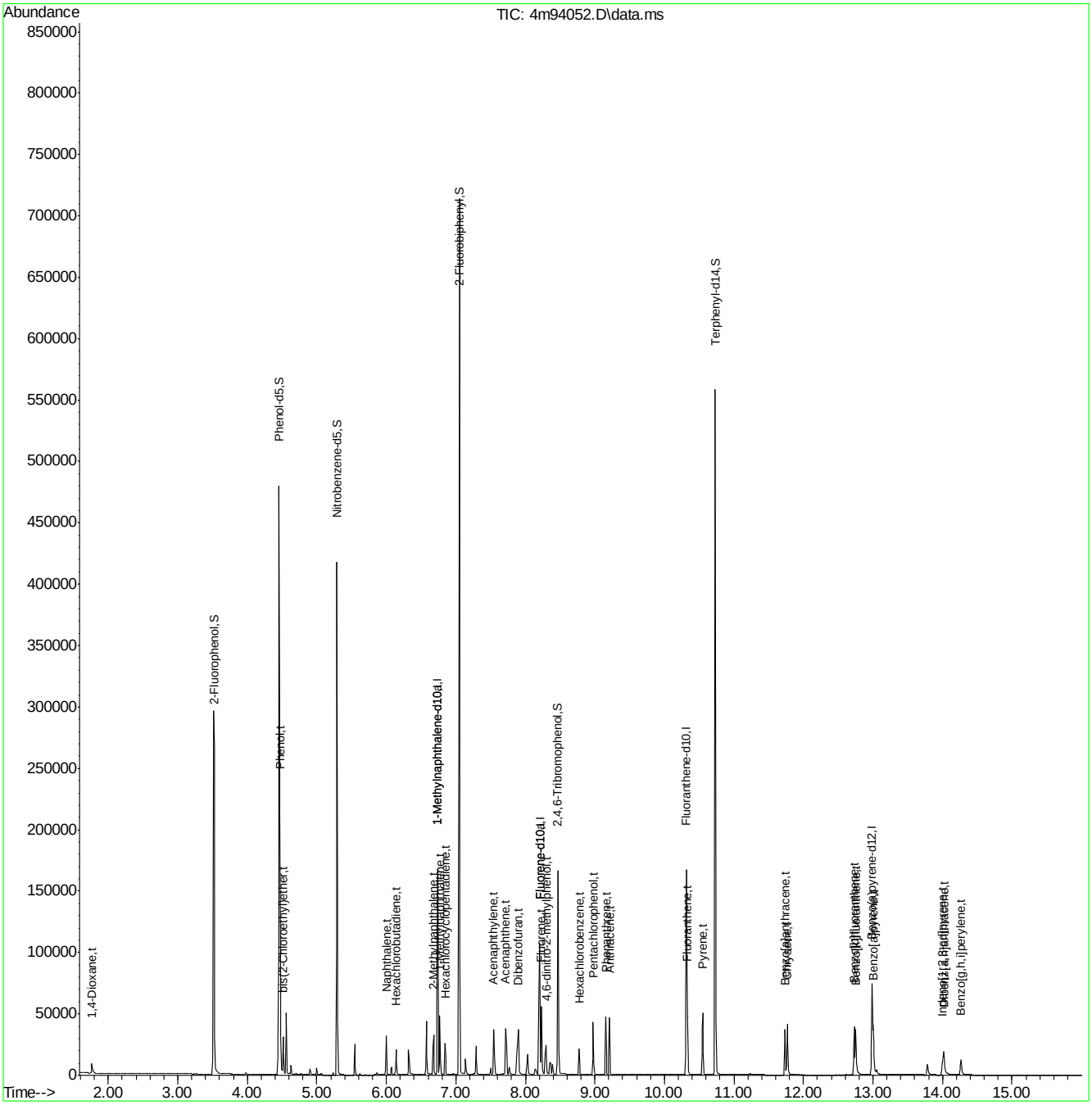
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94052.D
Acq On : 22 Jul 2020 10:04 am
Operator : angelar
Sample : icc4347-1
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 22 12:02:10 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 09:17:27 2020
Response via : Initial Calibration



Manual Integration Approval Summary

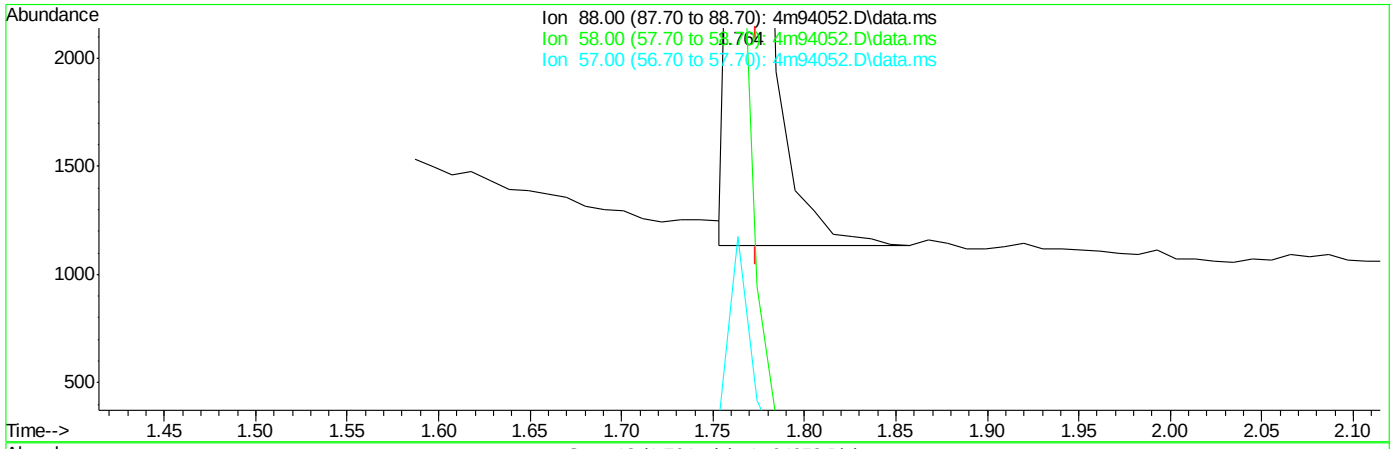
Sample Number: E4M4347-ICC4347
Lab FileID: 4M94052.D
Injection Time: 07/22/20 10:04
Method: SW846 8270D BY SIM
Analyst approved: 07/22/20 12:53 Kristi Schollenberger
Supervisor approved: 07/23/20 09:08 Nina Pandya

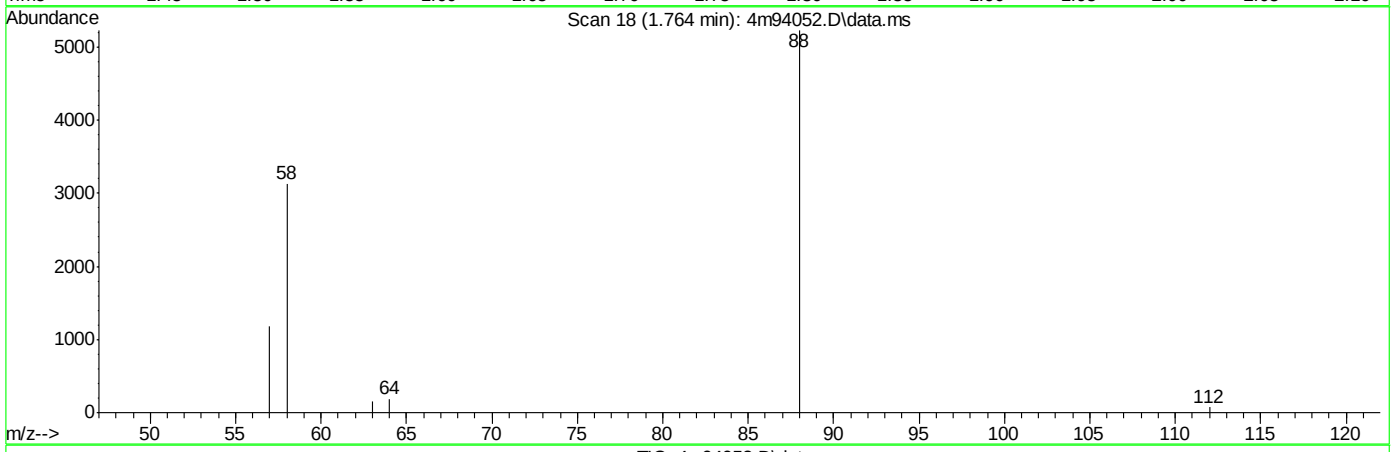
Parameter	CAS	Sig#	R.T. (min.)	Reason
1,4-Dioxane	123-91-1		1.76	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94052.D
Acq On : 22 Jul 2020 10:04 am
Operator : angelar
Sample : icc4347-1
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 22 12:01:24 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 09:17:27 2020
Response via : Initial Calibration





TIC: 4m94052.D\data.ms

(36) 1,4-Dioxane (t)

1.764min (-0.010) 1.29ppm

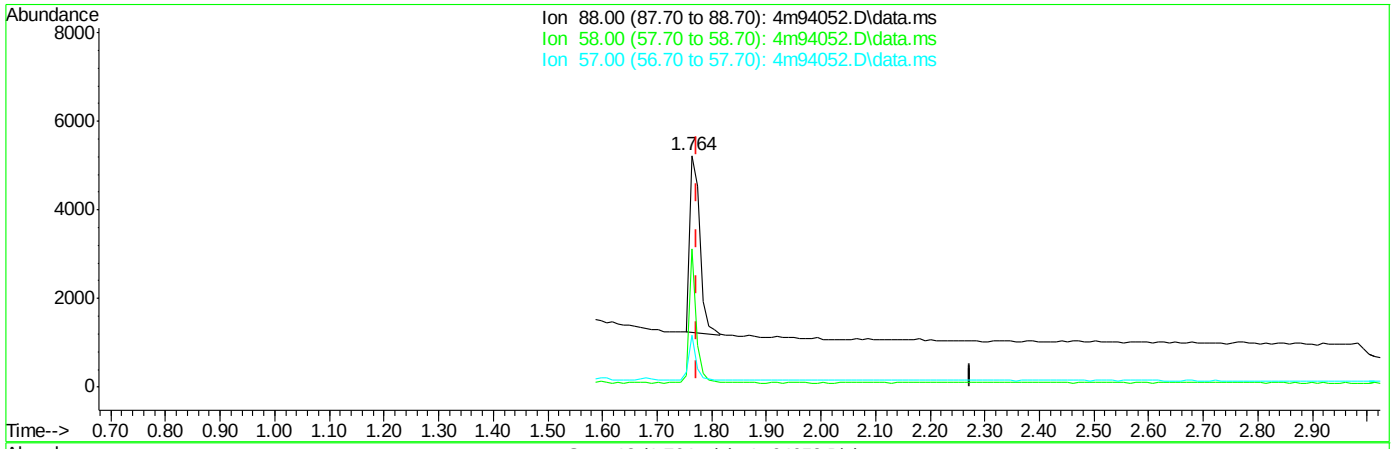
response 5530

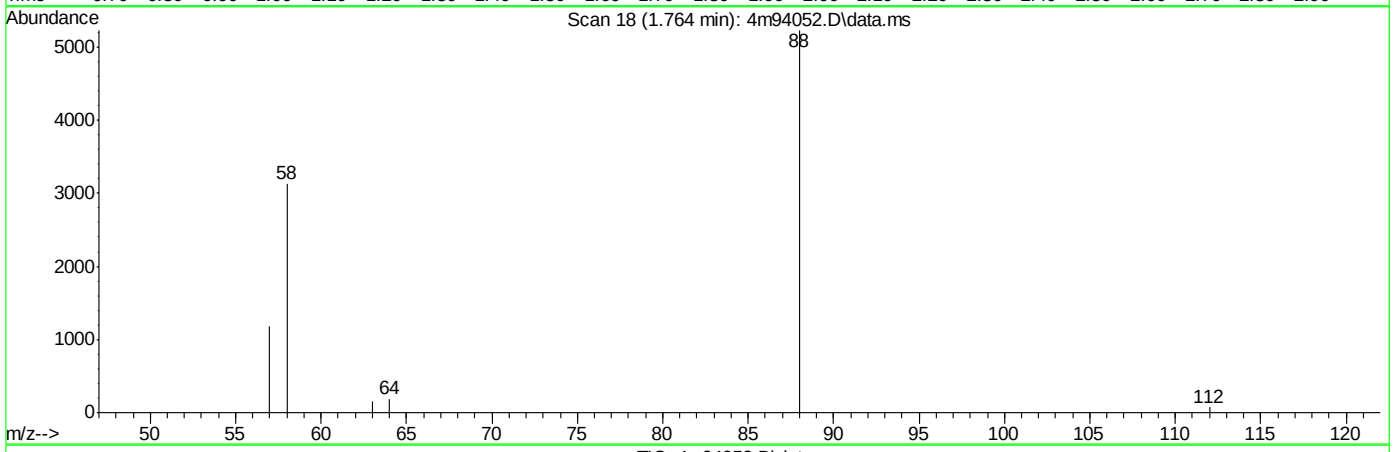
Ion	Exp%	Act%
88.00	100	100
58.00	61.70	72.94
57.00	20.30	22.89
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94052.D
Acq On : 22 Jul 2020 10:04 am
Operator : angelar
Sample : icc4347-1
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 22 12:02:10 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 09:17:27 2020
Response via : Initial Calibration





TIC: 4m94052.D\data.ms

(36) 1,4-Dioxane (t)

1.764min (-0.010) 1.21ppm m

response 5182

Ion	Exp%	Act%
88.00	100	100
58.00	61.70	59.77
57.00	20.30	22.51
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
07/23/20 09:08

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94053.D
Acq On : 22 Jul 2020 10:25 am
Operator : angelar
Sample : ic4347-0.2
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 22 12:03:10 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 09:17:27 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1-Methylnaphthalene-d10	6.739	152	53172	4.00	ppm		0.00
12) Fluorene-d10	8.206	176	54398	4.00	ppm		-0.01
22) Fluoranthene-d10	10.315	212	99746	4.00	ppm		-0.01
28) Benzo(a)pyrene-d12	12.985	264	59951	4.00	ppm		-0.02
35) 1-Methylnaphthalene-d10a	6.739	152	53172	4.00	ppm		# 0.00
38) Fluorene-d10a	8.206	176	54398	4.00	ppm		-0.01
System Monitoring Compounds							
2) 2-Fluorophenol	3.523	112	33452	4.39	ppm		-0.01
Spiked Amount 50.000	Range 11 - 58		Recovery =	8.78%#			
3) Phenol-d5	4.461	99	45153	4.39	ppm		-0.01
Spiked Amount 50.000			Recovery =	8.78%			
6) Nitrobenzene-d5	5.290	82	44237	6.30	ppm		-0.01
Spiked Amount 50.000			Recovery =	12.60%			
11) 2-Fluorobiphenyl	7.050	172	78461	4.23	ppm		0.00
Spiked Amount 50.000			Recovery =	8.46%			
17) 2,4,6-Tribromophenol	8.469	330	11122	4.77	ppm		-0.01
Spiked Amount 50.000			Recovery =	9.54%			
25) Terphenyl-d14	10.732	244	66338	4.05	ppm		-0.01
Spiked Amount 50.000			Recovery =	8.10%			
Target Compounds							Qvalue
4) Phenol	4.472	94	12011	1.04	ppm		95
5) bis(2-Chloroethyl)ether	4.518	93	1832	0.20	ppm		84
7) Naphthalene	6.001	128	5381	0.20	ppm		84
8) Hexachlorobutadiene	6.140	225	1228	0.22	ppm		91
9) 2-Methylnaphthalene	6.681	142	3070	0.19	ppm		98
10) Hexachlorocyclopentadiene	6.845	237	1885	0.40	ppm	#	25
13) Acenaphthylene	7.545	152	5015	0.23	ppm		79
14) Acenaphthene	7.716	153	3235	0.22	ppm	#	82
15) Dibenzofuran	7.898	168	4497	0.20	ppm		60
16) Fluorene	8.229	166	3779	0.21	ppm		89
18) Hexachlorobenzene	8.774	284	1387	0.21	ppm		70
19) Pentachlorophenol	8.975	266	2160	0.68	ppm		80
20) Phenanthrene	9.158	178	5218	0.20	ppm		92
21) Anthracene	9.210	178	4412	0.18	ppm		86
23) Fluoranthene	10.331	202	6244	0.19	ppm		72
24) Pyrene	10.550	202	5417	0.17	ppm		91
26) Benzo[a]anthracene	11.733	228	3596	0.15	ppm		70
27) Chrysene	11.768	228	4436	0.16	ppm		78
29) Benzo[b]fluoranthene	12.730	252	3499	0.16	ppm		66
30) Benzo[k]fluoranthene	12.753	252	3956	0.19	ppm		83
31) Benzo[a]pyrene	13.004	252	4543	0.20	ppm		93
32) Indeno[1,2,3-cd]pyrene	13.999	276	3350	0.17	ppm		88
33) Dibenz[a,h]anthracene	14.020	278	2567	0.16	ppm	#	52
34) Benzo[g,h,i]perylene	14.268	276	3149	0.19	ppm		94
36) 1,4-Dioxane	1.774	88	993m	0.24	ppm		
37) 1-Methylnaphthalene	6.771	142	3560	0.19	ppm		91
39) 4,6-dinitro-2-methylph...	8.298	198	1549	1.61	ppm	#	44

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94053.D
Acq On : 22 Jul 2020 10:25 am
Operator : angelar
Sample : ic4347-0.2
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 22 12:03:10 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 09:17:27 2020
Response via : Initial Calibration

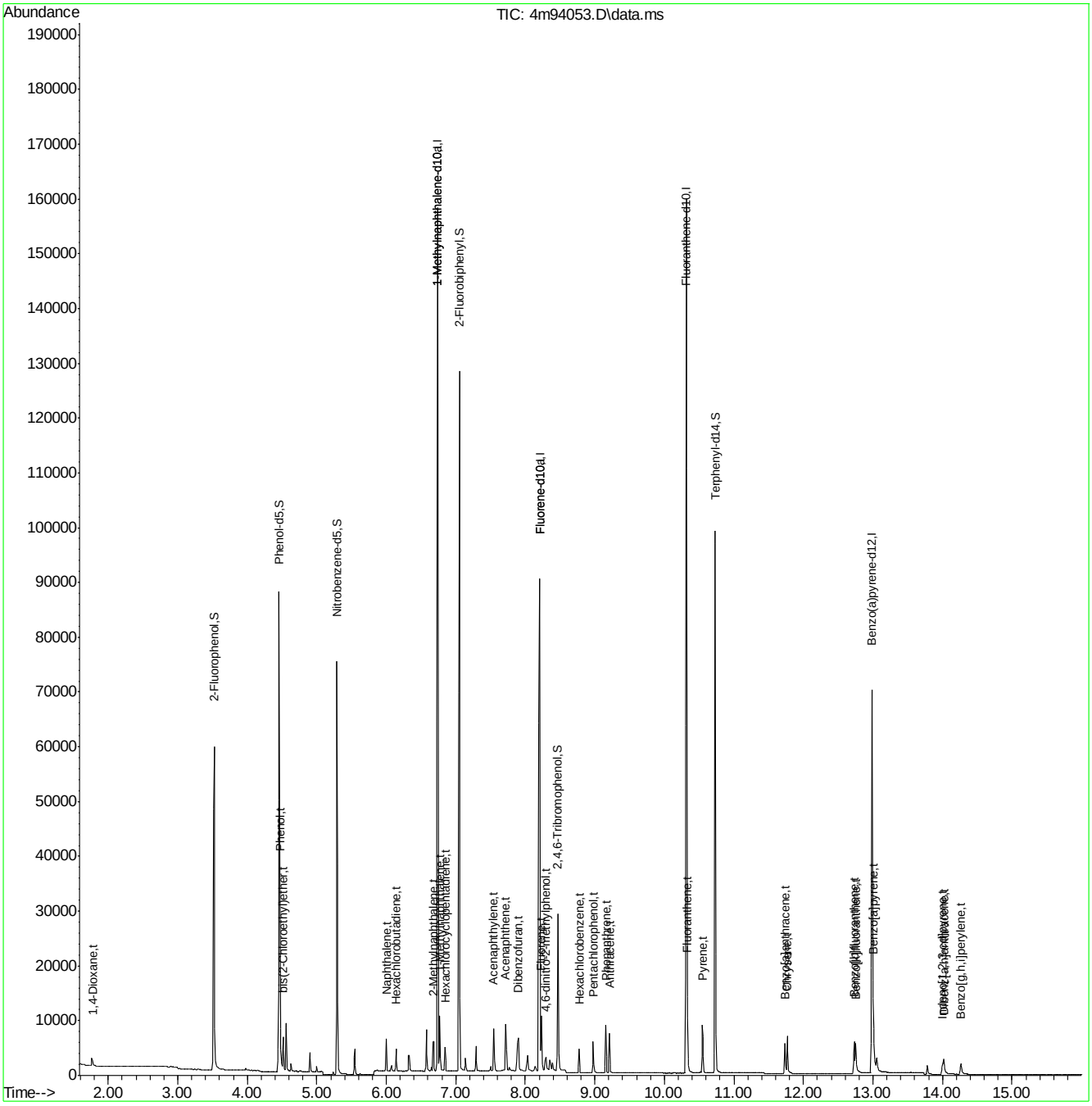
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94053.D
Acq On : 22 Jul 2020 10:25 am
Operator : angelar
Sample : ic4347-0.2
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 22 12:03:10 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 09:17:27 2020
Response via : Initial Calibration



Manual Integration Approval Summary

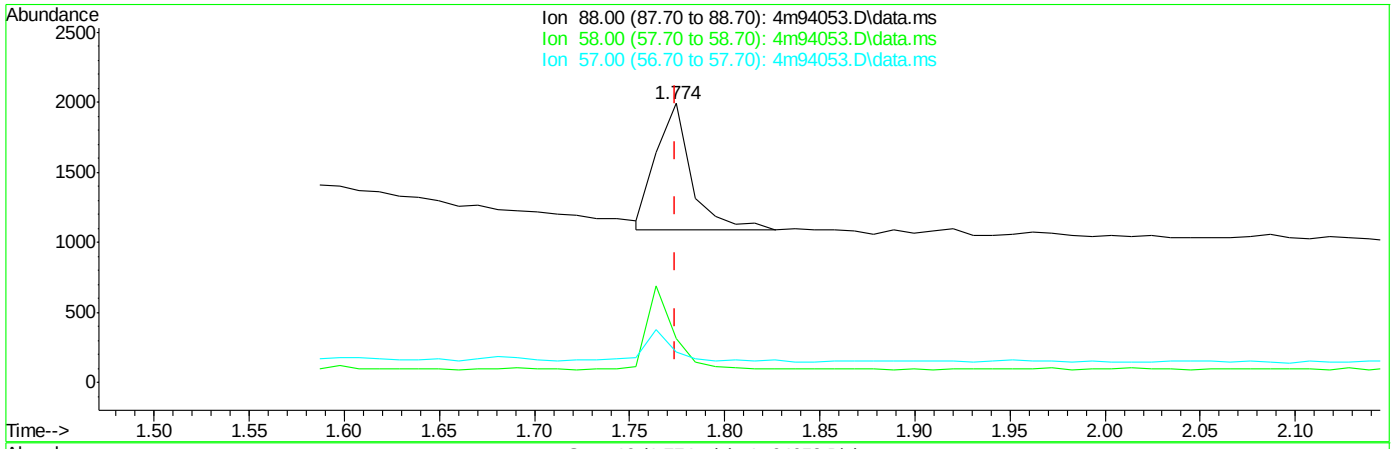
Sample Number: E4M4347-IC4347
Lab FileID: 4M94053.D
Injection Time: 07/22/20 10:25
Method: SW846 8270D BY SIM
Analyst approved: 07/22/20 12:53 Kristi Schollenberger
Supervisor approved: 07/23/20 09:08 Nina Pandya

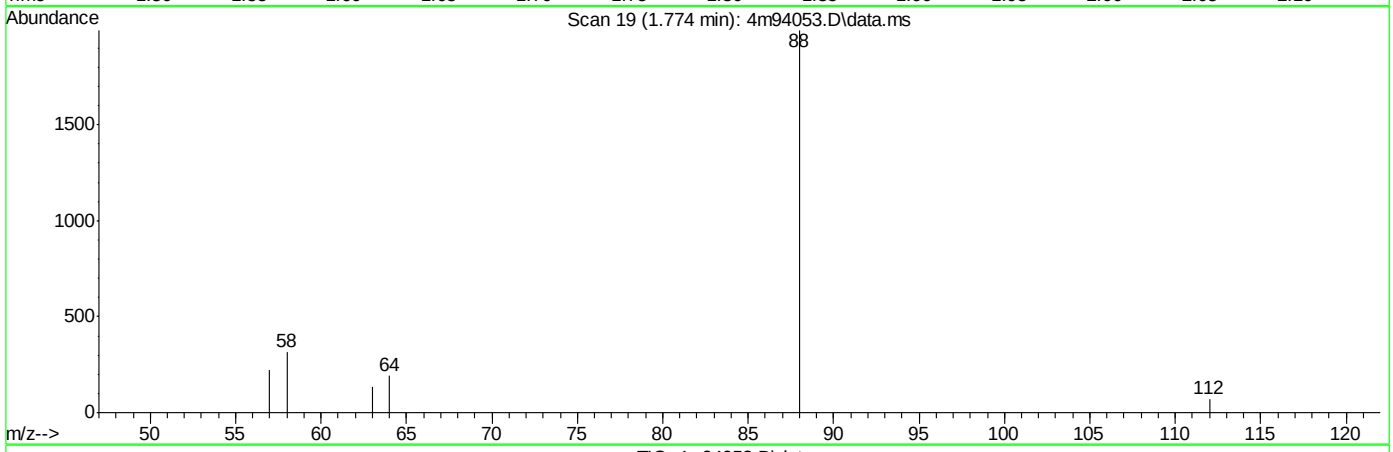
Parameter	CAS	Sig#	R.T. (min.)	Reason
1,4-Dioxane	123-91-1		1.77	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94053.D
Acq On : 22 Jul 2020 10:25 am
Operator : angelar
Sample : ic4347-0.2
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 22 12:02:35 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 09:17:27 2020
Response via : Initial Calibration





TIC: 4m94053.D\data.ms

(36) 1,4-Dioxane (t)

1.774min (+0.000) 0.27ppm

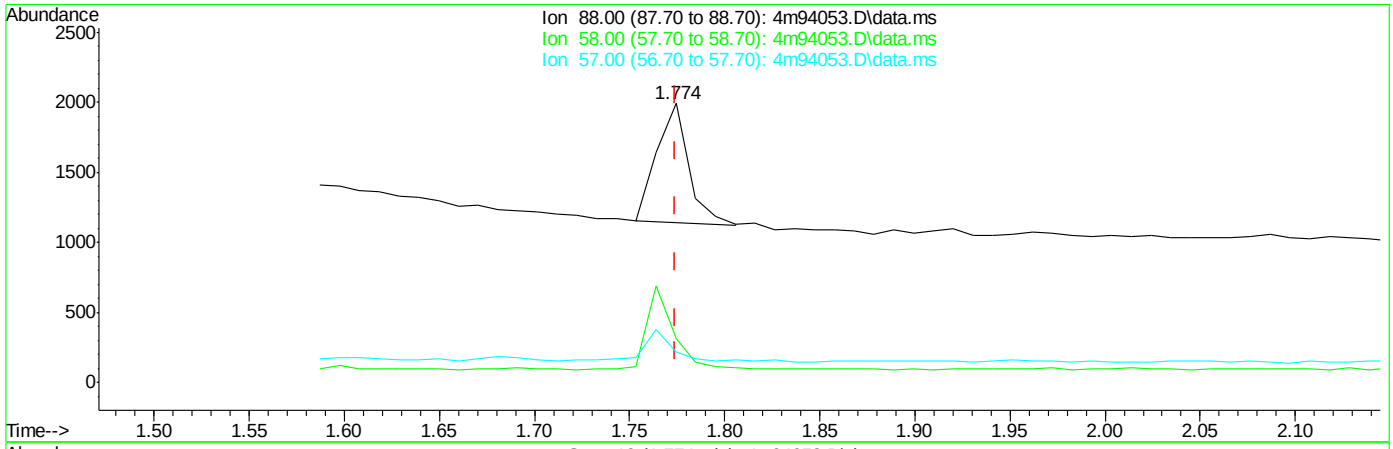
response 1154

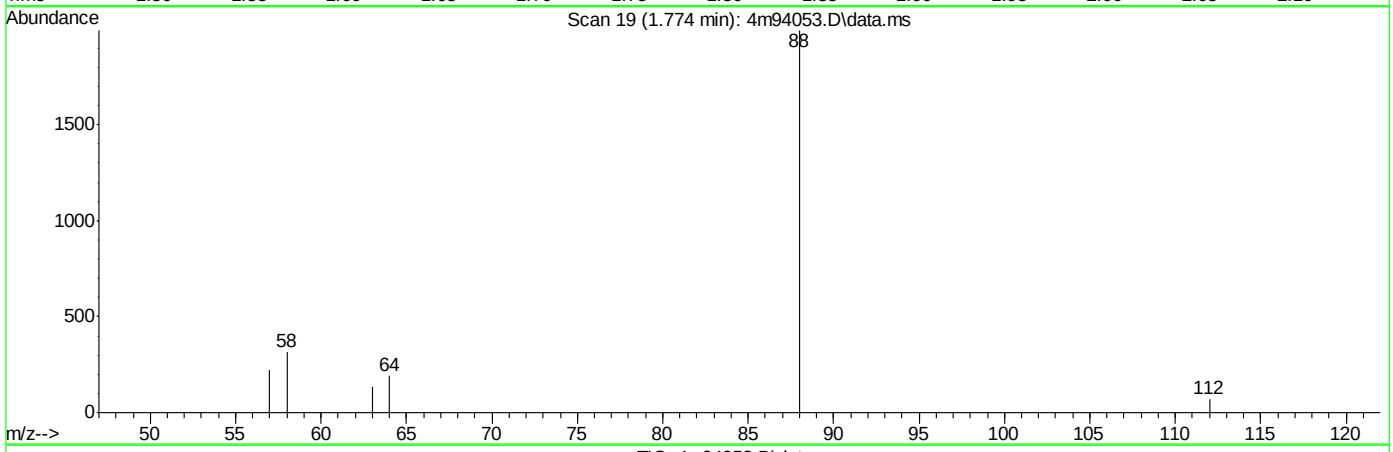
Ion	Exp%	Act%
88.00	100	100
58.00	61.70	23.85#
57.00	20.30	6.21
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94053.D
Acq On : 22 Jul 2020 10:25 am
Operator : angelar
Sample : ic4347-0.2
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 22 12:02:35 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 09:17:27 2020
Response via : Initial Calibration





TIC: 4m94053.D\data.ms

(36) 1,4-Dioxane (t)

1.774min (+0.000) 0.24ppm m

response 993

Ion	Exp%	Act%
88.00	100	100
58.00	61.70	15.87#
57.00	20.30	11.10
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya 07/23/20 09:08

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94054.D
Acq On : 22 Jul 2020 10:46 am
Operator : angelar
Sample : ic4347-0.1
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 22 12:04:29 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 09:17:27 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1-Methylnaphthalene-d10	6.738	152	50878	4.00	ppm		0.00
12) Fluorene-d10	8.206	176	51684	4.00	ppm		-0.01
22) Fluoranthene-d10	10.315	212	93235	4.00	ppm		-0.01
28) Benzo(a)pyrene-d12	12.985	264	54101	4.00	ppm		-0.02
35) 1-Methylnaphthalene-d10a	6.738	152	50878	4.00	ppm		# 0.00
38) Fluorene-d10a	8.206	176	51684	4.00	ppm		-0.01
System Monitoring Compounds							
2) 2-Fluorophenol	3.523	112	15986	2.19	ppm		-0.01
Spiked Amount 50.000	Range 11 - 58		Recovery =	4.38%#			
3) Phenol-d5	4.461	99	20847	2.12	ppm		-0.01
Spiked Amount 50.000			Recovery =	4.24%			
6) Nitrobenzene-d5	5.293	82	19885	2.96	ppm		0.00
Spiked Amount 50.000			Recovery =	5.92%			
11) 2-Fluorobiphenyl	7.050	172	36479	2.06	ppm		0.00
Spiked Amount 50.000			Recovery =	4.12%			
17) 2,4,6-Tribromophenol	8.469	330	4897	2.21	ppm		-0.01
Spiked Amount 50.000			Recovery =	4.42%			
25) Terphenyl-d14	10.728	244	29343	1.92	ppm		-0.02
Spiked Amount 50.000			Recovery =	3.84%			
Target Compounds							Qvalue
4) Phenol	4.472	94	5331	0.48	ppm		99
5) bis(2-Chloroethyl)ether	4.518	93	862	0.10	ppm		96
7) Naphthalene	6.001	128	2530	0.10	ppm		87
8) Hexachlorobutadiene	6.140	225	591	0.11	ppm		89
9) 2-Methylnaphthalene	6.681	142	1460	0.09	ppm		96
10) Hexachlorocyclopentadiene	6.845	237	805	0.18	ppm	#	25
13) Acenaphthylene	7.545	152	2337	0.11	ppm		78
14) Acenaphthene	7.716	153	1493	0.11	ppm	#	79
15) Dibenzofuran	7.898	168	2135	0.10	ppm		65
16) Fluorene	8.229	166	1863	0.11	ppm		89
18) Hexachlorobenzene	8.774	284	653	0.10	ppm		71
19) Pentachlorophenol	8.975	266	981	0.32	ppm		82
20) Phenanthrene	9.158	178	2385	0.10	ppm		92
21) Anthracene	9.210	178	2159	0.09	ppm		84
23) Fluoranthene	10.331	202	3001	0.10	ppm		73
24) Pyrene	10.550	202	2499	0.08	ppm		93
26) Benzo[a]anthracene	11.733	228	1577	0.07	ppm		69
27) Chrysene	11.768	228	2118m	0.08	ppm		
29) Benzo[b]fluoranthene	12.730	252	1535	0.08	ppm		64
30) Benzo[k]fluoranthene	12.750	252	1640	0.09	ppm		83
31) Benzo[a]pyrene	13.003	252	2154	0.10	ppm		94
32) Indeno[1,2,3-cd]pyrene	13.999	276	1392	0.08	ppm		91
33) Dibenz[a,h]anthracene	14.016	278	1123	0.08	ppm	#	49
34) Benzo[g,h,i]perylene	14.265	276	1329	0.09	ppm		94
36) 1,4-Dioxane	1.774	88	432m	0.11	ppm		
37) 1-Methylnaphthalene	6.771	142	1639	0.09	ppm		89
39) 4,6-dinitro-2-methylph...	8.297	198	646	0.71	ppm	#	49

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94054.D
Acq On : 22 Jul 2020 10:46 am
Operator : angelar
Sample : ic4347-0.1
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 22 12:04:29 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 09:17:27 2020
Response via : Initial Calibration

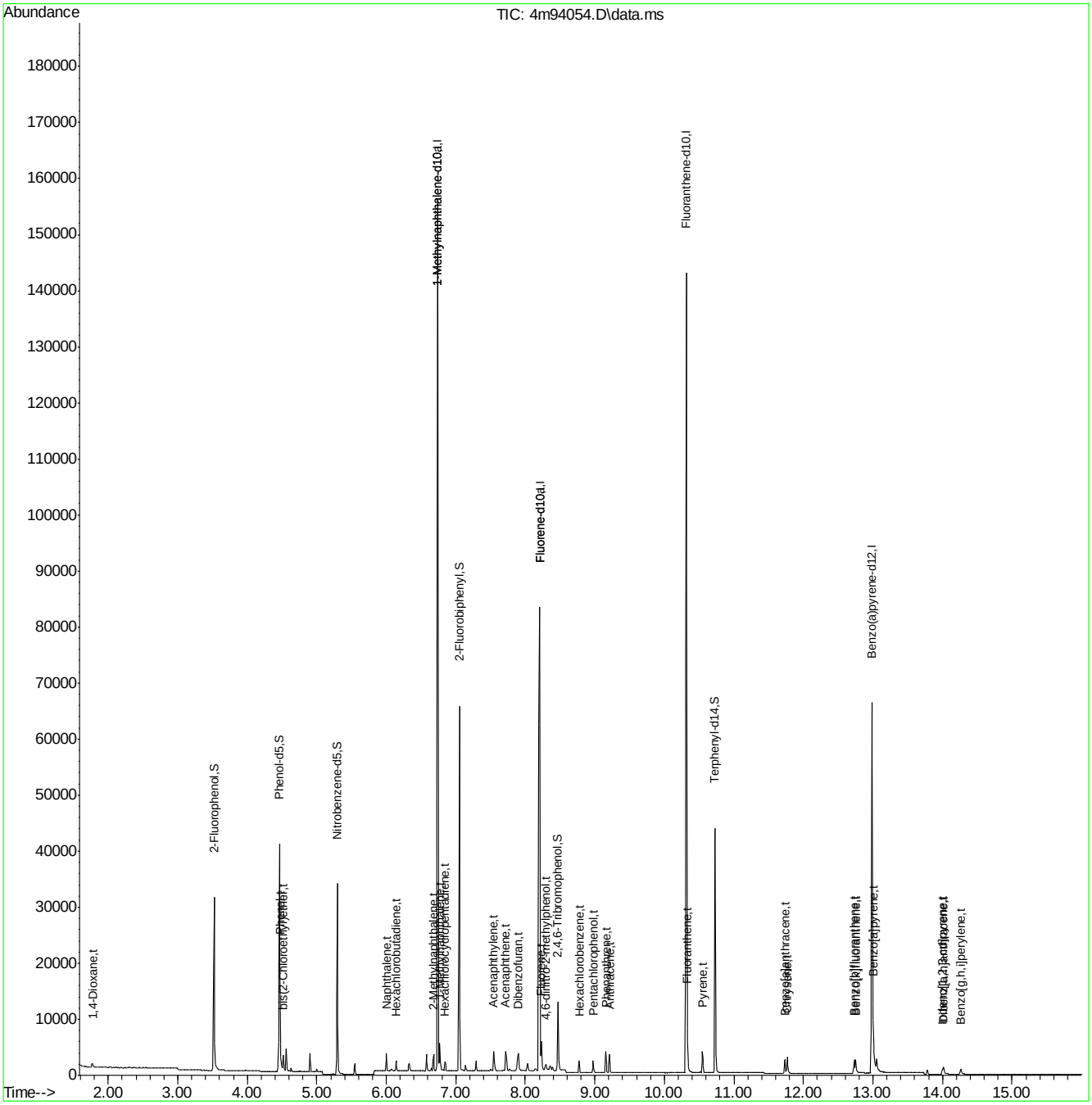
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94054.D
Acq On : 22 Jul 2020 10:46 am
Operator : angelar
Sample : ic4347-0.1
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 22 12:04:29 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 09:17:27 2020
Response via : Initial Calibration



Manual Integration Approval Summary

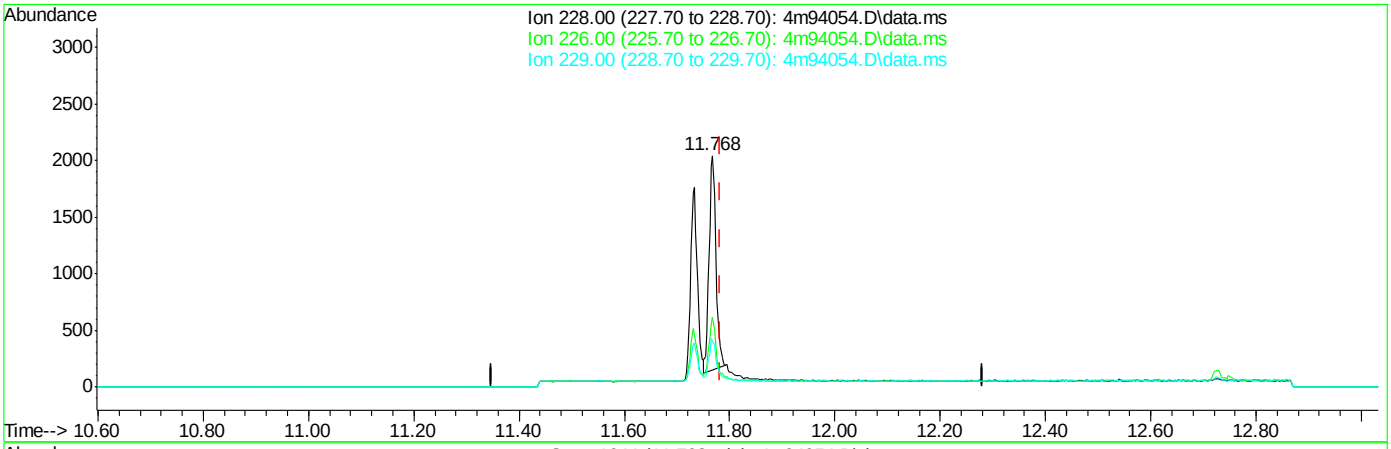
Sample Number: E4M4347-IC4347
Lab FileID: 4M94054.D
Injection Time: 07/22/20 10:46
Method: SW846 8270D BY SIM
Analyst approved: 07/22/20 12:53 Kristi Schollenberger
Supervisor approved: 07/23/20 09:08 Nina Pandya

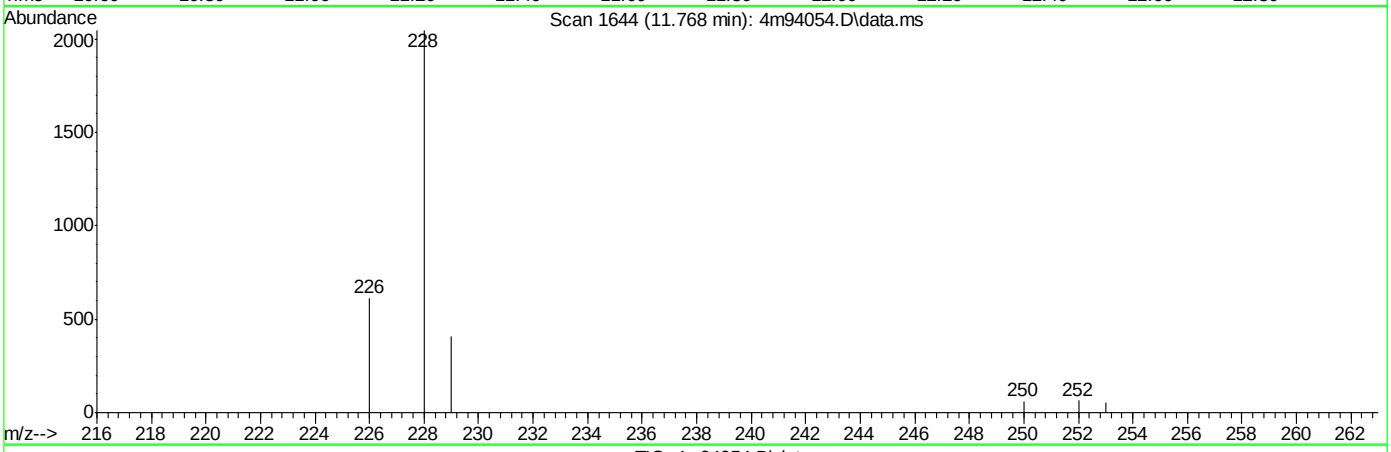
Parameter	CAS	Sig#	R.T. (min.)	Reason
1,4-Dioxane	123-91-1		1.77	Poor instrument integration
Chrysene	218-01-9		11.77	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94054.D
Acq On : 22 Jul 2020 10:46 am
Operator : angelar
Sample : ic4347-0.1
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 22 12:03:32 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 09:17:27 2020
Response via : Initial Calibration





TIC: 4m94054.D\data.ms

(27) Chrysene (t)

11.768min (-0.014) 0.07ppm

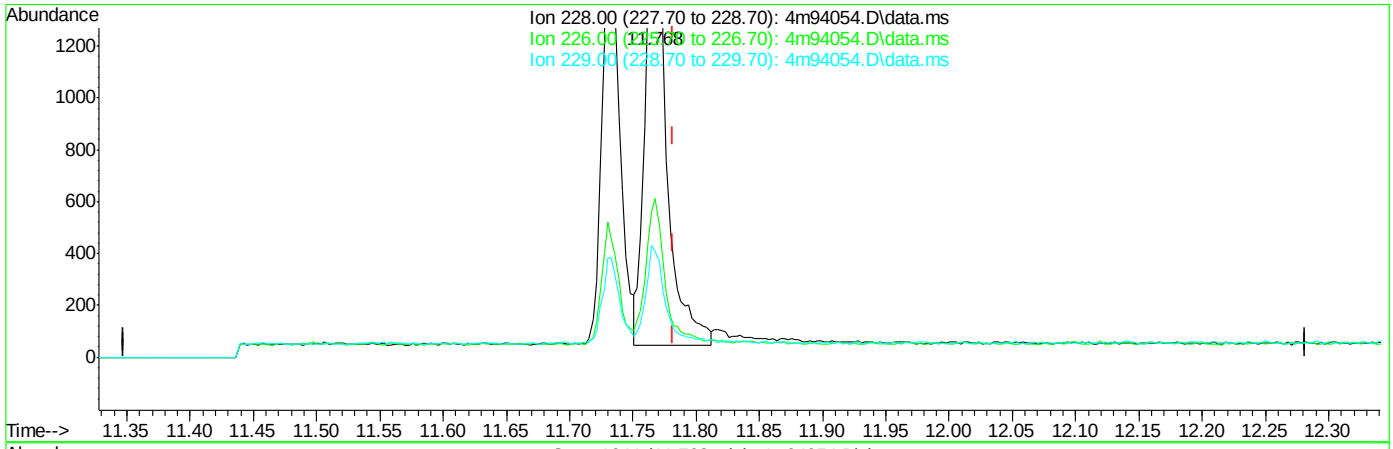
response 1743

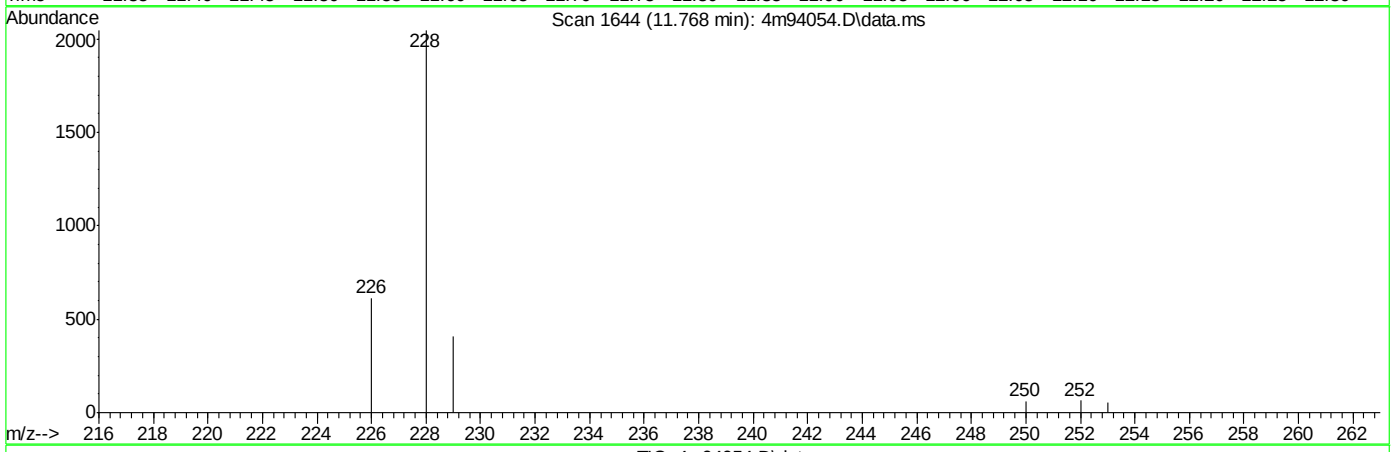
Ion	Exp%	Act%
228.00	100	100
226.00	45.90	28.34
229.00	28.50	18.04
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94054.D
Acq On : 22 Jul 2020 10:46 am
Operator : angelar
Sample : ic4347-0.1
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 22 12:03:32 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 09:17:27 2020
Response via : Initial Calibration





TIC: 4m94054.D\data.ms

(27) Chrysene (t)

11.768min (-0.014) 0.08ppm m

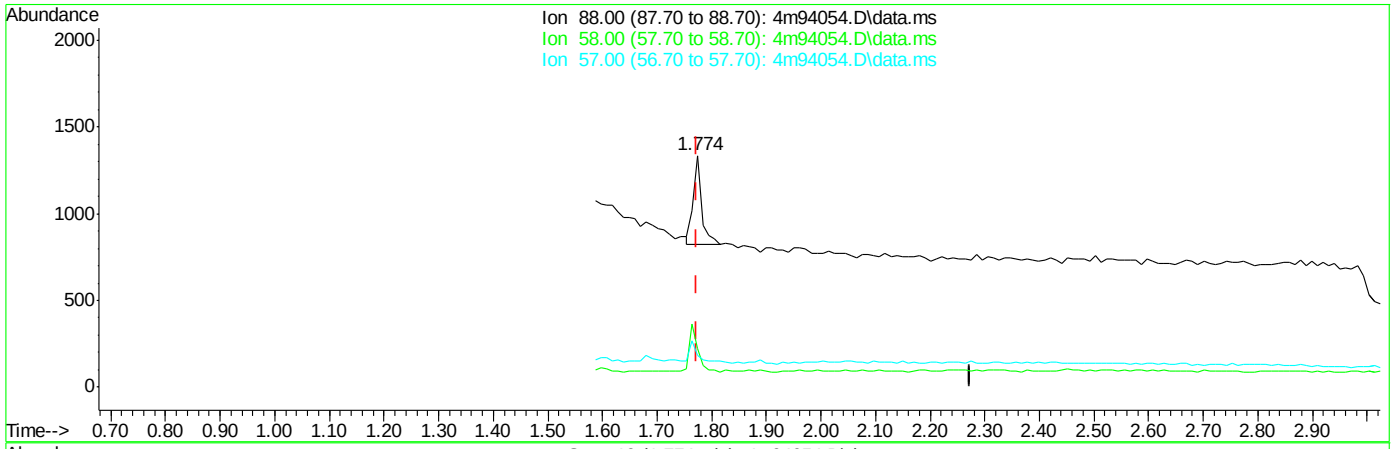
response 2118

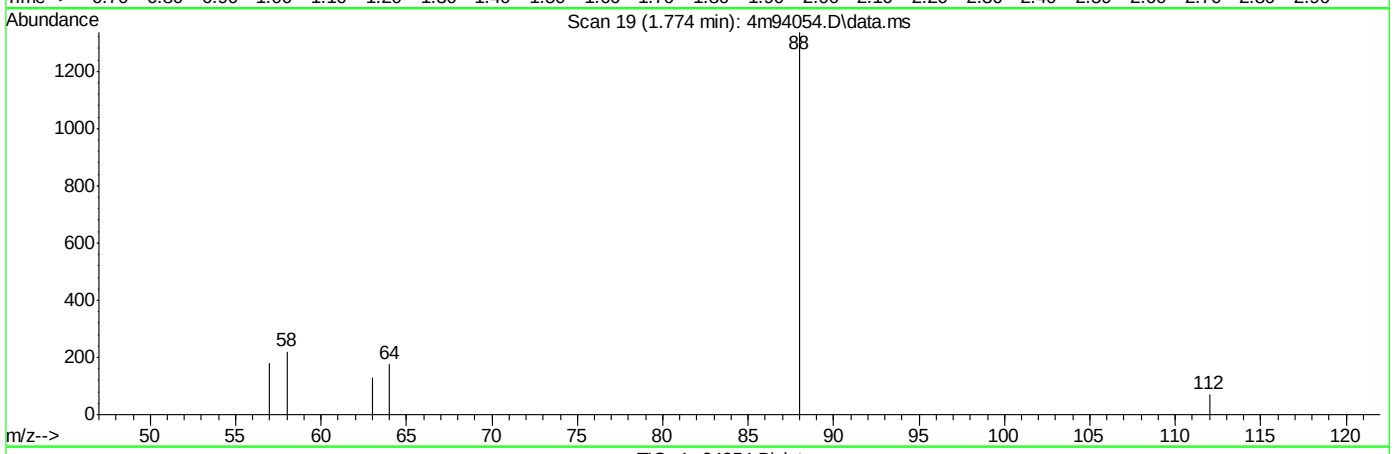
Ion	Exp%	Act%
228.00	100	100
226.00	45.90	29.93
229.00	28.50	20.05
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94054.D
Acq On : 22 Jul 2020 10:46 am
Operator : angelar
Sample : ic4347-0.1
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 22 12:03:32 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 09:17:27 2020
Response via : Initial Calibration





TIC: 4m94054.D\data.ms

(36) 1,4-Dioxane (t)

1.774min (+0.000) 0.14ppm

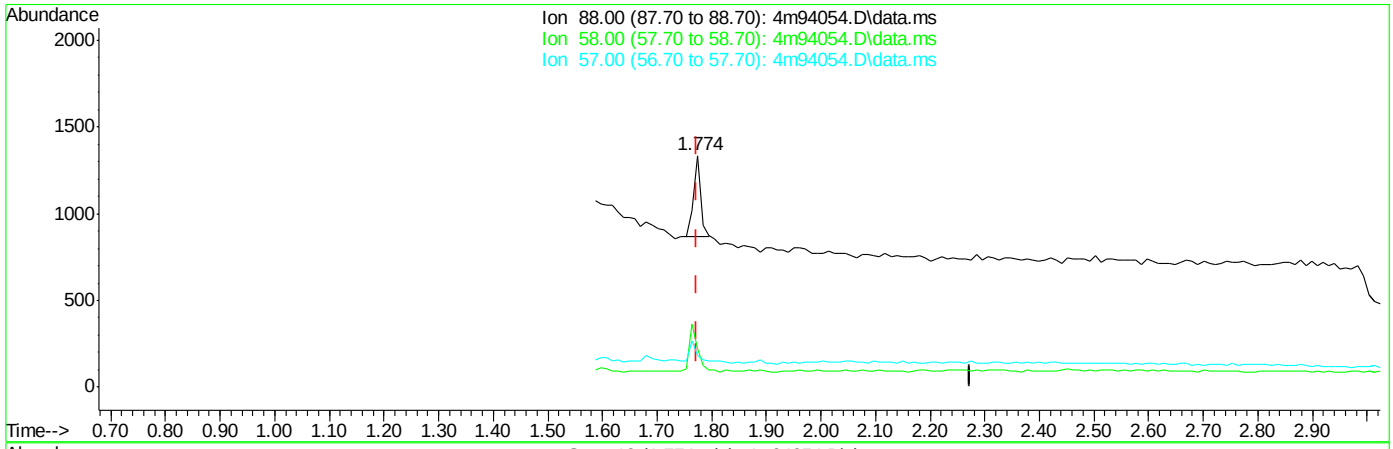
response 553

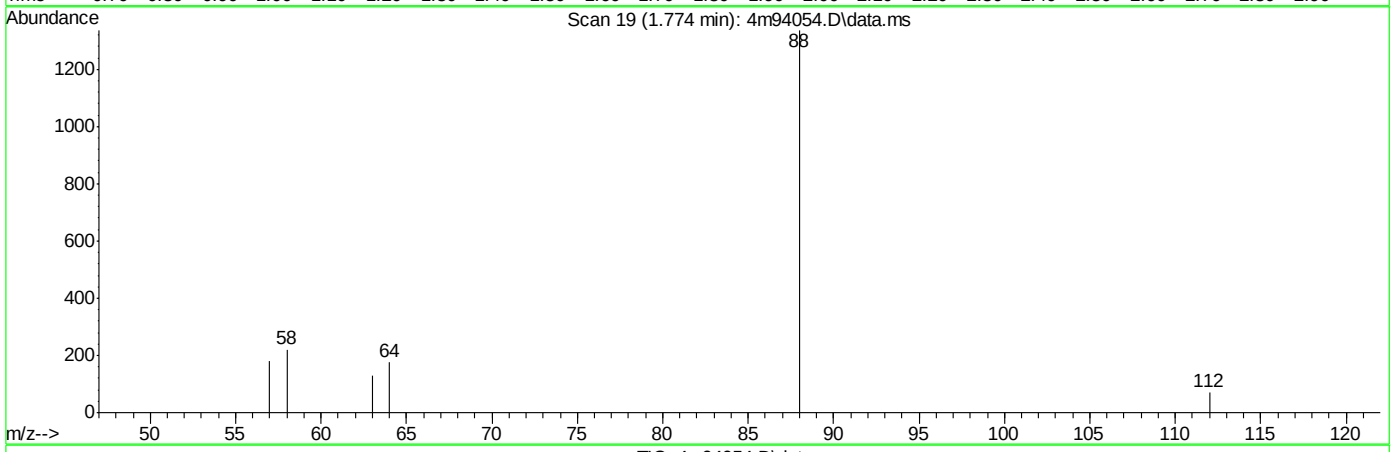
Ion	Exp%	Act%
88.00	100	100
58.00	61.70	25.43#
57.00	20.30	6.33
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94054.D
Acq On : 22 Jul 2020 10:46 am
Operator : angelar
Sample : ic4347-0.1
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 22 12:03:32 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 09:17:27 2020
Response via : Initial Calibration





TIC: 4m94054.D\data.ms

(36) 1,4-Dioxane (t)

1.774min (+0.000) 0.11ppm m

response 432

Ion	Exp%	Act%
88.00	100	100
58.00	61.70	16.47#
57.00	20.30	13.55
0.00	0.00	0.00

4M94055.D

Manual Integrations APPROVED (compounds with "m" flag)

Nina Pandya 07/23/20 09:08

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94055.D
Acq On : 22 Jul 2020 11:08 am
Operator : angelar
Sample : ic4347-0.05
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 22 12:05:24 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 09:17:27 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1-Methylnaphthalene-d10	6.738	152	48536	4.00	ppm		0.00
12) Fluorene-d10	8.206	176	50526	4.00	ppm		-0.01
22) Fluoranthene-d10	10.315	212	89105	4.00	ppm		-0.01
28) Benzo(a)pyrene-d12	12.985	264	50344	4.00	ppm		-0.02
35) 1-Methylnaphthalene-d10a	6.738	152	48536	4.00	ppm		# 0.00
38) Fluorene-d10a	8.206	176	50526	4.00	ppm		-0.01
System Monitoring Compounds							
2) 2-Fluorophenol	3.523	112	8169	1.17	ppm		-0.01
Spiked Amount 50.000	Range 11 - 58		Recovery =	2.34%#			
3) Phenol-d5	4.461	99	10027	1.07	ppm		-0.01
Spiked Amount 50.000			Recovery =	2.14%			
6) Nitrobenzene-d5	5.293	82	9373	1.46	ppm		0.00
Spiked Amount 50.000			Recovery =	2.92%			
11) 2-Fluorobiphenyl	7.050	172	17258	1.02	ppm		0.00
Spiked Amount 50.000			Recovery =	2.04%			
17) 2,4,6-Tribromophenol	8.468	330	2208	1.02	ppm		-0.01
Spiked Amount 50.000			Recovery =	2.04%			
25) Terphenyl-d14	10.732	244	12962	0.89	ppm		-0.01
Spiked Amount 50.000			Recovery =	1.78%			
Target Compounds							Qvalue
4) Phenol	4.472	94	2588	0.25	ppm		95
5) bis(2-Chloroethyl)ether	4.517	93	404	0.05	ppm		97
7) Naphthalene	6.001	128	1229	0.05	ppm		84
8) Hexachlorobutadiene	6.140	225	294	0.06	ppm		88
9) 2-Methylnaphthalene	6.681	142	745	0.05	ppm		90
10) Hexachlorocyclopentadiene	6.845	237	358	0.08	ppm	#	17
13) Acenaphthylene	7.544	152	1082	0.05	ppm		76
14) Acenaphthene	7.715	153	698	0.05	ppm	#	80
15) Dibenzofuran	7.898	168	1004	0.05	ppm		61
16) Fluorene	8.229	166	856	0.05	ppm		89
18) Hexachlorobenzene	8.774	284	317	0.05	ppm		73
19) Pentachlorophenol	8.974	266	420	0.14	ppm		75
20) Phenanthrene	9.157	178	1126	0.05	ppm		93
21) Anthracene	9.210	178	933	0.04	ppm		83
23) Fluoranthene	10.330	202	1455	0.05	ppm		73
24) Pyrene	10.550	202	1165	0.04	ppm		91
26) Benzo[a]anthracene	11.733	228	699	0.03	ppm		71
27) Chrysene	11.768	228	888	0.04	ppm		77
29) Benzo[b]fluoranthene	12.730	252	690	0.04	ppm		68
30) Benzo[k]fluoranthene	12.753	252	670	0.04	ppm		85
31) Benzo[a]pyrene	13.003	252	845	0.04	ppm		93
32) Indeno[1,2,3-cd]pyrene	13.999	276	616	0.04	ppm		88
33) Dibenz[a,h]anthracene	14.019	278	469	0.03	ppm	#	46
34) Benzo[g,h,i]perylene	14.268	276	588	0.04	ppm		92
36) 1,4-Dioxane	1.774	88	284m	0.07	ppm		
37) 1-Methylnaphthalene	6.771	142	839	0.05	ppm		93
39) 4,6-dinitro-2-methylph...	8.297	198	259	0.29	ppm	#	60

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94055.D
Acq On : 22 Jul 2020 11:08 am
Operator : angelar
Sample : ic4347-0.05
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 22 12:05:24 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 09:17:27 2020
Response via : Initial Calibration

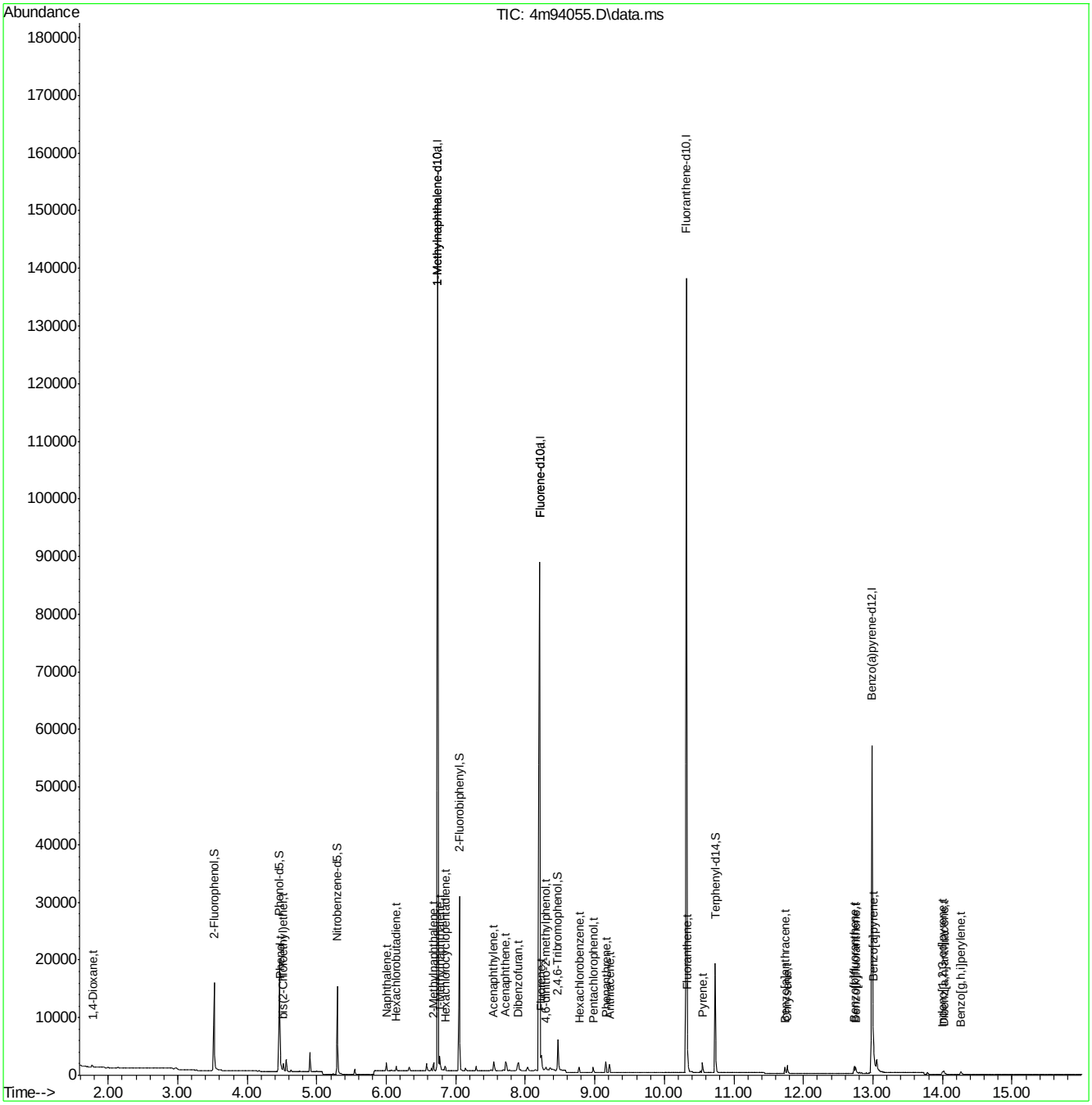
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94055.D
Acq On : 22 Jul 2020 11:08 am
Operator : angelar
Sample : ic4347-0.05
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 22 12:05:24 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 09:17:27 2020
Response via : Initial Calibration



Manual Integration Approval Summary

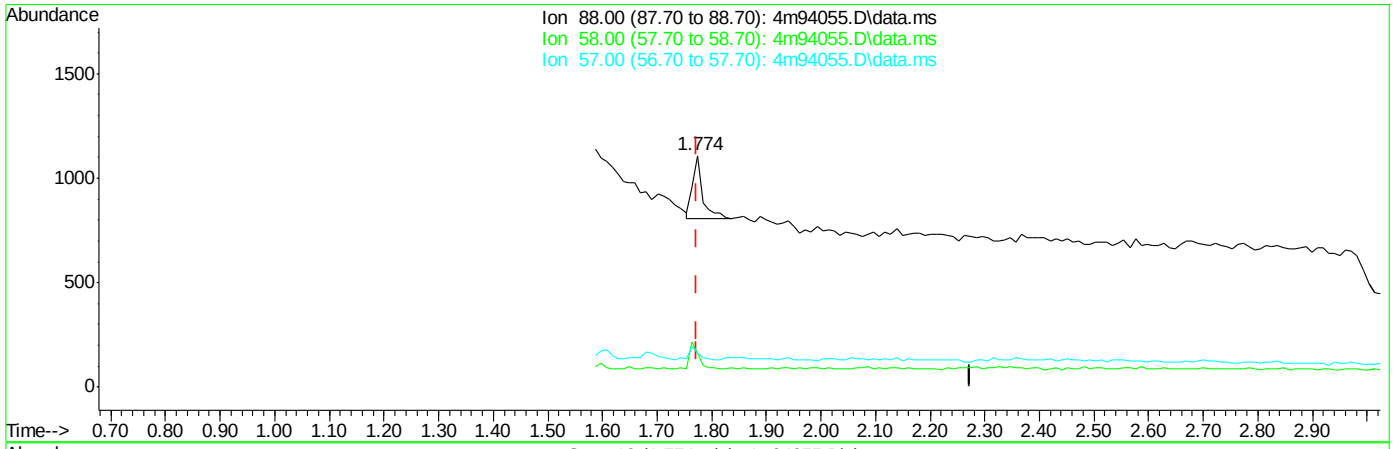
Sample Number: E4M4347-IC4347
Lab FileID: 4M94055.D
Injection Time: 07/22/20 11:08
Method: SW846 8270D BY SIM
Analyst approved: 07/22/20 12:53 Kristi Schollenberger
Supervisor approved: 07/23/20 09:08 Nina Pandya

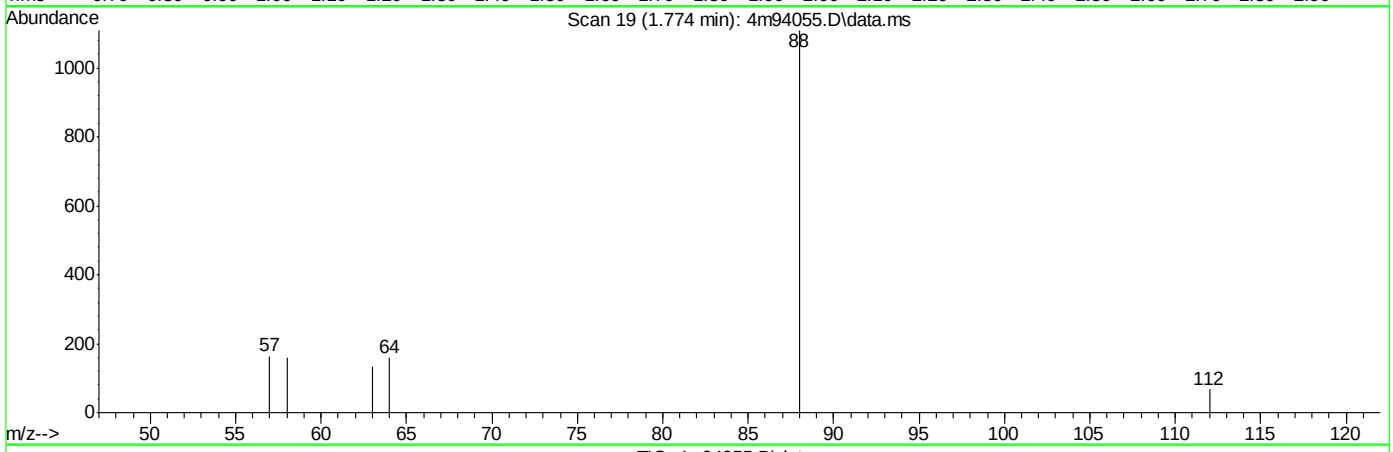
Parameter	CAS	Sig#	R.T. (min.)	Reason
1,4-Dioxane	123-91-1		1.77	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94055.D
Acq On : 22 Jul 2020 11:08 am
Operator : angelar
Sample : ic4347-0.05
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 22 12:04:50 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 09:17:27 2020
Response via : Initial Calibration





TIC: 4m94055.D\data.ms

(36) 1,4-Dioxane (t)

1.774min (+0.000) 0.10ppm

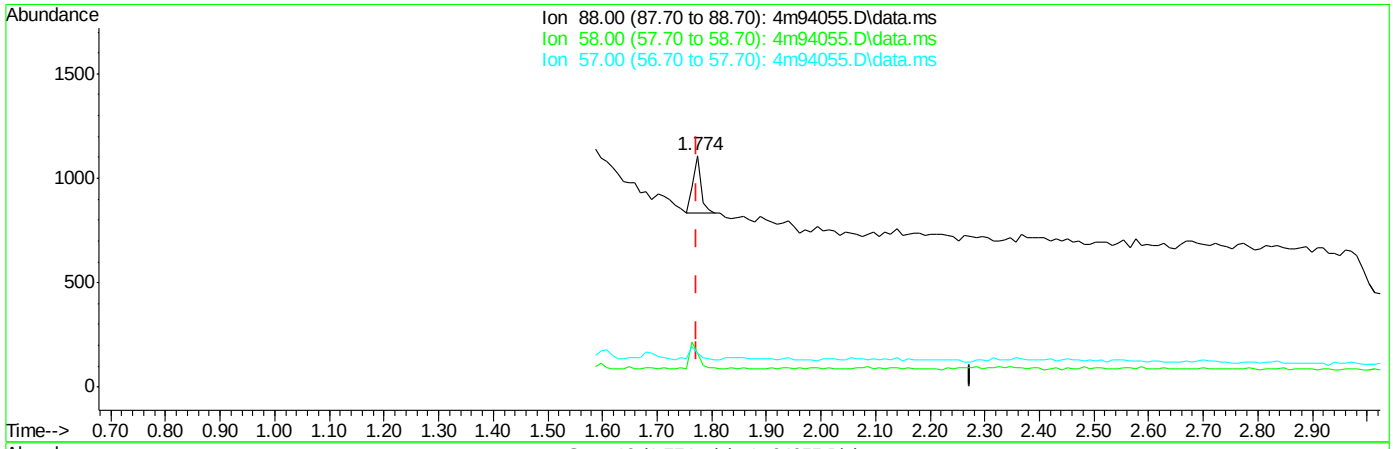
response 389

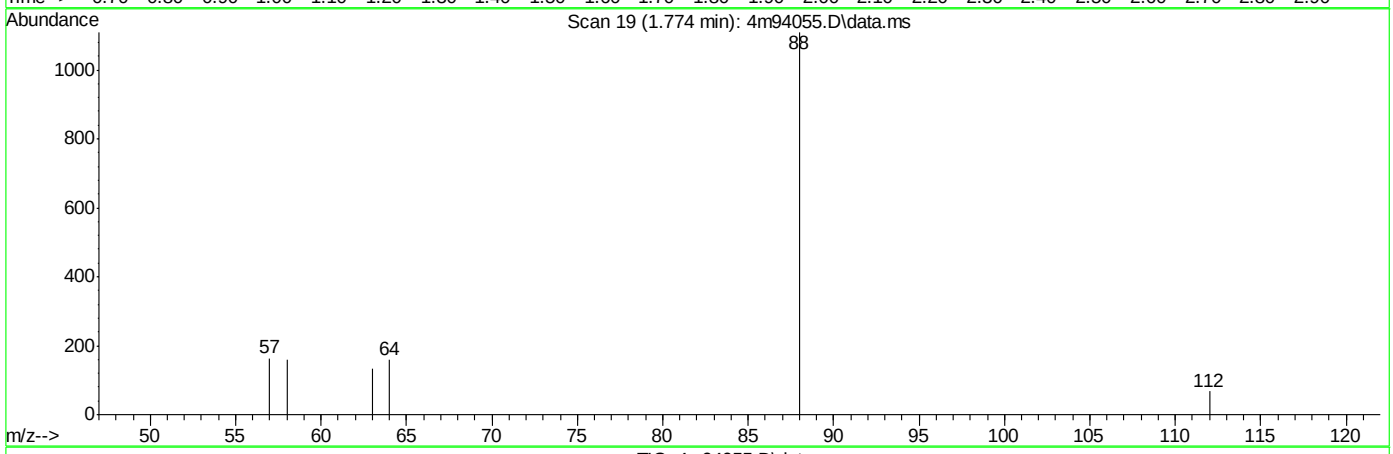
Ion	Exp%	Act%
88.00	100	100
58.00	61.70	24.35#
57.00	20.30	8.52
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94055.D
Acq On : 22 Jul 2020 11:08 am
Operator : angelar
Sample : ic4347-0.05
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 22 12:04:50 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 09:17:27 2020
Response via : Initial Calibration





TIC: 4m94055.D\data.ms

(36) 1,4-Dioxane (t)

1.774min (+0.000) 0.07ppm m

response 284

Ion	Exp%	Act%
88.00	100	100
58.00	61.70	14.52#
57.00	20.30	14.70
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya 07/23/20 09:08

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94056.D
Acq On : 22 Jul 2020 11:29 am
Operator : angelar
Sample : ic4347-0.02
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 22 12:07:37 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 09:17:27 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1-Methylnaphthalene-d10	6.739	152	43653	4.00	ppm		0.00
12) Fluorene-d10	8.206	176	43658	4.00	ppm		-0.01
22) Fluoranthene-d10	10.315	212	78749	4.00	ppm		-0.01
28) Benzo(a)pyrene-d12	12.989	264	42157	4.00	ppm		-0.01
35) 1-Methylnaphthalene-d10a	6.739	152	43653	4.00	ppm		0.00
38) Fluorene-d10a	8.206	176	43658	4.00	ppm		-0.01
System Monitoring Compounds							
2) 2-Fluorophenol	3.523	112	2825	0.45	ppm		-0.01
Spiked Amount 50.000	Range 11 - 58		Recovery =	0.90%#			
3) Phenol-d5	4.461	99	3407	0.40	ppm		-0.01
Spiked Amount 50.000			Recovery =	0.80%			
6) Nitrobenzene-d5	5.293	82	3204	0.56	ppm		0.00
Spiked Amount 50.000			Recovery =	1.12%			
11) 2-Fluorobiphenyl	7.050	172	6112	0.40	ppm		0.00
Spiked Amount 50.000			Recovery =	0.80%			
17) 2,4,6-Tribromophenol	8.469	330	746m	0.40	ppm		-0.01
Spiked Amount 50.000			Recovery =	0.80%			
25) Terphenyl-d14	10.732	244	4045	0.31	ppm		-0.01
Spiked Amount 50.000			Recovery =	0.62%			
Target Compounds							Qvalue
4) Phenol	4.472	94	879	0.09	ppm		82
5) bis(2-Chloroethyl)ether	4.521	93	122	0.02	ppm		97
7) Naphthalene	6.001	128	444	0.02	ppm		93
8) Hexachlorobutadiene	6.140	225	102	0.02	ppm		76
9) 2-Methylnaphthalene	6.681	142	265	0.02	ppm		99
10) Hexachlorocyclopentadiene	6.845	237	95	0.02	ppm		54
13) Acenaphthylene	7.545	152	380	0.02	ppm		76
14) Acenaphthene	7.716	153	261	0.02	ppm	#	78
15) Dibenzofuran	7.898	168	372	0.02	ppm		79
16) Fluorene	8.229	166	346	0.02	ppm		83
18) Hexachlorobenzene	8.774	284	108	0.02	ppm		61
19) Pentachlorophenol	8.975	266	144	0.06	ppm		82
20) Phenanthrene	9.158	178	411	0.02	ppm		95
21) Anthracene	9.210	178	347	0.02	ppm		92
23) Fluoranthene	10.331	202	509	0.02	ppm	#	56
24) Pyrene	10.550	202	418	0.02	ppm		95
26) Benzo[a]anthracene	11.733	228	247	0.01	ppm		76
27) Chrysene	11.768	228	291	0.01	ppm		71
29) Benzo[b]fluoranthene	12.730	252	241	0.02	ppm		65
30) Benzo[k]fluoranthene	12.756	252	271	0.02	ppm		80
31) Benzo[a]pyrene	13.004	252	324	0.02	ppm		98
32) Indeno[1,2,3-cd]pyrene	13.999	276	204	0.02	ppm		78
33) Dibenz[a,h]anthracene	14.023	278	148	0.01	ppm	#	16
34) Benzo[g,h,i]perylene	14.272	276	198	0.02	ppm		97
36) 1,4-Dioxane	1.774	88	55m	0.02	ppm		
37) 1-Methylnaphthalene	6.771	142	285	0.02	ppm		84
39) 4,6-dinitro-2-methylph...	8.298	198	70	0.09	ppm	#	45

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94056.D
Acq On : 22 Jul 2020 11:29 am
Operator : angelar
Sample : ic4347-0.02
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 22 12:07:37 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 09:17:27 2020
Response via : Initial Calibration

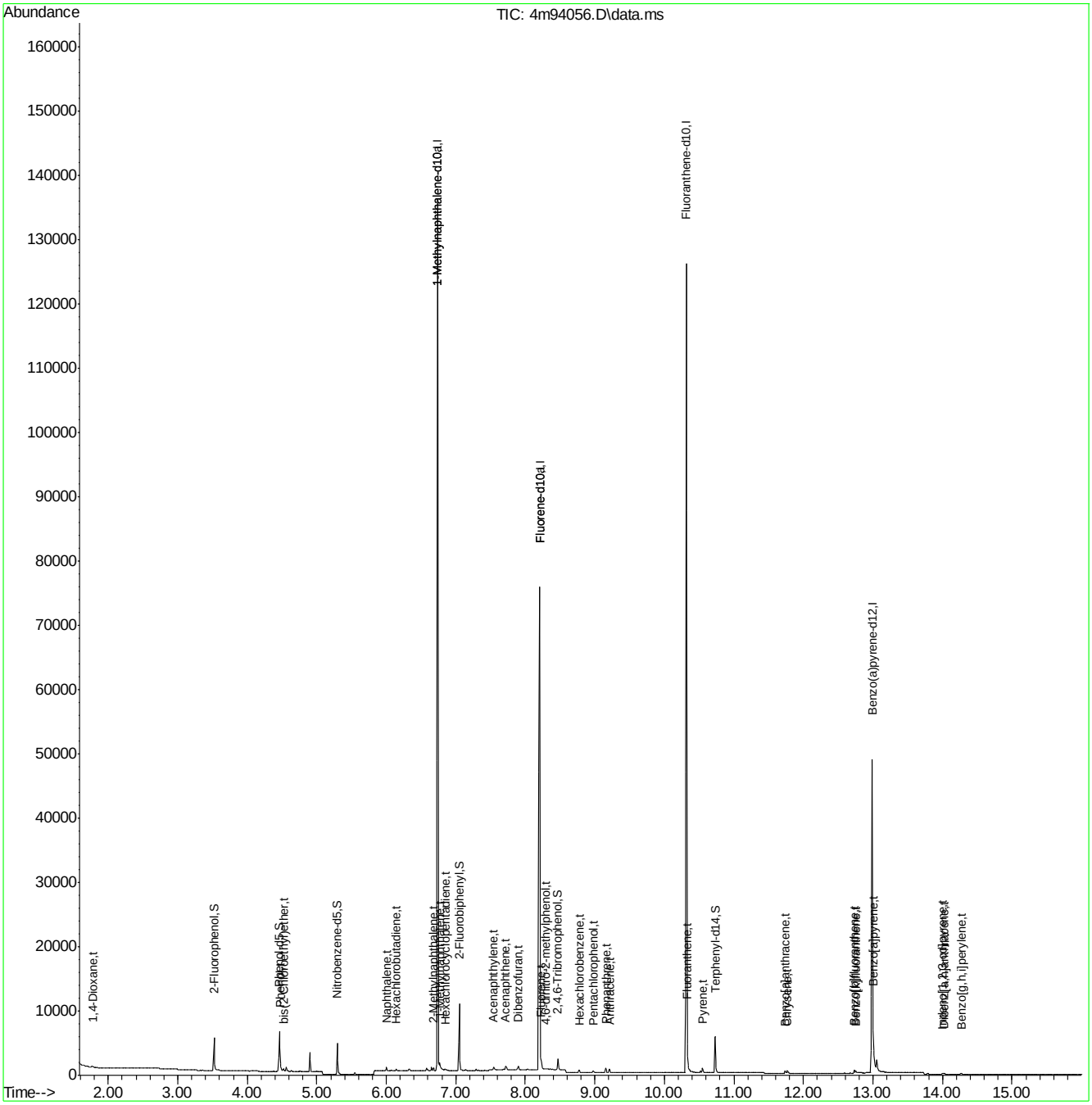
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94056.D
Acq On : 22 Jul 2020 11:29 am
Operator : angelar
Sample : ic4347-0.02
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 22 12:07:37 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 09:17:27 2020
Response via : Initial Calibration



Manual Integration Approval Summary

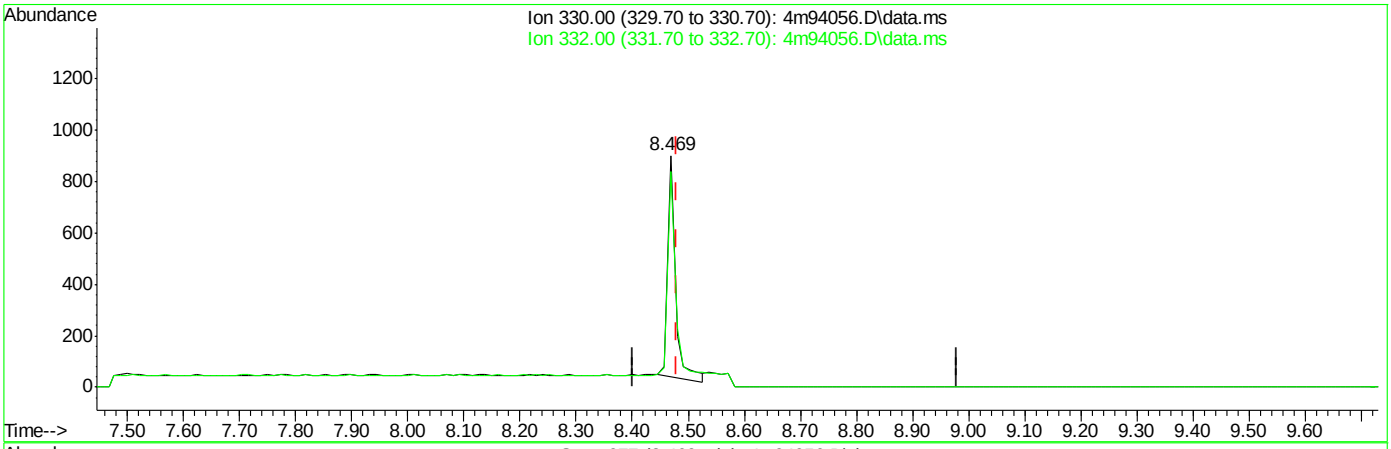
Sample Number: E4M4347-IC4347
Lab FileID: 4M94056.D
Injection Time: 07/22/20 11:29
Method: SW846 8270D BY SIM
Analyst approved: 07/22/20 12:53 Kristi Schollenberger
Supervisor approved: 07/23/20 09:08 Nina Pandya

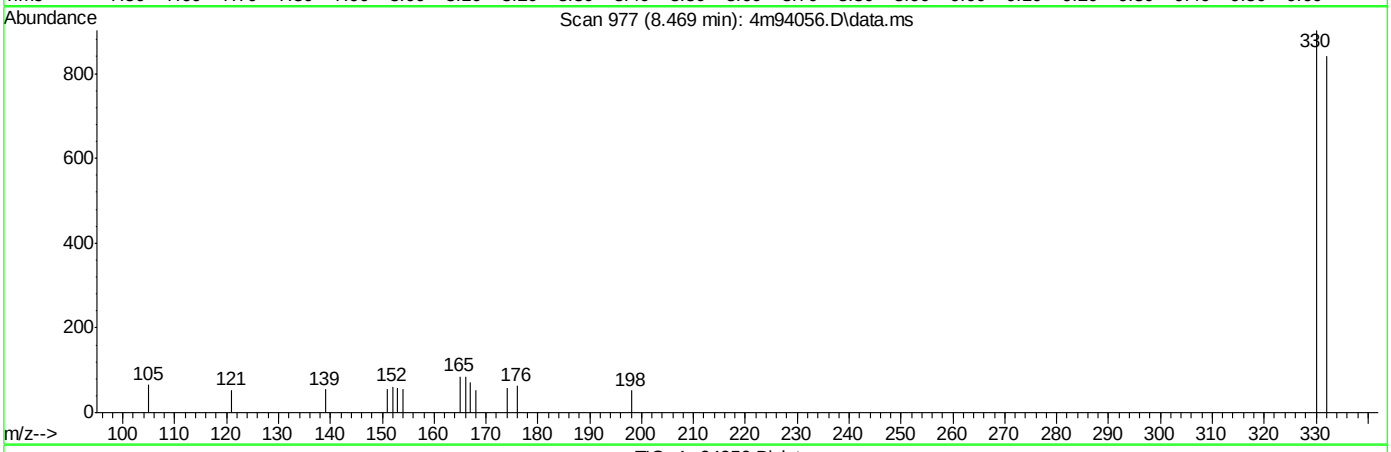
Parameter	CAS	Sig#	R.T. (min.)	Reason
1,4-Dioxane	123-91-1		1.77	Poor instrument integration
2,4,6-Tribromophenol	118-79-6		8.47	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94056.D
Acq On : 22 Jul 2020 11:29 am
Operator : angelar
Sample : ic4347-0.02
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 22 12:06:46 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 09:17:27 2020
Response via : Initial Calibration





TIC: 4m94056.D\data.ms

(17) 2,4,6-Tribromophenol (S)

8.469min (-0.011) 0.44ppm

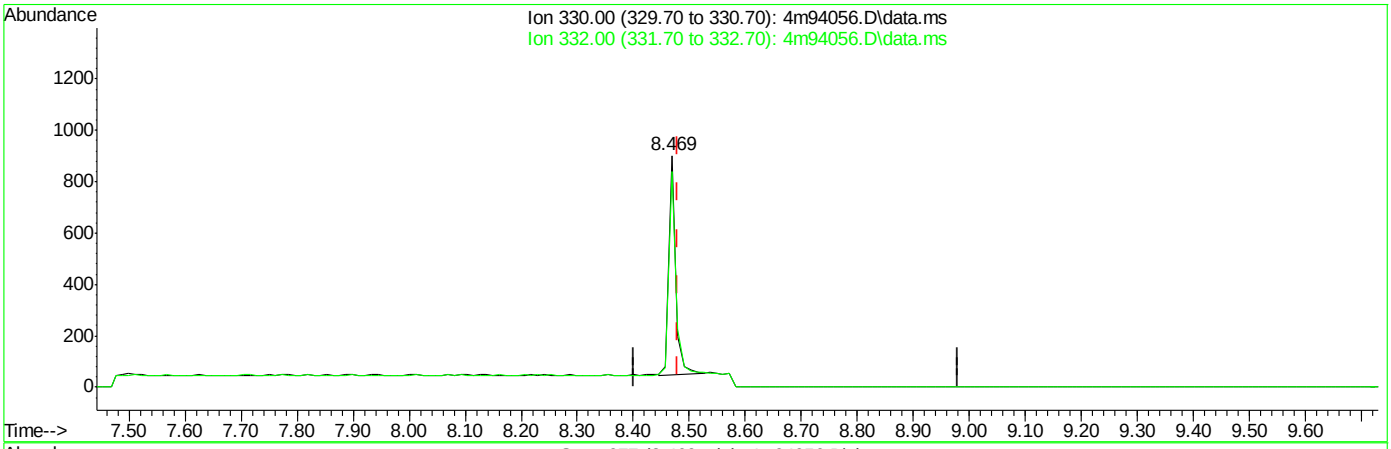
response 825

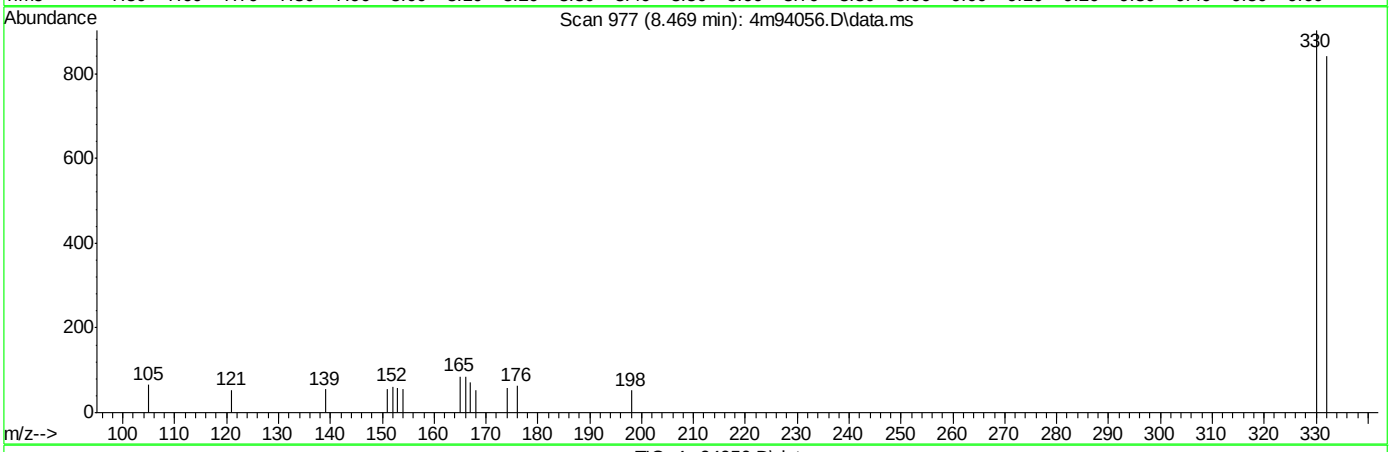
Ion	Exp%	Act%
330.00	100	100
332.00	99.80	92.66
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94056.D
Acq On : 22 Jul 2020 11:29 am
Operator : angelar
Sample : ic4347-0.02
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 22 12:06:46 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 09:17:27 2020
Response via : Initial Calibration





TIC: 4m94056.D\data.ms

(17) 2,4,6-Tribromophenol (S)

8.469min (-0.011) 0.40ppm m

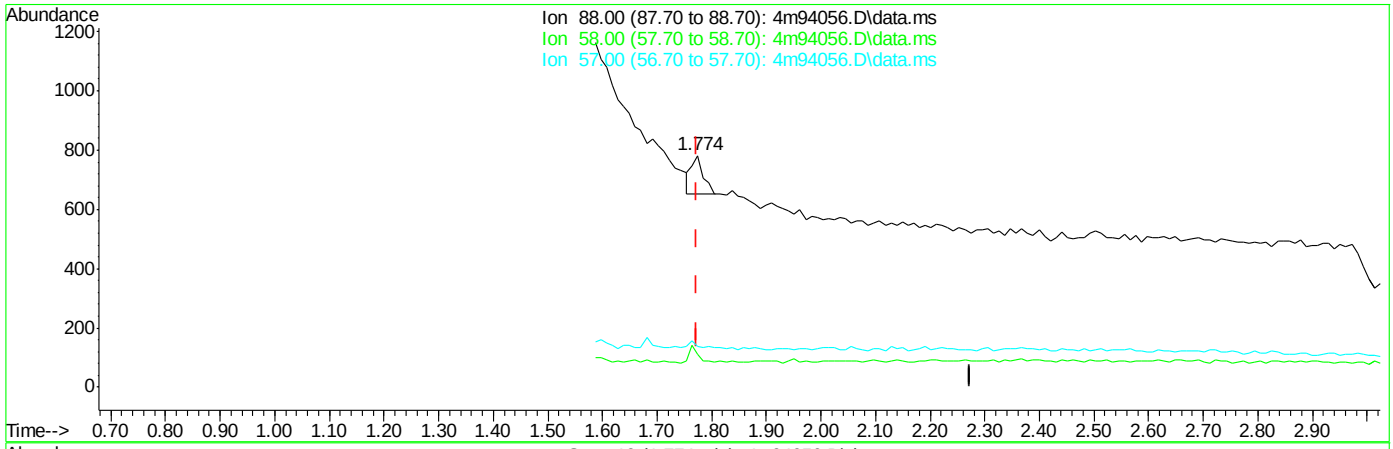
response 746

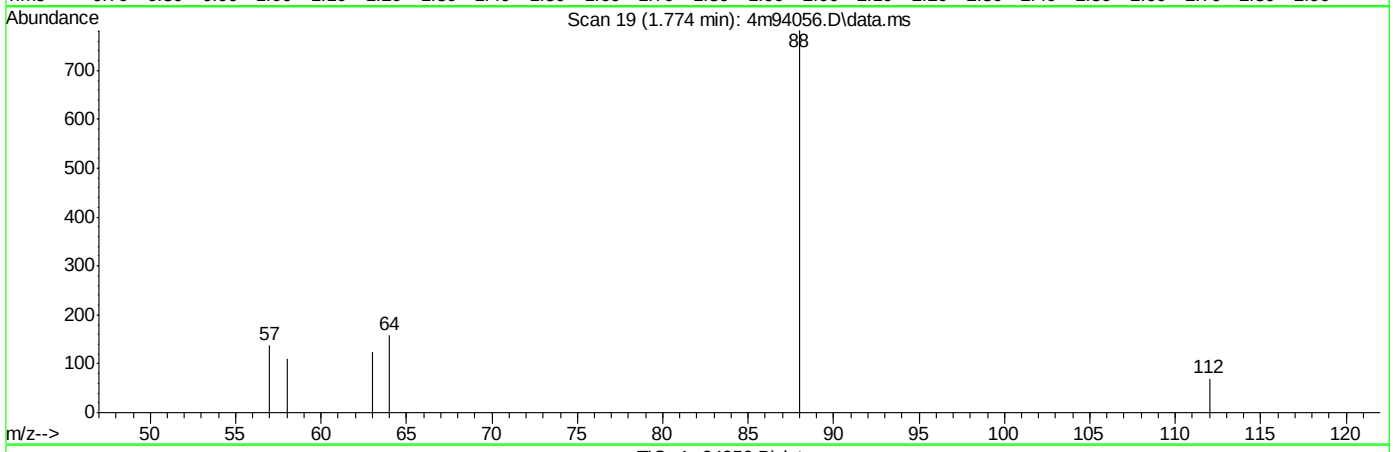
Ion	Exp%	Act%
330.00	100	100
332.00	99.80	93.24
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94056.D
Acq On : 22 Jul 2020 11:29 am
Operator : angelar
Sample : ic4347-0.02
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 22 12:06:46 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 09:17:27 2020
Response via : Initial Calibration





TIC: 4m94056.D\data.ms

(36) 1,4-Dioxane (t)

1.774min (+0.000) 0.06ppm

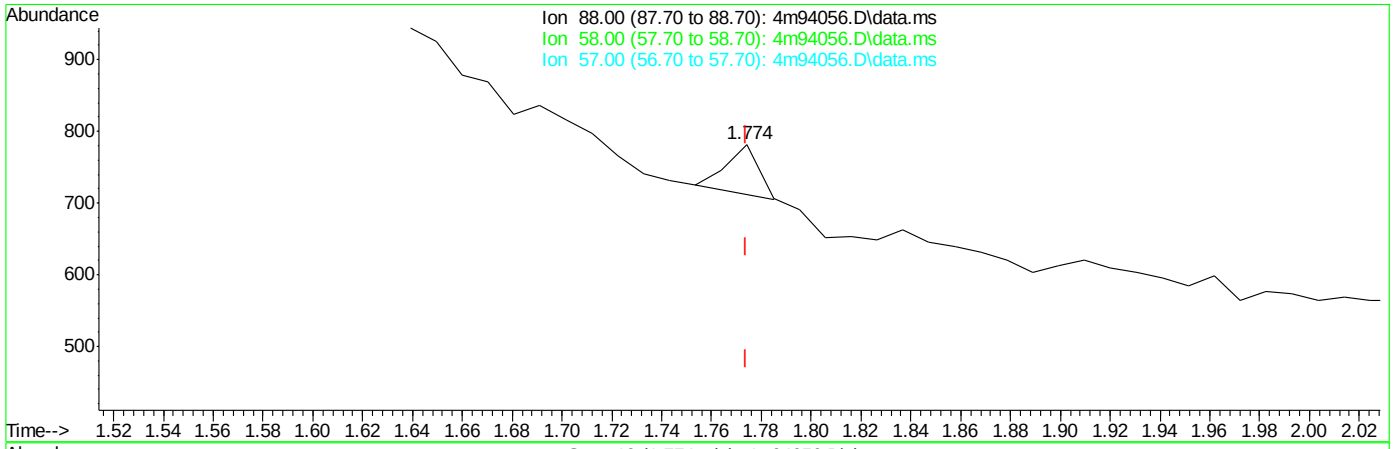
response 197

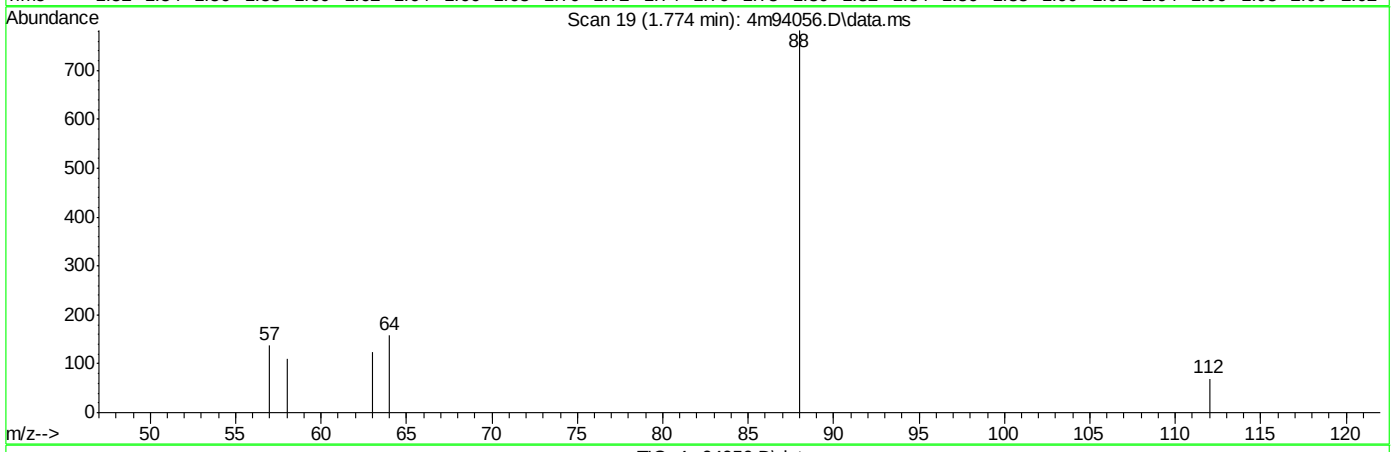
Ion	Exp%	Act%
88.00	100	100
58.00	61.70	26.20#
57.00	20.30	2.14
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94056.D
Acq On : 22 Jul 2020 11:29 am
Operator : angelar
Sample : ic4347-0.02
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 22 12:06:46 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 09:17:27 2020
Response via : Initial Calibration





TIC: 4m94056.D\data.ms

(36) 1,4-Dioxane (t)

1.774min (+0.000) 0.02ppm m

response 55

Ion	Exp%	Act%
88.00	100	100
58.00	61.70	14.19#
57.00	20.30	17.65
0.00	0.00	0.00

Manual Integrations APPROVED
(compounds with "m" flag)
Nina Pandya
07/23/20 09:08

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94057.D
Acq On : 22 Jul 2020 11:53 am
Operator : angelar
Sample : ic4347-0.01
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 22 12:10:29 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 09:17:27 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1-Methylnaphthalene-d10	6.738	152	48452	4.00	ppm		0.00
12) Fluorene-d10	8.206	176	50172	4.00	ppm		-0.01
22) Fluoranthene-d10	10.319	212	87046	4.00	ppm		0.00
28) Benzo(a)pyrene-d12	12.991	264	46731	4.00	ppm		0.00
35) 1-Methylnaphthalene-d10a	6.738	152	48452	4.00	ppm	#	0.00
38) Fluorene-d10a	8.206	176	50172	4.00	ppm		-0.01
System Monitoring Compounds							
2) 2-Fluorophenol	3.523	112	1588	0.23	ppm		-0.01
Spiked Amount 50.000	Range 11 - 58		Recovery =	0.46%#			
3) Phenol-d5	4.461	99	1829	0.20	ppm		-0.01
Spiked Amount 50.000			Recovery =	0.40%			
6) Nitrobenzene-d5	5.293	82	1727	0.27	ppm		0.00
Spiked Amount 50.000			Recovery =	0.54%			
11) 2-Fluorobiphenyl	7.050	172	3335	0.20	ppm		0.00
Spiked Amount 50.000			Recovery =	0.40%			
17) 2,4,6-Tribromophenol	8.468	330	416m	0.19	ppm		-0.01
Spiked Amount 50.000			Recovery =	0.38%			
25) Terphenyl-d14	10.732	244	2203	0.15	ppm		-0.01
Spiked Amount 50.000			Recovery =	0.30%			
Target Compounds							Qvalue
4) Phenol	4.472	94	476	0.05	ppm		89
5) bis(2-Chloroethyl)ether	4.521	93	72	0.01	ppm	#	65
7) Naphthalene	6.001	128	245	0.01	ppm		87
8) Hexachlorobutadiene	6.140	225	65	0.01	ppm		80
9) 2-Methylnaphthalene	6.681	142	181	0.01	ppm		97
10) Hexachlorocyclopentadiene	6.845	237	47	0.01	ppm	#	1
13) Acenaphthylene	7.544	152	220	0.01	ppm		71
14) Acenaphthene	7.716	153	144	0.01	ppm	#	82
15) Dibenzofuran	7.898	168	216	0.01	ppm		84
16) Fluorene	8.229	166	162	0.01	ppm		95
18) Hexachlorobenzene	8.774	284	70	0.01	ppm		77
19) Pentachlorophenol	8.974	266	79	0.03	ppm		79
20) Phenanthrene	9.157	178	244	0.01	ppm		92
21) Anthracene	9.210	178	214	0.01	ppm		92
23) Fluoranthene	10.334	202	296	0.01	ppm		61
24) Pyrene	10.554	202	251	0.01	ppm		89
26) Benzo[a]anthracene	11.739	228	156	0.01	ppm	#	60
27) Chrysene	11.771	228	190	0.01	ppm		72
29) Benzo[b]fluoranthene	12.736	252	139	0.01	ppm		79
30) Benzo[k]fluoranthene	12.759	252	117	0.01	ppm		97
31) Benzo[a]pyrene	13.009	252	175	0.01	ppm		88
32) Indeno[1,2,3-cd]pyrene	14.008	276	123	0.01	ppm		86
33) Dibenz[a,h]anthracene	14.025	278	84	0.01	ppm	#	14
34) Benzo[g,h,i]perylene	14.277	276	117	0.01	ppm		100
37) 1-Methylnaphthalene	6.771	142	182	0.01	ppm		88

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94057.D
Acq On : 22 Jul 2020 11:53 am
Operator : angelar
Sample : ic4347-0.01
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 22 12:10:29 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 09:17:27 2020
Response via : Initial Calibration

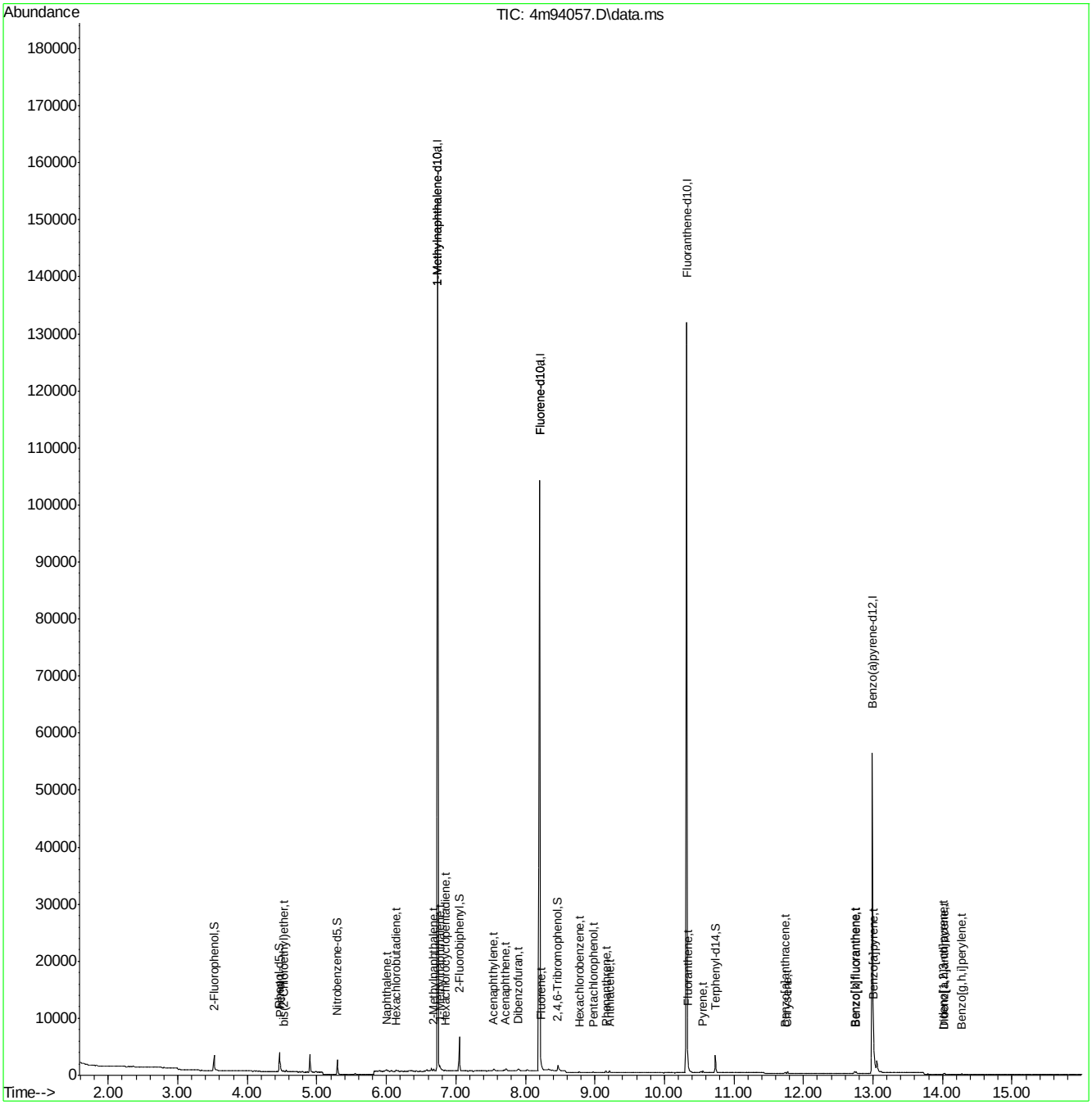
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94057.D
Acq On : 22 Jul 2020 11:53 am
Operator : angelar
Sample : ic4347-0.01
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 22 12:10:29 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 09:17:27 2020
Response via : Initial Calibration



Manual Integration Approval Summary

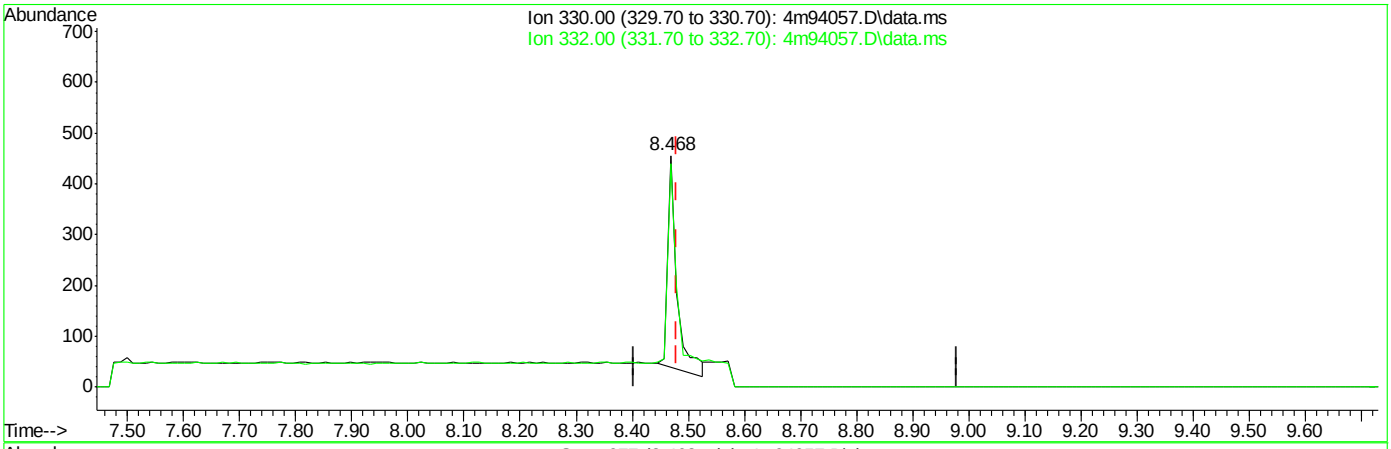
Sample Number:	E4M4347-IC4347	**Method:**	SW846 8270D BY SIM
Lab FileID:	4M94057.D	**Analyst approved:**	07/22/20 12:53 Kristi Schollenberger
Injection Time:	07/22/20 11:53	**Supervisor approved:**	07/23/20 09:08 Nina Pandya

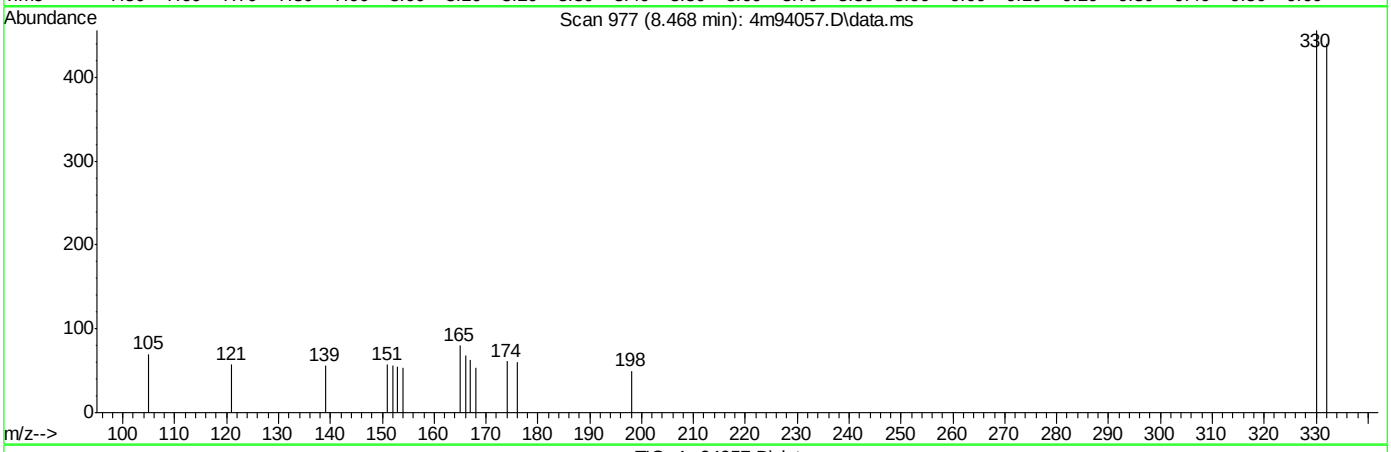
Parameter	CAS	Sig#	R.T. (min.)	Reason
2,4,6-Tribromophenol	118-79-6		8.47	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94057.D
Acq On : 22 Jul 2020 11:53 am
Operator : angelar
Sample : ic4347-0.01
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 22 12:09:40 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 09:17:27 2020
Response via : Initial Calibration





TIC: 4m94057.D\data.ms

(17) 2,4,6-Tribromophenol (S)

8.468min (-0.012) 0.22ppm

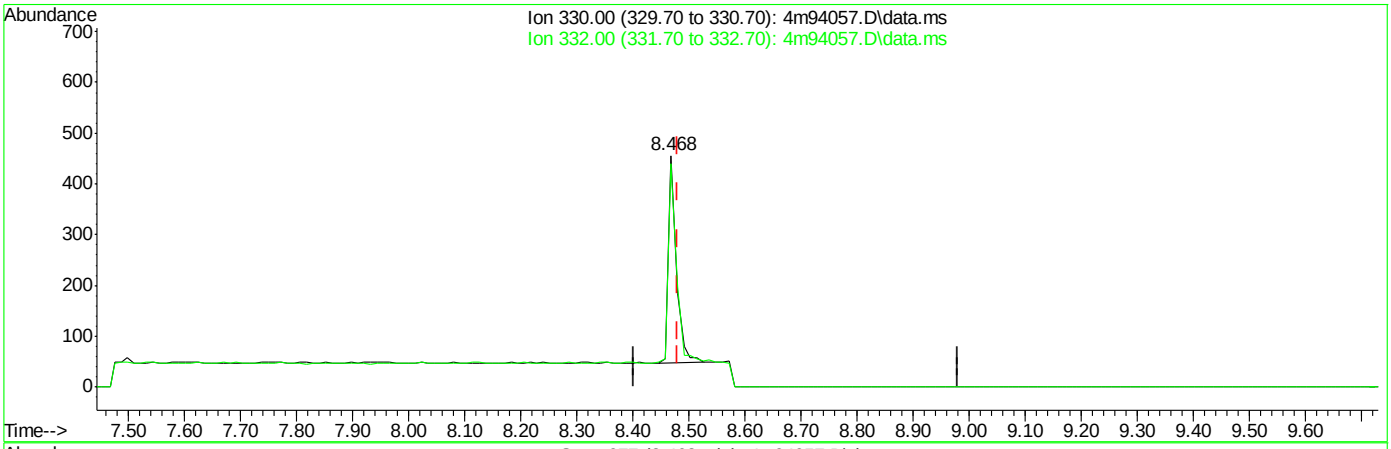
response 481

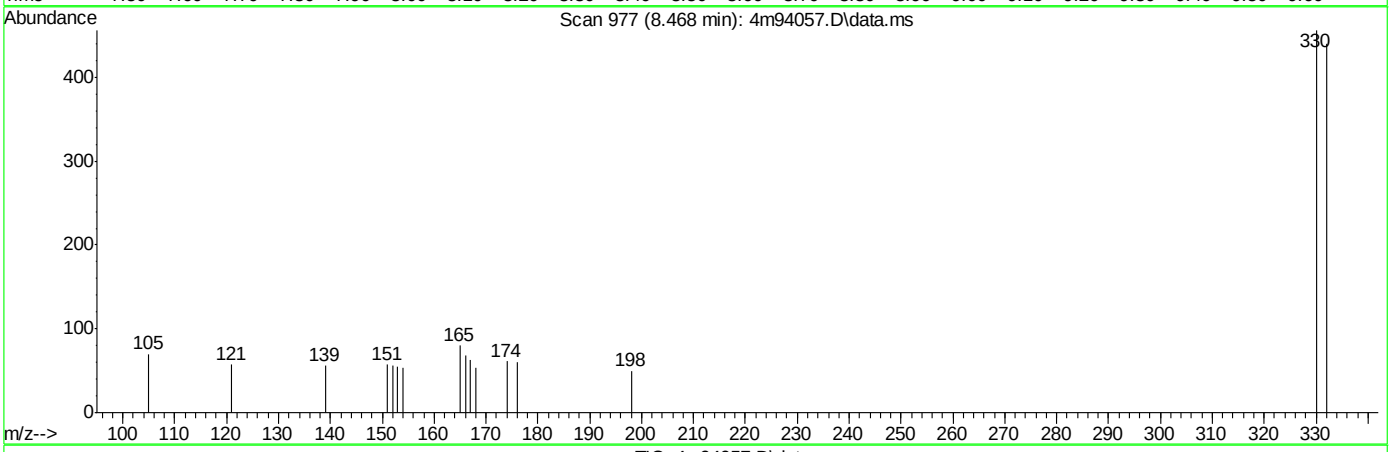
Ion	Exp%	Act%
330.00	100	100
332.00	99.80	95.71
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94057.D
Acq On : 22 Jul 2020 11:53 am
Operator : angelar
Sample : ic4347-0.01
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 22 12:09:40 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 09:17:27 2020
Response via : Initial Calibration





TIC: 4m94057.D\data.ms

(17) 2,4,6-Tribromophenol (S)

8.468min (-0.012) 0.19ppm m

response 416

Ion	Exp%	Act%
330.00	100	100
332.00	99.80	96.49
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94058.D
Acq On : 22 Jul 2020 12:14 pm
Operator : angelar
Sample : icv4347-1
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 22 12:33:05 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 12:21:59 2020
Response via : Initial Calibration

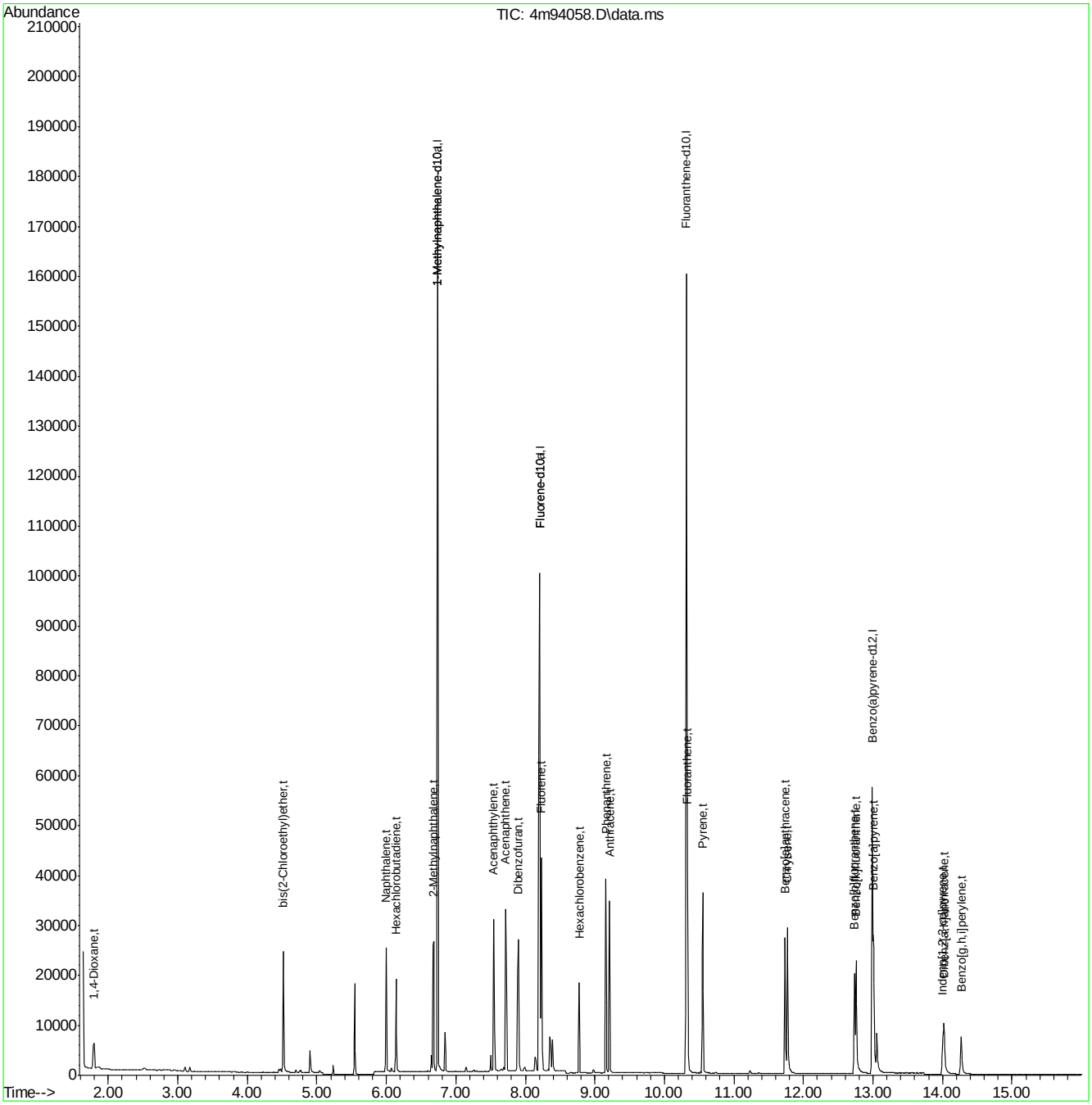
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	6.739	152	56438	4.00	ppm	0.00
12) Fluorene-d10	8.206	176	58047	4.00	ppm	-0.01
22) Fluoranthene-d10	10.315	212	98424	4.00	ppm	-0.01
28) Benzo(a)pyrene-d12	12.987	264	50538	4.00	ppm	-0.01
35) 1-Methylnaphthalene-d10a	6.739	152	56438	4.00	ppm	0.00
38) Fluorene-d10a	8.206	176	58047	4.00	ppm	-0.01
System Monitoring Compounds						
2) 2-Fluorophenol	0.000	112	0d	0.00	ppm	
Spiked Amount 50.000	Range 11 - 58		Recovery =	0.00%#		
3) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
6) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
11) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
17) 2,4,6-Tribromophenol	0.000	330	0d	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
25) Terphenyl-d14	0.000	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
Target Compounds						Qvalue
5) bis(2-Chloroethyl)ether	4.518	93	8090	0.86	ppm	87
7) Naphthalene	5.993	128	23205	0.82	ppm	100
8) Hexachlorobutadiene	6.140	225	5633	0.85	ppm	99
9) 2-Methylnaphthalene	6.681	142	14508	0.84	ppm	87
13) Acenaphthylene	7.545	152	20257	0.78	ppm	99
14) Acenaphthene	7.716	153	13299	0.81	ppm	97
15) Dibenzofuran	7.898	168	20247	0.84	ppm	96
16) Fluorene	8.229	166	16305	0.80	ppm	97
18) Hexachlorobenzene	8.774	284	5723	0.80	ppm	98
20) Phenanthrene	9.158	178	23007	0.84	ppm	100
21) Anthracene	9.210	178	19788	0.79	ppm	99
23) Fluoranthene	10.331	202	25911	0.82	ppm	100
24) Pyrene	10.550	202	22760	0.80	ppm	98
26) Benzo[a]anthracene	11.736	228	15166	0.77	ppm	98
27) Chrysene	11.771	228	20724	0.88	ppm	99
29) Benzo[b]fluoranthene	12.733	252	12631	0.76	ppm	95
30) Benzo[k]fluoranthene	12.756	252	17097	0.92	ppm	99
31) Benzo[a]pyrene	13.006	252	16455	0.86	ppm	98
32) Indeno[1,2,3-cd]pyrene	14.001	276	12833	0.79	ppm	94
33) Dibenz[a,h]anthracene	14.022	278	9651	0.71	ppm	96
34) Benzo[g,h,i]perylene	14.270	276	11728	0.85	ppm	100
36) 1,4-Dioxane	1.795	88	4063	0.78	ppm	85

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94058.D
Acq On : 22 Jul 2020 12:14 pm
Operator : angelar
Sample : icv4347-1
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 22 12:33:05 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 12:21:59 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94059.D
Acq On : 22 Jul 2020 12:36 pm
Operator : angelar
Sample : icv4347-5
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 22 12:52:53 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 12:21:59 2020
Response via : Initial Calibration

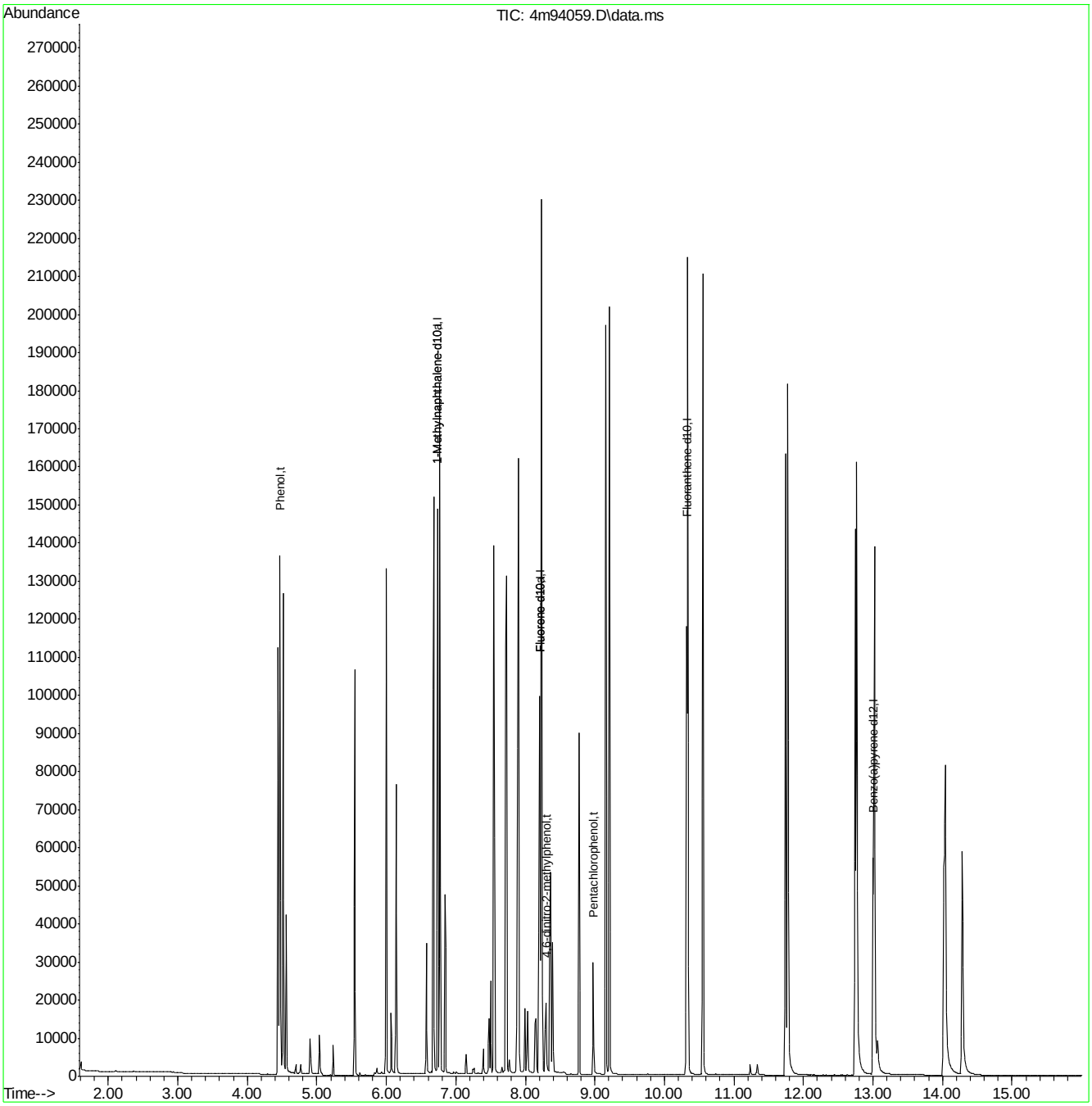
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	6.738	152	46184	4.00	ppm	0.00
12) Fluorene-d10	8.206	176	48330	4.00	ppm	-0.01
22) Fluoranthene-d10	10.319	212	84342	4.00	ppm	0.00
28) Benzo(a)pyrene-d12	13.002	264	50560	4.00	ppm	0.00
35) 1-Methylnaphthalene-d10a	6.738	152	46184	4.00	ppm	0.00
38) Fluorene-d10a	8.206	176	48330	4.00	ppm	-0.01
System Monitoring Compounds						
2) 2-Fluorophenol	0.000	112	0d	0.00	ppm	
Spiked Amount 50.000	Range 11 - 58		Recovery =	0.00%#		
3) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
6) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
11) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
17) 2,4,6-Tribromophenol	0.000	330	0d	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
25) Terphenyl-d14	0.000	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
Target Compounds						Qvalue
4) Phenol	4.469	94	49322	4.94	ppm	80
19) Pentachlorophenol	8.975	266	11546	4.24	ppm	93
39) 4,6-dinitro-2-methylph...	8.297	198	10522	4.68	ppm	90

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94059.D
Acq On : 22 Jul 2020 12:36 pm
Operator : angelar
Sample : icv4347-5
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 22 12:52:53 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 12:21:59 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\data_aimeel\e4m4348\
Data File : 4m94063.d
Acq On : 22 Jul 2020 11:42 pm
Operator : chriss2
Sample : cc4347-0.5 Inst : GCMS4M
Misc : op25425a,e4m4348,1000,,,1,1
ALS Vial : 2 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Results File: M4M4347SIM.RES
Quant Time: Jul 24 03:14:14 2020
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Fri Jul 24 03:13:51 2020
Response via : Initial Calibration

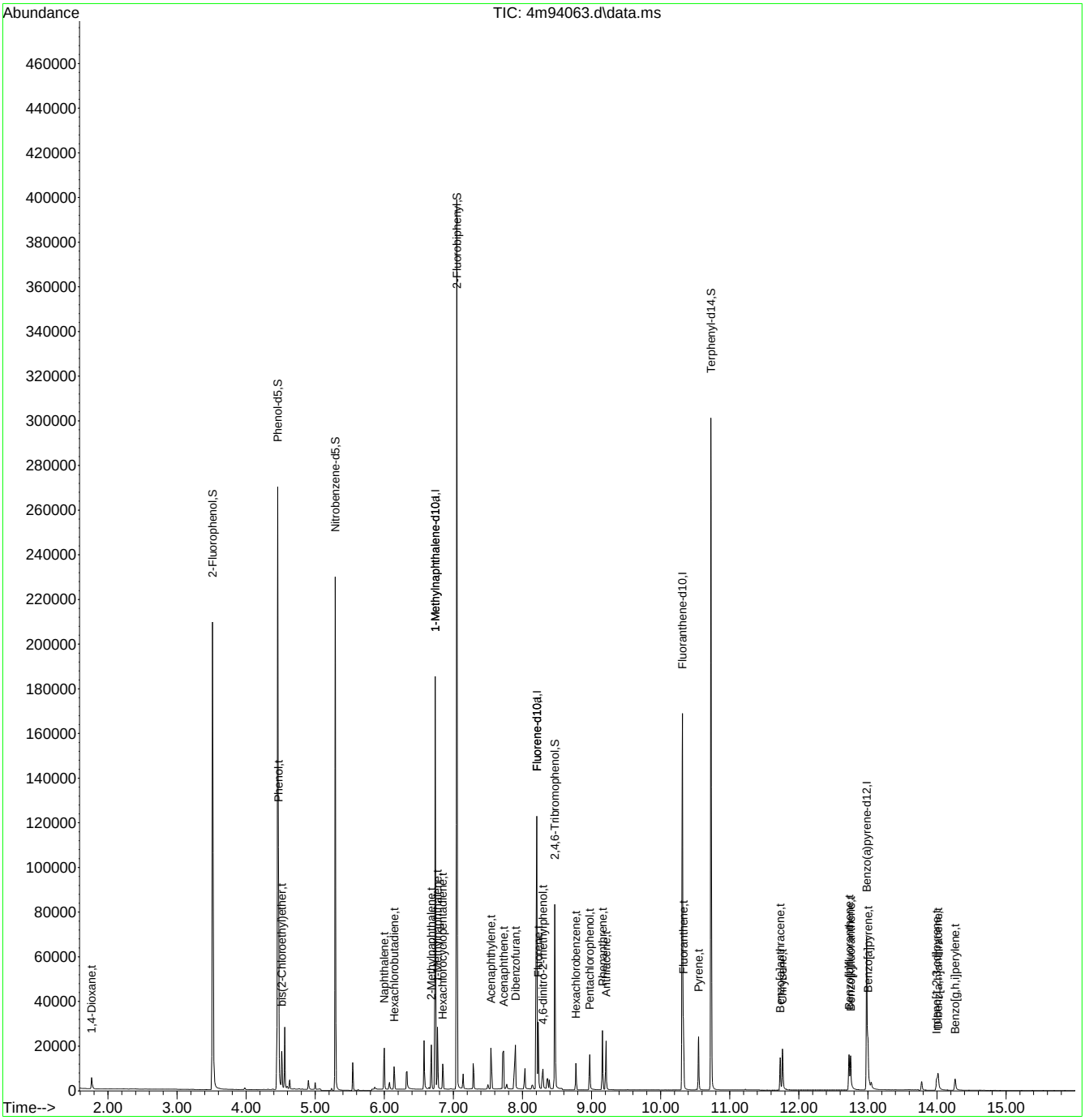
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	6.738	152	59247	4.00	ppm	0.00
12) Fluorene-d10	8.206	176	61766	4.00	ppm	0.00
22) Fluoranthene-d10	10.315	212	105458	4.00	ppm	0.00
28) Benzo(a)pyrene-d12	12.981	264	59655	4.00	ppm	0.00
35) 1-Methylnaphthalene-d10a	6.738	152	59247	4.00	ppm	0.00
38) Fluorene-d10a	8.206	176	61766	4.00	ppm	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	3.513	112	97254	10.35	ppm	0.00
Spiked Amount 50.000	Range 11 - 58		Recovery = 20.70%			
3) Phenol-d5	4.457	99	129660	10.80	ppm	0.00
Spiked Amount 50.000			Recovery = 21.60%			
6) Nitrobenzene-d5	5.290	82	125329	10.82	ppm	0.00
Spiked Amount 50.000			Recovery = 21.64%			
11) 2-Fluorobiphenyl	7.050	172	217252	10.47	ppm	0.00
Spiked Amount 50.000			Recovery = 20.94%			
17) 2,4,6-Tribromophenol	8.469	330	32585	11.00	ppm	0.00
Spiked Amount 50.000			Recovery = 22.00%			
25) Terphenyl-d14	10.728	244	187107	11.46	ppm	0.00
Spiked Amount 50.000			Recovery = 22.92%			
Target Compounds						Qvalue
4) Phenol	4.469	94	34991	2.73	ppm	100
5) bis(2-Chloroethyl)ether	4.518	93	5383	0.54	ppm	100
7) Naphthalene	6.001	128	15128	0.51	ppm	100
8) Hexachlorobutadiene	6.140	225	3467	0.50	ppm	100
9) 2-Methylnaphthalene	6.681	142	9366	0.52	ppm	100
10) Hexachlorocyclopentadiene	6.845	237	5848	1.00	ppm	100
13) Acenaphthylene	7.545	152	13526	0.49	ppm	100
14) Acenaphthene	7.727	153	8621	0.49	ppm	100
15) Dibenzofuran	7.898	168	13056	0.51	ppm	100
16) Fluorene	8.229	166	11114	0.51	ppm	100
18) Hexachlorobenzene	8.774	284	3767	0.49	ppm	100
19) Pentachlorophenol	8.975	266	6505	1.97	ppm	100
20) Phenanthrene	9.158	178	15204	0.52	ppm	100
21) Anthracene	9.210	178	13214	0.50	ppm	100
23) Fluoranthene	10.331	202	17363	0.51	ppm	100
24) Pyrene	10.550	202	15132	0.50	ppm	100
26) Benzo[a]anthracene	11.730	228	9032	0.43	ppm	100
27) Chrysene	11.765	228	12930	0.51	ppm	100
29) Benzo[b]fluoranthene	12.727	252	9598	0.49	ppm	100
30) Benzo[k]fluoranthene	12.750	252	12326	0.56	ppm	100
31) Benzo[a]pyrene	13.000	252	12000	0.53	ppm	100
32) Indeno[1,2,3-cd]pyrene	13.996	276	9174	0.48	ppm	100
33) Dibenz[a,h]anthracene	14.016	278	7145	0.45	ppm	100
34) Benzo[g,h,i]perylene	14.265	276	7926	0.49	ppm	100
36) 1,4-Dioxane	1.764	88	3225	0.59	ppm	100
37) 1-Methylnaphthalene	6.771	142	10280	0.51	ppm	100
39) 4,6-dinitro-2-methylph...	8.297	198	5309	2.11	ppm	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\data_aimeel\e4m4348\
Data File : 4m94063.d
Acq On : 22 Jul 2020 11:42 pm
Operator : chriss2
Sample : cc4347-0.5 Inst : GCMS4M
Misc : op25425a,e4m4348,1000,,,1,1
ALS Vial : 2 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Results File: M4M4347SIM.RES
Quant Time: Jul 24 03:14:14 2020
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Fri Jul 24 03:13:51 2020
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
07/24/20 12:40

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\data_aimeel\e4m4348\
Data File : 4m94089.d
Acq On : 23 Jul 2020 9:17 am
Operator : chriss2
Sample : ecc4347-0.5 Inst : GCMS4M
Misc : op28540a,e4m4348,1000,,,1,1
ALS Vial : 2 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Results File: M4M4347SIM.RES
Quant Time: Jul 24 04:39:23 2020
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Fri Jul 24 04:37:48 2020
Response via : Initial Calibration

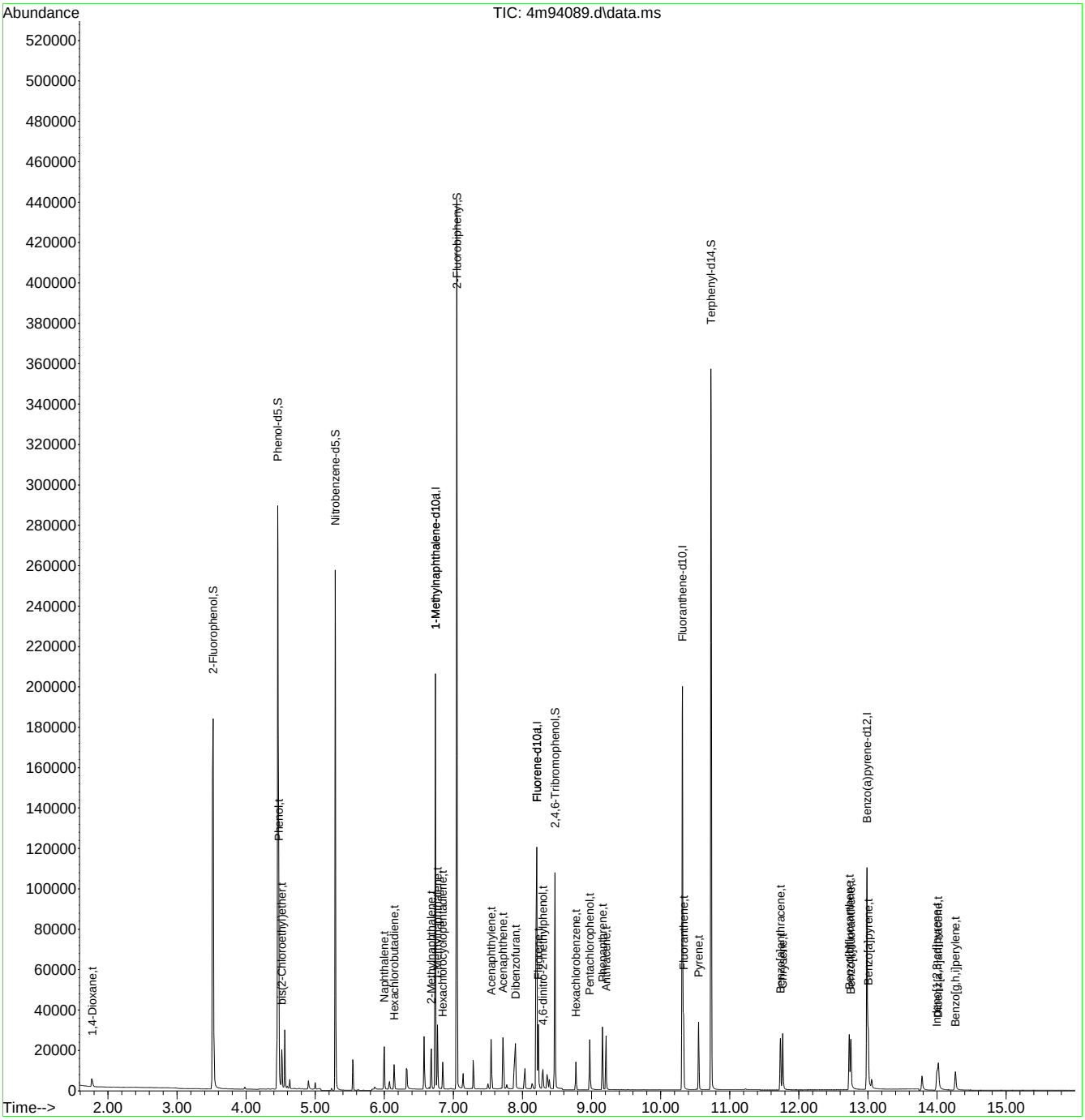
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	6.739	152	67126	4.00	ppm	0.00
12) Fluorene-d10	8.206	176	68986	4.00	ppm	0.00
22) Fluoranthene-d10	10.315	212	128298	4.00	ppm	0.00
28) Benzo(a)pyrene-d12	12.987	264	85878	4.00	ppm	0.00
35) 1-Methylnaphthalene-d10a	6.739	152	67126	4.00	ppm	0.00
38) Fluorene-d10a	8.206	176	68986	4.00	ppm	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	3.523	112	109462	10.28	ppm	0.00
Spiked Amount 50.000	Range 11 - 58		Recovery = 20.56%			
3) Phenol-d5	4.457	99	146429	10.77	ppm	0.00
Spiked Amount 50.000			Recovery = 21.54%			
6) Nitrobenzene-d5	5.290	82	139256	10.61	ppm	0.00
Spiked Amount 50.000			Recovery = 21.22%			
11) 2-Fluorobiphenyl	7.050	172	246334	10.48	ppm	0.00
Spiked Amount 50.000			Recovery = 20.96%			
17) 2,4,6-Tribromophenol	8.469	330	40615	12.27	ppm	0.00
Spiked Amount 50.000			Recovery = 24.54%			
25) Terphenyl-d14	10.728	244	228367	11.50	ppm	0.00
Spiked Amount 50.000			Recovery = 23.00%			
Target Compounds						Qvalue
4) Phenol	4.472	94	39290	2.71	ppm	100
5) bis(2-Chloroethyl)ether	4.518	93	6003	0.54	ppm	100
7) Naphthalene	6.001	128	17287	0.51	ppm	100
8) Hexachlorobutadiene	6.140	225	3896	0.49	ppm	100
9) 2-Methylnaphthalene	6.681	142	10289	0.50	ppm	100
10) Hexachlorocyclopentadiene	6.845	237	6103	0.92	ppm	100
13) Acenaphthylene	7.545	152	16688	0.54	ppm	100
14) Acenaphthene	7.716	153	10314	0.53	ppm	100
15) Dibenzofuran	7.898	168	15386	0.53	ppm	100
16) Fluorene	8.229	166	12390	0.51	ppm	100
18) Hexachlorobenzene	8.774	284	4432	0.52	ppm	100
19) Pentachlorophenol	8.975	266	10231	2.71	ppm	100
20) Phenanthrene	9.158	178	17809	0.54	ppm	100
21) Anthracene	9.210	178	16935	0.57	ppm	100
23) Fluoranthene	10.331	202	20843	0.51	ppm	100
24) Pyrene	10.550	202	20157	0.54	ppm	100
26) Benzo[a]anthracene	11.733	228	15563	0.61	ppm	100
27) Chrysene	11.768	228	17458	0.57	ppm	100
29) Benzo[b]fluoranthene	12.730	252	15881	0.57	ppm	100
30) Benzo[k]fluoranthene	12.753	252	17659	0.56	ppm	100
31) Benzo[a]pyrene	13.006	252	16745	0.52	ppm	100
32) Indeno[1,2,3-cd]pyrene	13.998	276	15398	0.56	ppm	100
33) Dibenz[a,h]anthracene	14.018	278	12610	0.55	ppm	100
34) Benzo[g,h,i]perylene	14.267	276	13194	0.56	ppm	100
36) 1,4-Dioxane	1.774	88	3013m	0.49	ppm	
37) 1-Methylnaphthalene	6.771	142	11600	0.51	ppm	100
39) 4,6-dinitro-2-methylph...	8.298	198	5669	2.03	ppm	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\data_aimeel\e4m4348\
Data File : 4m94089.d
Acq On : 23 Jul 2020 9:17 am
Operator : chriss2
Sample : ecc4347-0.5 Inst : GCMS4M
Misc : op28540a,e4m4348,1000,,,1,1
ALS Vial : 2 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Results File: M4M4347SIM.RES
Quant Time: Jul 24 04:39:23 2020
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Fri Jul 24 04:37:48 2020
Response via : Initial Calibration



Manual Integration Approval Summary

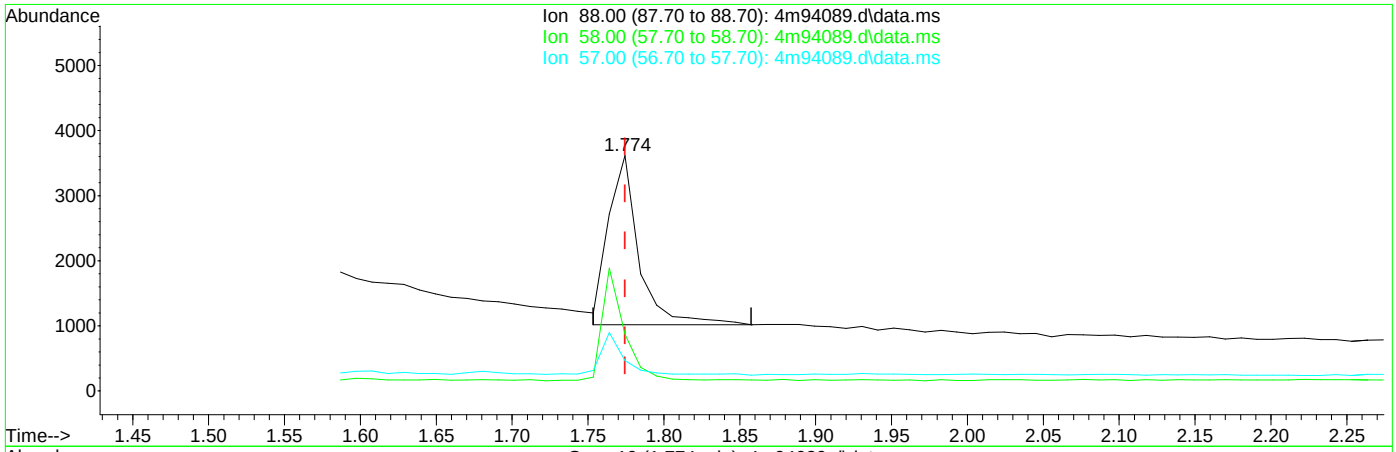
Sample Number: E4M4348-ECC4347
Lab FileID: 4M94089.D
Injection Time: 07/23/20 09:17
Method: SW846 8270D BY SIM
Analyst approved: 07/24/20 04:41 Aimee Laurente
Supervisor approved: 07/24/20 12:40 Nina Pandya

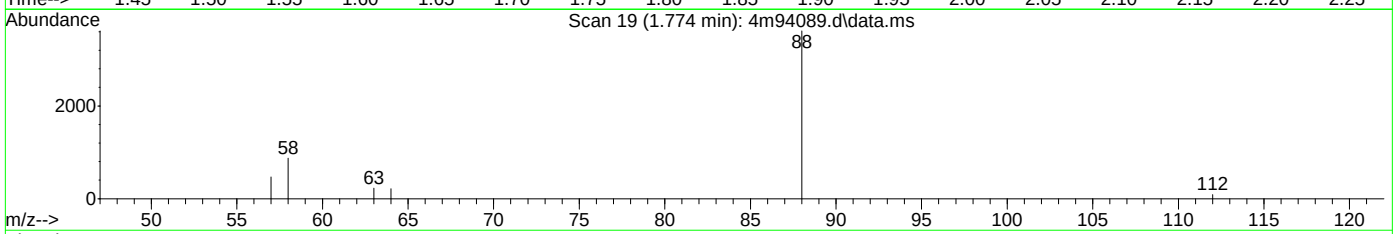
Parameter	CAS	Sig#	R.T. (min.)	Reason
1,4-Dioxane	123-91-1		1.77	Poor instrument integration

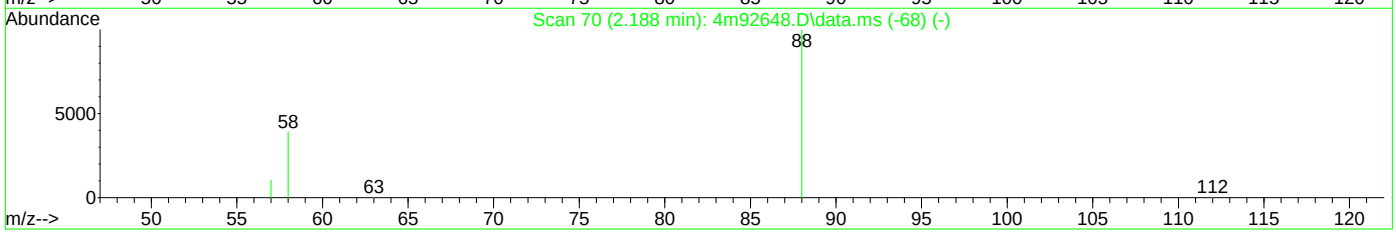
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\data_aimeel\e4m4348\
Data File : 4m94089.d
Acq On : 23 Jul 2020 9:17 am
Operator : chriss2
Sample : ecc4347-0.5 Inst : GCMS4M
Misc : op28540a,e4m4348,1000,,,1,1
ALS Vial : 2 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Results File: M4M4347SIM.RES
Quant Time: Jul 24 04:37:59 2020
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Fri Jul 24 04:37:48 2020
Response via : Initial Calibration







TIC: 4m94089.d\data.ms

(36) 1,4-Dioxane (t)

1.774min (0.000) 0.59ppm

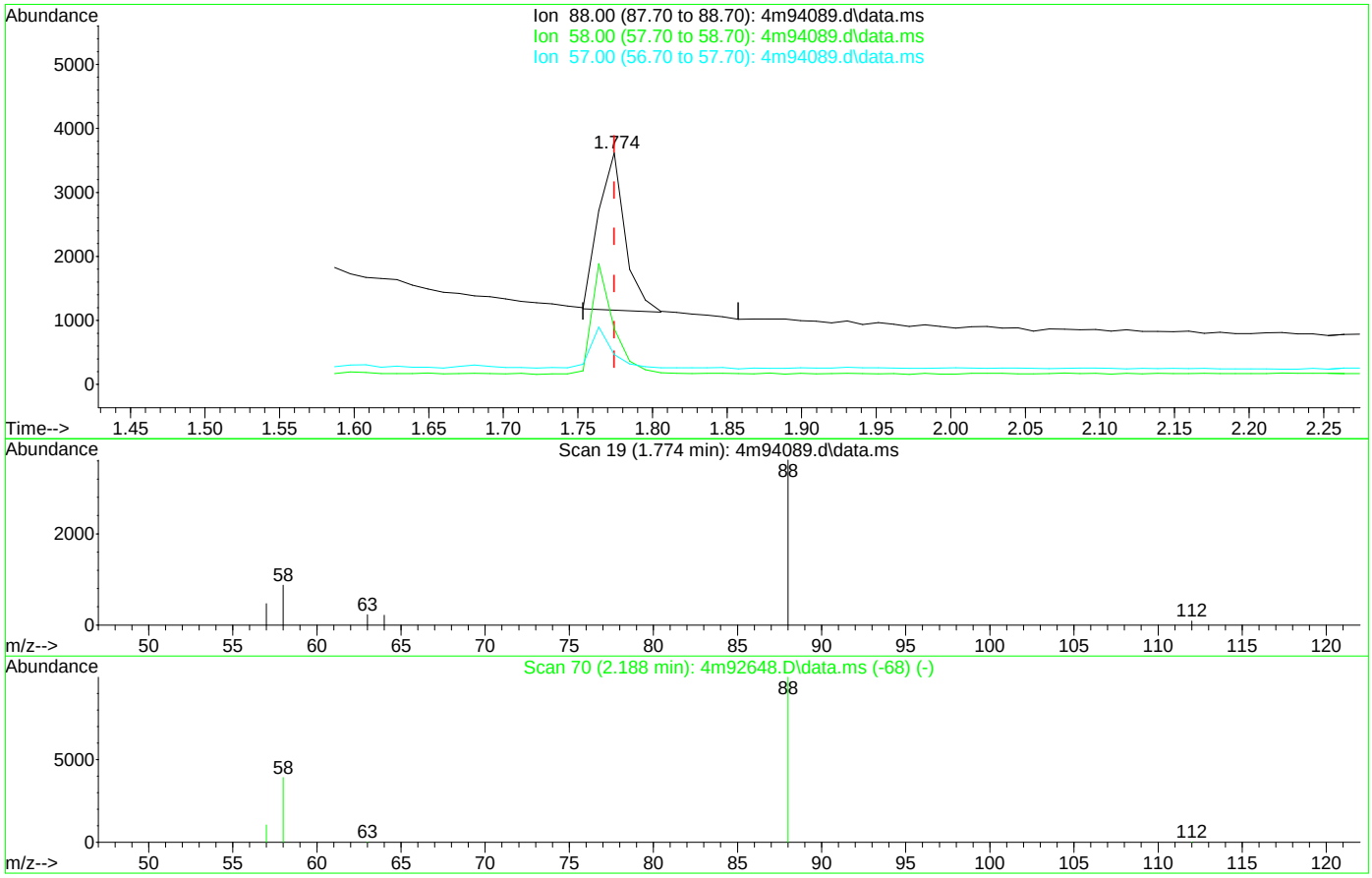
response 3628

Ion	Exp%	Act%
88.00	100	100
58.00	27.10	27.08
57.00	7.40	7.37
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\data_aimeel\e4m4348\
Data File : 4m94089.d
Acq On : 23 Jul 2020 9:17 am
Operator : chriss2
Sample : ecc4347-0.5 Inst : GCMS4M
Misc : op28540a,e4m4348,1000,,,1,1
ALS Vial : 2 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Results File: M4M4347SIM.RES
Quant Time: Jul 24 04:37:59 2020
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Fri Jul 24 04:37:48 2020
Response via : Initial Calibration



TIC: 4m94089.d\data.ms

(36) 1,4-Dioxane (t)

1.774min (0.000) 0.49ppm m

response 3013

Ion	Exp%	Act%
88.00	100	100
58.00	27.10	24.07
57.00	7.40	12.88
0.00	0.00	0.00

GCMS Semi Volatile Run Log SGS - Dayton Instrument ID: GCMS4M

Standard / Reagent	Lot #	Concentration	Standard / Reagent	Lot #	Concentration
DFTPP	sv202720-15	50ppm	SIM ISTD	sv202720-31	400ppm
SIM	sv202720-7P	0.5ppm	dcm\fisher	201485	---
SIM	sv202720-7A	5ppm	SIM	sv202720-7H	0.02ppm
SIM	sv202720-7B	2.5ppm	SIM	sv202720-7I	0.01ppm
SIM	sv202720-7C	1ppm	BSIM	op192515-107	1ppm
SIM	sv202720-7E	0.2ppm	ACID	sv202720-30D	5ppm
SIM	sv202720-7F	0.1ppm			
SIM	sv202720-7G	0.05ppm			

Run Batch:	E4M4347	**ACQ. Method:**	M4M4347SIM	**Sequence Loaded By:**	angelar
Date:	7/22/2020	**Reference Method:**	8270d/625	**Data Processed By:**	kristis
Column:	rxi-5sil ms 30m x 0.25mm x 0.25um	**Quant Methods:**	M4M4347SIM	**Approved By:**	ninap
Injection Volume:	1.0ul	**Initial Calib Date:**	7/22/2020	**Approved Date**	07/23/20

MP Missed Peak, **OP** Overlapping Peak **SP** Split Peak, **PDB** Poorly Defined Baselin **BR** Baseline Ripple **PII** Poor Instrument Integration

Data File		ALS	Sample ID	OP Batch ID	Test / Method	MTX	DF	Manually Integrated Peaks Rational Peak #	L+	Surr OK?	IS OK?	Run OK?	Comment
4M	94048	1	DFTPP									ok	8:29am
4M	94049	2	IC4347-0.5									ok	
4M	94050	3	IC4347-5									ok	
4M	94051	4	IC4347-2.5									ok	
4M	94052	5	IC4347-1					pii				ok	
4M	94053	6	IC4347-0.2					pii				ok	
4M	94054	7	IC4347-0.1					pii				ok	
4M	94055	8	IC4347-0.05					pii				ok	

GCMS Semi Volatile Run Log

Data File		ALS	Sample ID	OP Batch ID	Test / Method	MTX	DF	Manually Integrated Peaks Rational Peak #	L+	Surr OK?	IS OK?	Run OK?	Comment
4M	94056	9	IC4347-0.02					pii				ok	
4M	94057	10	IC4347-0.01									ok	
4M	94058	11	ICV4347-1		bsim							ok	
4M	94059	12	ICV4347-5		acid							ok	12:36pm

GCMS Semi Volatile Run Log SGS - Dayton Instrument ID: GCMS4M

Standard / Reagent	Lot #	Concentration	Standard / Reagent	Lot #	Concentration
DFTPP	sv202720-15	50ppm	SIM ISTD	sv202720-31	400ppm
SIM	sv202720-7o	0.5ppm	dcm\fisher	201485	---
SIM	sv202720-7g	0.05ppm			

Run Batch:	E4M4348	**ACQ. Method:**	M4M4347SIM	**Sequence Loaded By:**	chriss2
Date:	7/22/2020	**Reference Method:**	8270D/625	**Data Processed By:**	aimeel
Column:	rxi-5sil ms 30m x 0.25mm x 0.25um	**Quant Methods:**	M4M4347SIM	**Approved By:**	ninap
Injection Volume:	1.0ul	**Initial Calib Date:**	7/22/2020	**Approved Date**	07/24/20

MP Missed Peak, **OP** Overlapping Peak **SP** Split Peak, **PDB** Poorly Defined Baselin **BR** Baseline Ripple **PII** Poor Instrument Integration

Data File		ALS	Sample ID	OP Batch ID	Test / Method	MTX	DF	Manually Integrated Peaks Rational Peak #	L+	Surr OK?	IS OK?	Run OK?	Comment
4M	94060	1	DFTPP									N	443 low, rerun
4M	94061	1	DFTPP									N	ions out, up flow
4M	94062	1	DFTPP									ok	11:29pm
4M	94063	2	CC4347-0.5					pii				ok	
4M	94064	3	SIM VERIF									ok	0.05ppm
4M	94065	4	OP28540A-MB1	OP28540A	AB8270SIMNJ	AQ		pii		y	y	ok	
4M	94066	5	OP28540A-BS12	OP28540A	AB8270SIMNJ	AQ				y	y	ok	
4M	94067	6	JD10183-3	OP28540A	AB8270SIMNJ	AQ				y	y	ok	

GCMS Semi Volatile Run Log

Data File		ALS	Sample ID	OP Batch ID	Test / Method	MTX	DF	Manually Integrated Peaks Rational Peak #	L+	Surr OK?	IS OK?	Run OK?	Comment
4M	94068	7	JD10206-1	OP28540A	AB8270SIMNJ	AQ				y	y	ok	
4M	94069	8	JD10206-2	OP28540A	AB8270SIMNJ	AQ				y	y	ok	
4M	94070	9	JD10209-3	OP28540A	AB8270SIMNJ	AQ				y	y	ok	
4M	94071	10	JD10210-1	OP28540A	AB8270SIMNJ	AQ		pii		y	y	ok ok	
4M	94072	11	JD10210-2	OP28540A	AB8270SIMNJ	AQ		pii		y	y	ok	
4M	94073	12	JD10211-1	OP28540A	AB8270SIMNJ	AQ				y	y	ok	
4M	94074	13	JD10218-1	OP28540A	AB8270SIMNJ	AQ				y	y	ok	
4M	94075	14	JD10218-2	OP28540A	AB8270SIMNJ	AQ				y	y	ok	
4M	94076	15	JD10211-2	OP28540A	AB8270SIMNJ	AQ		pii		y	y	ok	
4M	94077	16	JD10207-1	OP28540A	AB8270SIMNJ	AQ				y	y	ok	
4M	94078	17	OP28540A-MSA	OP28540A	AB8270SIMNJ	AQ				y	y	ok	
4M	94079	18	OP28540A-MSDA	OP28540A	AB8270SIMNJ	AQ				y	y	ok	
4M	94080	19	JD10038-4	OP28540A	B8270SIMSL2	AQ				y	y	N	needs dilution:report from fullscan
4M	94081	20	JD10038-5	OP28540A	B8270SIMSL2	AQ				y	y	ok	
4M	94082	21	JD10038-6	OP28540A	B8270SIMSL2	AQ				y	y	ok	
4M	94083	22	JD10244-2	OP28540A	B8270SIM14DIOX	AQ				y	y	ok	
4M	94084	23	JD10244-3	OP28540A	B8270SIM14DIOX	AQ				y	y	ok	
4M	94085	24	JD10244-4	OP28540A	B8270SIM14DIOX	AQ		pii		y	y	ok ok	
4M	94086	25	JD10244-5	OP28540A	B8270SIM14DIOX	AQ				y	y	ok	

GCMS Semi Volatile Run Log

Data File		ALS	Sample ID	OP Batch ID	Test / Method	MTX	DF	Manually Integrated Peaks Rational Peak #	L+	Surr OK?	IS OK?	Run OK?	Comment
4M	94087	26	JD10244-1	OP28540A	B8270SIM14DIOX	AQ		pii		y	y	ok	
4M	94088	27	JD10032-2	OP28493A	AB8270SIMNJ	AQ	2			y	y	ok	
4M	94089	2	ECC4347-0.5					pii				ok	9:17am

ABN Aqueous Extraction Logbook

LOGBOOK ID:

Date Started: 7/22/20 Time Started: 8:00AM.
Date Finished: 7/22/20 Time Finished: 17:30

Extract Method (CHECK OFF "√" /DO NOT CIRCLE):
Separatory Funnel: SW846 3510C/CLP/other √ 3510C SIM
Continuous Liquid Liquid: SW846 3520C/CLP/other

BATCH # MS OP28540	RACK# green
Set-up by:	VP, NB
Extracted by:	VP, NB
Concentrated by:	VP, NB
Final Vol. Top-up:	VP, NB
Vialed by:	VP, NB
Supervisor Review:	NB 7/22/20

Equipment/ Range	ID	Observed Temp (°C)	Correction Factor (°C)	Corrected Temp (°C)	Pressure/ Flowrate
Buchi (65-71°C)					
Buchi Chiller					
Waterbath (70-80°C)	5	74	+0	74	OK
Waterbath Chiller (GPM)	F4	10.1	–	10.1	2
NEVAP (32-39°C, LPM)	4	35.3	–	35.3	10

SURROGATE	LOT #	CONC (ppm)	AMT (mL)
ABN	20267-10	50	1.0
ABN DOD SIM			

WITNESS SIGN: NB SPIKE SIGN: VP

MATRIX SPIKE	LOT #	CONC (ppm)	AMT (mL)
Acid	192515128	50	Acid: 0.1
Acid (for SIM)			A(SIM):
Base #1 MIX 1	202567-12	50	1.0
Base #2 MIX 2	202567-1	50	1.0
Anilines			
BSIM	202567-35	1111/2PPM	1.0

WITNESS SIGN: NB SPIKE SIGN: VP

SOLVENT	LOT #	BRAND	AMT (mL)
METH CHLOR	201686	Fisher	60X6

REAGENT	LOT #	BATCH #	BRAND
NaOH	196998		Fisher
H2SO4	2000998		Ricca
Sodium Sulfate	195510	7/2/20	Fisher Lab
Glass Wool	054408		
Filter Paper			
pH strips	217518		Hydrion

Special Client Spike Instructions					
QC ID# for Special Spike	Amt to Spike	Spike ID	Lot #	Conc.	Amt. Spiked

WITNESS SIGN. SPIKE SIGN.
Manager/Supervisor/Team Lead Approval:

Sample #	Analysis Type	Sample Bottle #	Sample Description	Sample Volume (mL)	Final pH Acid Extract	Final pH BN/ABN Extract	Final Extract Color	Final Extract Vol(mL)	Misc. GPC Cleanup	Misc. Comments
MBI	ABN		DIH2O	1000	<2	>11	Clear	1.0		
BS1			DIH2O	1000	<2	>11	Yellow	1.0		
JD10207-1 MS		5	Clear	1000	<2	>11	Yellow	1.0		
MSD		4	Clear	1000	<2	>11	lt. Yellow	1.0		
BS2	SIM		DIH2O	1000	<2	>11	lt. Yellow	1.0		
JD10207-1 MS A		3	Clear	1000	<2	>11	lt. Yellow	1.0		
MSD A		1	Clear	1000	<2	>11	lt. Yellow	1.0		
BS										
MS										
MSD										
1 JD10183-3	ABN	2	Clear	1000	<2	>11	Clear	1.0		
2 JD10244-1		4	Yellow	1000	<2	>11	lt. Yellow	1.0		
3 -2		1	Clear	1000	<2	>11	Clear	1.0		
4 -3		2	Clear	1000	<2	>11	Clear	1.0		
-4		2	Clear	1000	<2	>11	Clear	1.0		
5 -5		2	Clear	900	<2	>11	Cleal	1.0		
6		3	Yellow	1000	<2	>11	lt. Yellow	1.0		
7 JD10204-9		2	Clear	1000	<2	>11	Clear	1.0		
8 JD10206-1		2	Clear	1000	<2	>11	Clear	1.0		
9 -2		2	Clear	1000	<2	>11	Clear	1.0		
10 JD10207-1		1	Yellow	1000	<2	>11	lt. Yellow	1.0		
11 JD10209-3		2	Clear	980	<2	>11	Clear	1.0		
12 JD10210-1		1	Clear	1000	<2	>11	Clear	1.0		
13 -2		1	Clear	980	<2	>11	Clear	1.0		
14 JD10211-1		2	Yellow	995	<2	>11	lt. Yellow	1.0		
15 -2		2	Clear	1000	<2	>11	Clear	1.0		
16 JD10218-1		1	Clear	1000	<2	>11	Clear	1.0		
17 -2		2	lt. yellow	990	<2	>11	lt. yellow	1.0		
18 JD10038-4 (Rx)		2	Clear	1000	<2	>11	Clear	1.0		
19 -5		2	Clear	995	<2	>11	Clear	1.0		
20 -6										

Comments: QC Samples (MS, MSD, LINK and/or DUP, Link) Confirmed by:

SPECIAL PROCESSING INSTRUCTIONS

Rx Reason:

Spiking:

Weights/Volumes:

Required MS/MSD:
JD10207-1 (Fullscan +SIM)

Final Volume:

Other:
PVHT 7/17
HT 7/22 0405
DUE 7/30 7/28

SGS
Form: OP022A-13
Rev Date: 8/23/19

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Appendix D
Data Usability Summary Report &
EDD Transmittal Email

Data Usability Summary Report

Data Usability Summary Report
Groundwater and Surface Water Sampling Event
July 2020

Carrier Corporation Carlyle Compressor
East Syracuse, New York

1.0 INTRODUCTION

This data usability summary report presents the results for groundwater and surface water samples collected at the Carrier Carlyle Compressor site in East Syracuse, New York.

Data were evaluated independently from the laboratory to assess data quality. Samples discussed in this report were collected on July 14 and 15, 2020. SGS North America Inc. in Dayton, New Jersey (New York State Department of Health Environmental Laboratory Approval Program [ELAP] certificate # 10983) analyzed the samples. An EnSafe Inc. chemist, reviewed the data package discussed in this report.

The quality assurance criteria used to assess all data were established by the analytical methods and relevant standards in the following guidance documents:

- *National Functional Guidelines for Organic Superfund Methods Data Review.* (United States Environmental Protection [U.S. EPA], January 2017).

Samples were analyzed using the following analytical methods:

- Volatile organic compounds (VOCs) by gas chromatography/mass spectrometry via U.S. EPA SW-846 Method 8260C.
- 1,4-Dioxane by gas chromatography/mass spectrometry via U.S. EPA SW-846 Method 8270D using select ion monitoring.

The samples collected and sample identification cross-references are summarized in Attachment A.

Data Evaluation Criteria

Laboratory QC:	The laboratory's statistically derived recovery QC limits for accuracy and precision were used.
Field Duplicate Precision:	Relative percent difference (RPD) of 30 for water

2.0 DATA REVIEW

U.S. EPA Stage 2B electronic and manual data validation, consisting of analytical results review and quality control (QC) summaries, was performed on samples from sample delivery groups (SDGs) JD10241 and JD10244. When the QC parameters did not fall within the specific method or data review guidelines, the data reviewer annotated or "flagged" the corresponding compounds. This data review encompassed the following parameters:

* Data completeness
* Sample receipt and preservation
* Holding times
* Organic surrogates
* Initial calibration
* Initial calibration Verification
  Continuing calibration verification
* Laboratory control samples
* Matrix spike/matrix spike duplicates
* Field blank contamination (equipment, field, and trip)
* Laboratory blank contamination (method)
* Field duplicate precision
  Dilutions and elevated reporting limits

Acceptable data parameters for which all criteria were met, or no qualification was performed, as indicated above with an asterisk (*), are not discussed further.

The following flags were used by the laboratory to annotate results:

Laboratory Qualifiers

J **=** Estimated - Result is less than the reporting limit (RL) but greater than or equal to the method detection limit (MDL) and the concentration is an approximate value.

U **=** Undetected - The analyte was undetected above the RL.

When the QC parameters did not fall within the specific method or data review guidelines, the data reviewer annotated or "flagged" the corresponding compounds. Flags that may be used during data review are as follows:

Data Review Qualifiers

U	=	**Undetected** — The analyte was undetected above the MDL or was qualified as undetected during blank examination; the associated value presented is the MDL.
J	=	**Estimated Value** — One or more QC parameters were outside control limits, or the concentration of the analyte was above the MDL, but less than the RL.
UJ	=	**Undetected and Estimated** — The parameter was analyzed but undetected and was estimated because at least one QC parameter was outside control limits.
J+	=	**Estimated and Biased High** — Bias in sample result is likely to be high due to quality control outlier.
J-	=	**Estimated and Biased Low** — Bias in sample result is likely to be low due to quality control outlier.
R	=	**Rejected** — The positive result is unusable. The same results are rejected due to serious deficiencies in meeting quality control criteria.
UR	=	**Rejected** — The undetected result is unusable. The same results are rejected due to serious deficiencies in meeting quality control criteria.

3.0 DATA EVALUATION

3.1 Continuing Calibration Verification

Continuing calibration verification (CCV) standards are used to verify that the instrument response is reliable and has not changed significantly from the initial calibration curve. If the percent difference (%D) is close to the known concentrations, the reported analyte concentrations are assumed to be accurate. Bromomethane and 1,2-dibromomethane had CCV %Ds outside the

acceptable limit of +/-20% when the response was compared to the initial calibration. As shown on Table 1, analytes having %Ds above the applicable acceptance limit were qualified as estimated in associated samples during data review.

Table 1
Continuing Calibration Verification Outliers

SDG	Calibration ID	Analyte	%D	Associated Samples	Flags
JD10241	V4D4597-CC4496	1,2-Dibromoethane	-28.9	CC1MW106G0720, CC1MWSB2G0720, CC1SDSW0720, CC1STSW0720	UJ
JD10241	V4D4597-CC4496	Bromomethane	37.4	CC1MW106G0720, CC1MWSB2G0720, CC1SDSW0720, CC1STSW0720	UJ

Notes:
SDG = Sample delivery group
ID = Identification
%D = Percent difference
UJ = Undetected result was qualified estimated

3.2 Dilutions and Elevated Reporting Limits

The following samples were diluted for one or more reasons and detection limits may be raised due to elevated analyte concentrations:

- CC1MW13DG0720 was diluted by a factor of 10 due to an elevated analyte concentration for cis-1,2-dichloroethene. The initial run was a diluted run; therefore, the reporting limits were elevated for all VOCs.
- CCMWSB2G0720 was diluted by a factor of 10 for vinyl chloride due to an elevated concentration. Undetected VOCs were reported from the undiluted run; therefore, the reporting limits were not elevated.
- CC1STSW0720 was diluted by a factor of 20 for cis-1,2-dichloroethene due to an elevated concentration. Undetected VOCs were reported from the undiluted run; therefore, the reporting limits were not elevated.

4.0 OVERALL ASSESSMENT

Data from the groundwater and surface water sampling activities at the Carrier Carlyle Compressor site in Syracuse, New York, were reviewed independently from the laboratory to assess data quality.

When the parameters did not fall within the specific method or data review guidelines, the data evaluator annotated or "flagged" the corresponding compounds. A total of 645 measurements

were reported for interpretation. No results were rejected during data review. Therefore, analytical completeness was calculated to be 100%. All analytes detected at concentrations less than the limit of quantitation but greater than method detection limits were qualified by the laboratory as estimated "J." This "J" qualifier was retained during data validation. Results qualified as estimated may be biased high or low, but the data are usable for their intended purpose, according to according to U.S. EPA guidelines.

Table 2 shows final data review qualifiers used to describe results and how they should be interpreted by the end data user. Attachment A provides a summary of all samples collected. Attachment B presents final results after data review and Attachment C contains the laboratory data deliverables packages for samples discussed in this report.

Table 2
Result Flagging Codes

Data Qualifier	Qualifier Definition	Interpret Result As a Detection?	Result Usable?	Potential Result Bias
no qualifier	Acceptable	Yes	Yes	None expected
U	Undetected	No	Yes	None expected
UJ	Undetected and Estimated	No	Yes	Low
J	Estimated	Yes	Yes	High or Low
J+	Estimated	Yes	Yes	High
J-	Estimated	Yes	Yes	Low

Attachment A
Sample and Analysis Summary

Table A-1
Sample Identifications and Analytical Parameters

Sample Delivery Group	Sample Identification	Sample Date	Sample Type	SW8260C	SW8270D_SIM
JD10241	CC1MW01G0720	7/15/2020	Groundwater	X	
JD10241	CC1TB01T0720	7/15/2020	Trip Blank	X	
JD10241	CC1FB01F0720	7/15/2020	Field Blank	X	
JD10241	CC1MW106G0720	7/15/2020	Groundwater	X	
JD10241	CC1MW107G0720	7/15/2020	Groundwater	X	
JD10241	CC1MW107H0720	7/15/2020	Duplicate of CC1MW107G0720	X	
JD10241	CC1MW13DG0720	7/15/2020	Groundwater	X	
JD10241	CC1MWSB2G0720	7/15/2020	Surface water	X	
JD10241	CC1STSW0720	7/14/2020	Surface water	X	
JD10241	CC1SDSW0720	7/14/2020	Surface water	X	
JD10241	CC1MW01G0720	7/15/2020	Groundwater		X
JD10241	CC1MW106G0720	7/15/2020	Groundwater		X
JD10244	CC1MW106H0720	7/15/2020	Duplicate of CC1MW106G0720		X
JD10244	CC1EB01E0720	7/15/2020	Equipment Blank		X
JD10244	CC1FB02F0720	7/15/2020	Field Blank		X

Notes:
SW8260C = Volatile organic compounds via SW-846 Method 8260C
SW8270D_SIM = 1,4-Dioxane via SW-846 Method 8270D in selective ion monitoring mode
X = The sample was analyzed for the parameter listed in the column header.

Attachment B
Final Results after Data Review

Table B-1
Groundwater Samples Final Results after Data Review

		Sample Identification		CC1MW01G0720			CC1MW106G0720			CC1MW107G0720			CC1MW107H0720		
		Lab Identification		JD10241-1			JD10241-2			JD10241-3			JD10241-4		
		Sample Date		7/15/2020			7/15/2020			7/15/2020			7/15/2020		
		Sample Type		Groundwater			Groundwater			Groundwater			Duplicate		
Method	**Analyte**	**CAS No**	**Units**	**Result**	**Qual**	**RC**	**Result**	**Qual**	**RC**	**Result**	**Qual**	**RC**	**Result**	**Qual**	**RC**
SW8260C	1,1,1,2-Tetrachloroethane	630-20-6	µg/L	1	U		1	U		1	U		1	U	
SW8260C	1,1,1-Trichloroethane	71-55-6	µg/L	1	U		2.6			1	U		1	U	
SW8260C	1,1,2,2-Tetrachloroethane	79-34-5	µg/L	1	U		1	U		1	U		1	U	
SW8260C	1,1,2-Trichloroethane	79-00-5	µg/L	1	U		1	U		1	U		1	U	
SW8260C	1,1-Dichloroethane	75-34-3	µg/L	1	U		11.4			12			12.6		
SW8260C	1,1-Dichloroethene	75-35-4	µg/L	1	U		0.74	J		1	U		1	U	
SW8260C	1,1-Dichloropropene	563-58-6	µg/L	1	U		1	U		1	U		1	U	
SW8260C	1,2,3-Trichlorobenzene	87-61-6	µg/L	1	U		1	U		1	U		1	U	
SW8260C	1,2,3-Trichloropropane	96-18-4	µg/L	2	U		2	U		2	U		2	U	
SW8260C	1,2,4-Trichlorobenzene	120-82-1	µg/L	1	U		1	U		1	U		1	U	
SW8260C	1,2,4-Trimethylbenzene	95-63-6	µg/L	2	U		2	U		2	U		2	U	
SW8260C	1,2-Dibromo-3-Chloropropane	96-12-8	µg/L	2	U		2	U		2	U		2	U	
SW8260C	1,2-Dibromoethane (EDB)	106-93-4	µg/L	1	U		1	UJ	c	1	U		1	U	
SW8260C	1,2-Dichlorobenzene	95-50-1	µg/L	1	U		1	U		1	U		1	U	
SW8260C	1,2-Dichloroethane	107-06-2	µg/L	1	U		1	U		1	U		1	U	
SW8260C	1,2-Dichloropropane	78-87-5	µg/L	1	U		1	U		1	U		1	U	
SW8260C	1,3,5-Trimethylbenzene	108-67-8	µg/L	2	U		2	U		2	U		2	U	
SW8260C	1,3-Dichlorobenzene	541-73-1	µg/L	1	U		1	U		1	U		1	U	
SW8260C	1,3-Dichloropropane	142-28-9	µg/L	1	U		1	U		1	U		1	U	
SW8260C	1,4-Dichlorobenzene	106-46-7	µg/L	1	U		1	U		1	U		1	U	
SW8260C	2,2-Dichloropropane	594-20-7	µg/L	1	U		1	U		1	U		1	U	
SW8260C	2-Butanone (MEK)	78-93-3	µg/L	10	U		10	U		10	U		10	U	
SW8260C	2-Chlorotoluene	95-49-8	µg/L	2	U		2	U		2	U		2	U	
SW8260C	4-Chlorotoluene	106-43-4	µg/L	2	U		2	U		2	U		2	U	
SW8260C	4-Methyl-2-Pentanone (MIBK)	108-10-1	µg/L	5	U		5	U		5	U		5	U	
SW8260C	Acetone	67-64-1	µg/L	10	U		10	U		10	U		10	U	
SW8260C	Benzene	71-43-2	µg/L	0.5	U		0.5	U		0.5	U		0.5	U	
SW8260C	Bromobenzene	108-86-1	µg/L	1	U		1	U		1	U		1	U	
SW8260C	Bromochloromethane	74-97-5	µg/L	1	U		1	U		1	U		1	U	
SW8260C	Bromodichloromethane	75-27-4	µg/L	1	U		1	U		1	U		1	U	
SW8260C	Bromoform	75-25-2	µg/L	1	U		1	U		1	U		1	U	
SW8260C	Bromomethane	74-83-9	µg/L	2	U		2	UJ	c	2	U		2	U	
SW8260C	Carbon tetrachloride	56-23-5	µg/L	1	U		1	U		1	U		1	U	
SW8260C	Chlorobenzene	108-90-7	µg/L	1	U		1	U		1	U		1	U	
SW8260C	Chloroethane	75-00-3	µg/L	1	U		1	U		1	U		1	U	
SW8260C	Chloroform	67-66-3	µg/L	1	U		1	U		1	U		1	U	
SW8260C	Chloromethane	74-87-3	µg/L	1	U		1	U		1	U		1	U	

Table B-1 (Continued)
Groundwater Samples Final Results after Data Review

		Sample Identification		CC1MW01G0720			CC1MW106G0720			CC1MW107G0720			CC1MW107H0720		
		Lab Identification		JD10241-1			JD10241-2			JD10241-3			JD10241-4		
		Sample Date		7/15/2020			7/15/2020			7/15/2020			7/15/2020		
		Sample Type		Groundwater			Groundwater			Groundwater			Duplicate		
Method	**Analyte**	**CAS No**	**Units**	**Result**	**Qual**	**RC**	**Result**	**Qual**	**RC**	**Result**	**Qual**	**RC**	**Result**	**Qual**	**RC**
SW8260C	cis-1,2-Dichloroethene	156-59-2	µg/L	1	U		1	U		31.8			33.7		
SW8260C	cis-1,3-Dichloropropene	10061-01-5	µg/L	1	U		1	U		1	U		1	U	
SW8260C	Dibromochloromethane	124-48-1	µg/L	1	U		1	U		1	U		1	U	
SW8260C	Dibromomethane	74-95-3	µg/L	1	U		1	U		1	U		1	U	
SW8260C	Dichlorodifluoromethane	75-71-8	µg/L	2	U		2	U		2	U		2	U	
SW8260C	Ethylbenzene	100-41-4	µg/L	1	U		1	U		1	U		1	U	
SW8260C	Hexachlorobutadiene	87-68-3	µg/L	2	U		2	U		2	U		2	U	
SW8260C	Isopropylbenzene	98-82-8	µg/L	1	U		1	U		1	U		1	U	
SW8260C	m,p-Xylene	179601-23-1	µg/L	1	U		1	U		1	U		1	U	
SW8260C	Methyl tert-butyl ether	1634-04-4	µg/L	1	U		1	U		1	U		1	U	
SW8260C	Methylene chloride	75-09-2	µg/L	2	U		2	U		2	U		2	U	
SW8260C	Naphthalene	91-20-3	µg/L	5	U		5	U		5	U		5	U	
SW8260C	n-Butylbenzene	104-51-8	µg/L	2	U		2	U		2	U		2	U	
SW8260C	n-Propylbenzene	103-65-1	µg/L	2	U		2	U		2	U		2	U	
SW8260C	o-Xylene	95-47-6	µg/L	1	U		1	U		1	U		1	U	
SW8260C	p-Isopropyltoluene	99-87-6	µg/L	2	U		2	U		2	U		2	U	
SW8260C	sec-Butylbenzene	135-98-8	µg/L	2	U		2	U		2	U		2	U	
SW8260C	Styrene	100-42-5	µg/L	1	U		1	U		1	U		1	U	
SW8260C	tert-Butylbenzene	98-06-6	µg/L	2	U		2	U		2	U		2	U	
SW8260C	Tetrachloroethene	127-18-4	µg/L	1	U		1	U		1	U		1	U	
SW8260C	Toluene	108-88-3	µg/L	1	U		1	U		1	U		1	U	
SW8260C	trans-1,2-Dichloroethene	156-60-5	µg/L	1	U		1	U		1	U		1	U	
SW8260C	trans-1,3-Dichloropropene	10061-02-6	µg/L	1	U		1	U		1	U		1	U	
SW8260C	Trichloroethene	79-01-6	µg/L	1	U		1	U		1	U		1	U	
SW8260C	Trichlorofluoromethane	75-69-4	µg/L	2	U		2	U		2	U		2	U	
SW8260C	Vinyl chloride	75-01-4	µg/L	1	U		0.88	J		3.6			3.6		
SW8260C	Xylene (Total)	1330-20-7	µg/L	1	U		1	U		1	U		1	U	
SW8270D_SIM	1,4-Dioxane	123-91-1	µg/L	0.106			0.914			NA			NA		

Table B-1 (Continued)
Groundwater Samples Final Results after Data Review

		Sample Identification		CC1MW13DG0720			CC1MWSB2G0720			CC1STSW0720			CC1SDSW0720		
		Lab Identification		JD10241-5			JD10241-6			JD10241-7			JD10241-8		
		Sample Date		7/15/2020			7/15/2020			7/14/2020			7/14/2020		
		Sample Type		Groundwater			Surface water			Surface water			Surface water		
Method	**Analyte**	**CAS No**	**Units**	**Result**	**Qual**	**RC**	**Result**	**Qual**	**RC**	**Result**	**Qual**	**RC**	**Result**	**Qual**	**RC**
SW8260C	1,1,1,2-Tetrachloroethane	630-20-6	µg/L	10	U		1	U		1	U		1	U	
SW8260C	1,1,1-Trichloroethane	71-55-6	µg/L	10	U		1	U		15			6.6		
SW8260C	1,1,2,2-Tetrachloroethane	79-34-5	µg/L	10	U		1	U		1	U		1	U	
SW8260C	1,1,2-Trichloroethane	79-00-5	µg/L	10	U		1	U		1	U		1	U	
SW8260C	1,1-Dichloroethane	75-34-3	µg/L	65.7			23.5			19.1			9.6		
SW8260C	1,1-Dichloroethene	75-35-4	µg/L	9.9	J		1	U		4.3			1.8		
SW8260C	1,1-Dichloropropene	563-58-6	µg/L	10	U		1	U		1	U		1	U	
SW8260C	1,2,3-Trichlorobenzene	87-61-6	µg/L	10	U		1	U		1	U		1	U	
SW8260C	1,2,3-Trichloropropane	96-18-4	µg/L	20	U		2	U		2	U		2	U	
SW8260C	1,2,4-Trichlorobenzene	120-82-1	µg/L	10	U		1	U		1	U		1	U	
SW8260C	1,2,4-Trimethylbenzene	95-63-6	µg/L	20	U		2	U		2	U		2	U	
SW8260C	1,2-Dibromo-3-Chloropropane	96-12-8	µg/L	20	U		2	U		2	U		2	U	
SW8260C	1,2-Dibromoethane (EDB)	106-93-4	µg/L	10	U		1	UJ	c	1	UJ	c	1	UJ	c
SW8260C	1,2-Dichlorobenzene	95-50-1	µg/L	10	U		1	U		1	U		1	U	
SW8260C	1,2-Dichloroethane	107-06-2	µg/L	10	U		1	U		1	U		1	U	
SW8260C	1,2-Dichloropropane	78-87-5	µg/L	10	U		1	U		1	U		1	U	
SW8260C	1,3,5-Trimethylbenzene	108-67-8	µg/L	20	U		2	U		2	U		2	U	
SW8260C	1,3-Dichlorobenzene	541-73-1	µg/L	10	U		1	U		1	U		1	U	
SW8260C	1,3-Dichloropropane	142-28-9	µg/L	10	U		1	U		1	U		1	U	
SW8260C	1,4-Dichlorobenzene	106-46-7	µg/L	10	U		1	U		1	U		1	U	
SW8260C	2,2-Dichloropropane	594-20-7	µg/L	10	U		1	U		1	U		1	U	
SW8260C	2-Butanone (MEK)	78-93-3	µg/L	100	U		10	U		10	U		10	U	
SW8260C	2-Chlorotoluene	95-49-8	µg/L	20	U		2	U		2	U		2	U	
SW8260C	4-Chlorotoluene	106-43-4	µg/L	20	U		2	U		2	U		2	U	
SW8260C	4-Methyl-2-Pentanone (MIBK)	108-10-1	µg/L	50	U		5	U		5	U		5	U	
SW8260C	Acetone	67-64-1	µg/L	100	U		10	U		18.2			15.1		
SW8260C	Benzene	71-43-2	µg/L	5	U		0.5	U		0.5	U		0.5	U	
SW8260C	Bromobenzene	108-86-1	µg/L	10	U		1	U		1	U		1	U	
SW8260C	Bromochloromethane	74-97-5	µg/L	10	U		1	U		1	U		1	U	
SW8260C	Bromodichloromethane	75-27-4	µg/L	10	U		1	U		1	U		1	U	
SW8260C	Bromoform	75-25-2	µg/L	10	U		1	U		1	U		1	U	
SW8260C	Bromomethane	74-83-9	µg/L	20	U		2	UJ	c	2	UJ	c	2	UJ	c
SW8260C	Carbon tetrachloride	56-23-5	µg/L	10	U		1	U		1	U		1	U	
SW8260C	Chlorobenzene	108-90-7	µg/L	10	U		1	U		1	U		1	U	
SW8260C	Chloroethane	75-00-3	µg/L	10	U		1	U		1	U		1	U	
SW8260C	Chloroform	67-66-3	µg/L	10	U		1	U		1	U		1	U	
SW8260C	Chloromethane	74-87-3	µg/L	10	U		1	U		1	U		1	U	

Table B-1 (Continued)
Groundwater Samples Final Results after Data Review

		Sample Identification		CC1MW13DG0720			CC1MWSB2G0720			CC1STSW0720			CC1SDSW0720		
		Lab Identification		JD10241-5			JD10241-6			JD10241-7			JD10241-8		
		Sample Date		7/15/2020			7/15/2020			7/14/2020			7/14/2020		
		Sample Type		Groundwater			Surface water			Surface water			Surface water		
Method	**Analyte**	**CAS No**	**Units**	**Result**	**Qual**	**RC**	**Result**	**Qual**	**RC**	**Result**	**Qual**	**RC**	**Result**	**Qual**	**RC**
SW8260C	cis-1,2-Dichloroethene	156-59-2	µg/L	1420			58.1			184			119		
SW8260C	cis-1,3-Dichloropropene	10061-01-5	µg/L	10	U		1	U		1	U		1	U	
SW8260C	Dibromochloromethane	124-48-1	µg/L	10	U		1	U		1	U		1	U	
SW8260C	Dibromomethane	74-95-3	µg/L	10	U		1	U		1	U		1	U	
SW8260C	Dichlorodifluoromethane	75-71-8	µg/L	20	U		2	U		2	U		2	U	
SW8260C	Ethylbenzene	100-41-4	µg/L	10	U		1	U		1	U		1	U	
SW8260C	Hexachlorobutadiene	87-68-3	µg/L	20	U		2	U		2	U		2	U	
SW8260C	Isopropylbenzene	98-82-8	µg/L	10	U		1	U		1	U		1	U	
SW8260C	m,p-Xylene	179601-23-1	µg/L	10	U		1	U		1	U		1	U	
SW8260C	Methyl tert-butyl ether	1634-04-4	µg/L	10	U		1	U		1	U		1	U	
SW8260C	Methylene chloride	75-09-2	µg/L	20	U		2	U		2	U		2	U	
SW8260C	Naphthalene	91-20-3	µg/L	50	U		5	U		5	U		5	U	
SW8260C	n-Butylbenzene	104-51-8	µg/L	20	U		2	U		2	U		2	U	
SW8260C	n-Propylbenzene	103-65-1	µg/L	20	U		2	U		2	U		2	U	
SW8260C	o-Xylene	95-47-6	µg/L	10	U		1	U		1	U		1	U	
SW8260C	p-Isopropyltoluene	99-87-6	µg/L	20	U		2	U		2	U		2	U	
SW8260C	sec-Butylbenzene	135-98-8	µg/L	20	U		2	U		2	U		2	U	
SW8260C	Styrene	100-42-5	µg/L	10	U		1	U		1	U		1	U	
SW8260C	tert-Butylbenzene	98-06-6	µg/L	20	U		2	U		2	U		2	U	
SW8260C	Tetrachloroethene	127-18-4	µg/L	10	U		1	U		1	U		1	U	
SW8260C	Toluene	108-88-3	µg/L	10	U		0.7	J		1	U		1	U	
SW8260C	trans-1,2-Dichloroethene	156-60-5	µg/L	9.2	J		4.6			0.71	J		1	U	
SW8260C	trans-1,3-Dichloropropene	10061-02-6	µg/L	10	U		1	U		1	U		1	U	
SW8260C	Trichloroethene	79-01-6	µg/L	32.5			1	U		17			16.6		
SW8260C	Trichlorofluoromethane	75-69-4	µg/L	20	U		2	U		2	U		2	U	
SW8260C	Vinyl chloride	75-01-4	µg/L	207			281			29.9			12.3		
SW8260C	Xylene (Total)	1330-20-7	µg/L	10	U		1	U		1	U		1	U	
SW8270D_SIM	1,4-Dioxane	123-91-1	µg/L	NA			NA			NA			NA		

Table B-1 (Continued)
Groundwater Samples Final Results after Data Review

		Sample Identification		CC1MW106H0720		
		Lab Identification		JD10244-3		
		Sample Date		7/15/2020		
		Sample Type		Duplicate		
Method	**Analyte**	**CAS No**	**Units**	**Result**	**Qual**	**RC**
SW8260C	1,1,1,2-Tetrachloroethane	630-20-6	µg/L	NA		
SW8260C	1,1,1-Trichloroethane	71-55-6	µg/L	NA		
SW8260C	1,1,2,2-Tetrachloroethane	79-34-5	µg/L	NA		
SW8260C	1,1,2-Trichloroethane	79-00-5	µg/L	NA		
SW8260C	1,1-Dichloroethane	75-34-3	µg/L	NA		
SW8260C	1,1-Dichloroethene	75-35-4	µg/L	NA		
SW8260C	1,1-Dichloropropene	563-58-6	µg/L	NA		
SW8260C	1,2,3-Trichlorobenzene	87-61-6	µg/L	NA		
SW8260C	1,2,3-Trichloropropane	96-18-4	µg/L	NA		
SW8260C	1,2,4-Trichlorobenzene	120-82-1	µg/L	NA		
SW8260C	1,2,4-Trimethylbenzene	95-63-6	µg/L	NA		
SW8260C	1,2-Dibromo-3-Chloropropane	96-12-8	µg/L	NA		
SW8260C	1,2-Dibromoethane (EDB)	106-93-4	µg/L	NA		
SW8260C	1,2-Dichlorobenzene	95-50-1	µg/L	NA		
SW8260C	1,2-Dichloroethane	107-06-2	µg/L	NA		
SW8260C	1,2-Dichloropropane	78-87-5	µg/L	NA		
SW8260C	1,3,5-Trimethylbenzene	108-67-8	µg/L	NA		
SW8260C	1,3-Dichlorobenzene	541-73-1	µg/L	NA		
SW8260C	1,3-Dichloropropane	142-28-9	µg/L	NA		
SW8260C	1,4-Dichlorobenzene	106-46-7	µg/L	NA		
SW8260C	2,2-Dichloropropane	594-20-7	µg/L	NA		
SW8260C	2-Butanone (MEK)	78-93-3	µg/L	NA		
SW8260C	2-Chlorotoluene	95-49-8	µg/L	NA		
SW8260C	4-Chlorotoluene	106-43-4	µg/L	NA		
SW8260C	4-Methyl-2-Pentanone (MIBK)	108-10-1	µg/L	NA		
SW8260C	Acetone	67-64-1	µg/L	NA		
SW8260C	Benzene	71-43-2	µg/L	NA		
SW8260C	Bromobenzene	108-86-1	µg/L	NA		
SW8260C	Bromochloromethane	74-97-5	µg/L	NA		
SW8260C	Bromodichloromethane	75-27-4	µg/L	NA		
SW8260C	Bromoform	75-25-2	µg/L	NA		
SW8260C	Bromomethane	74-83-9	µg/L	NA		
SW8260C	Carbon tetrachloride	56-23-5	µg/L	NA		
SW8260C	Chlorobenzene	108-90-7	µg/L	NA		
SW8260C	Chloroethane	75-00-3	µg/L	NA		
SW8260C	Chloroform	67-66-3	µg/L	NA		
SW8260C	Chloromethane	74-87-3	µg/L	NA		

Table B-1 (Continued)
Groundwater Samples Final Results after Data Review

		Sample Identification	CC1MW106H0720			
		Lab Identification	JD10244-3			
		Sample Date	7/15/2020			
		Sample Type	Duplicate			
Method	**Analyte**	**CAS No**	**Units**	**Result**	**Qual**	**RC**
SW8260C	cis-1,2-Dichloroethene	156-59-2	µg/L	NA		
SW8260C	cis-1,3-Dichloropropene	10061-01-5	µg/L	NA		
SW8260C	Dibromochloromethane	124-48-1	µg/L	NA		
SW8260C	Dibromomethane	74-95-3	µg/L	NA		
SW8260C	Dichlorodifluoromethane	75-71-8	µg/L	NA		
SW8260C	Ethylbenzene	100-41-4	µg/L	NA		
SW8260C	Hexachlorobutadiene	87-68-3	µg/L	NA		
SW8260C	Isopropylbenzene	98-82-8	µg/L	NA		
SW8260C	m,p-Xylene	179601-23-1	µg/L	NA		
SW8260C	Methyl tert-butyl ether	1634-04-4	µg/L	NA		
SW8260C	Methylene chloride	75-09-2	µg/L	NA		
SW8260C	Naphthalene	91-20-3	µg/L	NA		
SW8260C	n-Butylbenzene	104-51-8	µg/L	NA		
SW8260C	n-Propylbenzene	103-65-1	µg/L	NA		
SW8260C	o-Xylene	95-47-6	µg/L	NA		
SW8260C	p-Isopropyltoluene	99-87-6	µg/L	NA		
SW8260C	sec-Butylbenzene	135-98-8	µg/L	NA		
SW8260C	Styrene	100-42-5	µg/L	NA		
SW8260C	tert-Butylbenzene	98-06-6	µg/L	NA		
SW8260C	Tetrachloroethene	127-18-4	µg/L	NA		
SW8260C	Toluene	108-88-3	µg/L	NA		
SW8260C	trans-1,2-Dichloroethene	156-60-5	µg/L	NA		
SW8260C	trans-1,3-Dichloropropene	10061-02-6	µg/L	NA		
SW8260C	Trichloroethene	79-01-6	µg/L	NA		
SW8260C	Trichlorofluoromethane	75-69-4	µg/L	NA		
SW8260C	Vinyl chloride	75-01-4	µg/L	NA		
SW8260C	Xylene (Total)	1330-20-7	µg/L	NA		
SW8270D_SIM	1,4-Dioxane	123-91-1	µg/L	0.951		

Notes

CAS No = Chemical Abstracts Service number
Qual = Final qualifier
RC = Qualification reason code
µg/L = Micrograms per liter
SIM = Selective ion monitoring
NA = Not analyzed
U = *Undetected* — The analyte was analyzed but undetected above the listed sample reporting limit.
J = *Estimated* — The analyte was detected above the method detection limit but below the sample reporting limit.
UJ = *Undetected and Estimated* — The analyte was analyzed but undetected at the listed reporting limit and was qualified due a quality control outlier.
c = Continuing calibration verification outlier

Attachment C
Laboratory Reports

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Ensafe, Inc

Former Carlysle Compressor, Syracuse, NY

Carrier Corporation 888814574 Phase:006

SGS Job Number: JD10241

Sampling Dates: 07/14/20 - 07/15/20



Report to:

Ensafe, Inc
5724 Summer Trees Drive
Memphis, TN 38134
MHeflin@Ensafe.com; Nelson.Wong@Carrier.UTC.com;
TCantwell@Ensafe.com; SGoodnight@Ensafe.com;
ATTN: May Heflin

Total number of pages in report: **339**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Hemex Patel
Appointed Deputy for GM

Client Service contact: Beth Wasserman 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TX, UT, VA, WV, DoD ELAP (ANAB L2248)

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Test results relate only to samples analyzed.

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Please share your ideas about
how we can serve you better at:
EHS.US.CustomerCare@sgs.com

August 05, 2020

Ms. May Heflin
Ensafe, Inc.
5724 Summer Trees Drive
Memphis, TN 38134

RE: SGS – Dayton, Job # JD10241– Reissues

Dear Ms. Heflin,

The final report for SGS jobs number JD10241 has been edited to reflect corrections to the final results. These edits have been incorporated into the revised report which is attached.

Specifically, this report has been upgraded to full deliverable report to including all associated QCs raw data. The attached revised report incorporates these revisions.

SGS apologizes for this occurrence and for any inconvenience this situation may have caused. Please contact me if I can be of further assistance in this matter.

Sincerely,

Report Department

SGS North America Inc.



CONTINUOUS SERVICE IMPROVEMENT!

Our goal is to continuously improve our service to you. Please share your ideas about how we can serve you better at EHS.US.CustomerCare@sgs.com. Your feedback is appreciated!

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SGS North America Inc.

Sample Summary

Ensafe, Inc

Job No: JD10241

Former Carlysle Compressor, Syracuse, NY
Project No: Carrier Corporation 888814574 Phase:006

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
This report contains results reported as ND = Not detected. The following applies: Organics ND = Not detected above the MDL							
JD10241-1	07/15/20	10:40	MG	07/16/20	AQ	Ground Water	CC1MW01G0720
JD10241-1R	07/15/20	10:40	MG	07/16/20	AQ	Ground Water	CC1MW01G0720
JD10241-2	07/15/20	12:35	MG	07/16/20	AQ	Ground Water	CC1MW106G0720
JD10241-3	07/15/20	08:35	MG	07/16/20	AQ	Ground Water	CC1MW107G0720
JD10241-4	07/15/20	08:40	MG	07/16/20	AQ	Ground Water	CC1MW107H0720
JD10241-5	07/15/20	15:00	MG	07/16/20	AQ	Ground Water	CC1MW13DG0720
JD10241-6	07/15/20	14:25	MG	07/16/20	AQ	Surface Water	CC1MWSB2G0720
JD10241-7	07/14/20	13:55	MG	07/16/20	AQ	Surface Water	CC1STSW0720
JD10241-8	07/14/20	13:45	MG	07/16/20	AQ	Surface Water	CC1SDSW0720
JD10241-9	07/15/20	15:20	MG	07/16/20	AQ	Ground Water	CC1IDW01Z0720
JD10241-10	07/15/20	15:25	MG	07/16/20	AQ	Trip Blank Water	CC1TB01T0720
JD10241-11	07/15/20	13:10	MG	07/16/20	AQ	Field Blank Water	CC1FB01F0720

SGS North America Inc.

Sample Summary
(continued)

Ensafe, Inc

Job No: JD10241

Former Carlysle Compressor, Syracuse, NY
Project No: Carrier Corporation 888814574 Phase:006

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JD10241-12	07/15/20	15:25	MG	07/16/20	AQ	Ground Water	CC1IDW02Z0720

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Ensafe, Inc	**Job No**	JD10241
Site:	Former Carlysle Compressor, Syracuse, NY	**Report Date**	8/5/2020 1:24:47 PM

On 07/16/2020, 10 Sample(s), 1 Trip Blank(s) and 1 Field Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of 3.6 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JD10241 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

MS Volatiles By Method SW846 8260C

Matrix: AQ **Batch ID:** V2E8165

- All samples were analyzed within the recommended method holding time.
- Sample(s) JD10196-7MS, JD10196-7MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike / Matrix Spike Duplicate Recovery(s) for Trichloroethene: are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- JD10241-5: Dilution required due to high concentration of target compound.

Matrix: AQ **Batch ID:** V4D4597

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD10241-2MS, JD10241-2MSD were used as the QC samples indicated.
- Blank Spike Recovery(s) for 1,2-Dibromoethane are outside control limits. High percent recovery and no associated positive reported in the QC batch.
- Matrix Spike Recovery(s) for 1,2-Dibromoethane are outside control limits.
- RPD(s) for MSD for Bromomethane are outside control limits for sample JD10241-2MSD. Outside control limits due to matrix interference.
- JD10241-2 for 1,2-Dibromoethane: Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
- JD10241-2 for Bromomethane: Associated CCV outside of control limits low.
- JD10241-7 for 1,2-Dibromoethane: Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
- JD10241-7 for Bromomethane: Associated CCV outside of control limits low.
- JD10241-8 for 1,2-Dibromoethane: Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
- JD10241-8 for Bromomethane: Associated CCV outside of control limits low.

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS North America Inc indicated via signature on the report cover

Summary of Hits

Job Number: JD10241
Account: Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY
Collected: 07/14/20 thru 07/15/20

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD10241-1	**CC1MW01G0720**					
No hits reported in this sample.						
JD10241-2	**CC1MW106G0720**					
1,1-Dichloroethane		11.4	1.0	0.57	ug/l	SW846 8260C
1,1-Dichloroethene		0.74 J	1.0	0.59	ug/l	SW846 8260C
1,1,1-Trichloroethane		2.6	1.0	0.54	ug/l	SW846 8260C
Vinyl chloride		0.88 J	1.0	0.79	ug/l	SW846 8260C
JD10241-3	**CC1MW107G0720**					
1,1-Dichloroethane		12.0	1.0	0.57	ug/l	SW846 8260C
cis-1,2-Dichloroethene		31.8	1.0	0.51	ug/l	SW846 8260C
Vinyl chloride		3.6	1.0	0.79	ug/l	SW846 8260C
JD10241-4	**CC1MW107H0720**					
1,1-Dichloroethane		12.6	1.0	0.57	ug/l	SW846 8260C
cis-1,2-Dichloroethene		33.7	1.0	0.51	ug/l	SW846 8260C
Vinyl chloride		3.6	1.0	0.79	ug/l	SW846 8260C
JD10241-5	**CC1MW13DG0720**					
1,1-Dichloroethane [a]		65.7	10	5.7	ug/l	SW846 8260C
1,1-Dichloroethene [a]		9.9 J	10	5.9	ug/l	SW846 8260C
cis-1,2-Dichloroethene [a]		1420	10	5.1	ug/l	SW846 8260C
trans-1,2-Dichloroethene [a]		9.2 J	10	5.4	ug/l	SW846 8260C
Trichloroethene [a]		32.5	10	5.3	ug/l	SW846 8260C
Vinyl chloride [a]		207	10	7.9	ug/l	SW846 8260C
JD10241-6	**CC1MWSB2G0720**					
1,1-Dichloroethane		23.5	1.0	0.57	ug/l	SW846 8260C
cis-1,2-Dichloroethene		58.1	1.0	0.51	ug/l	SW846 8260C
trans-1,2-Dichloroethene		4.6	1.0	0.54	ug/l	SW846 8260C
Toluene		0.70 J	1.0	0.53	ug/l	SW846 8260C
Vinyl chloride		281	10	7.9	ug/l	SW846 8260C
JD10241-7	**CC1STSW0720**					
Acetone		18.2	10	6.0	ug/l	SW846 8260C
1,1-Dichloroethane		19.1	1.0	0.57	ug/l	SW846 8260C
1,1-Dichloroethene		4.3	1.0	0.59	ug/l	SW846 8260C

Summary of Hits

Job Number: JD10241
Account: Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY
Collected: 07/14/20 thru 07/15/20

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
cis-1,2-Dichloroethene		184	20	10	ug/l	SW846 8260C
trans-1,2-Dichloroethene		0.71 J	1.0	0.54	ug/l	SW846 8260C
1,1,1-Trichloroethane		15.0	1.0	0.54	ug/l	SW846 8260C
Trichloroethene		17.0	1.0	0.53	ug/l	SW846 8260C
Vinyl chloride		29.9	1.0	0.79	ug/l	SW846 8260C
JD10241-8	**CC1SDSW0720**					
Acetone		15.1	10	6.0	ug/l	SW846 8260C
1,1-Dichloroethane		9.6	1.0	0.57	ug/l	SW846 8260C
1,1-Dichloroethene		1.8	1.0	0.59	ug/l	SW846 8260C
cis-1,2-Dichloroethene		119	1.0	0.51	ug/l	SW846 8260C
1,1,1-Trichloroethane		6.6	1.0	0.54	ug/l	SW846 8260C
Trichloroethene		16.6	1.0	0.53	ug/l	SW846 8260C
Vinyl chloride		12.3	1.0	0.79	ug/l	SW846 8260C
JD10241-9	**CC1IDW01Z0720**					
cis-1,2-Dichloroethene		0.58 J	1.0	0.51	ug/l	SW846 8260C
JD10241-10	**CC1TB01T0720**					
No hits reported in this sample.						
JD10241-11	**CC1FB01F0720**					
No hits reported in this sample.						
JD10241-12	**CC1IDW02Z0720**					
1,1-Dichloroethane		5.7	1.0	0.57	ug/l	SW846 8260C
cis-1,2-Dichloroethene		79.7	1.0	0.51	ug/l	SW846 8260C
Trichloroethene		1.3	1.0	0.53	ug/l	SW846 8260C
Vinyl chloride		10.8	1.0	0.79	ug/l	SW846 8260C

(a) Dilution required due to high concentration of target compound.

Sample Results

Report of Analysis

SGS North America Inc.

Report of Analysis

Client Sample ID:	CC1MW01G0720		
Lab Sample ID:	JD10241-1	**Date Sampled:**	07/15/20
Matrix:	AQ - Ground Water	**Date Received:**	07/16/20
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Former Carlysle Compressor, Syracuse, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E162985.D	1	07/20/20 19:20	KC	n/a	n/a	V2E8165
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	6.0	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.55	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	6.9	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.52	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.62	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.69	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.63	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.60	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.2	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.4	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.43	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CC1MW01G0720		
Lab Sample ID:	JD10241-1	**Date Sampled:**	07/15/20
Matrix:	AQ - Ground Water	**Date Received:**	07/16/20
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Former Carlysle Compressor, Syracuse, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
594-20-7	2,2-Dichloropropane	ND	1.0	0.52	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.82	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.56	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.66	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.48	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	2.5	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.60	ug/l	
100-42-5	Styrene	ND	1.0	0.70	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.90	ug/l	
108-88-3	Toluene	ND	1.0	0.53	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.84	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		80-120%
17060-07-0	1,2-Dichloroethane-D4	100%		81-124%
2037-26-5	Toluene-D8	98%		80-120%
460-00-4	4-Bromofluorobenzene	98%		80-120%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	CC1MW106G0720		
Lab Sample ID:	JD10241-2	**Date Sampled:**	07/15/20
Matrix:	AQ - Ground Water	**Date Received:**	07/16/20
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Former Carlysle Compressor, Syracuse, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D103630.D	1	07/27/20 11:13	KC	n/a	n/a	V4D4597
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	6.0	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.55	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane [a]	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	6.9	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.52	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.62	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.69	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.63	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.60	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.2	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane [b]	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.4	ug/l	
75-34-3	1,1-Dichloroethane	11.4	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	0.74	1.0	0.59	ug/l	J
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.43	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CC1MW106G0720		
Lab Sample ID:	JD10241-2	**Date Sampled:**	07/15/20
Matrix:	AQ - Ground Water	**Date Received:**	07/16/20
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Former Carlysle Compressor, Syracuse, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
594-20-7	2,2-Dichloropropane	ND	1.0	0.52	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.82	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.56	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.66	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.48	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	2.5	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.60	ug/l	
100-42-5	Styrene	ND	1.0	0.70	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.90	ug/l	
108-88-3	Toluene	ND	1.0	0.53	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	2.6	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.84	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	1.0	ug/l	
75-01-4	Vinyl chloride	0.88	1.0	0.79	ug/l	J
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		80-120%
17060-07-0	1,2-Dichloroethane-D4	92%		81-124%
2037-26-5	Toluene-D8	100%		80-120%
460-00-4	4-Bromofluorobenzene	96%		80-120%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CC1MW106G0720		
Lab Sample ID:	JD10241-2	**Date Sampled:**	07/15/20
Matrix:	AQ - Ground Water	**Date Received:**	07/16/20
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Former Carlysle Compressor, Syracuse, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q

(a) Associated CCV outside of control limits low.
(b) Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	CC1MW107G0720		
Lab Sample ID:	JD10241-3	**Date Sampled:**	07/15/20
Matrix:	AQ - Ground Water	**Date Received:**	07/16/20
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Former Carlysle Compressor, Syracuse, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E162986.D	1	07/20/20 19:50	KC	n/a	n/a	V2E8165
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	6.0	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.55	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	6.9	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.52	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.62	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.69	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.63	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.60	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.2	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.4	ug/l	
75-34-3	1,1-Dichloroethane	12.0	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	31.8	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.43	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CC1MW107G0720		
Lab Sample ID:	JD10241-3	**Date Sampled:**	07/15/20
Matrix:	AQ - Ground Water	**Date Received:**	07/16/20
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Former Carlysle Compressor, Syracuse, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
594-20-7	2,2-Dichloropropane	ND	1.0	0.52	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.82	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.56	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.66	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.48	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	2.5	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.60	ug/l	
100-42-5	Styrene	ND	1.0	0.70	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.90	ug/l	
108-88-3	Toluene	ND	1.0	0.53	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.84	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	1.0	ug/l	
75-01-4	Vinyl chloride	3.6	1.0	0.79	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		80-120%
17060-07-0	1,2-Dichloroethane-D4	101%		81-124%
2037-26-5	Toluene-D8	98%		80-120%
460-00-4	4-Bromofluorobenzene	100%		80-120%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	CC1MW107H0720		
Lab Sample ID:	JD10241-4	**Date Sampled:**	07/15/20
Matrix:	AQ - Ground Water	**Date Received:**	07/16/20
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Former Carlysle Compressor, Syracuse, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E162987.D	1	07/20/20 20:20	KC	n/a	n/a	V2E8165
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	6.0	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.55	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	6.9	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.52	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.62	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.69	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.63	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.60	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.2	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.4	ug/l	
75-34-3	1,1-Dichloroethane	12.6	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	33.7	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.43	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CC1MW107H0720		
Lab Sample ID:	JD10241-4	**Date Sampled:**	07/15/20
Matrix:	AQ - Ground Water	**Date Received:**	07/16/20
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Former Carlysle Compressor, Syracuse, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
594-20-7	2,2-Dichloropropane	ND	1.0	0.52	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.82	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.56	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.66	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.48	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	2.5	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.60	ug/l	
100-42-5	Styrene	ND	1.0	0.70	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.90	ug/l	
108-88-3	Toluene	ND	1.0	0.53	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.84	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	1.0	ug/l	
75-01-4	Vinyl chloride	3.6	1.0	0.79	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		80-120%
17060-07-0	1,2-Dichloroethane-D4	101%		81-124%
2037-26-5	Toluene-D8	100%		80-120%
460-00-4	4-Bromofluorobenzene	98%		80-120%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	CC1MW13DG0720		
Lab Sample ID:	JD10241-5	**Date Sampled:**	07/15/20
Matrix:	AQ - Ground Water	**Date Received:**	07/16/20
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Former Carlysle Compressor, Syracuse, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	2E162991.D	10	07/20/20 22:19	KC	n/a	n/a	V2E8165
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	100	60	ug/l	
71-43-2	Benzene	ND	5.0	4.3	ug/l	
108-86-1	Bromobenzene	ND	10	5.5	ug/l	
74-97-5	Bromochloromethane	ND	10	4.8	ug/l	
75-27-4	Bromodichloromethane	ND	10	5.8	ug/l	
75-25-2	Bromoform	ND	10	6.3	ug/l	
74-83-9	Bromomethane	ND	20	16	ug/l	
78-93-3	2-Butanone (MEK)	ND	100	69	ug/l	
104-51-8	n-Butylbenzene	ND	20	5.2	ug/l	
135-98-8	sec-Butylbenzene	ND	20	6.2	ug/l	
98-06-6	tert-Butylbenzene	ND	20	6.9	ug/l	
56-23-5	Carbon tetrachloride	ND	10	5.5	ug/l	
108-90-7	Chlorobenzene	ND	10	5.6	ug/l	
75-00-3	Chloroethane	ND	10	7.3	ug/l	
67-66-3	Chloroform	ND	10	5.0	ug/l	
74-87-3	Chloromethane	ND	10	7.6	ug/l	
95-49-8	o-Chlorotoluene	ND	20	6.3	ug/l	
106-43-4	p-Chlorotoluene	ND	20	6.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	20	12	ug/l	
124-48-1	Dibromochloromethane	ND	10	5.6	ug/l	
106-93-4	1,2-Dibromoethane	ND	10	4.8	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	10	5.3	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	10	5.4	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	10	5.1	ug/l	
75-71-8	Dichlorodifluoromethane	ND	20	14	ug/l	
75-34-3	1,1-Dichloroethane	65.7	10	5.7	ug/l	
107-06-2	1,2-Dichloroethane	ND	10	6.0	ug/l	
75-35-4	1,1-Dichloroethene	9.9	10	5.9	ug/l	J
156-59-2	cis-1,2-Dichloroethene	1420	10	5.1	ug/l	
156-60-5	trans-1,2-Dichloroethene	9.2	10	5.4	ug/l	J
78-87-5	1,2-Dichloropropane	ND	10	5.1	ug/l	
142-28-9	1,3-Dichloropropane	ND	10	4.3	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CC1MW13DG0720		
Lab Sample ID:	JD10241-5	**Date Sampled:**	07/15/20
Matrix:	AQ - Ground Water	**Date Received:**	07/16/20
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Former Carlysle Compressor, Syracuse, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
594-20-7	2,2-Dichloropropane	ND	10	5.2	ug/l	
563-58-6	1,1-Dichloropropene	ND	10	8.2	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	10	4.7	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	10	4.3	ug/l	
100-41-4	Ethylbenzene	ND	10	6.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	20	5.6	ug/l	
98-82-8	Isopropylbenzene	ND	10	6.5	ug/l	
99-87-6	p-Isopropyltoluene	ND	20	6.6	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	10	5.1	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	50	19	ug/l	
74-95-3	Methylene bromide	ND	10	4.8	ug/l	
75-09-2	Methylene chloride	ND	20	10	ug/l	
91-20-3	Naphthalene	ND	50	25	ug/l	
103-65-1	n-Propylbenzene	ND	20	6.0	ug/l	
100-42-5	Styrene	ND	10	7.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	10	6.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	10	6.5	ug/l	
127-18-4	Tetrachloroethene	ND	10	9.0	ug/l	
108-88-3	Toluene	ND	10	5.3	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	10	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	10	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	10	5.4	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	10	5.3	ug/l	
79-01-6	Trichloroethene	32.5	10	5.3	ug/l	
75-69-4	Trichlorofluoromethane	ND	20	8.4	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	20	7.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	20	10	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	20	10	ug/l	
75-01-4	Vinyl chloride	207	10	7.9	ug/l	
	m,p-Xylene	ND	10	7.8	ug/l	
95-47-6	o-Xylene	ND	10	5.9	ug/l	
1330-20-7	Xylene (total)	ND	10	5.9	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		80-120%
17060-07-0	1,2-Dichloroethane-D4	100%		81-124%
2037-26-5	Toluene-D8	99%		80-120%
460-00-4	4-Bromofluorobenzene	99%		80-120%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CC1MW13DG0720		
Lab Sample ID:	JD10241-5	**Date Sampled:**	07/15/20
Matrix:	AQ - Ground Water	**Date Received:**	07/16/20
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Former Carlysle Compressor, Syracuse, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q

(a) Dilution required due to high concentration of target compound.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	CC1MWSB2G0720		
Lab Sample ID:	JD10241-6	**Date Sampled:**	07/15/20
Matrix:	AQ - Surface Water	**Date Received:**	07/16/20
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Former Carlysle Compressor, Syracuse, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E162988.D	1	07/20/20 20:50	KC	n/a	n/a	V2E8165
Run #2	4D103633.D	10	07/27/20 12:41	KC	n/a	n/a	V4D4597

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	6.0	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.55	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	6.9	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.52	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.62	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.69	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.63	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.60	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.2	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.4	ug/l	
75-34-3	1,1-Dichloroethane	23.5	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	58.1	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	4.6	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.43	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CC1MWSB2G0720		
Lab Sample ID:	JD10241-6	**Date Sampled:**	07/15/20
Matrix:	AQ - Surface Water	**Date Received:**	07/16/20
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Former Carlysle Compressor, Syracuse, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
594-20-7	2,2-Dichloropropane	ND	1.0	0.52	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.82	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.56	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.66	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.48	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	2.5	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.60	ug/l	
100-42-5	Styrene	ND	1.0	0.70	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.90	ug/l	
108-88-3	Toluene	0.70	1.0	0.53	ug/l	J
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.84	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	1.0	ug/l	
75-01-4	Vinyl chloride	281 [a]	10	7.9	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%	107%	80-120%
17060-07-0	1,2-Dichloroethane-D4	99%	98%	81-124%
2037-26-5	Toluene-D8	99%	99%	80-120%
460-00-4	4-Bromofluorobenzene	100%	97%	80-120%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CC1MWSB2G0720		
Lab Sample ID:	JD10241-6	**Date Sampled:**	07/15/20
Matrix:	AQ - Surface Water	**Date Received:**	07/16/20
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Former Carlysle Compressor, Syracuse, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	CC1STSW0720		
Lab Sample ID:	JD10241-7	**Date Sampled:**	07/14/20
Matrix:	AQ - Surface Water	**Date Received:**	07/16/20
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Former Carlysle Compressor, Syracuse, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D103631.D	1	07/27/20 11:42	KC	n/a	n/a	V4D4597
Run #2	2E162992.D	20	07/20/20 22:49	KC	n/a	n/a	V2E8165

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	18.2	10	6.0	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.55	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane [a]	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	6.9	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.52	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.62	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.69	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.63	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.60	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.2	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane [b]	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.4	ug/l	
75-34-3	1,1-Dichloroethane	19.1	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	4.3	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	184 [c]	20	10	ug/l	
156-60-5	trans-1,2-Dichloroethene	0.71	1.0	0.54	ug/l	J
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.43	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CC1STSW0720		
Lab Sample ID:	JD10241-7	**Date Sampled:**	07/14/20
Matrix:	AQ - Surface Water	**Date Received:**	07/16/20
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Former Carlysle Compressor, Syracuse, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
594-20-7	2,2-Dichloropropane	ND	1.0	0.52	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.82	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.56	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.66	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.48	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	2.5	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.60	ug/l	
100-42-5	Styrene	ND	1.0	0.70	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.90	ug/l	
108-88-3	Toluene	ND	1.0	0.53	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	15.0	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	17.0	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.84	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	1.0	ug/l	
75-01-4	Vinyl chloride	29.9	1.0	0.79	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%	99%	80-120%
17060-07-0	1,2-Dichloroethane-D4	95%	100%	81-124%
2037-26-5	Toluene-D8	100%	98%	80-120%
460-00-4	4-Bromofluorobenzene	96%	99%	80-120%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CC1STSW0720		
Lab Sample ID:	JD10241-7	**Date Sampled:**	07/14/20
Matrix:	AQ - Surface Water	**Date Received:**	07/16/20
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Former Carlysle Compressor, Syracuse, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q

(a) Associated CCV outside of control limits low.
(b) Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
(c) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	CC1SDSW0720		
Lab Sample ID:	JD10241-8	**Date Sampled:**	07/14/20
Matrix:	AQ - Surface Water	**Date Received:**	07/16/20
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Former Carlysle Compressor, Syracuse, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D103632.D	1	07/27/20 12:11	KC	n/a	n/a	V4D4597
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	15.1	10	6.0	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.55	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane [a]	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	6.9	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.52	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.62	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.69	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.63	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.60	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.2	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane [b]	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.4	ug/l	
75-34-3	1,1-Dichloroethane	9.6	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	1.8	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	119	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.43	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CC1SDSW0720		
Lab Sample ID:	JD10241-8	**Date Sampled:**	07/14/20
Matrix:	AQ - Surface Water	**Date Received:**	07/16/20
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Former Carlysle Compressor, Syracuse, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
594-20-7	2,2-Dichloropropane	ND	1.0	0.52	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.82	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.56	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.66	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.48	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	2.5	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.60	ug/l	
100-42-5	Styrene	ND	1.0	0.70	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.90	ug/l	
108-88-3	Toluene	ND	1.0	0.53	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	6.6	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	16.6	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.84	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	1.0	ug/l	
75-01-4	Vinyl chloride	12.3	1.0	0.79	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		80-120%
17060-07-0	1,2-Dichloroethane-D4	95%		81-124%
2037-26-5	Toluene-D8	100%		80-120%
460-00-4	4-Bromofluorobenzene	95%		80-120%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CC1SDSW0720		
Lab Sample ID:	JD10241-8	**Date Sampled:**	07/14/20
Matrix:	AQ - Surface Water	**Date Received:**	07/16/20
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Former Carlysle Compressor, Syracuse, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q

(a) Associated CCV outside of control limits low.
(b) Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	CC1IDW01Z0720		
Lab Sample ID:	JD10241-9	**Date Sampled:**	07/15/20
Matrix:	AQ - Ground Water	**Date Received:**	07/16/20
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Former Carlysle Compressor, Syracuse, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E162989.D	1	07/20/20 21:19	KC	n/a	n/a	V2E8165
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	6.0	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.55	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	6.9	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.52	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.62	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.69	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.63	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.60	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.2	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.4	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	0.58	1.0	0.51	ug/l	J
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.43	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CC1IDW01Z0720		
Lab Sample ID:	JD10241-9	**Date Sampled:**	07/15/20
Matrix:	AQ - Ground Water	**Date Received:**	07/16/20
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Former Carlysle Compressor, Syracuse, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
594-20-7	2,2-Dichloropropane	ND	1.0	0.52	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.82	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.56	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.66	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.48	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	2.5	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.60	ug/l	
100-42-5	Styrene	ND	1.0	0.70	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.90	ug/l	
108-88-3	Toluene	ND	1.0	0.53	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.84	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		80-120%
17060-07-0	1,2-Dichloroethane-D4	100%		81-124%
2037-26-5	Toluene-D8	98%		80-120%
460-00-4	4-Bromofluorobenzene	99%		80-120%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	CC1TB01T0720		
Lab Sample ID:	JD10241-10	**Date Sampled:**	07/15/20
Matrix:	AQ - Trip Blank Water	**Date Received:**	07/16/20
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Former Carlysle Compressor, Syracuse, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E162983.D	1	07/20/20 18:20	KC	n/a	n/a	V2E8165
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	6.0	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.55	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	6.9	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.52	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.62	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.69	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.63	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.60	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.2	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.4	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.43	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CC1TB01T0720		
Lab Sample ID:	JD10241-10	**Date Sampled:**	07/15/20
Matrix:	AQ - Trip Blank Water	**Date Received:**	07/16/20
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Former Carlysle Compressor, Syracuse, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
594-20-7	2,2-Dichloropropane	ND	1.0	0.52	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.82	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.56	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.66	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.48	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	2.5	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.60	ug/l	
100-42-5	Styrene	ND	1.0	0.70	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.90	ug/l	
108-88-3	Toluene	ND	1.0	0.53	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.84	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		80-120%
17060-07-0	1,2-Dichloroethane-D4	100%		81-124%
2037-26-5	Toluene-D8	99%		80-120%
460-00-4	4-Bromofluorobenzene	100%		80-120%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	CC1FB01F0720		
Lab Sample ID:	JD10241-11	**Date Sampled:**	07/15/20
Matrix:	AQ - Field Blank Water	**Date Received:**	07/16/20
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Former Carlysle Compressor, Syracuse, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E162984.D	1	07/20/20 18:50	KC	n/a	n/a	V2E8165
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	6.0	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.55	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	6.9	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.52	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.62	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.69	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.63	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.60	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.2	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.4	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.43	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CC1FB01F0720		
Lab Sample ID:	JD10241-11	**Date Sampled:**	07/15/20
Matrix:	AQ - Field Blank Water	**Date Received:**	07/16/20
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Former Carlysle Compressor, Syracuse, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
594-20-7	2,2-Dichloropropane	ND	1.0	0.52	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.82	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.56	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.66	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.48	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	2.5	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.60	ug/l	
100-42-5	Styrene	ND	1.0	0.70	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.90	ug/l	
108-88-3	Toluene	ND	1.0	0.53	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.84	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		80-120%
17060-07-0	1,2-Dichloroethane-D4	99%		81-124%
2037-26-5	Toluene-D8	99%		80-120%
460-00-4	4-Bromofluorobenzene	100%		80-120%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	CC1IDW02Z0720		
Lab Sample ID:	JD10241-12	**Date Sampled:**	07/15/20
Matrix:	AQ - Ground Water	**Date Received:**	07/16/20
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Former Carlysle Compressor, Syracuse, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E162990.D	1	07/20/20 21:49	KC	n/a	n/a	V2E8165
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	6.0	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.55	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	6.9	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.52	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.62	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.69	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.63	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.60	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.2	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.4	ug/l	
75-34-3	1,1-Dichloroethane	5.7	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	79.7	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.43	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CC1IDW02Z0720		
Lab Sample ID:	JD10241-12	**Date Sampled:**	07/15/20
Matrix:	AQ - Ground Water	**Date Received:**	07/16/20
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	Former Carlysle Compressor, Syracuse, NY		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
594-20-7	2,2-Dichloropropane	ND	1.0	0.52	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.82	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.56	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.66	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.48	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	2.5	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.60	ug/l	
100-42-5	Styrene	ND	1.0	0.70	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.90	ug/l	
108-88-3	Toluene	ND	1.0	0.53	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	1.3	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.84	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	1.0	ug/l	
75-01-4	Vinyl chloride	10.8	1.0	0.79	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		80-120%
17060-07-0	1,2-Dichloroethane-D4	101%		81-124%
2037-26-5	Toluene-D8	99%		80-120%
460-00-4	4-Bromofluorobenzene	99%		80-120%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody

1709 6391 1011 ISW-0635-20-144 JD10241

CHAIN OF CUSTODY AND ANALYTICAL REQUEST RECORD

ENSAFE

EnSafe Inc.
800-588-7962

COC No: YT1001 REQUEST REC... Page: 1 of 1

Project Name: UTC - Former Carlysle Compressor (Syracuse, NY) PO No: Project No: 888814574 Phase: 006

Site Location: Syracuse, New York

Send Results To: mheflin@ensafe.com; sgoodnight@ensafe.com; tclemmey@ensafe.com

Sampler/Site Phone# Marshall Gibson 603.770.4444

Lab Name: SGS New Jersey Turnaround Time(specify): Standard

Sample Analysis Requested (*Enter number of containers for each test*)

Lab ID	Sample ID (sys_samp_code)	Location ID (sys_loc_code)	(mm/dd/yy)	Time (Military) (hhmm)	Matrix Code (1)	Sample Type (2)	Field Filtered (Y/N)	(3)→ Total No. of Containers	VOCs - 8260C	Extra Volume for MS/MSD	HOLD
1	CC1MW01G0720	MW01	7/15/2020	1040	WG	N	N	3	x		
2	CC1MW106G0720	MW106	7/15/2020	1235	WG	N	N	9	x	x	
3	CC1MW107G0720	MW107	7/15/2020	0835	WG	N	N	3	x		
4	CC1MW107H0720	MW107	7/15/2020	0840	FD WG	N	N	3	x		
5	CC1MW13DG0720	MW13D	7/15/2020	1500	WG	N	N	3	x		
6	CC1MWSB2W0720	MWSB2	7/15/2020	1435	WS	N	N	3	x		
7	CC1STSW0720	—	7/14/2020	1355	WS	N	N	3	x		
8	CC1SDSW0720	—	7/14/2020	1345	WS	N	N	3	x		
9	CC1IDW01Z0720	—	7/ /2020	1520	WG	N	N	3	X		
10	CC1TB01T0720	—	6/25/20	—	WQ WG	TB	N	2	X		
11	CC1FB01F0720	MW106	7/15/20	1330	WQ WG	FB	N	3	X		
12	CC1IDW02Z0720	—	7/15/20	1525	WG	N	N	3	X		

Initial Assessment JB

***Field* Comments:** Label Verification_____

***Lab* Comments:**

Sample Shipment and Delivery Details

Number of coolers in shipment:

Samples Iced?(check) Yes ✓ No____

Method of Shipment: 3.9°C JD

Airbill No:

Date Shipped:

	Relinquished by (signature)	Date	Time	Received by (signature)	Date	Time
1		7/15/20	1530		7/15/20	15:30
2		7/15/20	1710	Fed Ex		
3	Rel. Fed Ex	7/16/2020	0810			

(1) Matrix Code: AA=Air, AQ=Air QC Matrix, CK=Caulk, GS=Soil Gas, LP=Free Product, LH=Liquid Waste, MS=Mastic, OB=Oil, PT=Paint, SC=Cement/Concrete, SE=Sediment, SF=Filter Sandpack, SL=Sludge, SM=Miscellaneous Solid/Building Materials, SO=Soil, SQ=Soil/Solid QC Matrix, ST=Solid Waste, SW=Swab/Wipe, TA=Animal Tissue, TP=Plant Tissue, WG=Ground Water, WL=Leachate, WO=Ocean Water, WP=Drinking Water, WQ=Water QC Matrix, WS=Surface Water, SU=Storm Water, WW=Waste Water

(2) Sample Type: AB=Ambient Blank, EB=Equipment Blank, FB=Field Blank, FD=Field Duplicate Sample, FR=Field Replicate, MB=Material Blank, N=Normal Environmental Sample, RB=Material Rinse Blank, TB=Trip Blank

(3) Preservative added: HA=Hydrochloric Acid, NI=Nitric Acid, SH=Sodium Hydroxide, SA=Sulfuric Acid, AA=Ascorbic Acid, HX=Hexane, ME=Methanol, SB=Sodium bisulfate, ST=Sodium Thiosulfate, If NO preservative added leave blank

Rev. 12/12

IR-4

JD10241: Chain of Custody
Page 1 of 4

SGS Sample Receipt Summary

Job Number: JD10241 **Client:** ENSAFE **Project:** ENSTNN: FORMER CARLYSLE COMPRESSOR,

Date / Time Received: 7/16/2020 10:00:00 AM **Delivery Method:** **Airbill #'s:**

Cooler Temps (Raw Measured) °C: Cooler 1: (3.9);

Cooler Temps (Corrected) °C: Cooler 1: (3.6);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR Gun		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 229517 pH 12+: 208717 Other: (Specify)

Comments
-2 Received 3 of 9, 40mL HCL vials broken. No screen designated.
-8 Received 1 of 3, 40mL HCL vials broken. No screen designated.

SM089-02 Rev. Date 12/1/16

Responded to by: Beth Wasserman Response Date: 7/17/20

OK to proceed as noted.
Per Shane Goodnight

Job Change Order: JD10241

Requested Date:	8/5/2020	**Received Date:**	7/16/2020
Account Name:	Raytheon Technologies Corporati	**Due Date:**	7/30/2020
Project Description:	ENSTNN: Former Carlysle Compressor, Syracuse,	**Deliverable:**	COMMB
C/O Initiated By:	BW **PM:** BW	**TAT (Days):**	14

==========

Sample #: JD10241-All

Dept:

TAT: 14

Change:

Move to ENSCTN86805. Upgrade deliverable to FULT1 and reissue report.

==========

Above Changes Per: Shane Goodnight **Date/Time:** 8/5/2020 9:17:14 AM

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

JD10241: Chain of Custody

Page 4 of 4

Internal Sample Tracking Chronicle

Ensafe, Inc

Job No: JD10241

Former Carlysle Compressor, Syracuse, NY
Project No: Carrier Corporation 888814574 Phase:006

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD10241-1	Collected: 15-JUL-20 10:40 By: MG		Received: 16-JUL-20 By: JP			
CC1MW01G0720						
JD10241-1	SW846 8260C	20-JUL-20 19:20	KC			V8260STD
JD10241-2	Collected: 15-JUL-20 12:35 By: MG		Received: 16-JUL-20 By: JP			
CC1MW106G0720						
JD10241-2	SW846 8260C	27-JUL-20 11:13	KC			V8260STD
JD10241-3	Collected: 15-JUL-20 08:35 By: MG		Received: 16-JUL-20 By: JP			
CC1MW107G0720						
JD10241-3	SW846 8260C	20-JUL-20 19:50	KC			V8260STD
JD10241-4	Collected: 15-JUL-20 08:40 By: MG		Received: 16-JUL-20 By: JP			
CC1MW107H0720						
JD10241-4	SW846 8260C	20-JUL-20 20:20	KC			V8260STD
JD10241-5	Collected: 15-JUL-20 15:00 By: MG		Received: 16-JUL-20 By: JP			
CC1MW13DG0720						
JD10241-5	SW846 8260C	20-JUL-20 22:19	KC			V8260STD
JD10241-6	Collected: 15-JUL-20 14:25 By: MG		Received: 16-JUL-20 By: JP			
CC1MWSB2G0720						
JD10241-6	SW846 8260C	20-JUL-20 20:50	KC			V8260STD
JD10241-6	SW846 8260C	27-JUL-20 12:41	KC			V8260STD
JD10241-7	Collected: 14-JUL-20 13:55 By: MG		Received: 16-JUL-20 By: JP			
CC1STSW0720						
JD10241-7	SW846 8260C	20-JUL-20 22:49	KC			V8260STD
JD10241-7	SW846 8260C	27-JUL-20 11:42	KC			V8260STD
JD10241-8	Collected: 14-JUL-20 13:45 By: MG		Received: 16-JUL-20 By: JP			
CC1SDSW0720						

Internal Sample Tracking Chronicle

Ensafe, Inc

Job No: JD10241

Former Carlysle Compressor, Syracuse, NY
Project No: Carrier Corporation 888814574 Phase:006

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD10241-8	SW846 8260C	27-JUL-20 12:11	KC			V8260STD
JD10241-9	Collected: 15-JUL-20 15:20 By: MG CC1IDW01Z0720		Received: 16-JUL-20 By: JP			
JD10241-9	SW846 8260C	20-JUL-20 21:19	KC			V8260STD
JD10241-10	Collected: 15-JUL-20 15:25 By: MG CC1TB01T0720		Received: 16-JUL-20 By: JP			
JD10241-10	SW846 8260C	20-JUL-20 18:20	KC			V8260STD
JD10241-11	Collected: 15-JUL-20 13:10 By: MG CC1FB01F0720		Received: 16-JUL-20 By: JP			
JD10241-11	SW846 8260C	20-JUL-20 18:50	KC			V8260STD
JD10241-12	Collected: 15-JUL-20 15:25 By: MG CC1IDW02Z0720		Received: 16-JUL-20 By: JP			
JD10241-12	SW846 8260C	20-JUL-20 21:49	KC			V8260STD

SGS Internal Chain of Custody

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY
Received: 07/16/20

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD10241-1.1	Secured Storage	Krizhka Cuenta	07/20/20 13:38	Retrieve from Storage
JD10241-1.1	Krizhka Cuenta	GCMS2E	07/20/20 13:38	Load on Instrument
JD10241-1.1	GCMS2E	Krizhka Cuenta	07/21/20 08:08	Unload from Instrument
JD10241-1.1	Krizhka Cuenta	Secured Storage	07/21/20 08:08	Return to Storage
JD10241-2.1	Secured Storage	Krizhka Cuenta	07/24/20 17:02	Retrieve from Storage
JD10241-2.1	Krizhka Cuenta	GCMS2E	07/24/20 17:02	Load on Instrument
JD10241-2.1	GCMS2E	Krizhka Cuenta	07/27/20 08:42	Unload from Instrument
JD10241-2.1	Krizhka Cuenta	Secured Storage	07/27/20 08:42	Return to Storage
JD10241-2.2	Secured Storage	Krizhka Cuenta	07/27/20 11:31	Retrieve from Storage
JD10241-2.2	Krizhka Cuenta	GCMS4D	07/27/20 11:31	Load on Instrument
JD10241-2.2	GCMS4D	Krizhka Cuenta	07/28/20 15:34	Unload from Instrument
JD10241-2.2	Krizhka Cuenta	Secured Storage	07/28/20 15:34	Return to Storage
JD10241-2.3	Secured Storage	Krizhka Cuenta	07/27/20 11:38	Retrieve from Storage
JD10241-2.3	Krizhka Cuenta	GCMS4D	07/27/20 11:38	Load on Instrument
JD10241-2.3	GCMS4D	Krizhka Cuenta	07/28/20 15:34	Unload from Instrument
JD10241-2.3	Krizhka Cuenta	Secured Storage	07/28/20 15:34	Return to Storage
JD10241-2.4	Secured Storage	Krizhka Cuenta	07/27/20 11:38	Retrieve from Storage
JD10241-2.4	Krizhka Cuenta	GCMS4D	07/27/20 11:38	Load on Instrument
JD10241-2.4	GCMS4D	Krizhka Cuenta	07/28/20 15:34	Unload from Instrument
JD10241-2.4	Krizhka Cuenta	Secured Storage	07/28/20 15:34	Return to Storage
JD10241-3.1	Secured Storage	Krizhka Cuenta	07/20/20 13:38	Retrieve from Storage
JD10241-3.1	Krizhka Cuenta	GCMS2E	07/20/20 13:38	Load on Instrument
JD10241-3.1	GCMS2E	Krizhka Cuenta	07/21/20 08:08	Unload from Instrument
JD10241-3.1	Krizhka Cuenta	Secured Storage	07/21/20 08:08	Return to Storage
JD10241-4.1	Secured Storage	Krizhka Cuenta	07/20/20 13:38	Retrieve from Storage
JD10241-4.1	Krizhka Cuenta	GCMS2E	07/20/20 13:38	Load on Instrument
JD10241-4.1	GCMS2E	Krizhka Cuenta	07/21/20 08:08	Unload from Instrument
JD10241-4.1	Krizhka Cuenta	Secured Storage	07/21/20 08:08	Return to Storage
JD10241-5.1	Secured Storage	Krizhka Cuenta	07/20/20 13:38	Retrieve from Storage
JD10241-5.1	Krizhka Cuenta	GCMS2E	07/20/20 13:38	Load on Instrument
JD10241-5.1	GCMS2E	Krizhka Cuenta	07/21/20 08:08	Unload from Instrument
JD10241-5.1	Krizhka Cuenta	Secured Storage	07/21/20 08:08	Return to Storage
JD10241-6.1	Secured Storage	Krizhka Cuenta	07/20/20 13:38	Retrieve from Storage
JD10241-6.1	Krizhka Cuenta	GCMS2E	07/20/20 13:38	Load on Instrument
JD10241-6.1	GCMS2E	Krizhka Cuenta	07/21/20 08:08	Unload from Instrument
JD10241-6.1	Krizhka Cuenta	Secured Storage	07/21/20 08:08	Return to Storage

SGS Internal Chain of Custody

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY
Received: 07/16/20

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD10241-6.2	Secured Storage	Krizhka Cuenta	07/27/20 11:31	Retrieve from Storage
JD10241-6.2	Krizhka Cuenta	GCMS4D	07/27/20 11:31	Load on Instrument
JD10241-6.2	GCMS4D	Krizhka Cuenta	07/28/20 15:34	Unload from Instrument
JD10241-6.2	Krizhka Cuenta	Secured Storage	07/28/20 15:34	Return to Storage
JD10241-7.1	Secured Storage	Krizhka Cuenta	07/20/20 13:38	Retrieve from Storage
JD10241-7.1	Krizhka Cuenta	GCMS2E	07/20/20 13:38	Load on Instrument
JD10241-7.1	GCMS2E	Krizhka Cuenta	07/21/20 08:08	Unload from Instrument
JD10241-7.1	Krizhka Cuenta	Secured Storage	07/21/20 08:08	Return to Storage
JD10241-7.2	Secured Storage	Krizhka Cuenta	07/27/20 11:31	Retrieve from Storage
JD10241-7.2	Krizhka Cuenta	GCMS4D	07/27/20 11:31	Load on Instrument
JD10241-7.2	GCMS4D	Krizhka Cuenta	07/28/20 15:34	Unload from Instrument
JD10241-7.2	Krizhka Cuenta	Secured Storage	07/28/20 15:34	Return to Storage
JD10241-8.1	Secured Storage	Krizhka Cuenta	07/24/20 17:02	Retrieve from Storage
JD10241-8.1	Krizhka Cuenta	GCMS2E	07/24/20 17:02	Load on Instrument
JD10241-8.1	GCMS2E	Krizhka Cuenta	07/27/20 08:42	Unload from Instrument
JD10241-8.1	Krizhka Cuenta	Secured Storage	07/27/20 08:42	Return to Storage
JD10241-8.2	Secured Storage	Krizhka Cuenta	07/27/20 11:31	Retrieve from Storage
JD10241-8.2	Krizhka Cuenta	GCMS4D	07/27/20 11:31	Load on Instrument
JD10241-8.2	GCMS4D	Krizhka Cuenta	07/28/20 15:34	Unload from Instrument
JD10241-8.2	Krizhka Cuenta	Secured Storage	07/28/20 15:34	Return to Storage
JD10241-9.1	Secured Storage	Krizhka Cuenta	07/20/20 13:38	Retrieve from Storage
JD10241-9.1	Krizhka Cuenta	GCMS2E	07/20/20 13:38	Load on Instrument
JD10241-9.1	GCMS2E	Krizhka Cuenta	07/21/20 08:08	Unload from Instrument
JD10241-9.1	Krizhka Cuenta	Secured Storage	07/21/20 08:08	Return to Storage
JD10241-10.1	Secured Storage	Krizhka Cuenta	07/20/20 13:38	Retrieve from Storage
JD10241-10.1	Krizhka Cuenta	GCMS2E	07/20/20 13:38	Load on Instrument
JD10241-10.1	GCMS2E	Krizhka Cuenta	07/21/20 08:08	Unload from Instrument
JD10241-10.1	Krizhka Cuenta	Secured Storage	07/21/20 08:08	Return to Storage
JD10241-11.1	Secured Storage	Krizhka Cuenta	07/20/20 13:38	Retrieve from Storage
JD10241-11.1	Krizhka Cuenta	GCMS2E	07/20/20 13:38	Load on Instrument
JD10241-11.1	GCMS2E	Krizhka Cuenta	07/21/20 08:08	Unload from Instrument
JD10241-11.1	Krizhka Cuenta	Secured Storage	07/21/20 08:08	Return to Storage
JD10241-12.1	Secured Storage	Krizhka Cuenta	07/20/20 13:38	Retrieve from Storage
JD10241-12.1	Krizhka Cuenta	GCMS2E	07/20/20 13:38	Load on Instrument
JD10241-12.1	GCMS2E	Krizhka Cuenta	07/21/20 08:08	Unload from Instrument

SGS Internal Chain of Custody

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY
Received: 07/16/20

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD10241-12.1	Krizhka Cuenta	Secured Storage	07/21/20 08:08	Return to Storage

MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries
- Run Sequence Reports

Method Blank Summary

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2E8165-MB	2E162973.D	1	07/20/20	KC	n/a	n/a	V2E8165

The QC reported here applies to the following samples: **Method:** SW846 8260C

JD10241-1, JD10241-3, JD10241-4, JD10241-5, JD10241-6, JD10241-7, JD10241-9, JD10241-10, JD10241-11, JD10241-12

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	6.0	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.55	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	6.9	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.52	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.62	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.69	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.63	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.60	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.2	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.4	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.43	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.52	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.82	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	

Method Blank Summary

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2E8165-MB	2E162973.D	1	07/20/20	KC	n/a	n/a	V2E8165

The QC reported here applies to the following samples: **Method:** SW846 8260C

JD10241-1, JD10241-3, JD10241-4, JD10241-5, JD10241-6, JD10241-7, JD10241-9, JD10241-10, JD10241-11, JD10241-12

CAS No.	Compound	Result	RL	MDL	Units	Q
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.56	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.66	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.48	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	2.5	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.60	ug/l	
100-42-5	Styrene	ND	1.0	0.70	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.90	ug/l	
108-88-3	Toluene	ND	1.0	0.53	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.84	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	101%	80-120%
17060-07-0	1,2-Dichloroethane-D4	100%	81-124%
2037-26-5	Toluene-D8	99%	80-120%
460-00-4	4-Bromofluorobenzene	99%	80-120%

Method Blank Summary

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2E8165-MB	2E162973.D	1	07/20/20	KC	n/a	n/a	V2E8165

The QC reported here applies to the following samples: **Method:**

JD10241-1, JD10241-3, JD10241-4, JD10241-5, JD10241-6, JD10241-7, JD10241-9, JD10241-10, JD10241-11, JD10241-12

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Method Blank Summary

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V4D4597-MB	4D103629.D	1	07/27/20	KC	n/a	n/a	V4D4597

The QC reported here applies to the following samples: **Method:** SW846 8260C

JD10241-2, JD10241-6, JD10241-7, JD10241-8

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	6.0	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.55	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	6.9	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	0.52	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	0.62	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	0.69	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.76	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	0.63	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	0.60	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.2	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.4	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.54	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.43	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.52	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.82	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	

Method Blank Summary

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V4D4597-MB	4D103629.D	1	07/27/20	KC	n/a	n/a	V4D4597

The QC reported here applies to the following samples: **Method:** SW846 8260C

JD10241-2, JD10241-6, JD10241-7, JD10241-8

CAS No.	Compound	Result	RL	MDL	Units	Q
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.56	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	0.66	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
74-95-3	Methylene bromide	ND	1.0	0.48	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	2.5	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	0.60	ug/l	
100-42-5	Styrene	ND	1.0	0.70	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.60	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.90	ug/l	
108-88-3	Toluene	ND	1.0	0.53	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.84	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.70	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	102%	80-120%
17060-07-0	1,2-Dichloroethane-D4	89%	81-124%
2037-26-5	Toluene-D8	100%	80-120%
460-00-4	4-Bromofluorobenzene	96%	80-120%

Method Blank Summary

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V4D4597-MB	4D103629.D	1	07/27/20	KC	n/a	n/a	V4D4597

The QC reported here applies to the following samples: **Method:**

JD10241-2, JD10241-6, JD10241-7, JD10241-8

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Blank Spike Summary

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V4D4597-BS	4D103627.D	1	07/27/20	KC	n/a	n/a	V4D4597

The QC reported here applies to the following samples: **Method:** SW846 8260C

JD10241-2, JD10241-6, JD10241-7, JD10241-8

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	200	183	92	42-150
71-43-2	Benzene	50	46.7	93	80-120
108-86-1	Bromobenzene	50	49.9	100	82-118
74-97-5	Bromochloromethane	50	55.3	111	84-121
75-27-4	Bromodichloromethane	50	51.3	103	83-120
75-25-2	Bromoform	50	59.6	119	76-129
74-83-9	Bromomethane	50	35.0	70	57-138
78-93-3	2-Butanone (MEK)	200	207	104	64-137
104-51-8	n-Butylbenzene	50	48.0	96	81-123
135-98-8	sec-Butylbenzene	50	46.3	93	84-121
98-06-6	tert-Butylbenzene	50	48.0	96	83-122
56-23-5	Carbon tetrachloride	50	46.1	92	75-135
108-90-7	Chlorobenzene	50	49.5	99	84-117
75-00-3	Chloroethane	50	48.4	97	63-132
67-66-3	Chloroform	50	45.0	90	80-119
74-87-3	Chloromethane	50	39.4	79	46-136
95-49-8	o-Chlorotoluene	50	47.9	96	84-118
106-43-4	p-Chlorotoluene	50	46.1	92	83-116
96-12-8	1,2-Dibromo-3-chloropropane	50	54.2	108	72-127
124-48-1	Dibromochloromethane	50	56.7	113	80-123
106-93-4	1,2-Dibromoethane	50	66.0	132* [a]	84-117
95-50-1	1,2-Dichlorobenzene	50	50.6	101	84-119
541-73-1	1,3-Dichlorobenzene	50	49.0	98	81-117
106-46-7	1,4-Dichlorobenzene	50	49.4	99	82-117
75-71-8	Dichlorodifluoromethane	50	48.8	98	36-149
75-34-3	1,1-Dichloroethane	50	46.5	93	79-120
107-06-2	1,2-Dichloroethane	50	43.2	86	78-126
75-35-4	1,1-Dichloroethene	50	46.6	93	69-126
156-59-2	cis-1,2-Dichloroethene	50	49.9	100	80-120
156-60-5	trans-1,2-Dichloroethene	50	47.7	95	76-120
78-87-5	1,2-Dichloropropane	50	50.2	100	82-121
142-28-9	1,3-Dichloropropane	50	50.9	102	83-115
594-20-7	2,2-Dichloropropane	50	46.6	93	65-133
563-58-6	1,1-Dichloropropene	50	44.9	90	80-121
10061-01-5	cis-1,3-Dichloropropene	50	52.8	106	83-120
10061-02-6	trans-1,3-Dichloropropene	50	51.9	104	82-121

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V4D4597-BS	4D103627.D	1	07/27/20	KC	n/a	n/a	V4D4597

The QC reported here applies to the following samples: **Method:** SW846 8260C

JD10241-2, JD10241-6, JD10241-7, JD10241-8

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
100-41-4	Ethylbenzene	50	46.3	93	80-120
87-68-3	Hexachlorobutadiene	50	44.3	89	75-129
98-82-8	Isopropylbenzene	50	47.8	96	83-120
99-87-6	p-Isopropyltoluene	50	47.2	94	83-122
1634-04-4	Methyl Tert Butyl Ether	50	48.5	97	80-119
108-10-1	4-Methyl-2-pentanone(MIBK)	200	213	107	71-131
74-95-3	Methylene bromide	50	52.7	105	85-120
75-09-2	Methylene chloride	50	50.3	101	77-120
91-20-3	Naphthalene	50	50.1	100	73-131
103-65-1	n-Propylbenzene	50	44.7	89	82-119
100-42-5	Styrene	50	51.3	103	82-122
630-20-6	1,1,1,2-Tetrachloroethane	50	54.6	109	82-121
79-34-5	1,1,2,2-Tetrachloroethane	50	51.0	102	76-119
127-18-4	Tetrachloroethene	50	47.8	96	70-131
108-88-3	Toluene	50	47.0	94	80-120
87-61-6	1,2,3-Trichlorobenzene	50	51.4	103	76-134
120-82-1	1,2,4-Trichlorobenzene	50	52.4	105	79-132
71-55-6	1,1,1-Trichloroethane	50	46.0	92	81-128
79-00-5	1,1,2-Trichloroethane	50	54.1	108	83-118
79-01-6	Trichloroethene	50	50.8	102	80-120
75-69-4	Trichlorofluoromethane	50	44.9	90	64-136
96-18-4	1,2,3-Trichloropropane	50	50.6	101	79-120
95-63-6	1,2,4-Trimethylbenzene	50	46.3	93	84-120
108-67-8	1,3,5-Trimethylbenzene	50	46.2	92	83-119
75-01-4	Vinyl chloride	50	44.2	88	51-135
	m,p-Xylene	100	98.8	99	80-120
95-47-6	o-Xylene	50	49.4	99	80-120
1330-20-7	Xylene (total)	150	148	99	80-120

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	101%	80-120%
17060-07-0	1,2-Dichloroethane-D4	89%	81-124%
2037-26-5	Toluene-D8	98%	80-120%
460-00-4	4-Bromofluorobenzene	94%	80-120%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V4D4597-BS	4D103627.D	1	07/27/20	KC	n/a	n/a	V4D4597

The QC reported here applies to the following samples: **Method:** SW846 8260C

JD10241-2, JD10241-6, JD10241-7, JD10241-8

(a) High percent recovery and no associated positive reported in the QC batch.

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2E8165-BS	2E162970.D	1	07/20/20	KC	n/a	n/a	V2E8165
V2E8165-BSD	2E162971.D	1	07/20/20	KC	n/a	n/a	V2E8165

The QC reported here applies to the following samples: **Method:** SW846 8260C

JD10241-1, JD10241-3, JD10241-4, JD10241-5, JD10241-6, JD10241-7, JD10241-9, JD10241-10, JD10241-11, JD10241-12

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	200	192	96	187	94	3	42-150/22
71-43-2	Benzene	50	44.0	88	43.2	86	2	80-120/20
108-86-1	Bromobenzene	50	44.8	90	44.9	90	0	82-118/20
74-97-5	Bromochloromethane	50	47.1	94	46.3	93	2	84-121/20
75-27-4	Bromodichloromethane	50	45.5	91	45.3	91	0	83-120/20
75-25-2	Bromoform	50	51.5	103	50.9	102	1	76-129/20
74-83-9	Bromomethane	50	42.9	86	41.6	83	3	57-138/20
78-93-3	2-Butanone (MEK)	200	214	107	213	107	0	64-137/20
104-51-8	n-Butylbenzene	50	48.7	97	48.3	97	1	81-123/20
135-98-8	sec-Butylbenzene	50	45.4	91	45.5	91	0	84-121/20
98-06-6	tert-Butylbenzene	50	45.4	91	45.6	91	0	83-122/20
56-23-5	Carbon tetrachloride	50	45.8	92	44.7	89	2	75-135/20
108-90-7	Chlorobenzene	50	45.7	91	45.5	91	0	84-117/20
75-00-3	Chloroethane	50	40.6	81	39.8	80	2	63-132/20
67-66-3	Chloroform	50	44.0	88	43.2	86	2	80-119/20
74-87-3	Chloromethane	50	40.9	82	40.1	80	2	46-136/20
95-49-8	o-Chlorotoluene	50	45.1	90	45.6	91	1	84-118/20
106-43-4	p-Chlorotoluene	50	44.4	89	44.3	89	0	83-116/20
96-12-8	1,2-Dibromo-3-chloropropane	50	51.1	102	51.2	102	0	72-127/20
124-48-1	Dibromochloromethane	50	47.4	95	47.5	95	0	80-123/20
106-93-4	1,2-Dibromoethane	50	48.2	96	47.9	96	1	84-117/20
95-50-1	1,2-Dichlorobenzene	50	46.0	92	45.5	91	1	84-119/20
541-73-1	1,3-Dichlorobenzene	50	45.5	91	45.5	91	0	81-117/20
106-46-7	1,4-Dichlorobenzene	50	45.3	91	45.3	91	0	82-117/20
75-71-8	Dichlorodifluoromethane	50	42.2	84	40.4	81	4	36-149/20
75-34-3	1,1-Dichloroethane	50	45.2	90	44.3	89	2	79-120/20
107-06-2	1,2-Dichloroethane	50	44.8	90	44.3	89	1	78-126/20
75-35-4	1,1-Dichloroethene	50	44.3	89	42.9	86	3	69-126/20
156-59-2	cis-1,2-Dichloroethene	50	45.5	91	44.8	90	2	80-120/20
156-60-5	trans-1,2-Dichloroethene	50	45.0	90	44.5	89	1	76-120/20
78-87-5	1,2-Dichloropropane	50	45.6	91	45.2	90	1	82-121/20
142-28-9	1,3-Dichloropropane	50	45.9	92	45.8	92	0	83-115/20
594-20-7	2,2-Dichloropropane	50	42.3	85	40.6	81	4	65-133/20
563-58-6	1,1-Dichloropropene	50	45.3	91	44.1	88	3	80-121/20
10061-01-5	cis-1,3-Dichloropropene	50	47.2	94	46.5	93	1	83-120/20
10061-02-6	trans-1,3-Dichloropropene	50	47.9	96	47.9	96	0	82-121/20

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2E8165-BS	2E162970.D	1	07/20/20	KC	n/a	n/a	V2E8165
V2E8165-BSD	2E162971.D	1	07/20/20	KC	n/a	n/a	V2E8165

The QC reported here applies to the following samples: **Method:** SW846 8260C

JD10241-1, JD10241-3, JD10241-4, JD10241-5, JD10241-6, JD10241-7, JD10241-9, JD10241-10, JD10241-11, JD10241-12

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
100-41-4	Ethylbenzene	50	46.2	92	45.8	92	1	80-120/20
87-68-3	Hexachlorobutadiene	50	44.5	89	44.8	90	1	75-129/20
98-82-8	Isopropylbenzene	50	47.2	94	46.6	93	1	83-120/20
99-87-6	p-Isopropyltoluene	50	46.8	94	46.9	94	0	83-122/20
1634-04-4	Methyl Tert Butyl Ether	50	47.2	94	46.5	93	1	80-119/20
108-10-1	4-Methyl-2-pentanone(MIBK)	200	203	102	203	102	0	71-131/20
74-95-3	Methylene bromide	50	47.3	95	46.2	92	2	85-120/20
75-09-2	Methylene chloride	50	45.6	91	44.9	90	2	77-120/20
91-20-3	Naphthalene	50	54.7	109	54.6	109	0	73-131/20
103-65-1	n-Propylbenzene	50	45.2	90	45.2	90	0	82-119/20
100-42-5	Styrene	50	50.1	100	49.6	99	1	82-122/20
630-20-6	1,1,1,2-Tetrachloroethane	50	47.6	95	47.6	95	0	82-121/20
79-34-5	1,1,2,2-Tetrachloroethane	50	45.6	91	45.8	92	0	76-119/20
127-18-4	Tetrachloroethene	50	45.2	90	44.6	89	1	70-131/20
108-88-3	Toluene	50	45.8	92	45.6	91	0	80-120/20
87-61-6	1,2,3-Trichlorobenzene	50	52.2	104	53.2	106	2	76-134/20
120-82-1	1,2,4-Trichlorobenzene	50	52.6	105	52.4	105	0	79-132/20
71-55-6	1,1,1-Trichloroethane	50	45.9	92	44.6	89	3	81-128/20
79-00-5	1,1,2-Trichloroethane	50	46.6	93	46.3	93	1	83-118/20
79-01-6	Trichloroethene	50	45.8	92	45.0	90	2	80-120/20
75-69-4	Trichlorofluoromethane	50	43.8	88	42.6	85	3	64-136/20
96-18-4	1,2,3-Trichloropropane	50	46.9	94	47.9	96	2	79-120/20
95-63-6	1,2,4-Trimethylbenzene	50	47.1	94	46.6	93	1	84-120/20
108-67-8	1,3,5-Trimethylbenzene	50	45.7	91	46.1	92	1	83-119/20
75-01-4	Vinyl chloride	50	42.6	85	41.5	83	3	51-135/20
	m,p-Xylene	100	93.9	94	92.6	93	1	80-120/20
95-47-6	o-Xylene	50	46.7	93	46.1	92	1	80-120/20
1330-20-7	Xylene (total)	150	141	94	139	93	1	80-120/20

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	102%	102%	80-120%
17060-07-0	1,2-Dichloroethane-D4	99%	99%	81-124%
2037-26-5	Toluene-D8	99%	99%	80-120%
460-00-4	4-Bromofluorobenzene	97%	98%	80-120%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD10196-7MS	2E162980.D	10	07/20/20	KC	n/a	n/a	V2E8165
JD10196-7MSD	2E162981.D	10	07/20/20	KC	n/a	n/a	V2E8165
JD10196-7 [a]	2E162979.D	10	07/20/20	KC	n/a	n/a	V2E8165
JD10196-7	2E162978.D	100	07/20/20	KC	n/a	n/a	V2E8165

The QC reported here applies to the following samples: **Method:** SW846 8260C

JD10241-1, JD10241-3, JD10241-4, JD10241-5, JD10241-6, JD10241-7, JD10241-9, JD10241-10, JD10241-11, JD10241-12

CAS No.	Compound	JD10196-7 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		2000	1650	83	2000	1620	81	2	34-149/17
71-43-2	Benzene	ND		500	401	80	500	399	80	1	54-136/10
108-86-1	Bromobenzene	ND		500	416	83	500	424	85	2	78-122/11
74-97-5	Bromochloromethane	ND		500	430	86	500	425	85	1	79-124/11
75-27-4	Bromodichloromethane	ND		500	421	84	500	418	84	1	79-124/11
75-25-2	Bromoform	ND		500	474	95	500	470	94	1	71-130/11
74-83-9	Bromomethane	ND		500	399	80	500	387	77	3	53-142/14
78-93-3	2-Butanone (MEK)	ND		2000	1910	96	2000	1860	93	3	54-142/15
104-51-8	n-Butylbenzene	ND		500	412	82	500	429	86	4	73-133/12
135-98-8	sec-Butylbenzene	ND		500	394	79	500	414	83	5	76-132/12
98-06-6	tert-Butylbenzene	ND		500	400	80	500	419	84	5	76-131/12
56-23-5	Carbon tetrachloride	ND		500	388	78	500	392	78	1	70-143/12
108-90-7	Chlorobenzene	ND		500	420	84	500	423	85	1	78-123/10
75-00-3	Chloroethane	ND		500	371	74	500	364	73	2	57-141/14
67-66-3	Chloroform	ND		500	398	80	500	393	79	1	76-123/11
74-87-3	Chloromethane	ND		500	357	71	500	355	71	1	43-141/16
95-49-8	o-Chlorotoluene	ND		500	414	83	500	423	85	2	78-124/11
106-43-4	p-Chlorotoluene	ND		500	405	81	500	412	82	2	77-122/11
96-12-8	1,2-Dibromo-3-chloropropane	ND		500	460	92	500	471	94	2	66-130/13
124-48-1	Dibromochloromethane	ND		500	441	88	500	441	88	0	76-125/11
106-93-4	1,2-Dibromoethane	ND		500	446	89	500	441	88	1	78-119/11
95-50-1	1,2-Dichlorobenzene	ND		500	425	85	500	433	87	2	77-123/11
541-73-1	1,3-Dichlorobenzene	ND		500	418	84	500	427	85	2	76-122/11
106-46-7	1,4-Dichlorobenzene	ND		500	414	83	500	418	84	1	76-122/11
75-71-8	Dichlorodifluoromethane	ND		500	340	68	500	346	69	2	31-159/16
75-34-3	1,1-Dichloroethane	ND		500	408	82	500	405	81	1	73-126/11
107-06-2	1,2-Dichloroethane	ND		500	413	83	500	407	81	1	72-131/11
75-35-4	1,1-Dichloroethene	ND		500	374	75	500	382	76	2	63-136/14
156-59-2	cis-1,2-Dichloroethene	98.1		500	489	78	500	496	80	1	60-136/11
156-60-5	trans-1,2-Dichloroethene	ND		500	399	80	500	399	80	0	70-126/11
78-87-5	1,2-Dichloropropane	ND		500	417	83	500	416	83	0	78-124/10
142-28-9	1,3-Dichloropropane	ND		500	428	86	500	423	85	1	78-118/11
594-20-7	2,2-Dichloropropane	ND		500	371	74	500	363	73	2	59-141/14
563-58-6	1,1-Dichloropropene	ND		500	384	77	500	388	78	1	75-130/11
10061-01-5	cis-1,3-Dichloropropene	ND		500	423	85	500	429	86	1	79-123/11
10061-02-6	trans-1,3-Dichloropropene	ND		500	447	89	500	448	90	0	77-123/11

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD10196-7MS	2E162980.D	10	07/20/20	KC	n/a	n/a	V2E8165
JD10196-7MSD	2E162981.D	10	07/20/20	KC	n/a	n/a	V2E8165
JD10196-7 [a]	2E162979.D	10	07/20/20	KC	n/a	n/a	V2E8165
JD10196-7	2E162978.D	100	07/20/20	KC	n/a	n/a	V2E8165

The QC reported here applies to the following samples: **Method:** SW846 8260C

JD10241-1, JD10241-3, JD10241-4, JD10241-5, JD10241-6, JD10241-7, JD10241-9, JD10241-10, JD10241-11, JD10241-12

CAS No.	Compound	JD10196-7 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
100-41-4	Ethylbenzene	ND		500	419	84	500	420	84	0	51-140/20
87-68-3	Hexachlorobutadiene	ND		500	385	77	500	414	83	7	64-141/14
98-82-8	Isopropylbenzene	ND		500	418	84	500	424	85	1	75-129/11
99-87-6	p-Isopropyltoluene	ND		500	413	83	500	429	86	4	76-131/12
1634-04-4	Methyl Tert Butyl Ether	ND		500	431	86	500	426	85	1	72-123/11
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		2000	1820	91	2000	1820	91	0	66-136/13
74-95-3	Methylene bromide	ND		500	434	87	500	430	86	1	81-121/11
75-09-2	Methylene chloride	ND		500	417	83	500	413	83	1	73-125/13
91-20-3	Naphthalene	ND		500	500	100	500	511	102	2	62-141/13
103-65-1	n-Propylbenzene	ND		500	402	80	500	415	83	3	68-133/11
100-42-5	Styrene	ND		500	459	92	500	458	92	0	75-129/11
630-20-6	1,1,1,2-Tetrachloroethane	ND		500	437	87	500	438	88	0	77-124/11
79-34-5	1,1,2,2-Tetrachloroethane	ND		500	426	85	500	423	85	1	71-122/11
127-18-4	Tetrachloroethene	19.5		500	410	78	500	421	80	3	61-139/11
108-88-3	Toluene	ND		500	419	84	500	419	84	0	60-135/10
87-61-6	1,2,3-Trichlorobenzene	ND		500	481	96	500	495	99	3	70-138/13
120-82-1	1,2,4-Trichlorobenzene	ND		500	477	95	500	496	99	4	72-137/13
71-55-6	1,1,1-Trichloroethane	ND		500	394	79	500	394	79	0	74-138/12
79-00-5	1,1,2-Trichloroethane	ND		500	434	87	500	431	86	1	78-121/11
79-01-6	Trichloroethene	2300 [c]		500	2440	28* [b]	500	2520	44* [b]	3	62-141/10
75-69-4	Trichlorofluoromethane	ND		500	365	73	500	370	74	1	57-149/14
96-18-4	1,2,3-Trichloropropane	ND		500	436	87	500	434	87	0	74-122/11
95-63-6	1,2,4-Trimethylbenzene	ND		500	425	85	500	437	87	3	54-143/10
108-67-8	1,3,5-Trimethylbenzene	ND		500	418	84	500	427	85	2	67-133/11
75-01-4	Vinyl chloride	ND		500	362	72	500	366	73	1	43-146/15
	m,p-Xylene	ND		1000	853	85	1000	854	85	0	50-144/20
95-47-6	o-Xylene	ND		500	425	85	500	429	86	1	63-134/10
1330-20-7	Xylene (total)	ND		1500	1280	85	1500	1280	85	0	56-139/20

CAS No.	Surrogate Recoveries	MS	MSD	JD10196-7	JD10196-7	Limits
1868-53-7	Dibromofluoromethane	101%	100%	102%	101%	80-120%
17060-07-0	1,2-Dichloroethane-D4	99%	98%	101%	100%	81-124%
2037-26-5	Toluene-D8	100%	100%	98%	99%	80-120%
460-00-4	4-Bromofluorobenzene	97%	99%	100%	101%	80-120%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD10196-7MS	2E162980.D	10	07/20/20	KC	n/a	n/a	V2E8165
JD10196-7MSD	2E162981.D	10	07/20/20	KC	n/a	n/a	V2E8165
JD10196-7 [a]	2E162979.D	10	07/20/20	KC	n/a	n/a	V2E8165
JD10196-7	2E162978.D	100	07/20/20	KC	n/a	n/a	V2E8165

The QC reported here applies to the following samples: **Method:** SW846 8260C

JD10241-1, JD10241-3, JD10241-4, JD10241-5, JD10241-6, JD10241-7, JD10241-9, JD10241-10, JD10241-11, JD10241-12

(a) Dilution required due to high concentration of target compound.
(b) Outside control limits due to high level in sample relative to spike amount.
(c) Result is from Run #2.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD10241-2MS	4D103640.D	1	07/27/20	KC	n/a	n/a	V4D4597
JD10241-2MSD	4D103641.D	1	07/27/20	KC	n/a	n/a	V4D4597
JD10241-2	4D103630.D	1	07/27/20	KC	n/a	n/a	V4D4597

The QC reported here applies to the following samples: **Method:** SW846 8260C

JD10241-2, JD10241-6, JD10241-7, JD10241-8

CAS No.	Compound	JD10241-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		200	164	82	200	165	83	1	34-149/17
71-43-2	Benzene	ND		50	47.2	94	50	47.0	94	0	54-136/10
108-86-1	Bromobenzene	ND		50	46.2	92	50	46.3	93	0	78-122/11
74-97-5	Bromochloromethane	ND		50	52.3	105	50	52.2	104	0	79-124/11
75-27-4	Bromodichloromethane	ND		50	48.4	97	50	48.5	97	0	79-124/11
75-25-2	Bromoform	ND		50	50.7	101	50	50.7	101	0	71-130/11
74-83-9	Bromomethane	ND		50	33.4	67	50	41.0	82	20* [a]	53-142/14
78-93-3	2-Butanone (MEK)	ND		200	183	92	200	183	92	0	54-142/15
104-51-8	n-Butylbenzene	ND		50	48.4	97	50	49.1	98	1	73-133/12
135-98-8	sec-Butylbenzene	ND		50	46.9	94	50	47.8	96	2	76-132/12
98-06-6	tert-Butylbenzene	ND		50	47.9	96	50	48.2	96	1	76-131/12
56-23-5	Carbon tetrachloride	ND		50	49.5	99	50	49.4	99	0	70-143/12
108-90-7	Chlorobenzene	ND		50	47.4	95	50	47.5	95	0	78-123/10
75-00-3	Chloroethane	ND		50	59.5	119	50	54.5	109	9	57-141/14
67-66-3	Chloroform	ND		50	43.6	87	50	43.2	86	1	76-123/11
74-87-3	Chloromethane	ND		50	49.0	98	50	45.9	92	7	43-141/16
95-49-8	o-Chlorotoluene	ND		50	46.2	92	50	47.2	94	2	78-124/11
106-43-4	p-Chlorotoluene	ND		50	44.2	88	50	44.4	89	0	77-122/11
96-12-8	1,2-Dibromo-3-chloropropane	ND		50	46.9	94	50	47.4	95	1	66-130/13
124-48-1	Dibromochloromethane	ND		50	51.0	102	50	50.0	100	2	76-125/11
106-93-4	1,2-Dibromoethane	ND		50	59.9	120* [b]	50	58.0	116	3	78-119/11
95-50-1	1,2-Dichlorobenzene	ND		50	46.1	92	50	46.3	93	0	77-123/11
541-73-1	1,3-Dichlorobenzene	ND		50	45.8	92	50	46.0	92	0	76-122/11
106-46-7	1,4-Dichlorobenzene	ND		50	45.2	90	50	45.7	91	1	76-122/11
75-71-8	Dichlorodifluoromethane	ND		50	70.9	142	50	65.6	131	8	31-159/16
75-34-3	1,1-Dichloroethane	11.4		50	57.4	92	50	56.7	91	1	73-126/11
107-06-2	1,2-Dichloroethane	ND		50	39.0	78	50	38.9	78	0	72-131/11
75-35-4	1,1-Dichloroethene	0.74	J	50	49.6	98	50	50.0	99	1	63-136/14
156-59-2	cis-1,2-Dichloroethene	ND		50	50.9	102	50	50.8	102	0	60-136/11
156-60-5	trans-1,2-Dichloroethene	ND		50	49.0	98	50	49.2	98	0	70-126/11
78-87-5	1,2-Dichloropropane	ND		50	48.2	96	50	48.1	96	0	78-124/10
142-28-9	1,3-Dichloropropane	ND		50	45.5	91	50	44.9	90	1	78-118/11
594-20-7	2,2-Dichloropropane	ND		50	43.5	87	50	42.4	85	3	59-141/14
563-58-6	1,1-Dichloropropene	ND		50	47.6	95	50	47.6	95	0	75-130/11
10061-01-5	cis-1,3-Dichloropropene	ND		50	48.3	97	50	48.1	96	0	79-123/11
10061-02-6	trans-1,3-Dichloropropene	ND		50	45.0	90	50	45.0	90	0	77-123/11

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD10241-2MS	4D103640.D	1	07/27/20	KC	n/a	n/a	V4D4597
JD10241-2MSD	4D103641.D	1	07/27/20	KC	n/a	n/a	V4D4597
JD10241-2	4D103630.D	1	07/27/20	KC	n/a	n/a	V4D4597

The QC reported here applies to the following samples: **Method:** SW846 8260C

JD10241-2, JD10241-6, JD10241-7, JD10241-8

CAS No.	Compound	JD10241-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
100-41-4	Ethylbenzene	ND		50	46.7	93	50	46.2	92	1	51-140/20
87-68-3	Hexachlorobutadiene	ND		50	45.6	91	50	47.2	94	3	64-141/14
98-82-8	Isopropylbenzene	ND		50	48.3	97	50	48.3	97	0	75-129/11
99-87-6	p-Isopropyltoluene	ND		50	47.3	95	50	48.1	96	2	76-131/12
1634-04-4	Methyl Tert Butyl Ether	ND		50	43.8	88	50	44.0	88	0	72-123/11
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		200	187	94	200	188	94	1	66-136/13
74-95-3	Methylene bromide	ND		50	48.6	97	50	48.4	97	0	81-121/11
75-09-2	Methylene chloride	ND		50	47.4	95	50	47.9	96	1	73-125/13
91-20-3	Naphthalene	ND		50	44.6	89	50	45.9	92	3	62-141/13
103-65-1	n-Propylbenzene	ND		50	45.6	91	50	45.4	91	0	68-133/11
100-42-5	Styrene	ND		50	48.4	97	50	48.5	97	0	75-129/11
630-20-6	1,1,1,2-Tetrachloroethane	ND		50	50.9	102	50	50.3	101	1	77-124/11
79-34-5	1,1,2,2-Tetrachloroethane	ND		50	44.3	89	50	43.9	88	1	71-122/11
127-18-4	Tetrachloroethene	ND		50	49.5	99	50	49.4	99	0	61-139/11
108-88-3	Toluene	ND		50	47.7	95	50	46.9	94	2	60-135/10
87-61-6	1,2,3-Trichlorobenzene	ND		50	48.3	97	50	50.2	100	4	70-138/13
120-82-1	1,2,4-Trichlorobenzene	ND		50	48.4	97	50	49.3	99	2	72-137/13
71-55-6	1,1,1-Trichloroethane	2.6		50	51.0	97	50	51.1	97	0	74-138/12
79-00-5	1,1,2-Trichloroethane	ND		50	48.3	97	50	48.1	96	0	78-121/11
79-01-6	Trichloroethene	ND		50	52.9	106	50	52.9	106	0	62-141/10
75-69-4	Trichlorofluoromethane	ND		50	59.4	119	50	54.8	110	8	57-149/14
96-18-4	1,2,3-Trichloropropane	ND		50	42.8	86	50	42.7	85	0	74-122/11
95-63-6	1,2,4-Trimethylbenzene	ND		50	47.1	94	50	45.9	92	3	54-143/10
108-67-8	1,3,5-Trimethylbenzene	ND		50	46.4	93	50	46.1	92	1	67-133/11
75-01-4	Vinyl chloride	0.88	J	50	59.4	117	50	54.5	107	9	43-146/15
	m,p-Xylene	ND		100	98.9	99	100	97.6	98	1	50-144/20
95-47-6	o-Xylene	ND		50	48.4	97	50	47.7	95	1	63-134/10
1330-20-7	Xylene (total)	ND		150	147	98	150	145	97	1	56-139/20

CAS No.	Surrogate Recoveries	MS	MSD	JD10241-2	Limits
1868-53-7	Dibromofluoromethane	102%	103%	103%	80-120%
17060-07-0	1,2-Dichloroethane-D4	87%	89%	92%	81-124%
2037-26-5	Toluene-D8	96%	96%	100%	80-120%
460-00-4	4-Bromofluorobenzene	95%	96%	96%	80-120%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD10241-2MS	4D103640.D	1	07/27/20	KC	n/a	n/a	V4D4597
JD10241-2MSD	4D103641.D	1	07/27/20	KC	n/a	n/a	V4D4597
JD10241-2	4D103630.D	1	07/27/20	KC	n/a	n/a	V4D4597

The QC reported here applies to the following samples: **Method:** SW846 8260C

JD10241-2, JD10241-6, JD10241-7, JD10241-8

(a) Outside control limits due to matrix interference.
(b) Outside in house control limits.

* = Outside of Control Limits.

Instrument Performance Check (BFB)

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample: V2E8157-BFB
Lab File ID: 2E162815.D
Instrument ID: GCMS2E
Injection Date: 07/14/20
Injection Time: 17:48

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	18733	18.2		Pass
75	30.0 - 60.0% of mass 95	49488	48.1		Pass
95	Base peak, 100% relative abundance	102965	100.0		Pass
96	5.0 - 9.0% of mass 95	7136	6.93		Pass
173	Less than 2.0% of mass 174	599	0.58	(0.76) [a]	Pass
174	50.0 - 120.0% of mass 95	78920	76.6		Pass
175	5.0 - 9.0% of mass 174	6023	5.85	(7.63) [a]	Pass
176	95.0 - 101.0% of mass 174	75560	73.4	(95.7) [a]	Pass
177	5.0 - 9.0% of mass 176	5239	5.09	(6.93) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V2E8157-IC8157	2E162816.D	07/14/20	18:33	00:45	Initial cal 0.2
V2E8157-IC8157	2E162817.D	07/14/20	19:03	01:15	Initial cal 0.5
V2E8157-IC8157	2E162818.D	07/14/20	19:33	01:45	Initial cal 1
V2E8157-IC8157	2E162819.D	07/14/20	20:03	02:15	Initial cal 2
V2E8157-IC8157	2E162820.D	07/14/20	20:32	02:44	Initial cal 4
V2E8157-IC8157	2E162821.D	07/14/20	21:03	03:15	Initial cal 8
V2E8157-IC8157	2E162822.D	07/14/20	21:33	03:45	Initial cal 20
V2E8157-ICC8157	2E162823.D	07/14/20	22:03	04:15	Initial cal 50
V2E8157-IC8157	2E162824.D	07/14/20	22:33	04:45	Initial cal 100
V2E8157-IC8157	2E162825.D	07/14/20	23:03	05:15	Initial cal 200
V2E8157-ICV8157	2E162828.D	07/15/20	00:33	06:45	Initial cal verification 50
V2E8157-ICV8157	2E162829.D	07/15/20	01:03	07:15	Initial cal verification 50

Instrument Performance Check (BFB)

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample: V2E8157-BFB2
Lab File ID: 2E162833.D
Instrument ID: GCMS2E
Injection Date: 07/15/20
Injection Time: 11:51

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	18957	17.6		Pass
75	30.0 - 60.0% of mass 95	50368	46.7		Pass
95	Base peak, 100% relative abundance	107877	100.0		Pass
96	5.0 - 9.0% of mass 95	7900	7.32		Pass
173	Less than 2.0% of mass 174	526	0.49	(0.64) [a]	Pass
174	50.0 - 120.0% of mass 95	82547	76.5		Pass
175	5.0 - 9.0% of mass 174	6005	5.57	(7.27) [a]	Pass
176	95.0 - 101.0% of mass 174	79341	73.5	(96.1) [a]	Pass
177	5.0 - 9.0% of mass 176	5226	4.84	(6.59) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V2E8157-ICV8157	2E162834.D	07/15/20	12:22	00:31	Initial cal verification 50

Instrument Performance Check (BFB)

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample: V2E8165-BFB
Lab File ID: 2E162969.D
Instrument ID: GCMS2E
Injection Date: 07/20/20
Injection Time: 11:05

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	16362	16.8		Pass
75	30.0 - 60.0% of mass 95	45477	46.7		Pass
95	Base peak, 100% relative abundance	97384	100.0		Pass
96	5.0 - 9.0% of mass 95	6706	6.89		Pass
173	Less than 2.0% of mass 174	338	0.35	(0.44) [a]	Pass
174	50.0 - 120.0% of mass 95	77029	79.1		Pass
175	5.0 - 9.0% of mass 174	5527	5.68	(7.18) [a]	Pass
176	95.0 - 101.0% of mass 174	73595	75.6	(95.5) [a]	Pass
177	5.0 - 9.0% of mass 176	4930	5.06	(6.70) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V2E8165-CC8157	2E162969.D	07/20/20	11:05	00:00	Continuing cal 20
V2E8165-BS	2E162970.D	07/20/20	11:42	00:37	Blank Spike
V2E8165-BSD	2E162971.D	07/20/20	12:12	01:07	Blank Spike Duplicate
V2E8165-MB	2E162973.D	07/20/20	13:12	02:07	Method Blank
ZZZZZZ	2E162974.D	07/20/20	13:51	02:46	(unrelated sample)
ZZZZZZ	2E162975.D	07/20/20	14:20	03:15	(unrelated sample)
ZZZZZZ	2E162976.D	07/20/20	14:50	03:45	(unrelated sample)
ZZZZZZ	2E162977.D	07/20/20	15:20	04:15	(unrelated sample)
JD10196-7	2E162978.D	07/20/20	15:50	04:45	(used for QC only; not part of job JD10241)
JD10196-7	2E162979.D	07/20/20	16:20	05:15	(used for QC only; not part of job JD10241)
JD10196-7MS	2E162980.D	07/20/20	16:50	05:45	Matrix Spike
JD10196-7MSD	2E162981.D	07/20/20	17:20	06:15	Matrix Spike Duplicate
JD10241-10	2E162983.D	07/20/20	18:20	07:15	CC1TB01T0720
JD10241-11	2E162984.D	07/20/20	18:50	07:45	CC1FB01F0720
JD10241-1	2E162985.D	07/20/20	19:20	08:15	CC1MW01G0720
JD10241-3	2E162986.D	07/20/20	19:50	08:45	CC1MW107G0720
JD10241-4	2E162987.D	07/20/20	20:20	09:15	CC1MW107H0720
JD10241-6	2E162988.D	07/20/20	20:50	09:45	CC1MWSB2G0720
JD10241-9	2E162989.D	07/20/20	21:19	10:14	CC1IDW01Z0720
JD10241-12	2E162990.D	07/20/20	21:49	10:44	CC1IDW02Z0720
JD10241-5	2E162991.D	07/20/20	22:19	11:14	CC1MW13DG0720
JD10241-7	2E162992.D	07/20/20	22:49	11:44	CC1STSW0720

Instrument Performance Check (BFB)

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample: V4D4496-BFB
Lab File ID: 4D101403.D
Instrument ID: GCMS4D
Injection Date: 04/16/20
Injection Time: 15:37

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	14.99 - 40.0% of mass 95	11366	16.9		Pass
75	30.0 - 60.0% of mass 95	31219	46.4		Pass
95	Base peak, 100% relative abundance	67261	100.0		Pass
96	5.0 - 9.0% of mass 95	4551	6.77		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	61328	91.2		Pass
175	5.0 - 9.0% of mass 174	4897	7.28	(7.98) [a]	Pass
176	95.0 - 101.0% of mass 174	59496	88.5	(97.0) [a]	Pass
177	5.0 - 9.0% of mass 176	3966	5.90	(6.67) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V4D4496-IC4496	4D101404.D	04/16/20	16:32	00:55	Initial cal 0.2
V4D4496-IC4496	4D101405.D	04/16/20	17:01	01:24	Initial cal 0.5
V4D4496-IC4496	4D101406.D	04/16/20	17:29	01:52	Initial cal 1
V4D4496-IC4496	4D101407.D	04/16/20	17:58	02:21	Initial cal 2
V4D4496-IC4496	4D101408.D	04/16/20	18:27	02:50	Initial cal 4
V4D4496-IC4496	4D101409.D	04/16/20	18:55	03:18	Initial cal 8
V4D4496-IC4496	4D101410.D	04/16/20	19:23	03:46	Initial cal 20
V4D4496-ICC4496	4D101411.D	04/16/20	19:52	04:15	Initial cal 50
V4D4496-IC4496	4D101412.D	04/16/20	20:21	04:44	Initial cal 100
V4D4496-IC4496	4D101413.D	04/16/20	20:49	05:12	Initial cal 200
V4D4496-ICV4496	4D101416.D	04/16/20	22:15	06:38	Initial cal verification 50
V4D4496-ICV4496	4D101417.D	04/16/20	22:44	07:07	Initial cal verification 50

Instrument Performance Check (BFB)

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample: V4D4597-BFB
Lab File ID: 4D103625.D
Instrument ID: GCMS4D
Injection Date: 07/27/20
Injection Time: 08:27

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	14.99 - 40.0% of mass 95	10266	15.0		Pass
75	30.0 - 60.0% of mass 95	29096	42.6		Pass
95	Base peak, 100% relative abundance	68379	100.0		Pass
96	5.0 - 9.0% of mass 95	4516	6.60		Pass
173	Less than 2.0% of mass 174	483	0.71	(0.77) [a]	Pass
174	50.0 - 120.0% of mass 95	62989	92.1		Pass
175	5.0 - 9.0% of mass 174	4779	6.99	(7.59) [a]	Pass
176	95.0 - 101.0% of mass 174	60512	88.5	(96.1) [a]	Pass
177	5.0 - 9.0% of mass 176	4122	6.03	(6.81) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V4D4597-CC4496	4D103625.D	07/27/20	08:27	00:00	Continuing cal 20
V4D4597-BS	4D103627.D	07/27/20	09:35	01:08	Blank Spike
V4D4597-MB	4D103629.D	07/27/20	10:33	02:06	Method Blank
JD10241-2	4D103630.D	07/27/20	11:13	02:46	CC1MW106G0720
JD10241-7	4D103631.D	07/27/20	11:42	03:15	CC1STSW0720
JD10241-8	4D103632.D	07/27/20	12:11	03:44	CC1SDSW0720
JD10241-6	4D103633.D	07/27/20	12:41	04:14	CC1MWSB2G0720
ZZZZZZ	4D103634.D	07/27/20	13:10	04:43	(unrelated sample)
ZZZZZZ	4D103635.D	07/27/20	13:40	05:13	(unrelated sample)
ZZZZZZ	4D103636.D	07/27/20	14:09	05:42	(unrelated sample)
ZZZZZZ	4D103637.D	07/27/20	14:39	06:12	(unrelated sample)
ZZZZZZ	4D103638.D	07/27/20	15:08	06:41	(unrelated sample)
ZZZZZZ	4D103639.D	07/27/20	15:38	07:11	(unrelated sample)
JD10241-2MS	4D103640.D	07/27/20	16:08	07:41	Matrix Spike
JD10241-2MSD	4D103641.D	07/27/20	16:37	08:10	Matrix Spike Duplicate
ZZZZZZ	4D103643.D	07/27/20	17:37	09:10	(unrelated sample)
ZZZZZZ	4D103644.D	07/27/20	18:06	09:39	(unrelated sample)
ZZZZZZ	4D103645.D	07/27/20	18:36	10:09	(unrelated sample)
ZZZZZZ	4D103646.D	07/27/20	19:06	10:39	(unrelated sample)
ZZZZZZ	4D103647.D	07/27/20	19:35	11:08	(unrelated sample)
ZZZZZZ	4D103648.D	07/27/20	20:05	11:38	(unrelated sample)

Internal Standard Area Summary

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Check Std:	V2E8165-CC8157	**Injection Date:**	07/20/20
Lab File ID:	2E162969.D	**Injection Time:**	11:05
Instrument ID:	GCMS2E	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	129757	7.30	239256	9.53	356773	10.44	292613	13.59	148260	15.88
Upper Limit [a]	259514	7.80	478512	10.03	713546	10.94	585226	14.09	296520	16.38
Lower Limit [b]	64879	6.80	119628	9.03	178387	9.94	146307	13.09	74130	15.38

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
V2E8165-BS	131659	7.30	233528	9.53	354036	10.45	288902	13.58	149914	15.88
V2E8165-BSD	132835	7.30	241296	9.53	362101	10.45	292629	13.59	148877	15.88
V2E8165-MB	142560	7.30	250948	9.53	377299	10.45	305676	13.59	150471	15.88
ZZZZZZ	130779	7.29	246805	9.53	373604	10.45	306144	13.59	149642	15.88
ZZZZZZ	117411	7.30	252642	9.53	377337	10.45	311058	13.59	152434	15.88
ZZZZZZ	119965	7.30	245061	9.53	369189	10.45	298362	13.59	148593	15.88
ZZZZZZ	195050	7.30	248008	9.53	370353	10.45	309317	13.59	151472	15.88
JD10196-7	117286	7.30	247075	9.53	370675	10.45	303338	13.59	147776	15.88
JD10196-7	116506	7.30	243514	9.53	364579	10.45	297680	13.59	145373	15.88
JD10196-7MS	109889	7.29	238713	9.53	356594	10.44	287012	13.59	148214	15.88
JD10196-7MSD	116971	7.29	244392	9.52	362281	10.44	292026	13.58	147880	15.88
JD10241-10	140881	7.30	249603	9.53	373456	10.45	305096	13.58	149437	15.88
JD10241-11	137491	7.30	247671	9.53	370015	10.45	302608	13.59	146571	15.88
JD10241-1	126362	7.29	246504	9.52	369296	10.45	302246	13.59	152517	15.88
JD10241-3	113752	7.30	250194	9.53	370307	10.45	303776	13.59	150462	15.88
JD10241-4	111378	7.30	244083	9.53	363684	10.45	293796	13.59	146248	15.88
JD10241-6	130409	7.30	243999	9.53	365670	10.45	297749	13.59	147837	15.88
JD10241-9	110090	7.29	243373	9.53	361128	10.44	295840	13.59	145510	15.88
JD10241-12	110856	7.29	241322	9.53	360679	10.44	295265	13.59	145045	15.88
JD10241-5 [c]	105813	7.30	241546	9.53	359689	10.44	295573	13.59	145415	15.88
JD10241-7	106875	7.30	248532	9.53	368814	10.45	304958	13.59	150057	15.88

IS 1 = Tert Butyl Alcohol-D9
IS 2 = Pentafluorobenzene
IS 3 = 1,4-Difluorobenzene
IS 4 = Chlorobenzene-D5
IS 5 = 1,4-Dichlorobenzene-d4

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(c) Dilution required due to high concentration of target compound.

Internal Standard Area Summary

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Check Std:	V4D4597-CC4496	**Injection Date:**	07/27/20
Lab File ID:	4D103625.D	**Injection Time:**	08:27
Instrument ID:	GCMS4D	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	196595	8.64	241013	11.13	339426	12.02	258033	14.91	116909	17.02
Upper Limit [a]	393190	9.14	482026	11.63	678852	12.52	516066	15.41	233818	17.52
Lower Limit [b]	98298	8.14	120507	10.63	169713	11.52	129017	14.41	58455	16.52

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
V4D4597-BS	192039	8.64	228869	11.13	324490	12.02	251323	14.91	115580	17.02
V4D4597-MB	200864	8.64	239625	11.13	344778	12.02	259053	14.91	115082	17.01
JD10241-2	207665	8.63	233933	11.13	338439	12.02	254334	14.91	113344	17.02
JD10241-7	207962	8.63	222703	11.13	324983	12.02	246817	14.91	110642	17.02
JD10241-8	201184	8.64	218839	11.13	322005	12.02	241388	14.91	108599	17.02
JD10241-6	203057	8.64	219416	11.13	323631	12.02	244686	14.91	108566	17.02
ZZZZZZ	203828	8.64	195432	11.13	288287	12.02	224312	14.91	103081	17.02
ZZZZZZ	207723	8.64	211854	11.13	312033	12.02	243793	14.91	109148	17.02
ZZZZZZ	223448	8.64	224202	11.13	320159	12.02	250800	14.91	114868	17.02
ZZZZZZ	215282	8.64	223604	11.13	327566	12.02	256621	14.91	112613	17.02
ZZZZZZ	222719	8.64	230175	11.13	336252	12.02	270436	14.91	120799	17.02
ZZZZZZ	227946	8.64	229437	11.13	336515	12.02	267670	14.91	121156	17.02
JD10241-2MS	219251	8.64	240289	11.13	344190	12.02	271500	14.91	124378	17.01
JD10241-2MSD	220772	8.65	238607	11.13	342515	12.02	272879	14.91	125086	17.02
ZZZZZZ	212937	8.64	247656	11.13	359312	12.02	278740	14.91	124162	17.02
ZZZZZZ	209627	8.64	245746	11.13	354603	12.02	272816	14.91	122954	17.02
ZZZZZZ	217308	8.64	241531	11.13	349511	12.02	270926	14.91	121950	17.02
ZZZZZZ	223935	8.64	236936	11.13	343543	12.02	266321	14.91	120492	17.02
ZZZZZZ	204695	8.63	234041	11.13	334409	12.02	260026	14.91	116673	17.02
ZZZZZZ	213740	8.64	227459	11.13	332063	12.02	254584	14.91	114145	17.02

IS 1 = Tert Butyl Alcohol-D9
IS 2 = Pentafluorobenzene
IS 3 = 1,4-Difluorobenzene
IS 4 = Chlorobenzene-D5
IS 5 = 1,4-Dichlorobenzene-d4

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Surrogate Recovery Summary

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Method: SW846 8260C **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JD10241-1	2E162985.D	101	100	98	98
JD10241-2	4D103630.D	103	92	100	96
JD10241-3	2E162986.D	99	101	98	100
JD10241-4	2E162987.D	100	101	100	98
JD10241-5	2E162991.D	101	100	99	99
JD10241-6	2E162988.D	100	99	99	100
JD10241-6	4D103633.D	107	98	99	97
JD10241-7	4D103631.D	104	95	100	96
JD10241-7	2E162992.D	99	100	98	99
JD10241-8	4D103632.D	106	95	100	95
JD10241-9	2E162989.D	101	100	98	99
JD10241-10	2E162983.D	101	100	99	100
JD10241-11	2E162984.D	100	99	99	100
JD10241-12	2E162990.D	100	101	99	99
JD10196-7MS	2E162980.D	101	99	100	97
JD10196-7MSD	2E162981.D	100	98	100	99
JD10241-2MS	4D103640.D	102	87	96	95
JD10241-2MSD	4D103641.D	103	89	96	96
V2E8165-BS	2E162970.D	102	99	99	97
V2E8165-BSD	2E162971.D	102	99	99	98
V2E8165-MB	2E162973.D	101	100	99	99
V4D4597-BS	4D103627.D	101	89	98	94
V4D4597-MB	4D103629.D	102	89	100	96

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	80-120%
S2 = 1,2-Dichloroethane-D4	81-124%
S3 = Toluene-D8	80-120%
S4 = 4-Bromofluorobenzene	80-120%

Initial Calibration Summary

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample: V2E8157-ICC8157
Lab FileID: 2E162823.D

Response Factor Report VOAMS2E

Method : C:\MSDCHEM\1\METHODS\M2E8157.M (RTE Integrator)
Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
Last Update : Thu Jul 16 11:01:59 2020
Response via : Initial Calibration

Calibration Files
4 =2E162820.D 2 =2E162819.D 0.5 =2E162817.D 50 =2E162823.D
100 =2E162824.D 1 =2E162818.D 200 =2E162825.D 20 =2E162822.D
8 =2E162821.D 0.2 =2E162816.D = =

Compound	4	2	0.5	50	100	1	200	20	8	0.2	Avg	%RSD
1) I tert butyl alcohol-d9	----------ISTD----------											
2) ethanol	0.145	0.164	0.135	0.134	0.166	0.126	0.135	0.139			0.143	10.22
3) tertiary butyl alcohol	1.639	1.841	1.737	1.476	1.452	1.941	1.405	1.562	1.611	1.778	1.644	10.80
4) 1,4-dioxane	0.105	0.127	0.110	0.114		0.109	0.111	0.113			0.113	6.17
5) I pentafluorobenzene	----------ISTD----------											
6) chlorodifluoromethane	1.049	1.119	0.993	1.040	1.033	1.094	0.918	1.050	1.021	1.108	1.042	5.68
7) dichlorodifluoromethane	1.057	1.094	1.016	1.147	1.075	1.112	1.038	1.099	1.075		1.079	3.67
8) chloromethane	1.151	1.216	1.163	1.120	1.421	1.092	1.137	1.135			1.179	8.83
9) vinyl chloride	1.037	1.064	1.006	1.089	1.055	1.140	1.019	1.058	1.059	0.967	1.049	4.49
10) bromomethane	0.617	0.663	0.609	0.577	0.711	0.531	0.599	0.610			0.615	8.76
11) chloroethane	0.559	0.606	0.646	0.591	0.563	0.656	0.531	0.568	0.578	0.690	0.599	8.39
12) trichlorofluoromethane	1.005	1.065	1.026	1.060	1.035	1.139	1.006	1.023	1.026		1.043	3.99
13) 1,3-butadiene	0.777	0.847	0.754	0.802	0.794	0.841	0.692	0.784	0.757	0.816	0.786	5.82
14) vinyl bromide	0.389	0.408	0.405	0.417	0.409	0.469	0.394	0.398	0.395	0.409	0.409	5.54
15) ethyl ether	0.374	0.407	0.403	0.379	0.377	0.397	0.360	0.377	0.371		0.383	4.14
16) acrolein	0.125	0.126	0.128	0.122	0.131	0.116	0.124	0.125			0.125	3.66
17) freon 113	0.488	0.531	0.451	0.501	0.496	0.532	0.473	0.491	0.485		0.494	5.19
18) 1,1-dichloroethene	1.023	1.101	0.956	1.018	1.016	1.057	0.964	1.000	0.974	0.918	1.003	5.28
19) acetone	0.161	0.194	0.159	0.153	0.195	0.147	0.161	0.159			0.166	11.03
20) acetonitrile	0.094	0.108	0.086	0.082		0.078	0.087	0.088			0.089	10.99
21) iodomethane	0.970	1.084	1.070	1.056	1.020	1.073	0.953	1.034	1.002	1.053	1.031	4.35
22) carbon disulfide	1.784	1.909	1.695	1.811	1.805	1.861	1.696	1.767	1.718	1.903	1.795	4.39
23) methylene chloride												

	0.709	0.757	0.738	0.693	0.681	0.747	0.653	0.693	0.674	0.709	0.705	4.74
24)	methyl acetate											
	0.502	0.577	0.532	0.488	0.475	0.543	0.465	0.488	0.487		0.506	7.26
25)	methyl tert butyl ether											
	1.768	1.848	1.714	1.810	1.805	1.829	1.738	1.758	1.687	1.929	1.789	3.97
26)	trans-1,2-dichloroethene											
	0.993	1.050	0.932	0.986	0.978	0.989	0.942	0.974	0.958	0.961	0.976	3.37
27)	hexane											
	0.520	0.556	0.532	0.530	0.531	0.553	0.507	0.520	0.511	0.460	0.522	5.19
28)	di-isopropyl ether											
	2.281	2.483	2.267	2.420	2.396	2.330	2.282	2.366	2.292	2.344	2.346	3.01
29)	ethyl tert-butyl ether											
	2.147	2.317	2.094	2.241	2.227	2.251	2.123	2.187	2.116	2.139	2.184	3.31
30)	2-butanone											
	0.057	0.062		0.065	0.064	0.050	0.062	0.064	0.062		0.061	8.19
31)	1,1-dichloroethane											
	1.246	1.334	1.230	1.224	1.214	1.258	1.132	1.242	1.197	1.194	1.227	4.22
32)	chloroprene											
	0.914	0.953	0.919	0.985	0.998	0.909	0.969	0.956	0.907		0.946	3.66
33)	acrylonitrile											
	0.242	0.256	0.218	0.242	0.239	0.255	0.229	0.240	0.229		0.239	5.07
34)	vinyl acetate											
	0.110	0.105		0.140	0.139		0.132	0.130	0.113		0.124	11.76
35)	ethyl acetate											
	0.086	0.089		0.103	0.100	0.090	0.097	0.102	0.100		0.096	7.04
36)	2,2-dichloropropane											
	0.904	0.996	0.981	0.895	0.871	1.007	0.825	0.894	0.884	1.127	0.938	9.44
37)	cis-1,2-dichloroethene											
	0.704	0.790	0.727	0.698	0.690	0.744	0.655	0.701	0.669	0.699	0.708	5.41
38)	propionitrile											
	0.088	0.096		0.087	0.083	0.095	0.079	0.086	0.087		0.088	6.49
39)	methyl acrylate											
	0.074	0.061		0.088	0.083		0.082	0.082	0.073		0.078	11.53
40)	bromochloromethane											
	0.318	0.351	0.310	0.325	0.320	0.329	0.308	0.312	0.310	0.341	0.322	4.50
41)	tetrahydrofuran											
	0.079	0.085		0.076	0.077	0.075	0.072	0.075	0.075		0.077	5.14
42)	chloroform											
	1.122	1.217	1.210	1.079	1.067	1.215	1.028	1.077	1.056	1.337	1.141	8.69
43)	t-butyl formate											
	0.461	0.497		0.559	0.578		0.572	0.511	0.460		0.520	9.71
44)	1,1-dichloropropene											
	0.899	0.981	0.813	0.901	0.899	0.945	0.868	0.887	0.875	0.877	0.894	5.03
45)	carbon tetrachloride											
	0.802	0.859	0.754	0.829	0.833	0.836	0.807	0.809	0.798	0.792	0.812	3.55
46)	isopropyl acetate											
	0.135	0.142		0.139	0.140	0.107	0.137	0.138	0.129		0.134	8.49
47)	dibromofluoromethane (s)											
	0.498	0.499	0.496	0.498	0.504	0.500	0.496	0.500	0.497	0.500	0.499	0.51
48)	methacrylonitrile											
	0.236	0.239	0.172	0.245	0.242	0.225	0.237	0.236	0.238		0.230	9.69
49)	1,1,1-trichloroethane											
	0.965	1.009	0.940	0.967	0.969	0.956	0.942	0.949	0.930	0.876	0.950	3.60
50)	cyclohexane											
	1.003	1.047	0.987	1.101	1.071	1.136	1.046	1.042	1.021	0.981	1.043	4.72
51)	iso-butyl alcohol											
	0.025	0.030	0.029	0.025	0.024	0.028	0.023	0.025	0.023		0.026	9.00
52)	tert amyl alcohol											
	0.030	0.036		0.030	0.029	0.035	0.027	0.031	0.030		0.031	9.29

Initial Calibration Summary

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample: V2E8157-ICC8157
Lab FileID: 2E162823.D

53) I 1,4-difluorobenzene ----------ISTD----------
54) 1,2-dichloroethane-d4 (s)
0.378 0.384 0.379 0.378 0.373 0.383 0.374 0.381 0.379 0.382 0.379 0.92
55) 2,2,4-trimethylpentane
1.596 1.714 1.579 1.723 1.667 1.656 1.594 1.640 1.628 1.525 1.632 3.76
56) n-butyl alcohol
0.010 0.011 0.012 0.011 0.009 0.010 0.011 0.010 0.011 6.87
57) benzene
1.793 1.922 1.885 1.775 1.717 1.912 1.626 1.769 1.750 1.971 1.812 5.93
58) tert-amyl methyl ether
1.386 1.492 1.338 1.397 1.355 1.417 1.285 1.389 1.350 1.425 1.383 4.06
59) heptane
0.318 0.320 0.274 0.334 0.330 0.338 0.325 0.321 0.319 0.280 0.316 6.81
60) 1,2-dichloroethane
0.554 0.606 0.592 0.538 0.526 0.609 0.509 0.538 0.534 0.556 6.64
61) ethyl acrylate
0.452 0.467 0.505 0.502 0.452 0.495 0.478 0.452 0.475 4.80
62) trichloroethene
0.423 0.446 0.386 0.422 0.416 0.432 0.405 0.419 0.414 0.388 0.415 4.41
63) 2-nitropropane
0.127 0.135 0.112 0.126 0.126 0.146 0.125 0.125 0.124 0.127 7.22
64) 2-chloroethyl vinyl ether
0.228 0.227 0.185 0.245 0.238 0.215 0.228 0.238 0.231 0.188 0.222 9.24
65) methyl methacrylate
0.085 0.087 0.103 0.101 0.100 0.097 0.092 0.095 7.27
66) 1,2-dichloropropane
0.487 0.504 0.436 0.476 0.467 0.458 0.450 0.474 0.469 0.480 0.470 4.07
67) methylcyclohexane
0.811 0.869 0.787 0.861 0.838 0.807 0.810 0.826 0.794 0.823 3.46
68) dibromomethane
0.242 0.259 0.223 0.244 0.237 0.242 0.231 0.244 0.237 0.247 0.241 3.94
69) bromodichloromethane
0.513 0.560 0.534 0.546 0.546 0.566 0.540 0.536 0.526 0.590 0.546 4.01
70) epichlorohydrin
0.039 0.040 0.039 0.038 0.037 0.037 0.039 0.039 0.039 2.32
71) cis-1,3-dichloropropene
0.677 0.726 0.636 0.720 0.711 0.677 0.698 0.692 0.672 0.668 0.688 3.98
72) 4-methyl-2-pentanone
0.153 0.156 0.134 0.158 0.152 0.145 0.144 0.154 0.153 0.127 0.147 6.81
73) 3-methyl-1-butanol
0.010 0.010 0.011 0.010 0.009 0.009 0.011 0.010 0.010 7.60

74) I chlorobenzene-d5 ----------ISTD----------
75) toluene-d8 (s)
1.589 1.588 1.568 1.580 1.588 1.583 1.597 1.605 1.572 1.578 1.585 0.71
76) toluene
1.251 1.325 1.123 1.255 1.245 1.256 1.214 1.251 1.230 1.245 1.239 4.04
77) ethyl methacrylate
0.537 0.554 0.623 0.630 0.502 0.616 0.589 0.545 0.575 8.13
78) trans-1,3-dichloropropene
0.671 0.739 0.633 0.744 0.735 0.677 0.716 0.720 0.690 0.703 5.34
79) 1,1,2-trichloroethane
0.363 0.404 0.348 0.358 0.354 0.381 0.350 0.356 0.353 0.340 0.361 5.18
80) tetrachloroethene
0.412 0.446 0.379 0.403 0.398 0.419 0.383 0.407 0.395 0.405 4.99
81) 2-hexanone
0.153 0.157 0.175 0.169 0.132 0.158 0.169 0.156 0.159 8.29
82) 1,3-dichloropropane
0.758 0.797 0.731 0.744 0.719 0.774 0.682 0.744 0.738 0.729 0.742 4.22
83) butyl acetate

Initial Calibration Summary

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample: V2E8157-ICC8157
Lab FileID: 2E162823.D

```
      0.328 0.331 0.259 0.341 0.336 0.278 0.325 0.333 0.315        0.316    9.03
 84)  dibromochloromethane
      0.415 0.462 0.478 0.460 0.467 0.444 0.467 0.445 0.412 0.454  0.450    4.88
 85)  1,2-dibromoethane
      0.528 0.565 0.532 0.552 0.545 0.531 0.537 0.535 0.537        0.540    2.17
 86)  n-butyl ether
      2.131 2.224 1.911 2.361 2.345 2.091 2.261 2.288 2.160        2.197    6.44
 87)  chlorobenzene
      1.312 1.405 1.276 1.305 1.288 1.317 1.252 1.305 1.274 1.296  1.303    3.14
 88)  1,1,1,2-tetrachloroethane
      0.443 0.474 0.439 0.460 0.459 0.437 0.445 0.458 0.446 0.425  0.449    3.17
 89)  ethylbenzene
      2.259 2.346 2.068 2.265 2.244 2.279 2.135 2.262 2.211 2.097  2.217    4.00
 90)  m,p-xylene
      0.856 0.879 0.810 0.865 0.854 0.815 0.805 0.867 0.838 0.775  0.836    4.01
 91)  o-xylene
      1.794 1.860 1.656 1.836 1.806 1.780 1.718 1.832 1.785 1.689  1.776    3.77
 92)  styrene
      1.264 1.287 1.136 1.403 1.400 1.219 1.325 1.387 1.289 1.161  1.287    7.39
 93)  butyl acrylate
      0.768 0.791       0.950 0.981       0.975 0.879 0.796        0.877   10.56
 94)  bromoform
      0.253 0.268 0.251 0.286 0.294 0.243 0.296 0.269 0.255 0.239  0.265    7.80
 95)  isopropylbenzene
      2.124 2.198 1.842 2.220 2.209 2.033 2.133 2.196 2.104 1.948  2.101    5.95
 96)  cis-1,4-dichloro-2-butene
      0.159 0.155 0.183 0.187 0.192 0.160 0.192 0.175 0.160        0.174    8.89

 97) I   1,4-dichlorobenzene-d ----------------ISTD---------------------
 98)  4-bromofluorobenzene (s)
      1.124 1.133 1.137 1.114 1.114 1.145 1.123 1.137 1.126 1.141  1.129    0.96
 99)  bromobenzene
      1.062 1.130 1.101 1.049 1.026 1.131 0.985 1.059 1.032 1.087  1.066    4.39
100)  1,1,2,2-tetrachloroethane
      1.027 1.135 1.119 1.042 1.005 1.059 0.979 1.039 1.034 1.084  1.052    4.61
101)  trans-1,4-dichloro-2-butene
      0.245 0.292 0.249 0.283 0.283 0.239 0.280 0.268 0.255        0.266    7.29
102)  1,2,3-trichloropropane
      0.276 0.298 0.263 0.280 0.269 0.301 0.257 0.277 0.281        0.278    5.28
103)  n-propylbenzene
      4.969 5.288 4.778 5.044 4.907 4.990 4.577 5.071 4.979 4.874  4.948    3.79
104)  2-chlorotoluene
      1.029 1.130 0.933 1.008 0.984 1.063 0.919 1.021 1.014 0.901  1.000    6.97
105)  4-chlorotoluene
      3.028 3.240 3.110 3.017 2.973 3.046 2.863 3.013 3.016 3.117  3.042    3.26
106)  1,3,5-trimethylbenzene
      3.491 3.733 3.158 3.624 3.530 3.491 3.330 3.639 3.522 3.206  3.472    5.39
107)  tert-butylbenzene
      2.968 3.121       3.181 3.100 2.950 2.962 3.111 2.983        3.047    2.97
108)  1,2,4-trimethylbenzene
      3.434 3.562 3.190 3.596 3.536 3.294 3.365 3.595 3.504 3.112  3.419    5.06
109)  sec-butylbenzene
      4.300 4.578 3.803 4.564 4.411 4.410 4.200 4.490 4.399 4.083  4.324    5.53
110)  1,3-dichlorobenzene
      1.924 2.051 1.951 1.917 1.908 1.937 1.843 1.913 1.915 1.885  1.924    2.77
111)  p-isopropyltoluene
      3.529 3.708 3.182 3.806 3.723 3.415 3.565 3.736 3.590 3.425  3.568    5.31
112)  1,4-dichlorobenzene
      1.928 2.154 1.960 1.946 1.925 2.091 1.872 1.922 1.892 2.094  1.978    4.94
113)  1,2-dichlorobenzene
```

Initial Calibration Summary

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY
Sample: V2E8157-ICC8157
Lab FileID: 2E162823.D

```
       1.875 1.983 1.897 1.912 1.876 1.873 1.815 1.897 1.868 2.009  1.901    2.99
114)  n-butylbenzene
       1.731 1.812 1.520 1.906 1.885 1.679 1.800 1.858 1.774        1.774    6.74
115)  1,2-dibromo-3-chloropropane
       0.189 0.212 0.190 0.219 0.220 0.199 0.214 0.211 0.200        0.206    5.70
116)  1,3,5-trichlorobenzene
       1.494 1.595 1.504 1.640 1.618 1.548 1.532 1.575 1.516 1.637  1.566    3.52
117)  1,2,4-trichlorobenzene
       1.180 1.246 1.169 1.402 1.398 1.117 1.317 1.307 1.214 1.245  1.260    7.60
118)  2-ethylhexyl acrylate
                     0.774 0.862       0.947 0.549 0.457        0.718   28.98
             ----- Linear regression -----  Coefficient =  0.9954
               Response Ratio = -0.02119 + 0.94017 *A

119)  hexachlorobutadiene
       0.682 0.731 0.621 0.719 0.705 0.711 0.675 0.697 0.683 0.655  0.688    4.74
120)  naphthalene
       2.633 2.655       3.167 3.099 2.395 2.902 2.989 2.731        2.821    9.32
121)  1,2,3-trichlorobenzene
       1.097 1.179 1.030 1.283 1.248 1.142 1.187 1.212 1.162 1.144  1.169    6.22
122)  hexachloroethane
       0.543 0.607 0.475 0.626 0.635 0.535 0.633 0.580 0.563        0.577    9.32
123)  benzyl chloride
       1.575 1.742 1.658 1.836 1.838 1.639 1.794 1.741 1.627 1.771  1.722    5.34
124)  2-methylnaphthalene
                     1.410 1.490       1.470 1.164 0.935        1.294   18.50
125)  Bis(chloromethyl)ether
                                                                0.000#  -1.00
126)  Ethylenimine
                                                                0.000#  -1.00

127) I   pentafluorobenzene(a) ----------------ISTD---------------------
128)  freon 142B
       0.698 0.701       0.697 0.715 0.678 0.689 0.688 0.643        0.689    3.12
129)  allyl chloride
       0.354 0.373       0.350 0.370 0.332 0.360 0.350 0.334        0.353    4.23

130) I   1,4-dichlorobenzene-d ---------------ISTD---------------------
131)  4-ethyltoluene
       3.662 3.682       3.855 3.942 3.358 3.692 3.760 3.523        3.684    4.97
132)  pentachloroethane
       0.557 0.560       0.615 0.648 0.608 0.636 0.575 0.558        0.595    6.18
133)  1,4-diethylbenzene
       1.902 1.835       2.092 2.157 1.806 2.044 2.021 1.849        1.963    6.73
134)  1,2,4,5-tetramethylbenzene
       3.125 3.090       3.521 3.610 2.935 3.392 3.392 3.124        3.274    7.26
 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          M2E8157.M         Thu Jul 16 12:13:31 2020
```

Initial Calibration Verification

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample: V2E8157-ICV8157
Lab FileID: 2E162828.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\V2E8157\2E162828.D Vial: 15
Acq On : 15 Jul 2020 12:33 am Operator: brittank
Sample : icv8157-50 Inst : VOAMS2E
Misc : MS44041,V2E8157,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M2E8157.M (RTE Integrator)
Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
Last Update : Wed Jul 15 11:31:23 2020
Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	tert butyl alcohol-d9	1.000	1.000	0.0	100	0.00	7.29
2		ethanol	0.143	0.121	15.4	90	-0.01	6.04
3	M	tertiary butyl alcohol	1.644	1.363	17.1	93	-0.01	7.40
4		1,4-dioxane	0.113	0.098	13.3	90	0.00	11.16
5	I	pentafluorobenzene	1.000	1.000	0.0	104	0.00	9.52
6		chlorodifluoromethane		----------NA----------				
7	M	dichlorodifluoromethane	1.079	0.758	29.7	69	0.00	3.97
8	M	chloromethane	1.179	0.943	20.0	85	-0.02	4.36
9	M	vinyl chloride	1.049	0.921	12.2	88	-0.01	4.59
10	M	bromomethane	0.615	0.540	12.2	92	-0.01	5.22
11	M	chloroethane	0.599	0.524	12.5	92	0.00	5.37
12	M	trichlorofluoromethane	1.043	0.952	8.7	94	-0.02	5.82
13		1,3-butadiene	0.786	0.746	5.1	97	-0.01	4.62
14		vinyl bromide	0.409	0.410	-0.2	102	-0.01	5.71
15	M	ethyl ether	0.383	0.358	6.5	98	0.00	6.21
16	M	acrolein	0.125	0.116	7.2	94	-0.01	6.46
17		freon 113	0.494	0.471	4.7	98	-0.01	6.60
18	M	1,1-dichloroethene	1.003	0.877	12.6	90	0.00	6.63
19	M	acetone	0.166	0.147	11.4	96	0.00	6.67
20		acetonitrile	0.089	0.070	21.3	85	-0.01	7.10
21	M	iodomethane	1.031	0.902	12.5	89	0.00	6.91
22	M	carbon disulfide	1.795	1.986	-10.6	114	-0.01	7.03
23	M	methylene chloride	0.705	0.642	8.9	97	0.00	7.34
24	M	methyl acetate	0.506	0.435	14.0	93	0.00	7.13
25	M	methyl tert butyl ether	1.789	1.727	3.5	100	0.00	7.67
26	M	trans-1,2-dichloroethene	0.976	0.911	6.7	96	0.00	7.71
27		hexane	0.522	0.546	-4.6	107	0.00	8.01
28	M	di-isopropyl ether	2.346	2.170	7.5	93	0.00	8.25
29	M	ethyl tert-butyl ether	2.184	1.990	8.9	93	0.00	8.72
30	M	2-butanone	0.061	0.065	-6.6	104	0.00	8.97
31	M	1,1-dichloroethane	1.227	1.168	4.8	99	0.00	8.27
32	M	chloroprene	0.946	0.961	-1.6	102	0.00	8.38
33	M	acrylonitrile	0.239	0.249	-4.2	107	0.00	7.66
34	M	vinyl acetate	0.124	0.123	0.8	91	0.00	8.26
35	M	ethyl acetate	0.096	0.095	1.0	96	0.00	9.00
36	M	2,2-dichloropropane	0.938	0.790	15.8	92	0.00	9.01
37	M	cis-1,2-dichloroethene	0.708	0.646	8.8	96	0.00	9.01
38	M	propionitrile	0.088	0.084	4.5	101	0.00	9.07
39		methyl acrylate	0.078	0.082	-5.1	97	-0.01	9.07
40	M	bromochloromethane	0.322	0.312	3.1	100	0.00	9.32
41	M	tetrahydrofuran	0.077	0.074	3.9	103	0.00	9.37

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Sample: V2E8157-ICV8157
Lab FileID: 2E162828.D

42	M	chloroform	1.141	1.020	10.6	99	0.00	9.38
43		t-butyl formate	0.520	0.440	15.4	82	0.00	9.41
44		1,1-dichloropropene	0.894	0.855	4.4	99	0.00	9.81
45		carbon tetrachloride	0.812	0.780	3.9	98	0.00	9.84
46		isopropyl acetate	0.134	0.127	5.2	95	0.00	9.99
47	S	dibromofluoromethane (s)	0.499	0.488	2.2	102	0.00	9.58
48	M	methacrylonitrile	0.230	0.242	-5.2	103	0.00	9.26
49	M	1,1,1-trichloroethane	0.950	0.901	5.2	97	0.00	9.63
50		cyclohexane	1.043	1.075	-3.1	102	0.00	9.71
51		iso-butyl alcohol	0.026	0.024	7.7	97	0.00	9.81
52		tert amyl alcohol	0.031	0.029	6.5	100	0.00	9.94
53	I	1,4-difluorobenzene	1.000	1.000	0.0	104	0.00	10.44
54	S	1,2-dichloroethane-d4 (s)	0.379	0.375	1.1	103	0.00	9.99
55		2,2,4-trimethylpentane	1.632	1.564	4.2	94	0.00	10.07
56	M	n-butyl alcohol	0.011	0.010	9.1	91	0.00	10.57
57	M	benzene	1.812	1.682	7.2	99	0.00	10.07
58		tert-amyl methyl ether	1.383	1.222	11.6	91	0.00	10.10
59	M	heptane	0.316	0.318	-0.6	99	0.00	10.24
60	M	1,2-dichloroethane	0.556	0.519	6.7	100	0.00	10.08
61		ethyl acrylate	0.475	0.473	0.4	98	0.00	10.79
62	M	trichloroethene	0.415	0.409	1.4	101	0.00	10.79
63	M	2-nitropropane	0.127	0.125	1.6	103	0.00	11.55
64	M	2-chloroethyl vinyl ether	0.222	0.229	-3.2	97	0.00	11.57
65	M	methyl methacrylate	0.095	0.101	-6.3	102	0.00	11.05
66	M	1,2-dichloropropane	0.470	0.450	4.3	98	0.00	11.05
67	M	methylcyclohexane	0.823	0.802	2.6	97	0.00	11.01
68	M	dibromomethane	0.241	0.228	5.4	97	0.00	11.21
69	M	bromodichloromethane	0.546	0.507	7.1	97	0.00	11.34
70		epichlorohydrin	0.039	0.038	2.6	101	0.00	11.69
71	M	cis-1,3-dichloropropene	0.688	0.670	2.6	97	0.00	11.79
72	M	4-methyl-2-pentanone	0.147	0.150	-2.0	99	0.00	11.88
73	M	3-methyl-1-butanol	0.010	0.011	-10.0	99	0.00	11.90
74	I	chlorobenzene-d5	1.000	1.000	0.0	102	0.00	13.58
75	S	toluene-d8 (s)	1.585	1.591	-0.4	103	0.00	12.08
76		toluene	1.239	1.218	1.7	99	0.00	12.15
77		ethyl methacrylate	0.575	0.621	-8.0	102	0.00	12.34
78		trans-1,3-dichloropropene	0.703	0.724	-3.0	100	0.00	12.35
79		1,1,2-trichloroethane	0.361	0.348	3.6	99	0.00	12.56
80	M	tetrachloroethene	0.405	0.401	1.0	102	0.00	12.74
81		2-hexanone	0.159	0.166	-4.4	97	0.00	12.73
82	M	1,3-dichloropropane	0.742	0.715	3.6	98	0.00	12.74
83	M	butyl acetate	0.316	0.326	-3.2	98	0.00	12.80
84	M	dibromochloromethane	0.450	0.463	-2.9	103	0.00	13.01
85	M	1,2-dibromoethane	0.540	0.554	-2.6	103	0.00	13.16
86		n-butyl ether	2.197	2.269	-3.3	98	0.00	13.53
87	M	chlorobenzene	1.303	1.269	2.6	99	0.00	13.61
88	M	1,1,1,2-tetrachloroethane	0.449	0.448	0.2	100	0.00	13.67
89	M	ethylbenzene	2.217	2.195	1.0	99	0.00	13.67
90	M	m,p-xylene	0.836	0.841	-0.6	99	0.00	13.77
91	M	o-xylene	1.776	1.774	0.1	99	0.00	14.19
92	M	styrene	1.287	1.370	-6.4	100	0.00	14.20
93		butyl acrylate	0.877	0.915	-4.3	99	0.00	14.02
94	M	bromoform	0.265	0.295	-11.3	106	0.00	14.46
95		isopropylbenzene	2.101	2.134	-1.6	98	0.00	14.53
96		cis-1,4-dichloro-2-butene	0.174	0.189	-8.6	103	0.00	14.60
97	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	105	0.00	15.88
98	S	4-bromofluorobenzene (s)	1.129	1.109	1.8	104	0.00	14.73

Initial Calibration Verification

Job Number: JD10241
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Project: Former Carlysle Compressor, Syracuse, NY

Sample: V2E8157-ICV8157
Lab FileID: 2E162828.D

99	M	bromobenzene	1.066	1.004	5.8	100	0.00	14.92
100	M	1,1,2,2-tetrachloroethane	1.052	0.975	7.3	98	0.00	14.83
101	M	trans-1,4-dichloro-2-bute	0.266	0.275	-3.4	102	0.00	14.87
102	M	1,2,3-trichloropropane	0.278	0.263	5.4	98	0.00	14.90
103	M	n-propylbenzene	4.948	4.771	3.6	99	0.00	14.93
104	M	2-chlorotoluene	1.000	0.929	7.1	97	0.00	15.08
105	M	4-chlorotoluene	3.042	2.917	4.1	101	0.00	15.18
106	M	1,3,5-trimethylbenzene	3.472	3.391	2.3	98	0.00	15.09
107	M	tert-butylbenzene	3.047	2.975	2.4	98	0.00	15.43
108	M	1,2,4-trimethylbenzene	3.419	3.451	-0.9	101	0.00	15.47
109	M	sec-butylbenzene	4.324	4.249	1.7	98	0.00	15.64
110	M	1,3-dichlorobenzene	1.924	1.875	2.5	103	0.00	15.82
111	M	p-isopropyltoluene	3.568	3.596	-0.8	99	0.00	15.76
112	M	1,4-dichlorobenzene	1.978	1.883	4.8	101	0.00	15.91
113	M	1,2-dichlorobenzene	1.901	1.834	3.5	101	0.00	16.29
114	M	n-butylbenzene	1.774	1.786	-0.7	98	0.00	16.16
115	M	1,2-dibromo-3-chloropropa	0.206	0.205	0.5	98	0.00	17.01
116		1,3,5-trichlorobenzene	1.566	1.576	-0.6	101	0.00	17.18
117	M	1,2,4-trichlorobenzene	1.260	1.320	-4.8	99	0.00	17.76
			True	Calc.	% Drift			
118		2-ethylhexyl acrylate	10.000	9.284	7.2	104	0.00	17.73
			AvgRF	CCRF	% Dev			
119	M	hexachlorobutadiene	0.688	0.662	3.8	97	0.00	17.86
120	M	naphthalene	2.821	3.019	-7.0	100	0.00	18.01
121	M	1,2,3-trichlorobenzene	1.169	1.198	-2.5	98	0.00	18.24
122	M	hexachloroethane	0.577	0.603	-4.5	101	0.00	16.54
123		benzyl chloride	1.722	1.358	21.1	78	0.00	16.02
124		2-methylnaphthalene	1.294	1.435	-10.9	107	0.00	19.10
125		Bis(chloromethyl)ether		----------NA----------				
126		Ethylenimine		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2E162823.D M2E8157.M Wed Jul 15 11:53:25 2020

Initial Calibration Verification

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample: V2E8157-ICV8157
Lab FileID: 2E162829.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\V2E8157\2E162829.D Vial: 16
Acq On : 15 Jul 2020 1:03 am Operator: brittank
Sample : icv8157-50 Inst : VOAMS2E
Misc : MS44041,V2E8157,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M2E8157.M (RTE Integrator)
Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
Last Update : Wed Jul 15 11:31:23 2020
Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	tert butyl alcohol-d9	1.000	1.000	0.0	108	0.00	7.29
2		ethanol		----------NA----------				
3	M	tertiary butyl alcohol		----------NA----------				
4		1,4-dioxane		----------NA----------				
5	I	pentafluorobenzene	1.000	1.000	0.0	107	0.00	9.53
6		chlorodifluoromethane		----------NA----------				
7	M	dichlorodifluoromethane		----------NA----------				
8	M	chloromethane		----------NA----------				
9	M	vinyl chloride		----------NA----------				
10	M	bromomethane		----------NA----------				
11	M	chloroethane		----------NA----------				
12	M	trichlorofluoromethane		----------NA----------				
13		1,3-butadiene		----------NA----------				
14		vinyl bromide		----------NA----------				
15	M	ethyl ether		----------NA----------				
16	M	acrolein		----------NA----------				
17		freon 113		----------NA----------				
18	M	1,1-dichloroethene		----------NA----------				
19	M	acetone		----------NA----------				
20		acetonitrile	0.089	0.084	5.6	104	0.00	7.10
21	M	iodomethane		----------NA----------				
22	M	carbon disulfide		----------NA----------				
23	M	methylene chloride		----------NA----------				
24	M	methyl acetate		----------NA----------				
25	M	methyl tert butyl ether		----------NA----------				
26	M	trans-1,2-dichloroethene		----------NA----------				
27		hexane		----------NA----------				
28	M	di-isopropyl ether		----------NA----------				
29	M	ethyl tert-butyl ether		----------NA----------				
30	M	2-butanone		----------NA----------				
31	M	1,1-dichloroethane		----------NA----------				
32	M	chloroprene		----------NA----------				
33	M	acrylonitrile	0.239	0.238	0.4	106	0.00	7.66
34	M	vinyl acetate		----------NA----------				
35	M	ethyl acetate		----------NA----------				
36	M	2,2-dichloropropane		----------NA----------				
37	M	cis-1,2-dichloroethene		----------NA----------				
38	M	propionitrile		----------NA----------				
39		methyl acrylate		----------NA----------				
40	M	bromochloromethane		----------NA----------				
41	M	tetrahydrofuran		----------NA----------				

Initial Calibration Verification

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample: V2E8157-ICV8157
Lab FileID: 2E162829.D

42	M	chloroform		----------NA----------				
43		t-butyl formate		----------NA----------				
44		1,1-dichloropropene		----------NA----------				
45		carbon tetrachloride		----------NA----------				
46		isopropyl acetate		----------NA----------				
47	S	dibromofluoromethane (s)	0.499	0.489	2.0	105	0.00	9.58
48	M	methacrylonitrile		----------NA----------				
49	M	1,1,1-trichloroethane		----------NA----------				
50		cyclohexane		----------NA----------				
51		iso-butyl alcohol		----------NA----------				
52		tert amyl alcohol		----------NA----------				
53	I	1,4-difluorobenzene	1.000	1.000	0.0	106	0.00	10.45
54	S	1,2-dichloroethane-d4 (s)	0.379	0.383	-1.1	108	0.00	9.99
55		2,2,4-trimethylpentane		----------NA----------				
56	M	n-butyl alcohol		----------NA----------				
57	M	benzene		----------NA----------				
58		tert-amyl methyl ether		----------NA----------				
59	M	heptane		----------NA----------				
60	M	1,2-dichloroethane		----------NA----------				
61		ethyl acrylate		----------NA----------				
62	M	trichloroethene		----------NA----------				
63	M	2-nitropropane		----------NA----------				
64	M	2-chloroethyl vinyl ether		----------NA----------				
65	M	methyl methacrylate		----------NA----------				
66	M	1,2-dichloropropane		----------NA----------				
67	M	methylcyclohexane		----------NA----------				
68	M	dibromomethane		----------NA----------				
69	M	bromodichloromethane		----------NA----------				
70		epichlorohydrin		----------NA----------				
71	M	cis-1,3-dichloropropene		----------NA----------				
72	M	4-methyl-2-pentanone		----------NA----------				
73	M	3-methyl-1-butanol		----------NA----------				
74	I	chlorobenzene-d5	1.000	1.000	0.0	105	0.00	13.59
75	S	toluene-d8 (s)	1.585	1.569	1.0	105	0.00	12.08
76		toluene		----------NA----------				
77		ethyl methacrylate		----------NA----------				
78		trans-1,3-dichloropropene		----------NA----------				
79		1,1,2-trichloroethane		----------NA----------				
80	M	tetrachloroethene	0.405	0.400	1.2	105	0.00	12.74
81		2-hexanone		----------NA----------				
82	M	1,3-dichloropropane		----------NA----------				
83	M	butyl acetate		----------NA----------				
84	M	dibromochloromethane		----------NA----------				
85	M	1,2-dibromoethane		----------NA----------				
86		n-butyl ether		----------NA----------				
87	M	chlorobenzene		----------NA----------				
88	M	1,1,1,2-tetrachloroethane		----------NA----------				
89	M	ethylbenzene		----------NA----------				
90	M	m,p-xylene		----------NA----------				
91	M	o-xylene		----------NA----------				
92	M	styrene		----------NA----------				
93		butyl acrylate		----------NA----------				
94	M	bromoform		----------NA----------				
95		isopropylbenzene		----------NA----------				
96		cis-1,4-dichloro-2-butene		----------NA----------				
97	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	103	0.00	15.88
98	S	4-bromofluorobenzene (s)	1.129	1.148	-1.7	106	0.00	14.73

Initial Calibration Verification

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample: V2E8157-ICV8157
Lab FileID: 2E162829.D

```
 99 M   bromobenzene                        ----------NA----------
100 M   1,1,2,2-tetrachloroethane           ----------NA----------
101 M   trans-1,4-dichloro-2-bute           ----------NA----------
102 M   1,2,3-trichloropropane              ----------NA----------
103 M   n-propylbenzene                     ----------NA----------
104 M   2-chlorotoluene                     ----------NA----------
105 M   4-chlorotoluene                     ----------NA----------
106 M   1,3,5-trimethylbenzene              ----------NA----------
107 M   tert-butylbenzene                   ----------NA----------
108 M   1,2,4-trimethylbenzene              ----------NA----------
109 M   sec-butylbenzene                    ----------NA----------
110 M   1,3-dichlorobenzene                 ----------NA----------
111 M   p-isopropyltoluene                  ----------NA----------
112 M   1,4-dichlorobenzene                 ----------NA----------
113 M   1,2-dichlorobenzene                 ----------NA----------
114 M   n-butylbenzene                      ----------NA----------
115 M   1,2-dibromo-3-chloropropa           ----------NA----------
116     1,3,5-trichlorobenzene              ----------NA----------
117 M   1,2,4-trichlorobenzene              ----------NA----------

            ----------------------- True    Calc.   % Drift  ------------
118     2-ethylhexyl acrylate               ----------NA----------

            ----------------------- AvgRF   CCRF     % Dev   -------------
119 M   hexachlorobutadiene                ----------NA----------
120 M   naphthalene                         ----------NA----------
121 M   1,2,3-trichlorobenzene              ----------NA----------
122 M   hexachloroethane                    ----------NA----------
123     benzyl chloride                     ----------NA----------
124     2-methylnaphthalene                 ----------NA----------
125     Bis(chloromethyl)ether              ----------NA----------
126     Ethylenimine                        ----------NA----------
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    (#) = Out of Range              SPCC's out = 0  CCC's out = 0
     2E162823.D M2E8157.M        Wed Jul 15 11:53:28 2020
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Initial Calibration Verification

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample: V2E8157-ICV8157
Lab FileID: 2E162834.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\V2E8157\2E162834.D Vial: 21
Acq On : 15 Jul 2020 12:22 pm Operator: brittank
Sample : icv8157-50 Inst : VOAMS2E
Misc : MS44041,V2E8157,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M2E8157.M (RTE Integrator)
Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
Last Update : Wed Jul 15 11:31:23 2020
Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	tert butyl alcohol-d9	1.000	1.000	0.0	107	0.00	7.30
2		ethanol		----------NA----------				
3	M	tertiary butyl alcohol		----------NA----------				
4		1,4-dioxane		----------NA----------				
5	I	pentafluorobenzene	1.000	1.000	0.0	101	0.00	9.53
6		chlorodifluoromethane	1.042	1.116	-7.1	109	0.00	4.00
7	M	dichlorodifluoromethane		----------NA----------				
8	M	chloromethane		----------NA----------				
9	M	vinyl chloride		----------NA----------				
10	M	bromomethane		----------NA----------				
11	M	chloroethane		----------NA----------				
12	M	trichlorofluoromethane		----------NA----------				
13		1,3-butadiene		----------NA----------				
14		vinyl bromide		----------NA----------				
15	M	ethyl ether		----------NA----------				
16	M	acrolein		----------NA----------				
17		freon 113		----------NA----------				
18	M	1,1-dichloroethene		----------NA----------				
19	M	acetone		----------NA----------				
20		acetonitrile		----------NA----------				
21	M	iodomethane		----------NA----------				
22	M	carbon disulfide		----------NA----------				
23	M	methylene chloride		----------NA----------				
24	M	methyl acetate		----------NA----------				
25	M	methyl tert butyl ether		----------NA----------				
26	M	trans-1,2-dichloroethene		----------NA----------				
27		hexane		----------NA----------				
28	M	di-isopropyl ether		----------NA----------				
29	M	ethyl tert-butyl ether		----------NA----------				
30	M	2-butanone		----------NA----------				
31	M	1,1-dichloroethane		----------NA----------				
32	M	chloroprene		----------NA----------				
33	M	acrylonitrile		----------NA----------				
34	M	vinyl acetate		----------NA----------				
35	M	ethyl acetate		----------NA----------				
36	M	2,2-dichloropropane		----------NA----------				
37	M	cis-1,2-dichloroethene		----------NA----------				
38	M	propionitrile		----------NA----------				
39		methyl acrylate		----------NA----------				
40	M	bromochloromethane		----------NA----------				
41	M	tetrahydrofuran		----------NA----------				

Initial Calibration Verification

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample: V2E8157-ICV8157
Lab FileID: 2E162834.D

42	M	chloroform		----------NA----------					
43		t-butyl formate		----------NA----------					
44		1,1-dichloropropene		----------NA----------					
45		carbon tetrachloride		----------NA----------					
46		isopropyl acetate		----------NA----------					
47	S	dibromofluoromethane (s)	0.499	0.497	0.4	101	0.00	9.58	
48	M	methacrylonitrile		----------NA----------					
49	M	1,1,1-trichloroethane		----------NA----------					
50		cyclohexane		----------NA----------					
51		iso-butyl alcohol		----------NA----------					
52		tert amyl alcohol		----------NA----------					
53	I	1,4-difluorobenzene	1.000	1.000	0.0	102	0.00	10.45	
54	S	1,2-dichloroethane-d4 (s)	0.379	0.385	-1.6	103	0.00	9.99	
55		2,2,4-trimethylpentane		----------NA----------					
56	M	n-butyl alcohol		----------NA----------					
57	M	benzene		----------NA----------					
58		tert-amyl methyl ether		----------NA----------					
59	M	heptane		----------NA----------					
60	M	1,2-dichloroethane		----------NA----------					
61		ethyl acrylate		----------NA----------					
62	M	trichloroethene		----------NA----------					
63	M	2-nitropropane		----------NA----------					
64	M	2-chloroethyl vinyl ether		----------NA----------					
65	M	methyl methacrylate		----------NA----------					
66	M	1,2-dichloropropane		----------NA----------					
67	M	methylcyclohexane		----------NA----------					
68	M	dibromomethane		----------NA----------					
69	M	bromodichloromethane		----------NA----------					
70		epichlorohydrin		----------NA----------					
71	M	cis-1,3-dichloropropene		----------NA----------					
72	M	4-methyl-2-pentanone		----------NA----------					
73	M	3-methyl-1-butanol		----------NA----------					
74	I	chlorobenzene-d5	1.000	1.000	0.0	101	0.00	13.59	
75	S	toluene-d8 (s)	1.585	1.589	-0.3	102	0.00	12.08	
76		toluene		----------NA----------					
77		ethyl methacrylate		----------NA----------					
78		trans-1,3-dichloropropene		----------NA----------					
79		1,1,2-trichloroethane		----------NA----------					
80	M	tetrachloroethene		----------NA----------					
81		2-hexanone		----------NA----------					
82	M	1,3-dichloropropane		----------NA----------					
83	M	butyl acetate		----------NA----------					
84	M	dibromochloromethane		----------NA----------					
85	M	1,2-dibromoethane		----------NA----------					
86		n-butyl ether		----------NA----------					
87	M	chlorobenzene		----------NA----------					
88	M	1,1,1,2-tetrachloroethane		----------NA----------					
89	M	ethylbenzene		----------NA----------					
90	M	m,p-xylene		----------NA----------					
91	M	o-xylene		----------NA----------					
92	M	styrene		----------NA----------					
93		butyl acrylate		----------NA----------					
94	M	bromoform		----------NA----------					
95		isopropylbenzene		----------NA----------					
96		cis-1,4-dichloro-2-butene		----------NA----------					
97	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	97	0.00	15.88	
98	S	4-bromofluorobenzene (s)	1.129	1.159	-2.7	101	0.00	14.73	

Initial Calibration Verification

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample: V2E8157-ICV8157
Lab FileID: 2E162834.D

99	M	bromobenzene	----------NA----------	
100	M	1,1,2,2-tetrachloroethane	----------NA----------	
101	M	trans-1,4-dichloro-2-bute	----------NA----------	
102	M	1,2,3-trichloropropane	----------NA----------	
103	M	n-propylbenzene	----------NA----------	
104	M	2-chlorotoluene	----------NA----------	
105	M	4-chlorotoluene	----------NA----------	
106	M	1,3,5-trimethylbenzene	----------NA----------	
107	M	tert-butylbenzene	----------NA----------	
108	M	1,2,4-trimethylbenzene	----------NA----------	
109	M	sec-butylbenzene	----------NA----------	
110	M	1,3-dichlorobenzene	----------NA----------	
111	M	p-isopropyltoluene	----------NA----------	
112	M	1,4-dichlorobenzene	----------NA----------	
113	M	1,2-dichlorobenzene	----------NA----------	
114	M	n-butylbenzene	----------NA----------	
115	M	1,2-dibromo-3-chloropropa	----------NA----------	
116		1,3,5-trichlorobenzene	----------NA----------	
117	M	1,2,4-trichlorobenzene	----------NA----------	
		---------- True	Calc.	% Drift ----------
118		2-ethylhexyl acrylate	----------NA----------	
		---------- AvgRF	CCRF	% Dev ----------
119	M	hexachlorobutadiene	----------NA----------	
120	M	naphthalene	----------NA----------	
121	M	1,2,3-trichlorobenzene	----------NA----------	
122	M	hexachloroethane	----------NA----------	
123		benzyl chloride	----------NA----------	
124		2-methylnaphthalene	----------NA----------	
125		Bis(chloromethyl)ether	----------NA----------	
126		Ethylenimine	----------NA----------	

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2E162823.D M2E8157.M Wed Jul 15 13:41:22 2020

Continuing Calibration Summary

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample: V2E8165-CC8157
Lab FileID: 2E162969.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\lo...e8165-rush\2e162969.d Vial: 4
Acq On : 20 Jul 2020 11:05 am Operator: krizhkac
Sample : CC8157-20 Inst : VOAMS2E
Misc : MS44525,V2E8165,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M2E8157.M (RTE Integrator)
Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
Last Update : Thu Jul 16 11:01:59 2020
Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	tert butyl alcohol-d9	1.000	1.000	0.0	93	0.00	7.30
2		ethanol	0.143	0.126	11.9	87	0.00	6.05
3	M	tertiary butyl alcohol	1.644	1.449	11.9	86	0.00	7.42
4		1,4-dioxane	0.113	0.108	4.4	91	0.00	11.16
5	I	pentafluorobenzene	1.000	1.000	0.0	87	0.00	9.53
6		chlorodifluoromethane	1.042	0.955	8.3	79	0.00	4.00
7	M	dichlorodifluoromethane	1.079	0.906	16.0	72	0.00	3.97
8	M	chloromethane	1.179	1.032	12.5	79	0.00	4.37
9	M	vinyl chloride	1.049	0.943	10.1	78	0.00	4.60
10	M	bromomethane	0.615	0.583	5.2	85	0.00	5.23
11	M	chloroethane	0.599	0.534	10.9	82	0.00	5.38
12	M	trichlorofluoromethane	1.043	0.939	10.0	80	0.00	5.84
13		1,3-butadiene	0.786	0.700	10.9	78	0.00	4.63
14		vinyl bromide	0.409	0.350	14.4	77	0.00	5.73
15	M	ethyl ether	0.383	0.368	3.9	85	0.00	6.21
16	M	acrolein	0.125	0.118	5.6	83	0.00	6.47
17		freon 113	0.494	0.449	9.1	80	0.00	6.61
18	M	1,1-dichloroethene	1.003	0.932	7.1	81	0.00	6.64
19	M	acetone	0.166	0.162	2.4	88	0.00	6.68
20		acetonitrile	0.089	0.090	-1.1	90	0.00	7.11
21	M	iodomethane	1.031	1.043	-1.2	88	0.00	6.92
22	M	carbon disulfide	1.795	1.681	6.4	83	0.00	7.05
23	M	methylene chloride	0.705	0.693	1.7	87	0.00	7.34
24	M	methyl acetate	0.506	0.497	1.8	89	0.00	7.14
25	M	methyl tert butyl ether	1.789	1.757	1.8	87	0.00	7.68
26	M	trans-1,2-dichloroethene	0.976	0.934	4.3	84	0.00	7.72
27		hexane	0.522	0.471	9.8	79	0.00	8.02
28	M	di-isopropyl ether	2.346	2.285	2.6	84	0.00	8.26
29	M	ethyl tert-butyl ether	2.184	2.127	2.6	85	0.00	8.73
30	M	2-butanone	0.061	0.065	-6.6	89	0.01	8.98
31	M	1,1-dichloroethane	1.227	1.177	4.1	83	0.00	8.28
32	M	chloroprene	0.946	0.887	6.2	81	0.00	8.39
33	M	acrylonitrile	0.239	0.247	-3.3	90	0.00	7.67
34	M	vinyl acetate	0.124	0.130	-4.8	87	0.00	8.26
35	M	ethyl acetate	0.096	0.101	-5.2	86	0.00	9.00
36	M	2,2-dichloropropane	0.938	0.834	11.1	81	0.00	9.01
37	M	cis-1,2-dichloroethene	0.708	0.673	4.9	84	0.00	9.01
38	M	propionitrile	0.088	0.088	0.0	89	0.00	9.07
39		methyl acrylate	0.078	0.083	-6.4	89	0.00	9.09
40	M	bromochloromethane	0.322	0.315	2.2	88	0.00	9.32
41	M	tetrahydrofuran	0.077	0.078	-1.3	90	0.00	9.37

Continuing Calibration Summary

Job Number: JD10241 **Sample:** V2E8165-CC8157
Account: ENSCTN Ensafe, Inc **Lab FileID:** 2E162969.D
Project: Former Carlysle Compressor, Syracuse, NY

42	M	chloroform	1.141	1.079	5.4	87	0.00	9.38
43		t-butyl formate	0.520	0.432	16.9	74	0.00	9.41
44		1,1-dichloropropene	0.894	0.843	5.7	83	0.00	9.81
45		carbon tetrachloride	0.812	0.763	6.0	82	0.00	9.84
46		isopropyl acetate	0.134	0.139	-3.7	88	0.00	9.99
47	S	dibromofluoromethane (s)	0.499	0.502	-0.6	88	0.00	9.58
48	M	methacrylonitrile	0.230	0.239	-3.9	88	0.01	9.27
49	M	1,1,1-trichloroethane	0.950	0.902	5.1	83	0.00	9.63
50		cyclohexane	1.043	0.959	8.1	80	0.00	9.71
51		iso-butyl alcohol	0.026	0.026	0.0	90	0.00	9.82
52		tert amyl alcohol	0.031	0.031	0.0	88	0.00	9.94
53	I	1,4-difluorobenzene	1.000	1.000	0.0	87	0.00	10.44
54	S	1,2-dichloroethane-d4 (s)	0.379	0.376	0.8	86	0.00	9.99
55		2,2,4-trimethylpentane	1.632	1.489	8.8	79	0.00	10.07
56	M	n-butyl alcohol	0.011	0.012	-9.1	94	0.00	10.57
57	M	benzene	1.812	1.700	6.2	84	0.00	10.07
58		tert-amyl methyl ether	1.383	1.357	1.9	85	0.00	10.10
59	M	heptane	0.316	0.290	8.2	79	0.00	10.25
60	M	1,2-dichloroethane	0.556	0.536	3.6	87	0.00	10.08
61		ethyl acrylate	0.475	0.475	0.0	87	0.00	10.79
62	M	trichloroethene	0.415	0.403	2.9	84	0.00	10.79
63	M	2-nitropropane	0.127	0.128	-0.8	89	0.00	11.56
64	M	2-chloroethyl vinyl ether	0.222	0.240	-8.1	88	0.00	11.57
65	M	methyl methacrylate	0.095	0.098	-3.2	88	0.00	11.06
66	M	1,2-dichloropropane	0.470	0.459	2.3	85	0.00	11.05
67	M	methylcyclohexane	0.823	0.728	11.5	77	0.00	11.01
68	M	dibromomethane	0.241	0.244	-1.2	87	0.00	11.21
69	M	bromodichloromethane	0.546	0.522	4.4	85	0.00	11.34
70		epichlorohydrin	0.039	0.039	0.0	88	0.00	11.70
71	M	cis-1,3-dichloropropene	0.688	0.670	2.6	85	0.00	11.79
72	M	4-methyl-2-pentanone	0.147	0.154	-4.8	87	0.00	11.88
73	M	3-methyl-1-butanol	0.010	0.011	-10.0	91	0.00	11.90
74	I	chlorobenzene-d5	1.000	1.000	0.0	88	0.00	13.59
75	S	toluene-d8 (s)	1.585	1.560	1.6	85	0.00	12.08
76		toluene	1.239	1.193	3.7	84	0.00	12.15
77		ethyl methacrylate	0.575	0.581	-1.0	87	0.00	12.34
78		trans-1,3-dichloropropene	0.703	0.707	-0.6	86	0.00	12.35
79		1,1,2-trichloroethane	0.361	0.348	3.6	86	0.00	12.56
80	M	tetrachloroethene	0.405	0.377	6.9	81	0.00	12.74
81		2-hexanone	0.159	0.164	-3.1	85	0.00	12.73
82	M	1,3-dichloropropane	0.742	0.722	2.7	85	0.00	12.74
83	M	butyl acetate	0.316	0.330	-4.4	87	0.00	12.80
84	M	dibromochloromethane	0.450	0.435	3.3	86	0.00	13.01
85	M	1,2-dibromoethane	0.540	0.542	-0.4	89	0.00	13.16
86		n-butyl ether	2.197	2.066	6.0	79	0.00	13.53
87	M	chlorobenzene	1.303	1.251	4.0	84	0.00	13.62
88	M	1,1,1,2-tetrachloroethane	0.449	0.435	3.1	83	0.00	13.68
89	M	ethylbenzene	2.217	2.115	4.6	82	0.00	13.67
90	M	m,p-xylene	0.836	0.810	3.1	82	0.00	13.77
91	M	o-xylene	1.776	1.724	2.9	83	0.00	14.19
92	M	styrene	1.287	1.332	-3.5	84	0.00	14.20
93		butyl acrylate	0.877	0.854	2.6	85	0.00	14.02
94	M	bromoform	0.265	0.273	-3.0	89	0.00	14.46
95		isopropylbenzene	2.101	2.024	3.7	81	0.00	14.53
96		cis-1,4-dichloro-2-butene	0.174	0.168	3.4	84	0.00	14.60
97	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	88	0.00	15.88
98	S	4-bromofluorobenzene (s)	1.129	1.111	1.6	86	0.00	14.73

Continuing Calibration Summary

Job Number: JD10241 **Sample:** V2E8165-CC8157
Account: ENSCTN Ensafe, Inc **Lab FileID:** 2E162969.D
Project: Former Carlysle Compressor, Syracuse, NY

99	M	bromobenzene	1.066	1.022	4.1	85	0.00	14.92
100	M	1,1,2,2-tetrachloroethane	1.052	1.021	2.9	87	0.00	14.83
101	M	trans-1,4-dichloro-2-bute	0.266	0.262	1.5	87	0.00	14.87
102	M	1,2,3-trichloropropane	0.278	0.282	-1.4	90	0.00	14.90
103	M	n-propylbenzene	4.948	4.704	4.9	82	0.00	14.93
104	M	2-chlorotoluene	1.000	0.963	3.7	83	0.00	15.08
105	M	4-chlorotoluene	3.042	2.886	5.1	85	0.00	15.18
106	M	1,3,5-trimethylbenzene	3.472	3.370	2.9	82	0.00	15.09
107	M	tert-butylbenzene	3.047	2.892	5.1	82	0.00	15.43
108	M	1,2,4-trimethylbenzene	3.419	3.379	1.2	83	0.00	15.47
109	M	sec-butylbenzene	4.324	4.104	5.1	81	0.00	15.64
110	M	1,3-dichlorobenzene	1.924	1.863	3.2	86	0.00	15.82
111	M	p-isopropyltoluene	3.568	3.481	2.4	82	0.00	15.76
112	M	1,4-dichlorobenzene	1.978	1.876	5.2	86	0.00	15.91
113	M	1,2-dichlorobenzene	1.901	1.844	3.0	86	0.00	16.29
114	M	n-butylbenzene	1.774	1.725	2.8	82	0.00	16.16
115	M	1,2-dibromo-3-chloropropa	0.206	0.208	-1.0	87	0.00	17.02
116		1,3,5-trichlorobenzene	1.566	1.534	2.0	86	0.00	17.18
117	M	1,2,4-trichlorobenzene	1.260	1.327	-5.3	90	0.00	17.76
		----------	True	Calc.	% Drift	----------		
118		2-ethylhexyl acrylate	4.000	3.689	7.8	97	0.00	17.73
		----------	AvgRF	CCRF	% Dev	----------		
119	M	hexachlorobutadiene	0.688	0.654	4.9	83	0.00	17.86
120	M	naphthalene	2.821	3.073	-8.9	91	0.00	18.01
121	M	1,2,3-trichlorobenzene	1.169	1.246	-6.6	91	0.00	18.24
122	M	hexachloroethane	0.577	0.547	5.2	83	0.00	16.54
123		benzyl chloride	1.722	1.744	-1.3	89	0.00	16.02
124		2-methylnaphthalene	1.294	1.316	-1.7	100	0.00	19.10
125		Bis(chloromethyl)ether		----------NA----------				
126		Ethylenimine		----------NA----------				
127	I	pentafluorobenzene(a)	1.000	1.000	0.0	87	0.00	9.53
128		freon 142B		----------NA----------				
129		allyl chloride		----------NA----------				
130		1,4-dichlorobenzene-d4(a)	N/A	1.00	0.0	65	-1.00#	15.88
131		4-ethyltoluene		----------NA----------				
132		pentachloroethane		----------NA----------				
133		1,4-diethylbenzene		----------NA----------				
134		1,2,4,5-tetramethylbenzen		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
2E162822.D M2E8157.M Tue Jul 21 00:31:55 2020

Initial Calibration Summary

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample: V4D4496-ICC4496
Lab FileID: 4D101411.D

Response Factor Report MS4D

Method : C:\MSDCHEM\1\METHODS\M4D4496.M (RTE Integrator)
Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
Last Update : Fri Apr 17 16:29:00 2020
Response via : Initial Calibration

Calibration Files
1 =4D101406.D 0.5 =4D101405.D 100 =4D101412.D 50 =4D101411.D
20 =4D101410.D 200 =4D101413.D 4 =4D101408.D 2 =4D101407.D
8 =4D101409.D 0.2 =4D101404.D = =

Compound	1	0.5	100	50	20	200	4	2	8	0.2	Avg	%RSD
1) tert butyl alcohol-d9	----------ISTD----------											
2) tertiary butyl alcohol	1.149	1.125	1.144	1.119	1.143	1.112	1.097	1.125			1.127	1.60
3) ethanol	0.108	0.120	0.122	0.117	0.122	0.116	0.108	0.119			0.116	4.86
4) 1,4-dioxane	0.080	0.093	0.095	0.094	0.093	0.098	0.089	0.097			0.092	6.16
5) I pentafluorobenzene	----------ISTD----------											
6) chlorodifluoromethane											0.000	-1.00
7) dichlorodifluoromethane		0.452	0.446	0.421	0.471	0.379	0.405	0.379			0.422	8.59
8) chloromethane	0.395	0.429	0.428	0.400	0.466	0.389	0.420	0.390			0.415	6.38
9) vinyl chloride	0.371	0.371	0.459	0.441	0.416	0.493	0.402	0.399	0.408		0.418	9.61
10) bromomethane		0.181	0.150	0.127		0.104	0.094	0.114			0.128	25.29
----- Quadratic regression ----- Coefficient = 1.0000												
Response Ratio = -0.00147 + 0.11926 *A + 0.03134 *A^2												
11) chloroethane	0.201	0.276	0.274	0.268	0.278	0.249	0.245	0.255			0.256	10.00
12) trichlorofluoromethane		0.636	0.626	0.595	0.660	0.545	0.553	0.554			0.596	7.76
13) vinyl bromide	0.213	0.315	0.303	0.290	0.328	0.270	0.264	0.279			0.283	12.62
14) ethyl ether		0.244	0.231	0.219	0.239	0.200	0.173	0.212			0.217	11.37
15) acrolein		0.101	0.096	0.090	0.099			0.077			0.093	10.82
16) freon 113		0.291	0.281	0.264	0.290	0.240	0.227	0.244			0.262	9.84
17) 1,1-dichloroethene	0.320	0.293	0.379	0.367	0.368	0.373	0.338	0.339	0.352		0.348	8.09
18) acetone	0.176	0.198	0.194	0.188	0.191	0.180	0.168	0.182			0.184	5.51
19) acetonitrile	0.088	0.094	0.092	0.089	0.091	0.088	0.087	0.089			0.090	2.69
20) iodomethane												
This compound does not meet initial calibration criteria		0.348	0.283	0.180	0.357	0.027		0.065			0.210	67.85
21) carbon disulfide												

	0.972	0.961	0.908	0.898	0.951	0.903	0.909	0.902		0.925	3.30
22)	methylene chloride										
	0.358	0.420	0.403	0.390	0.416	0.379	0.373	0.386		0.391	5.47
23)	methyl acetate										
		0.516	0.499	0.492	0.503	0.428		0.440		0.480	7.58
24)	methyl tert butyl ether										
	1.112	1.088	1.272	1.216	1.207	1.251	1.168	1.141	1.183	1.182	5.19
25)	trans-1,2-dichloroethene										
	0.335	0.395	0.381	0.375	0.391	0.360	0.361	0.371		0.371	5.25
26)	di-isopropyl ether										
	1.188	1.120	1.338	1.310	1.308	1.303	1.283	1.251	1.293	1.266	5.49
27)	2-butanone										
		0.084	0.082	0.079	0.083	0.075	0.070	0.078		0.079	6.32
28)	1,1-dichloroethane										
	0.634	0.609	0.743	0.713	0.703	0.733	0.682	0.663	0.692	0.686	6.48
29)	chloroprene										
	0.441		0.589	0.572	0.566	0.575	0.514	0.483	0.550	0.536	9.74
30)	acrylonitrile										
		0.227	0.217	0.207	0.226	0.181	0.155	0.191		0.201	13.23
31)	hexane										
		0.260	0.258	0.244	0.263	0.204	0.180	0.223		0.233	13.66
32)	vinyl acetate										
		0.110	0.101	0.096	0.110			0.083		0.100	11.01
33)	ethyl tert-butyl ether										
	1.180	1.067	1.336	1.277	1.269	1.320	1.226	1.193	1.234	1.233	6.63
34)	ethyl acetate										
		0.076	0.071	0.068	0.074	0.060		0.063		0.069	8.96
35)	2,2-dichloropropane										
	0.521	0.435	0.572	0.564	0.558	0.555	0.550	0.528	0.539	0.536	7.69
36)	cis-1,2-dichloroethene										
	0.420	0.343	0.443	0.427	0.429	0.431	0.416	0.423	0.428	0.418	6.99
37)	methyl acrylate										
		0.536	0.526	0.520	0.524	0.499	0.446	0.510		0.509	5.93
38)	propionitrile										
	0.091	0.075	0.101	0.101	0.098	0.098	0.098	0.096	0.098	0.095	8.62
39)	bromochloromethane										
	0.184		0.207	0.204	0.208	0.204	0.200	0.195	0.203	0.201	3.90
40)	tetrahydrofuran										
		0.091	0.090	0.087	0.089	0.082	0.075	0.082		0.085	6.72
41)	chloroform										
	0.558		0.462	0.452	0.457	0.455	0.469	0.495	0.455	0.475	7.56
42)	t-butyl formate										
	0.434		0.497	0.475	0.464	0.489	0.427	0.418	0.443	0.456	6.55
43)	dibromofluoromethane (s)										
	0.475	0.474	0.487	0.484	0.483	0.486	0.478	0.477	0.480	0.475	0.480	1.04
44)	methacrylonitrile										
		0.238	0.231	0.224	0.234	0.210	0.193	0.214		0.221	7.21
45)	1,1,1-trichloroethane										
	0.536	0.455	0.608	0.588	0.578	0.605	0.556	0.542	0.557	0.558	8.35
46)	cyclohexane										
	0.335		0.464	0.463	0.459	0.476	0.434	0.442	0.437	0.439	10.13
47)	1,1-dichloropropene										
	0.446	0.468	0.521	0.509	0.509	0.515	0.491	0.492	0.505	0.495	4.87
48)	isobutyl alcohol										
		0.004	0.004	0.004	0.004	0.002		0.003		0.004	18.99
49)	carbon tetrachloride										
	0.435		0.531	0.513	0.503	0.529	0.475	0.465	0.486	0.492	6.74
50)	tert amyl alcohol										
		0.032	0.032	0.031	0.030	0.030	0.029	0.030		0.030	3.79

Initial Calibration Summary

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample: V4D4496-ICC4496
Lab FileID: 4D101411.D

51) I 1,4-difluorobenzene ----------ISTD----------
52) 1,2-dichloroethane-d4 (s)
0.348 0.349 0.344 0.347 0.357 0.335 0.354 0.350 0.356 0.341 0.348 1.99
53) n-butyl alcohol
0.015 0.013 0.018 0.018 0.017 0.017 0.017 0.016 0.017 0.016 10.23
54) 2,2,4-trimethylpentane
0.426 0.620 0.610 0.590 0.616 0.547 0.515 0.559 0.560 11.74
55) benzene
0.981 1.040 1.016 0.986 0.991 0.992 1.002 0.992 1.002 0.922 0.992 3.03
56) tert-amyl methyl ether
0.170 0.202 0.193 0.191 0.196 0.188 0.175 0.191 0.188 5.62
57) heptane
0.147 0.144 0.141 0.150 0.127 0.116 0.134 0.137 8.94
58) isopropyl acetate
0.084 0.080 0.079 0.083 0.070 0.075 0.079 6.89
59) 1,2-dichloroethane
0.417 0.423 0.382 0.369 0.376 0.368 0.382 0.385 0.377 0.387 5.11
60) trichloroethene
0.237 0.212 0.271 0.261 0.255 0.269 0.255 0.253 0.259 0.252 7.20
61) ethyl acrylate
0.382 0.489 0.470 0.459 0.480 0.441 0.433 0.451 0.451 7.47
62) 2-nitropropane
0.113 0.108 0.101 0.112 0.101 0.096 0.105 6.23
63) 2-chloroethyl vinyl ether
0.177 0.166 0.203 0.195 0.193 0.197 0.192 0.184 0.192 0.189 5.95
64) methyl methacrylate
0.095 0.089 0.087 0.092 0.075 0.085 0.087 7.81
65) 1,2-dichloropropane
0.242 0.204 0.268 0.258 0.259 0.263 0.251 0.244 0.256 0.249 7.63
66) dibromomethane
0.152 0.186 0.176 0.175 0.181 0.171 0.169 0.175 0.173 5.79
67) methylcyclohexane
0.347 0.338 0.327 0.346 0.308 0.279 0.315 0.323 7.64
68) bromodichloromethane
0.326 0.302 0.368 0.351 0.348 0.366 0.326 0.324 0.334 0.338 6.40
69) epichlorohydrin
0.042 0.047 0.047 0.045 0.046 0.044 0.043 0.045 0.045 4.12
70) cis-1,3-dichloropropene
0.384 0.322 0.429 0.409 0.395 0.427 0.387 0.377 0.386 0.391 8.19
71) 4-methyl-2-pentanone
0.142 0.130 0.148 0.146 0.145 0.141 0.146 0.144 0.144 0.114 0.140 7.43
72) 3-methyl-1-butanol
0.015 0.015 0.014 0.015 0.013 0.012 0.014 0.014 8.16

73) I chlorobenzene-d5 ----------ISTD----------
74) toluene-d8 (s)
1.358 1.356 1.317 1.331 1.356 1.305 1.369 1.369 1.369 1.370 1.350 1.77
75) toluene
0.725 0.668 0.746 0.731 0.734 0.730 0.735 0.726 0.735 0.721 0.725 2.92
76) trans-1,3-dichloropropene
0.457 0.372 0.510 0.491 0.480 0.499 0.463 0.453 0.478 0.467 8.63
77) ethyl methacrylate
0.437 0.486 0.468 0.470 0.466 0.457 0.446 0.458 0.461 3.29
78) 1,1,2-trichloroethane
0.227 0.203 0.266 0.255 0.256 0.259 0.253 0.252 0.260 0.248 8.12
79) tetrachloroethene
0.272 0.225 0.273 0.270 0.273 0.263 0.291 0.270 0.276 0.268 6.66
80) 1,3-dichloropropane
0.485 0.437 0.488 0.475 0.479 0.470 0.493 0.466 0.483 0.475 3.48
81) 2-hexanone

Initial Calibration Summary

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample: V4D4496-ICC4496
Lab FileID: 4D101411.D

```
      0.179 0.151 0.201 0.200 0.196 0.190 0.206 0.191 0.201        0.191    8.81
 82)  butyl acetate
                0.291 0.283 0.280 0.278 0.281 0.253 0.276        0.278    4.29
 83)  dibromochloromethane
      0.315 0.285 0.377 0.352 0.346 0.372 0.333 0.318 0.339        0.337    8.59
 84)  1,2-dibromoethane
      0.362 0.312 0.403 0.387 0.388 0.400 0.384 0.373 0.380        0.377    7.23
 85)  n-butyl ether
      1.170 1.089 1.270 1.223 1.218 1.246 1.177 1.180 1.193        1.196    4.37
 86)  chlorobenzene
      0.760 0.749 0.809 0.784 0.777 0.802 0.768 0.767 0.780 0.741  0.774    2.78
 87)  1,1,1,2-tetrachloroethane
      0.251       0.312 0.296 0.280 0.310 0.272 0.257 0.273        0.281    8.09
 88)  ethylbenzene
      1.247 1.186 1.328 1.287 1.284 1.296 1.271 1.240 1.267 1.262  1.267    3.00
 89)  m,p-xylene
      0.465 0.441 0.506 0.494 0.483 0.489 0.482 0.476 0.485 0.401  0.472    6.50
 90)  o-xylene
      0.444 0.416 0.490 0.473 0.470 0.472 0.462 0.457 0.463        0.461    4.56
 91)  styrene
      0.700 0.676 0.841 0.805 0.790 0.816 0.775 0.741 0.774        0.769    7.05
 92)  bromoform
      0.214       0.287 0.268 0.255 0.285 0.243 0.236 0.250        0.254    9.74
 93)  butyl acrylate
      0.579       0.727 0.704 0.681 0.701 0.652 0.592 0.663        0.662    8.03
 94)  isopropylbenzene
      1.047 1.066 1.221 1.165 1.127 1.192 1.113 1.090 1.110 1.021  1.115    5.70
 95)  cis-1,4-dichloro-2-butene
                0.180 0.169 0.157 0.178 0.146       0.152        0.164    8.48

 96) I   1,4-dichlorobenzene-d ----------------ISTD--------------------
 97)  4-bromofluorobenzene (s)
      1.012 1.001 0.995 0.987 1.000 1.012 1.028 1.012 1.026 1.015  1.009    1.29
 98)  bromobenzene
      0.706 0.680 0.784 0.753 0.763 0.789 0.739 0.763 0.767        0.749    4.78
 99)  1,1,2,2-tetrachloroethane
      1.003 0.995 1.057 1.010 1.015 1.058 0.999 1.015 1.014        1.018    2.31
100)  trans-1,4-dichloro-2-butene
                0.290 0.276 0.267 0.291 0.246       0.255        0.271    6.81
101)  1,2,3-trichloropropane
      0.237       0.292 0.278 0.282 0.291 0.288 0.278 0.292        0.280    6.48
102)  n-propylbenzene
      2.903 2.784 3.121 2.998 2.990 3.117 3.010 2.854 2.994 2.894  2.966    3.65
103)  2-chlorotoluene
      0.563       0.679 0.658 0.664 0.680 0.634 0.632 0.649        0.645    5.83
104)  4-chlorotoluene
      1.811 1.758 1.924 1.857 1.866 1.891 1.848 1.836 1.888 1.605  1.828    4.97
105)  1,3,5-trimethylbenzene
      1.956 1.914 2.180 2.093 2.060 2.190 1.983 1.989 2.072 1.789  2.023    6.06
106)  tert-butylbenzene
                0.401 0.372 0.360 0.407 0.358 0.355 0.363        0.374    5.70
107)  1,2,4-trimethylbenzene
      1.980 1.899 2.186 2.053 2.063 2.188 2.018 1.976 2.065 1.998  2.043    4.45
108)  sec-butylbenzene
      2.186 2.160 2.521 2.365 2.299 2.547 2.239 2.222 2.293        2.315    6.02
109)  1,3-dichlorobenzene
      1.181 1.160 1.287 1.243 1.229 1.285 1.217 1.194 1.257 1.242  1.230    3.44
110)  p-isopropyltoluene
      1.791 1.762 2.128 2.008 1.957 2.156 1.907 1.865 1.935 1.683  1.919    7.94
111)  1,4-dichlorobenzene
```

Initial Calibration Summary

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample: V4D4496-ICC4496
Lab FileID: 4D101411.D

```
       1.193 1.193 1.314 1.259 1.250 1.311 1.231 1.218 1.254 1.279  1.250    3.44
112)  benzyl chloride
       1.423 1.334 1.711 1.644 1.579 1.716 1.487 1.446 1.559        1.544    8.58
113)  1,2-dichlorobenzene
       1.142 1.006 1.244 1.187 1.173 1.233 1.158 1.124 1.197        1.163    6.07
114)  n-butylbenzene
       0.760       0.975 0.912 0.874 1.003 0.829 0.772 0.879        0.875   10.02
115)  1,2-dibromo-3-chloropropane
                   0.303 0.284 0.269 0.308 0.239 0.224 0.252        0.268   11.93
116)  1,3,5-trichlorobenzene
       0.660       0.832 0.771 0.750 0.863 0.727 0.691 0.746        0.755    8.91
117)  2-ethylhexyl acrylate
                   0.414 0.372 0.314 0.406             0.228        0.347   22.30
              ----- Linear regression -----  Coefficient =  0.9992
                Response Ratio = -0.00672 + 0.41748 *A

118)  1,2,4-trichlorobenzene
       0.552       0.715 0.645 0.607 0.745 0.581 0.573 0.601        0.627   11.05
119)  hexachlorobutadiene
       0.254       0.307 0.286 0.281 0.312 0.280 0.269 0.293        0.285    6.66
120)  naphthalene
       1.789 1.588 1.940 1.801 1.730 2.010 1.772 1.751 1.797 1.863  1.804    6.41
121)  1,2,3-trichlorobenzene
       0.497       0.648 0.591 0.560 0.677 0.543 0.517 0.549        0.573   10.92
122)  hexachloroethane
                   0.383 0.353 0.322 0.406 0.300 0.283 0.305        0.336   13.59
123)  2-methylnaphthalene
                   0.841 0.785 0.704 0.739 0.599       0.640        0.718   12.53
124)  bis(chloromethyl)ether
                                                                    0.000   -1.00
125)  ethylenimine
                                                                    0.000   -1.00
 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

           M4D4496.M         Fri Apr 17 16:33:25 2020   RPT1
```

Initial Calibration Verification

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample: V4D4496-ICV4496
Lab FileID: 4D101416.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\V4D4496\4D101416.D Vial: 15
Acq On : 16 Apr 2020 10:15 pm Operator: ROBERTS
Sample : ICV4496-50 Inst : MS4D
Misc : MS42511,V4D4496,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M4D4496.M (RTE Integrator)
Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
Last Update : Fri Apr 17 16:29:00 2020
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1		tert butyl alcohol-d9	1.000	1.000	0.0	106	0.00	8.65
2	M	tertiary butyl alcohol	1.127	1.170	-3.8	109	0.00	8.78
3		ethanol	0.116	0.126	-8.6	110	0.00	7.18
4	M	1,4-dioxane	0.092	0.099	-7.6	111	0.00	12.67
5	I	pentafluorobenzene	1.000	1.000	0.0	110	0.00	11.13
6	M	chlorodifluoromethane		----------NA----------				
7	M	dichlorodifluoromethane	0.422	0.455	-7.8	113	0.00	4.60
8	M	chloromethane	0.415	0.427	-2.9	110	-0.01	5.11
9	M	vinyl chloride	0.418	0.460	-10.0	115	0.00	5.36
		----------	True	Calc.	% Drift	----------		
10	M	bromomethane	50.000	59.337	-18.7	136	0.00	6.14
		----------	AvgRF	CCRF	% Dev	----------		
11	M	chloroethane	0.256	0.242	5.5	97	0.00	6.38
12	M	trichlorofluoromethane	0.596	0.592	0.7	104	0.00	6.95
13		vinyl bromide	0.283	0.333	-17.7	121	0.00	6.80
14	M	ethyl ether	0.217	0.235	-8.3	112	0.00	7.48
15	M	acrolein	0.093	0.091	2.2	105	0.00	7.69
16		freon 113	0.262	0.299	-14.1	117	0.00	7.94
17	M	1,1-dichloroethene	0.348	0.347	0.3	105	0.00	7.94
18	M	acetone	0.184	0.185	-0.5	105	0.00	7.94
19	M	acetonitrile		----------NA----------				
20	M	iodomethane	0.210	0.142	32.4#	55	0.00	8.23
21	M	carbon disulfide	0.925	1.073	-16.0	130	0.00	8.39
22	M	methylene chloride	0.391	0.406	-3.8	111	0.00	8.71
23	M	methyl acetate	0.480	0.463	3.5	102	0.00	8.51
24	M	methyl tert butyl ether	1.182	1.200	-1.5	109	0.00	9.14
25	M	trans-1,2-dichloroethene	0.371	0.379	-2.2	110	0.00	9.17
26	M	di-isopropyl ether	1.266	1.233	2.6	104	0.00	9.83
27	M	2-butanone	0.079	0.082	-3.8	110	0.00	10.51
28	M	1,1-dichloroethane	0.686	0.731	-6.6	113	0.00	9.77
29	M	chloroprene	0.536	0.580	-8.2	112	0.00	9.92
30	M	acrylonitrile		----------NA----------				
31		hexane	0.233	0.259	-11.2	111	0.00	9.59
32	M	vinyl acetate	0.100	0.100	0.0	109	0.00	9.78
33	M	ethyl tert-butyl ether	1.233	1.187	3.7	103	0.00	10.33
34	M	ethyl acetate	0.069	0.069	0.0	108	0.00	10.56
35	M	2,2-dichloropropane	0.536	0.523	2.4	102	0.00	10.59
36	M	cis-1,2-dichloroethene	0.418	0.427	-2.2	110	0.00	10.56
37		methyl acrylate	0.509	0.532	-4.5	112	0.00	10.64

Initial Calibration Verification

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample: V4D4496-ICV4496
Lab FileID: 4D101416.D

38	M	propionitrile	0.095	0.101	-6.3	110	0.00	10.56
39	M	bromochloromethane	0.201	0.214	-6.5	116	0.00	10.87
40	M	tetrahydrofuran	0.085	0.091	-7.1	111	0.00	10.94
41	M	chloroform	0.475	0.454	4.4	111	0.00	10.94
42	M	t-butyl formate	0.456	0.364	20.2	84	0.00	11.01
43	S	dibromofluoromethane (s)	0.480	0.484	-0.8	110	0.00	11.13
44	M	methacrylonitrile	0.221	0.236	-6.8	113	0.00	10.79
45	M	1,1,1-trichloroethane	0.558	0.572	-2.5	107	0.00	11.24
46		cyclohexane	0.439	0.464	-5.7	111	0.00	11.36
47		1,1-dichloropropene	0.495	0.507	-2.4	110	0.00	11.42
48		isobutyl alcohol	0.004	0.004	0.0	107	0.00	11.36
49		carbon tetrachloride	0.492	0.507	-3.0	109	0.00	11.46
50		tert amyl alcohol	0.030	0.031	-3.3	109	0.00	11.50
51	I	1,4-difluorobenzene	1.000	1.000	0.0	111	0.00	12.02
52	S	1,2-dichloroethane-d4 (s)	0.348	0.329	5.5	105	0.00	11.56
53	M	n-butyl alcohol	0.016	0.017	-6.3	106	0.00	12.08
54		2,2,4-trimethylpentane	0.560	0.609	-8.7	110	0.00	11.75
55	M	benzene	0.992	1.002	-1.0	112	0.00	11.68
56	M	tert-amyl methyl ether	0.188	0.178	5.3	102	0.00	11.73
57	M	heptane	0.137	0.148	-8.0	113	0.00	11.91
58	M	isopropyl acetate	0.079	0.078	1.3	107	0.00	11.60
59	M	1,2-dichloroethane	0.387	0.362	6.5	108	0.00	11.64
60	M	trichloroethene	0.252	0.276	-9.5	117	0.00	12.35
61		ethyl acrylate	0.451	0.460	-2.0	108	0.00	12.34
62	M	2-nitropropane	0.105	0.109	-3.8	112	0.00	13.00
63	M	2-chloroethyl vinyl ether	0.189	0.197	-4.2	111	0.00	13.05
64	M	methyl methacrylate	0.087	0.093	-6.9	116	0.00	12.59
65	M	1,2-dichloropropane	0.249	0.262	-5.2	112	0.00	12.58
66	M	dibromomethane	0.173	0.174	-0.6	109	0.00	12.70
67	M	methylcyclohexane	0.323	0.347	-7.4	113	0.00	12.60
68	M	bromodichloromethane	0.338	0.338	0.0	106	0.00	12.82
69		epichlorohydrin	0.045	0.045	0.0	106	0.00	13.14
70	M	cis-1,3-dichloropropene	0.391	0.405	-3.6	109	0.00	13.25
71	M	4-methyl-2-pentanone	0.140	0.145	-3.6	109	0.00	13.35
72	M	3-methyl-1-butanol	0.014	0.015	-7.1	110	0.00	13.33
73	I	chlorobenzene-d5	1.000	1.000	0.0	111	0.00	14.91
74	S	toluene-d8 (s)	1.350	1.322	2.1	110	0.00	13.55
75		toluene	0.725	0.735	-1.4	112	0.00	13.62
76		trans-1,3-dichloropropene	0.467	0.494	-5.8	112	0.00	13.75
77		ethyl methacrylate	0.461	0.481	-4.3	114	0.00	13.78
78		1,1,2-trichloroethane	0.248	0.262	-5.6	114	0.00	13.95
79	M	tetrachloroethene		----------NA----------				
80	M	1,3-dichloropropane	0.475	0.483	-1.7	113	0.00	14.11
81		2-hexanone	0.191	0.194	-1.6	108	0.00	14.12
82	M	butyl acetate	0.278	0.283	-1.8	111	0.00	14.20
83	M	dibromochloromethane	0.337	0.366	-8.6	115	0.00	14.36
84	M	1,2-dibromoethane	0.377	0.394	-4.5	113	0.00	14.50
85		n-butyl ether	1.196	1.217	-1.8	110	0.00	14.90
86	M	chlorobenzene	0.774	0.801	-3.5	113	0.00	14.94
87	M	1,1,1,2-tetrachloroethane	0.281	0.301	-7.1	113	0.00	14.98
88	M	ethylbenzene	1.267	1.298	-2.4	112	0.00	15.01
89	M	m,p-xylene	0.472	0.499	-5.7	112	0.00	15.10
90	M	o-xylene	0.461	0.477	-3.5	112	0.00	15.48
91	M	styrene	0.769	0.822	-6.9	113	0.00	15.48
92	M	bromoform	0.254	0.287	-13.0	119	0.00	15.69
93		butyl acrylate	0.662	0.680	-2.7	107	0.00	15.30
94		isopropylbenzene	1.115	1.175	-5.4	112	0.00	15.79
95		cis-1,4-dichloro-2-butene	0.164	0.168	-2.4	111	0.00	15.80

Initial Calibration Verification

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample: V4D4496-ICV4496
Lab FileID: 4D101416.D

96	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	107	0.00	17.02
97	S	4-bromofluorobenzene (s)	1.009	1.004	0.5	109	0.00	15.95
98	M	bromobenzene	0.749	0.794	-6.0	113	0.00	16.14
99	M	1,1,2,2-tetrachloroethane	1.018	1.045	-2.7	111	0.00	16.01
100	M	trans-1,4-dichloro-2-bute	0.271	0.282	-4.1	110	0.00	16.05
101	M	1,2,3-trichloropropane	0.280	0.284	-1.4	110	0.00	16.08
102	M	n-propylbenzene	2.966	3.135	-5.7	112	0.00	16.16
103	M	2-chlorotoluene	0.645	0.671	-4.0	109	0.00	16.28
104	M	4-chlorotoluene	1.828	1.950	-6.7	113	0.00	16.37
105	M	1,3,5-trimethylbenzene	2.023	2.149	-6.2	110	0.00	16.30
106	M	tert-butylbenzene	0.374	0.394	-5.3	114	0.00	16.62
107	M	1,2,4-trimethylbenzene	2.043	2.171	-6.3	114	0.00	16.66
108	M	sec-butylbenzene	2.315	2.481	-7.2	113	0.00	16.82
109	M	1,3-dichlorobenzene	1.230	1.308	-6.3	113	0.00	16.97
110	M	p-isopropyltoluene	1.919	2.099	-9.4	112	0.00	16.92
111	M	1,4-dichlorobenzene	1.250	1.325	-6.0	113	0.00	17.04
112		benzyl chloride	1.544	1.301	15.7	85	0.00	17.13
113	M	1,2-dichlorobenzene	1.163	1.234	-6.1	112	0.00	17.40
114	M	n-butylbenzene	0.875	0.938	-7.2	110	0.00	17.31
115	M	1,2-dibromo-3-chloropropa	0.268	0.284	-6.0	107	0.00	18.10
116		1,3,5-trichlorobenzene	0.755	0.816	-8.1	114	0.00	18.32
			True	Calc.	% Drift			
117		2-ethylhexyl acrylate	10.000	10.437	-4.4	116	0.00	18.91
			AvgRF	CCRF	% Dev			
118	M	1,2,4-trichlorobenzene	0.627	0.659	-5.1	110	0.00	18.91
119	M	hexachlorobutadiene	0.285	0.288	-1.1	108	0.00	19.05
120	M	naphthalene	1.804	1.848	-2.4	110	0.00	19.17
121	M	1,2,3-trichlorobenzene	0.573	0.605	-5.6	110	0.00	19.40
122	m	hexachloroethane	0.336	0.364	-8.3	111	0.00	17.68
123		2-methylnaphthalene	0.718	0.881	-22.7	121	0.00	20.26
124		bis(chloromethyl)ether		----------NA----------				
125		ethylenimine		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4D101411.D M4D4496.M Fri Apr 17 16:33:09 2020 RPT1

Initial Calibration Verification

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample: V4D4496-ICV4496
Lab FileID: 4D101417.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\V4D4496\4D101417.D Vial: 16
Acq On : 16 Apr 2020 10:44 pm Operator: ROBERTS
Sample : ICV4496-50 Inst : MS4D
Misc : MS42511,V4D4496,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M4D4496.M (RTE Integrator)
Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
Last Update : Fri Apr 17 16:29:00 2020
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1		tert butyl alcohol-d9	1.000	1.000	0.0	113	0.00	8.64
2	M	tertiary butyl alcohol		----------NA----------				
3		ethanol		----------NA----------				
4	M	1,4-dioxane		----------NA----------				
5	I	pentafluorobenzene	1.000	1.000	0.0	122	0.00	11.13
6	M	chlorodifluoromethane		----------NA----------				
7	M	dichlorodifluoromethane		----------NA----------				
8	M	chloromethane		----------NA----------				
9	M	vinyl chloride		----------NA----------				
		----------	True	Calc.	% Drift	----------		
10	M	bromomethane		----------NA----------				
		----------	AvgRF	CCRF	% Dev	----------		
11	M	chloroethane		----------NA----------				
12	M	trichlorofluoromethane		----------NA----------				
13		vinyl bromide		----------NA----------				
14	M	ethyl ether		----------NA----------				
15	M	acrolein		----------NA----------				
16		freon 113		----------NA----------				
17	M	1,1-dichloroethene		----------NA----------				
18	M	acetone		----------NA----------				
19	M	acetonitrile	0.090	0.097	-7.8	128	0.00	8.38
20	M	iodomethane		----------NA----------				
21	M	carbon disulfide		----------NA----------				
22	M	methylene chloride		----------NA----------				
23	M	methyl acetate		----------NA----------				
24	M	methyl tert butyl ether		----------NA----------				
25	M	trans-1,2-dichloroethene		----------NA----------				
26	M	di-isopropyl ether		----------NA----------				
27	M	2-butanone		----------NA----------				
28	M	1,1-dichloroethane		----------NA----------				
29	M	chloroprene		----------NA----------				
30	M	acrylonitrile	0.201	0.237	-17.9	133	0.00	9.03
31		hexane		----------NA----------				
32	M	vinyl acetate		----------NA----------				
33	M	ethyl tert-butyl ether		----------NA----------				
34	M	ethyl acetate		----------NA----------				
35	M	2,2-dichloropropane		----------NA----------				
36	M	cis-1,2-dichloroethene		----------NA----------				
37		methyl acrylate		----------NA----------				

Initial Calibration Verification

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample: V4D4496-ICV4496
Lab FileID: 4D101417.D

38	M	propionitrile		----------NA----------					
39	M	bromochloromethane		----------NA----------					
40	M	tetrahydrofuran		----------NA----------					
41	M	chloroform		----------NA----------					
42	M	t-butyl formate		----------NA----------					
43	S	dibromofluoromethane (s)	0.480	0.471	1.9	118	0.00	11.13	
44	M	methacrylonitrile		----------NA----------					
45	M	1,1,1-trichloroethane		----------NA----------					
46		cyclohexane		----------NA----------					
47		1,1-dichloropropene		----------NA----------					
48		isobutyl alcohol		----------NA----------					
49		carbon tetrachloride		----------NA----------					
50		tert amyl alcohol		----------NA----------					
51	I	1,4-difluorobenzene	1.000	1.000	0.0	122	0.00	12.02	
52	S	1,2-dichloroethane-d4 (s)	0.348	0.332	4.6	116	0.00	11.56	
53	M	n-butyl alcohol		----------NA----------					
54		2,2,4-trimethylpentane		----------NA----------					
55	M	benzene		----------NA----------					
56	M	tert-amyl methyl ether		----------NA----------					
57	M	heptane		----------NA----------					
58	M	isopropyl acetate		----------NA----------					
59	M	1,2-dichloroethane		----------NA----------					
60	M	trichloroethene		----------NA----------					
61		ethyl acrylate		----------NA----------					
62	M	2-nitropropane		----------NA----------					
63	M	2-chloroethyl vinyl ether		----------NA----------					
64	M	methyl methacrylate		----------NA----------					
65	M	1,2-dichloropropane		----------NA----------					
66	M	dibromomethane		----------NA----------					
67	M	methylcyclohexane		----------NA----------					
68	M	bromodichloromethane		----------NA----------					
69		epichlorohydrin		----------NA----------					
70	M	cis-1,3-dichloropropene		----------NA----------					
71	M	4-methyl-2-pentanone		----------NA----------					
72	M	3-methyl-1-butanol		----------NA----------					
73	I	chlorobenzene-d5	1.000	1.000	0.0	120	0.00	14.92	
74	S	toluene-d8 (s)	1.350	1.353	-0.2	122	0.00	13.55	
75		toluene		----------NA----------					
76		trans-1,3-dichloropropene		----------NA----------					
77		ethyl methacrylate		----------NA----------					
78		1,1,2-trichloroethane		----------NA----------					
79	M	tetrachloroethene	0.268	0.290	-8.2	129	0.00	14.17	
80	M	1,3-dichloropropane		----------NA----------					
81		2-hexanone		----------NA----------					
82	M	butyl acetate		----------NA----------					
83	M	dibromochloromethane		----------NA----------					
84	M	1,2-dibromoethane		----------NA----------					
85		n-butyl ether		----------NA----------					
86	M	chlorobenzene		----------NA----------					
87	M	1,1,1,2-tetrachloroethane		----------NA----------					
88	M	ethylbenzene		----------NA----------					
89	M	m,p-xylene		----------NA----------					
90	M	o-xylene		----------NA----------					
91	M	styrene		----------NA----------					
92	M	bromoform		----------NA----------					
93		butyl acrylate		----------NA----------					
94		isopropylbenzene		----------NA----------					
95		cis-1,4-dichloro-2-butene		----------NA----------					

Initial Calibration Verification

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample: V4D4496-ICV4496
Lab FileID: 4D101417.D

96	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	115	0.00	17.02
97	S	4-bromofluorobenzene (s)	1.009	0.996	1.3	116	0.00	15.95
98	M	bromobenzene		----------NA----------				
99	M	1,1,2,2-tetrachloroethane		----------NA----------				
100	M	trans-1,4-dichloro-2-bute		----------NA----------				
101	M	1,2,3-trichloropropane		----------NA----------				
102	M	n-propylbenzene		----------NA----------				
103	M	2-chlorotoluene		----------NA----------				
104	M	4-chlorotoluene		----------NA----------				
105	M	1,3,5-trimethylbenzene		----------NA----------				
106	M	tert-butylbenzene		----------NA----------				
107	M	1,2,4-trimethylbenzene		----------NA----------				
108	M	sec-butylbenzene		----------NA----------				
109	M	1,3-dichlorobenzene		----------NA----------				
110	M	p-isopropyltoluene		----------NA----------				
111	M	1,4-dichlorobenzene		----------NA----------				
112		benzyl chloride		----------NA----------				
113	M	1,2-dichlorobenzene		----------NA----------				
114	M	n-butylbenzene		----------NA----------				
115	M	1,2-dibromo-3-chloropropa		----------NA----------				
116		1,3,5-trichlorobenzene		----------NA----------				
		----------	True	Calc.	% Drift	----------		
117		2-ethylhexyl acrylate		----------NA----------				
		----------	AvgRF	CCRF	% Dev	----------		
118	M	1,2,4-trichlorobenzene		----------NA----------				
119	M	hexachlorobutadiene		----------NA----------				
120	M	naphthalene		----------NA----------				
121	M	1,2,3-trichlorobenzene		----------NA----------				
122	m	hexachloroethane		----------NA----------				
123		2-methylnaphthalene		----------NA----------				
124		bis(chloromethyl)ether		----------NA----------				
125		ethylenimine		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4D101411.D M4D4496.M Fri Apr 17 16:33:11 2020 RPT1

Continuing Calibration Summary

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample: V4D4597-CC4496
Lab FileID: 4D103625.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\ja...20\v4d4597\4d103625.d Vial: 2
Acq On : 27 Jul 2020 8:27 am Operator: mariceld
Sample : CC4496-20 Inst : MS4D
Misc : MS44684,V4D4597,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M4D4496.M (RTE Integrator)
Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
Last Update : Fri Apr 17 16:29:00 2020
Response via : Multiple Level Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1		tert butyl alcohol-d9	1.000	1.000	0.0	103	0.00	8.64
2	M	tertiary butyl alcohol	1.127	1.139	-1.1	105	0.00	8.77
3		ethanol	0.116	0.120	-3.4	106	0.00	7.18
4	M	1,4-dioxane	0.092	0.104	-13.0	114	0.00	12.67
5	I	pentafluorobenzene	1.000	1.000	0.0	111	0.00	11.13
6	M	chlorodifluoromethane		----------NA----------				
7	M	dichlorodifluoromethane	0.422	0.438	-3.8	116	0.00	4.60
8	M	chloromethane	0.415	0.348	16.1	97	0.00	5.11
9	M	vinyl chloride	0.418	0.394	5.7	106	0.00	5.36
		----------	True	Calc.	% Drift	----------		
10	M	bromomethane	20.000	12.523	37.4#	67	0.01	6.15
		----------	AvgRF	CCRF	% Dev	----------		
11	M	chloroethane	0.256	0.257	-0.4	107	0.00	6.38
12	M	trichlorofluoromethane	0.596	0.559	6.2	105	0.00	6.95
13		vinyl bromide	0.283	0.192	32.2#	74	0.00	6.80
14	M	ethyl ether	0.217	0.216	0.5	110	0.00	7.48
15	M	acrolein	0.093	0.074	20.4#	92	0.00	7.70
16		freon 113	0.262	0.277	-5.7	117	0.00	7.93
17	M	1,1-dichloroethene	0.348	0.343	1.4	104	0.00	7.94
18	M	acetone	0.184	0.161	12.5	95	0.00	7.94
19	M	acetonitrile	0.090	0.081	10.0	101	0.00	8.38
20	M	iodomethane	0.210	0.083	60.5#	51	0.00	8.22
21	M	carbon disulfide	0.925	0.843	8.9	105	0.00	8.39
22	M	methylene chloride	0.391	0.394	-0.8	113	0.00	8.70
23	M	methyl acetate	0.480	0.442	7.9	100	0.00	8.51
24	M	methyl tert butyl ether	1.182	1.125	4.8	104	0.00	9.14
25	M	trans-1,2-dichloroethene	0.371	0.372	-0.3	110	0.00	9.17
26	M	di-isopropyl ether	1.266	1.203	5.0	103	0.00	9.83
27	M	2-butanone	0.079	0.076	3.8	107	0.00	10.51
28	M	1,1-dichloroethane	0.686	0.663	3.4	105	0.00	9.77
29	M	chloroprene	0.536	0.473	11.8	93	0.00	9.92
30	M	acrylonitrile	0.201	0.187	7.0	101	0.00	9.03
31		hexane	0.233	0.237	-1.7	108	0.00	9.59
32	M	vinyl acetate	0.100	0.099	1.0	115	0.00	9.78
33	M	ethyl tert-butyl ether	1.233	0.739	40.1#	65	0.00	10.32
34	M	ethyl acetate	0.069	0.068	1.4	113	0.00	10.56
35	M	2,2-dichloropropane	0.536	0.535	0.2	107	0.00	10.59
36	M	cis-1,2-dichloroethene	0.418	0.440	-5.3	114	0.00	10.55
37		methyl acrylate	0.509	0.486	4.5	104	0.00	10.64

Continuing Calibration Summary

Job Number: JD10241 **Sample:** V4D4597-CC4496
Account: ENSCTN Ensafe, Inc **Lab FileID:** 4D103625.D
Project: Former Carlysle Compressor, Syracuse, NY

38	M	propionitrile	0.095	0.090	5.3	103	0.00	10.56
39	M	bromochloromethane	0.201	0.227	-12.9	121	0.00	10.86
40	M	tetrahydrofuran	0.085	0.085	0.0	109	0.00	10.94
41	M	chloroform	0.475	0.442	6.9	108	0.00	10.93
42	M	t-butyl formate	0.456	0.273	40.1#	66	0.00	11.01
43	S	dibromofluoromethane (s)	0.480	0.484	-0.8	112	0.00	11.13
44	M	methacrylonitrile	0.221	0.222	-0.5	110	0.00	10.79
45	M	1,1,1-trichloroethane	0.558	0.537	3.8	104	0.00	11.24
46		cyclohexane	0.439	0.475	-8.2	115	0.00	11.35
47		1,1-dichloropropene	0.495	0.467	5.7	102	0.00	11.42
48		isobutyl alcohol	0.004	0.004	0.0	116	0.00	11.36
49		carbon tetrachloride	0.492	0.479	2.6	106	0.00	11.46
50		tert amyl alcohol	0.030	0.028	6.7	102	0.00	11.50
51	I	1,4-difluorobenzene	1.000	1.000	0.0	109	0.00	12.02
52	S	1,2-dichloroethane-d4 (s)	0.348	0.314	9.8	96	0.00	11.55
53	M	n-butyl alcohol	0.016	0.018	-12.5	111	0.00	12.08
54		2,2,4-trimethylpentane	0.560	0.157	72.0#	29#	0.00	11.75
55	M	benzene	0.992	0.972	2.0	107	0.00	11.67
56	M	tert-amyl methyl ether	0.188	0.128	31.9#	74	0.00	11.73
57	M	heptane	0.137	0.153	-11.7	119	0.00	11.91
58	M	isopropyl acetate	0.079	0.085	-7.6	117	0.00	11.60
59	M	1,2-dichloroethane	0.387	0.336	13.2	98	0.00	11.64
60	M	trichloroethene	0.252	0.276	-9.5	118	0.00	12.35
61		ethyl acrylate	0.451	0.426	5.5	102	0.00	12.34
62	M	2-nitropropane	0.105	0.090	14.3	97	0.00	13.00
63	M	2-chloroethyl vinyl ether	0.189	0.130	31.2#	74	0.00	13.05
64	M	methyl methacrylate	0.087	0.092	-5.7	116	0.00	12.59
65	M	1,2-dichloropropane	0.249	0.256	-2.8	108	0.00	12.57
66	M	dibromomethane	0.173	0.184	-6.4	115	0.00	12.70
67	M	methylcyclohexane	0.323	0.337	-4.3	113	0.00	12.60
68	M	bromodichloromethane	0.338	0.347	-2.7	109	0.00	12.82
69		epichlorohydrin	0.045	0.034	24.4#	82	0.00	13.14
70	M	cis-1,3-dichloropropene	0.391	0.406	-3.8	112	0.00	13.25
71	M	4-methyl-2-pentanone	0.140	0.145	-3.6	109	0.00	13.35
72	M	3-methyl-1-butanol	0.014	0.016	-14.3	120	0.00	13.33
73	I	chlorobenzene-d5	1.000	1.000	0.0	111	0.00	14.91
74	S	toluene-d8 (s)	1.350	1.342	0.6	110	0.00	13.55
75		toluene	0.725	0.716	1.2	109	0.00	13.62
76		trans-1,3-dichloropropene	0.467	0.483	-3.4	112	0.00	13.75
77		ethyl methacrylate	0.461	0.458	0.7	108	0.00	13.78
78		1,1,2-trichloroethane	0.248	0.267	-7.7	116	0.00	13.95
79	M	tetrachloroethene	0.268	0.277	-3.4	113	0.00	14.16
80	M	1,3-dichloropropane	0.475	0.481	-1.3	112	0.00	14.11
81		2-hexanone	0.191	0.193	-1.0	109	0.00	14.11
82	M	butyl acetate	0.278	0.284	-2.2	113	0.00	14.20
83	M	dibromochloromethane	0.337	0.382	-13.4	123	0.00	14.36
84	M	1,2-dibromoethane	0.377	0.486	-28.9#	139	0.00	14.50
85		n-butyl ether	1.196	1.046	12.5	96	0.00	14.90
86	M	chlorobenzene	0.774	0.795	-2.7	114	0.00	14.94
87	M	1,1,1,2-tetrachloroethane	0.281	0.310	-10.3	123	0.00	14.98
88	M	ethylbenzene	1.267	1.218	3.9	106	0.00	15.01
89	M	m,p-xylene	0.472	0.483	-2.3	111	0.00	15.10
90	M	o-xylene	0.461	0.467	-1.3	111	0.00	15.48
91	M	styrene	0.769	0.793	-3.1	112	0.00	15.47
92	M	bromoform	0.254	0.287	-13.0	125	0.00	15.68
93		butyl acrylate	0.662	0.636	3.9	104	0.00	15.30
94		isopropylbenzene	1.115	1.087	2.5	107	0.00	15.79
95		cis-1,4-dichloro-2-butene	0.164	0.142	13.4	101	0.00	15.80

Continuing Calibration Summary

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample: V4D4597-CC4496
Lab FileID: 4D103625.D

96	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	117	0.00	17.02
97	S	4-bromofluorobenzene (s)	1.009	0.958	5.1	112	0.00	15.95
98	M	bromobenzene	0.749	0.760	-1.5	116	0.00	16.13
99	M	1,1,2,2-tetrachloroethane	1.018	1.008	1.0	116	0.00	16.01
100	M	trans-1,4-dichloro-2-bute	0.271	0.223	17.7	97	0.00	16.05
101	M	1,2,3-trichloropropane	0.280	0.271	3.2	112	0.00	16.08
102	M	n-propylbenzene	2.966	2.754	7.1	108	0.00	16.16
103	M	2-chlorotoluene	0.645	0.645	0.0	113	0.00	16.28
104	M	4-chlorotoluene	1.828	1.736	5.0	109	0.00	16.37
105	M	1,3,5-trimethylbenzene	2.023	1.922	5.0	109	0.00	16.30
106	M	tert-butylbenzene	0.374	0.366	2.1	119	0.00	16.62
107	M	1,2,4-trimethylbenzene	2.043	1.925	5.8	109	0.00	16.65
108	M	sec-butylbenzene	2.315	2.164	6.5	110	0.00	16.81
109	M	1,3-dichlorobenzene	1.230	1.219	0.9	116	0.00	16.97
110	M	p-isopropyltoluene	1.919	1.828	4.7	109	0.00	16.92
111	M	1,4-dichlorobenzene	1.250	1.237	1.0	116	0.00	17.04
112		benzyl chloride	1.544	1.695	-9.8	125	0.00	17.13
113	M	1,2-dichlorobenzene	1.163	1.157	0.5	115	0.00	17.40
114	M	n-butylbenzene	0.875	0.850	2.9	113	0.00	17.30
115	M	1,2-dibromo-3-chloropropa	0.268	0.270	-0.7	117	0.00	18.10
116		1,3,5-trichlorobenzene	0.755	0.768	-1.7	120	0.00	18.32
		----------	True	Calc.	% Drift	----------		
117		2-ethylhexyl acrylate	4.000	3.981	0.5	123	0.00	18.91
		----------	AvgRF	CCRF	% Dev	----------		
118	M	1,2,4-trichlorobenzene	0.627	0.627	0.0	120	0.00	18.91
119	M	hexachlorobutadiene	0.285	0.257	9.8	107	0.00	19.05
120	M	naphthalene	1.804	1.713	5.0	116	0.00	19.17
121	M	1,2,3-trichlorobenzene	0.573	0.555	3.1	116	0.00	19.40
122	m	hexachloroethane	0.336	0.335	0.3	121	0.00	17.67
123		2-methylnaphthalene	0.718	0.668	7.0	111	0.00	20.26
124		bis(chloromethyl)ether		----------NA----------				
125		ethylenimine		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4D101410.D M4D4496.M Mon Jul 27 23:29:28 2020

Run Sequence Report

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Run ID: V2E8157	**Method:** SW846 8260C	**Instrument ID:** GCMS2E

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V2E8157-BFB	2E162815.D	07/14/20 17:48	n/a	BFB Tune
V2E8157-IC8157	2E162816.D	07/14/20 18:33	n/a	Initial cal 0.2
V2E8157-IC8157	2E162817.D	07/14/20 19:03	n/a	Initial cal 0.5
V2E8157-IC8157	2E162818.D	07/14/20 19:33	n/a	Initial cal 1
V2E8157-IC8157	2E162819.D	07/14/20 20:03	n/a	Initial cal 2
V2E8157-IC8157	2E162820.D	07/14/20 20:32	n/a	Initial cal 4
V2E8157-IC8157	2E162821.D	07/14/20 21:03	n/a	Initial cal 8
V2E8157-IC8157	2E162822.D	07/14/20 21:33	n/a	Initial cal 20
V2E8157-ICC8157	2E162823.D	07/14/20 22:03	n/a	Initial cal 50
V2E8157-IC8157	2E162824.D	07/14/20 22:33	n/a	Initial cal 100
V2E8157-IC8157	2E162825.D	07/14/20 23:03	n/a	Initial cal 200
V2E8157-ICV8157	2E162828.D	07/15/20 00:33	n/a	Initial cal verification 50
V2E8157-ICV8157	2E162829.D	07/15/20 01:03	n/a	Initial cal verification 50
V2E8157-BFB2	2E162833.D	07/15/20 11:51	n/a	BFB Tune
V2E8157-ICV8157	2E162834.D	07/15/20 12:22	n/a	Initial cal verification 50

Run Sequence Report

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Run ID: V2E8165	**Method:** SW846 8260C	**Instrument ID:** GCMS2E

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V2E8165-BFB	2E162969.D	07/20/20 11:05	n/a	BFB Tune
V2E8165-CC8157	2E162969.D	07/20/20 11:05	n/a	Continuing cal 20
V2E8165-BS	2E162970.D	07/20/20 11:42	n/a	Blank Spike
V2E8165-BSD	2E162971.D	07/20/20 12:12	n/a	Blank Spike Duplicate
V2E8165-MB	2E162973.D	07/20/20 13:12	n/a	Method Blank
ZZZZZZ	2E162974.D	07/20/20 13:51	n/a	(unrelated sample)
ZZZZZZ	2E162975.D	07/20/20 14:20	n/a	(unrelated sample)
ZZZZZZ	2E162976.D	07/20/20 14:50	n/a	(unrelated sample)
ZZZZZZ	2E162977.D	07/20/20 15:20	n/a	(unrelated sample)
JD10196-7	2E162978.D	07/20/20 15:50	n/a	(used for QC only; not part of job JD10241)
JD10196-7	2E162979.D	07/20/20 16:20	n/a	(used for QC only; not part of job JD10241)
JD10196-7MS	2E162980.D	07/20/20 16:50	n/a	Matrix Spike
JD10196-7MSD	2E162981.D	07/20/20 17:20	n/a	Matrix Spike Duplicate
JD10241-10	2E162983.D	07/20/20 18:20	n/a	CC1TB01T0720
JD10241-11	2E162984.D	07/20/20 18:50	n/a	CC1FB01F0720
JD10241-1	2E162985.D	07/20/20 19:20	n/a	CC1MW01G0720
JD10241-3	2E162986.D	07/20/20 19:50	n/a	CC1MW107G0720
JD10241-4	2E162987.D	07/20/20 20:20	n/a	CC1MW107H0720
JD10241-6	2E162988.D	07/20/20 20:50	n/a	CC1MWSB2G0720
JD10241-9	2E162989.D	07/20/20 21:19	n/a	CC1IDW01Z0720
JD10241-12	2E162990.D	07/20/20 21:49	n/a	CC1IDW02Z0720
JD10241-5	2E162991.D	07/20/20 22:19	n/a	CC1MW13DG0720
JD10241-7	2E162992.D	07/20/20 22:49	n/a	CC1STSW0720

Run Sequence Report

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Run ID: V4D4496	**Method:** SW846 8260C	**Instrument ID:** GCMS4D

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V4D4496-BFB	4D101403.D	04/16/20 15:37	n/a	BFB Tune
V4D4496-IC4496	4D101404.D	04/16/20 16:32	n/a	Initial cal 0.2
V4D4496-IC4496	4D101405.D	04/16/20 17:01	n/a	Initial cal 0.5
V4D4496-IC4496	4D101406.D	04/16/20 17:29	n/a	Initial cal 1
V4D4496-IC4496	4D101407.D	04/16/20 17:58	n/a	Initial cal 2
V4D4496-IC4496	4D101408.D	04/16/20 18:27	n/a	Initial cal 4
V4D4496-IC4496	4D101409.D	04/16/20 18:55	n/a	Initial cal 8
V4D4496-IC4496	4D101410.D	04/16/20 19:23	n/a	Initial cal 20
V4D4496-ICC4496	4D101411.D	04/16/20 19:52	n/a	Initial cal 50
V4D4496-IC4496	4D101412.D	04/16/20 20:21	n/a	Initial cal 100
V4D4496-IC4496	4D101413.D	04/16/20 20:49	n/a	Initial cal 200
V4D4496-ICV4496	4D101416.D	04/16/20 22:15	n/a	Initial cal verification 50
V4D4496-ICV4496	4D101417.D	04/16/20 22:44	n/a	Initial cal verification 50

Run Sequence Report

Job Number: JD10241
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Run ID: V4D4597	**Method:** SW846 8260C	**Instrument ID:** GCMS4D

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V4D4597-BFB	4D103625.D	07/27/20 08:27	n/a	BFB Tune
V4D4597-CC4496	4D103625.D	07/27/20 08:27	n/a	Continuing cal 20
V4D4597-BS	4D103627.D	07/27/20 09:35	n/a	Blank Spike
V4D4597-MB	4D103629.D	07/27/20 10:33	n/a	Method Blank
JD10241-2	4D103630.D	07/27/20 11:13	n/a	CC1MW106G0720
JD10241-7	4D103631.D	07/27/20 11:42	n/a	CC1STSW0720
JD10241-8	4D103632.D	07/27/20 12:11	n/a	CC1SDSW0720
JD10241-6	4D103633.D	07/27/20 12:41	n/a	CC1MWSB2G0720
ZZZZZZ	4D103634.D	07/27/20 13:10	n/a	(unrelated sample)
ZZZZZZ	4D103635.D	07/27/20 13:40	n/a	(unrelated sample)
ZZZZZZ	4D103636.D	07/27/20 14:09	n/a	(unrelated sample)
ZZZZZZ	4D103637.D	07/27/20 14:39	n/a	(unrelated sample)
ZZZZZZ	4D103638.D	07/27/20 15:08	n/a	(unrelated sample)
ZZZZZZ	4D103639.D	07/27/20 15:38	n/a	(unrelated sample)
JD10241-2MS	4D103640.D	07/27/20 16:08	n/a	Matrix Spike
JD10241-2MSD	4D103641.D	07/27/20 16:37	n/a	Matrix Spike Duplicate
ZZZZZZ	4D103643.D	07/27/20 17:37	n/a	(unrelated sample)
ZZZZZZ	4D103644.D	07/27/20 18:06	n/a	(unrelated sample)
ZZZZZZ	4D103645.D	07/27/20 18:36	n/a	(unrelated sample)
ZZZZZZ	4D103646.D	07/27/20 19:06	n/a	(unrelated sample)
ZZZZZZ	4D103647.D	07/27/20 19:35	n/a	(unrelated sample)
ZZZZZZ	4D103648.D	07/27/20 20:05	n/a	(unrelated sample)

MS Volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\July-2020\7-21\v2e8165-rush\
Data File : 2e162985.d
Acq On : 20 Jul 2020 7:20 pm
Operator : krizhkac
Sample : jd10241-1 Inst : VOAMS2E
Misc : MS44522,V2E8165,5,,,,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 21 01:10:48 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Fri Jul 17 14:25:39 2020
Response via : Initial Calibration

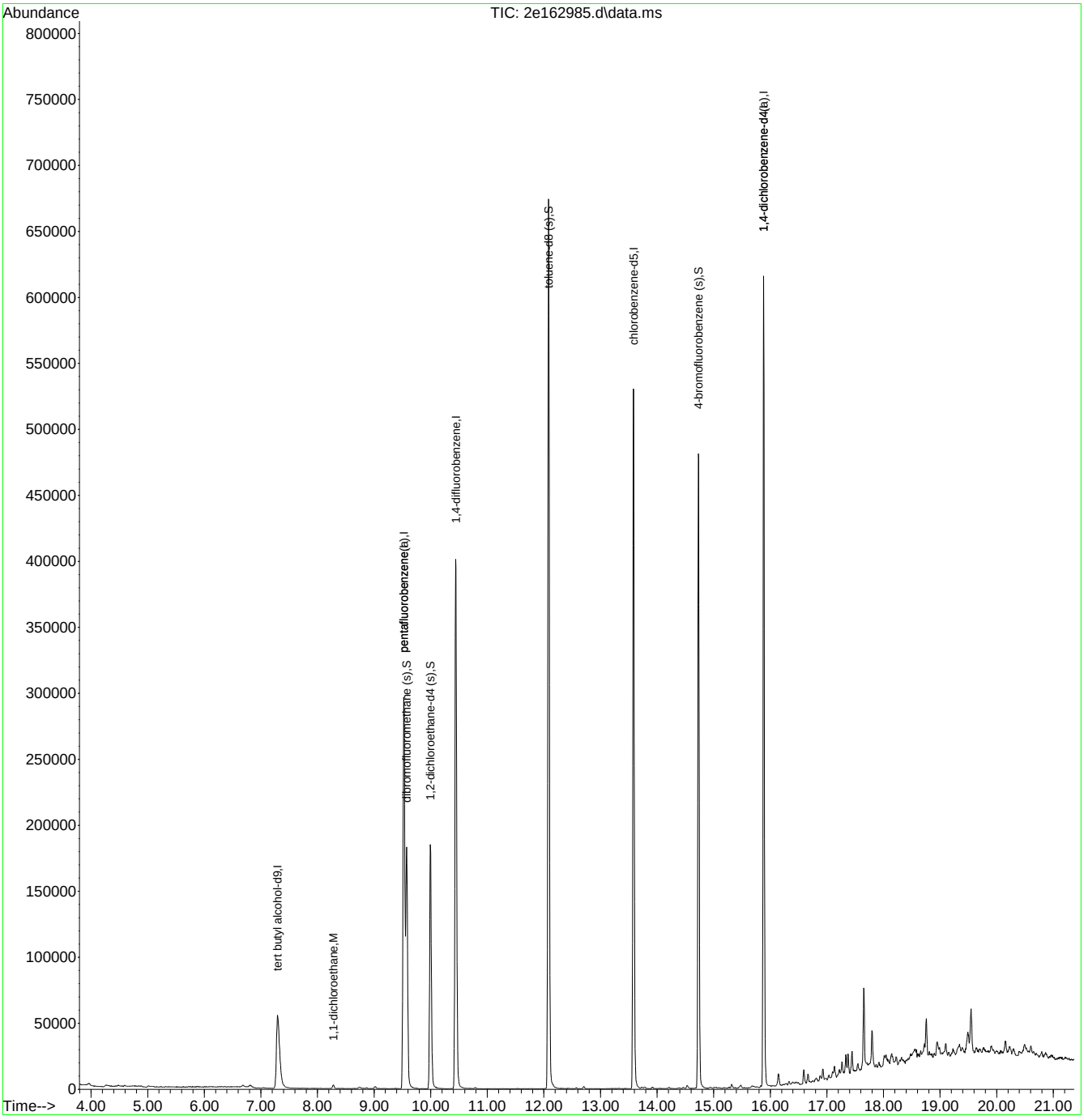
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.294	65	126362	500.00	ug/L	0.00
5) pentafluorobenzene	9.523	168	246504	50.00	ug/L	0.00
53) 1,4-difluorobenzene	10.446	114	369296	50.00	ug/L	0.00
74) chlorobenzene-d5	13.586	117	302246	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	15.883	152	152517	50.00	ug/L	0.00
127) pentafluorobenzene(a)	9.523	168	246504	50.00	ug/L	0.00
130) 1,4-dichlorobenzene-d4(a)	15.883	152	152517	50.00	ug/L	0.00
System Monitoring Compounds						
47) dibromofluoromethane (s)	9.575	113	123572	50.25	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.50%			
54) 1,2-dichloroethane-d4 (s)	9.995	65	140441	50.16	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 100.32%			
75) toluene-d8 (s)	12.081	98	469839	49.04	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 98.08%			
98) 4-bromofluorobenzene (s)	14.729	95	168680	48.97	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 97.94%			
Target Compounds						Qvalue
31) 1,1-dichloroethane	8.280	63	3370	0.56	ug/L	96

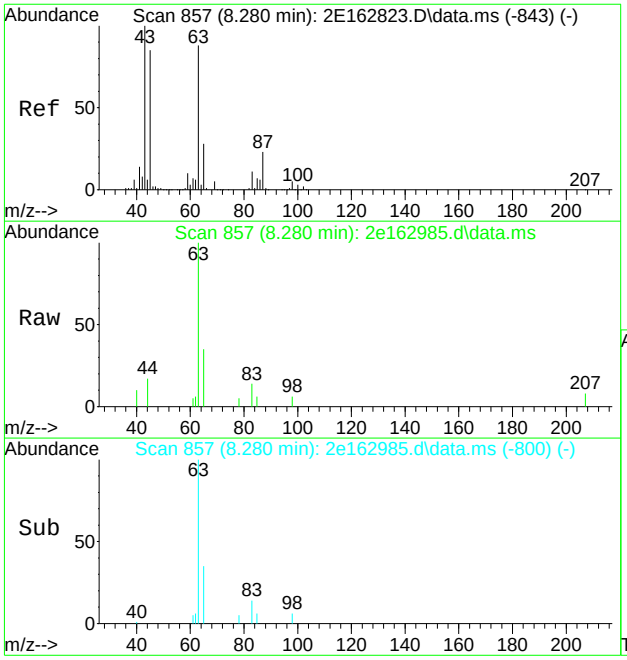
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\July-2020\7-21\v2e8165-rush\
Data File : 2e162985.d
Acq On : 20 Jul 2020 7:20 pm
Operator : krizhkac
Sample : jd10241-1 Inst : VOAMS2E
Misc : MS44522,V2E8165,5,,,,1
ALS Vial : 20 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 21 01:10:48 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Fri Jul 17 14:25:39 2020
Response via : Initial Calibration

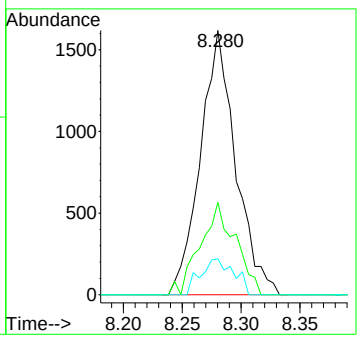




#31
1,1-dichloroethane
Concen: 0.56 ug/L
RT: 8.280 min Scan# 857
Delta R.T. 0.000 min
Lab File: 2e162985.d
Acq: 20 Jul 2020 7:20 pm

Tgt Ion: 63 Resp: 3370

Ion	Ratio	Lower	Upper
63	100		
65	35.0	2.4	62.4
83	13.6	0.0	42.4



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\janellac\07-28-2020\v4d4597\
Data File : 4d103630.d
Acq On : 27 Jul 2020 11:13 am
Operator : krizhkac
Sample : jd10241-2 Inst : MS4D
Misc : MS44522,V4D4597,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Results File: M4D4496.RES
Quant Time: Jul 27 22:10:38 2020
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 16:29:00 2020
Response via : Initial Calibration

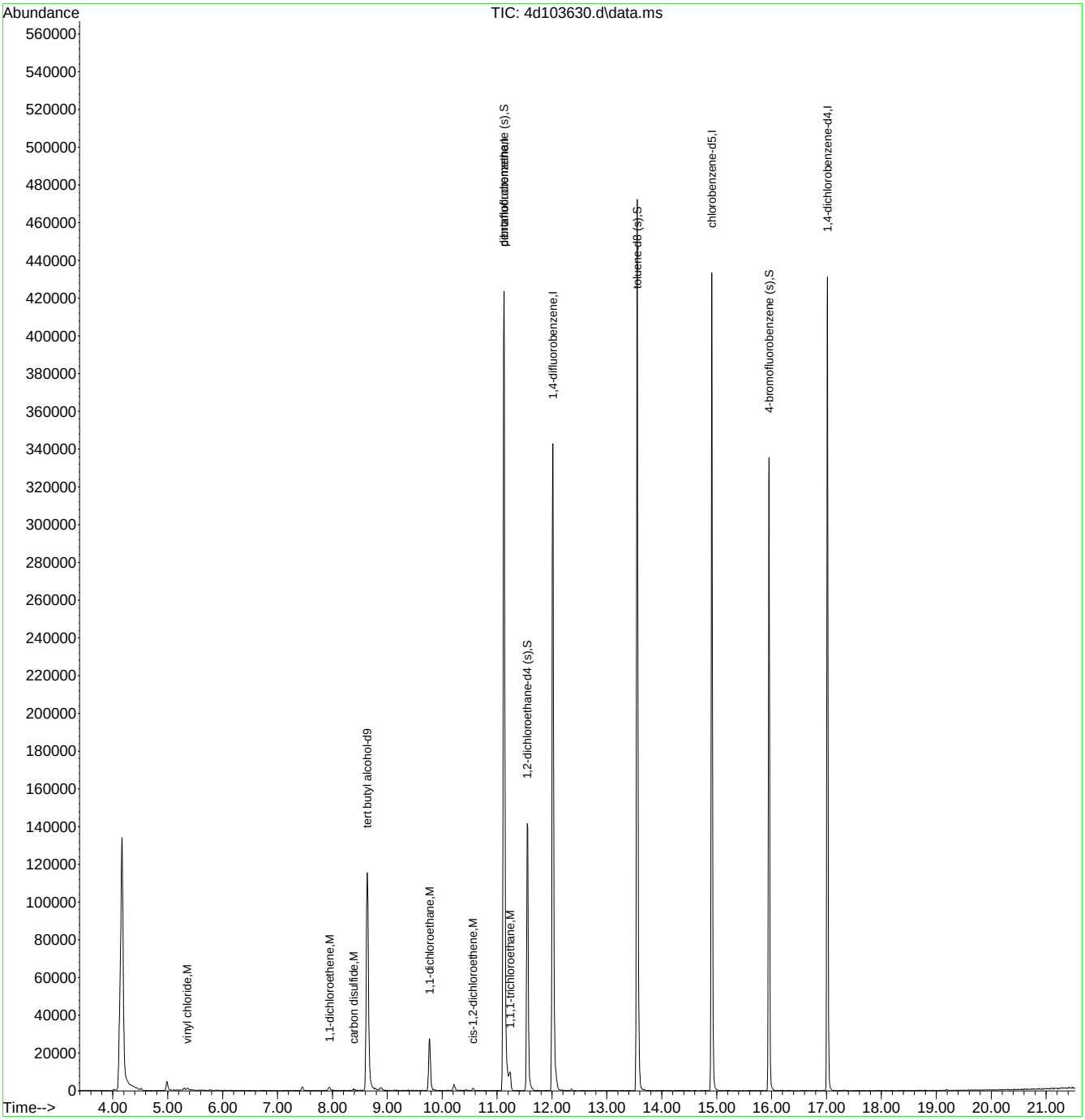
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	8.635	65	207665	500.00	ug/L	-0.01
5) pentafluorobenzene	11.125	168	233933	50.00	ug/L	0.00
51) 1,4-difluorobenzene	12.017	114	338439	50.00	ug/L	0.00
73) chlorobenzene-d5	14.911	117	254334	50.00	ug/L	0.00
96) 1,4-dichlorobenzene-d4	17.019	152	113344	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	11.125	113	115999	51.65	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 103.30%			
52) 1,2-dichloroethane-d4 (s)	11.550	65	107886	45.78	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 91.56%			
74) toluene-d8 (s)	13.553	98	342974	49.95	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.90%			
97) 4-bromofluorobenzene (s)	15.954	95	109213	47.76	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 95.52%			
Target Compounds						Qvalue
9) vinyl chloride	5.358	62	1718	0.88	ug/L	91
17) 1,1-dichloroethene	7.948	96	1205	0.74	ug/L #	76
21) carbon disulfide	8.389	76	1403	0.32	ug/L	67
28) 1,1-dichloroethane	9.768	63	36494	11.37	ug/L	99
36) cis-1,2-dichloroethene	10.559	96	881	0.45	ug/L #	77
45) 1,1,1-trichloroethane	11.241	97	6702	2.57	ug/L	93

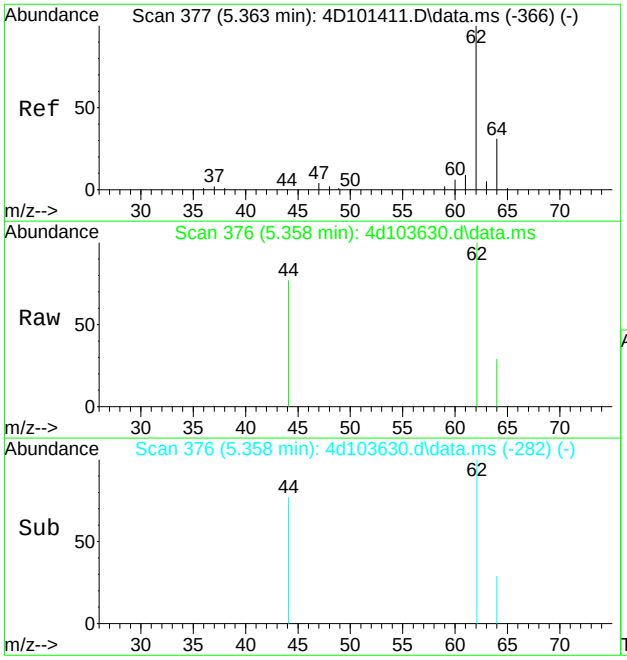
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\janellac\07-28-2020\v4d4597\
Data File : 4d103630.d
Acq On : 27 Jul 2020 11:13 am
Operator : krizhkac
Sample : jd10241-2 Inst : MS4D
Misc : MS44522,V4D4597,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Results File: M4D4496.RES
Quant Time: Jul 27 22:10:38 2020
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 16:29:00 2020
Response via : Initial Calibration

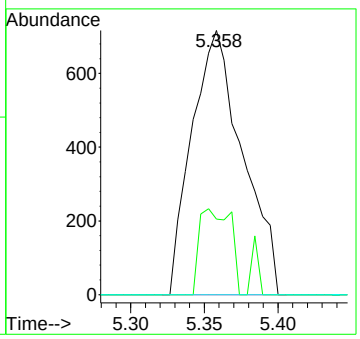


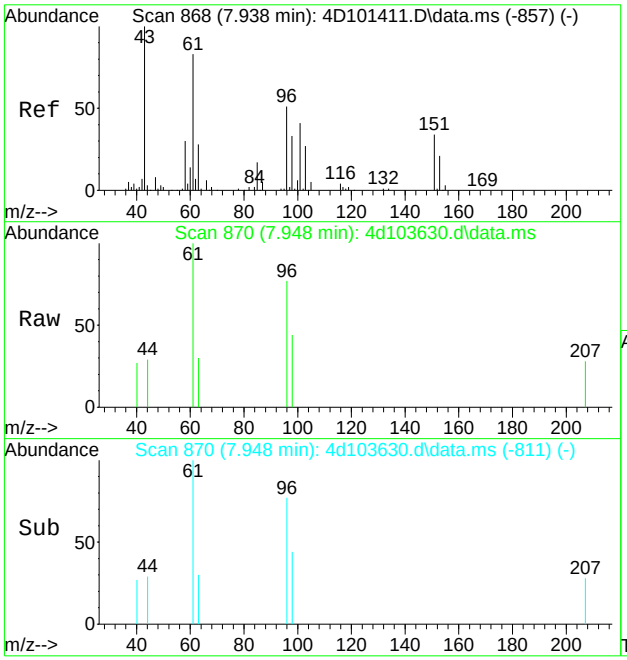


#9
vinyl chloride
Concen: 0.88 ug/L
RT: 5.358 min Scan# 376
Delta R.T. -0.005 min
Lab File: 4d103630.d
Acq: 27 Jul 2020 11:13 am

Tgt Ion: 62 Resp: 1718

Ion	Ratio	Lower	Upper
62	100		
64	28.6	0.7	60.7
61	0.0	0.0	39.0

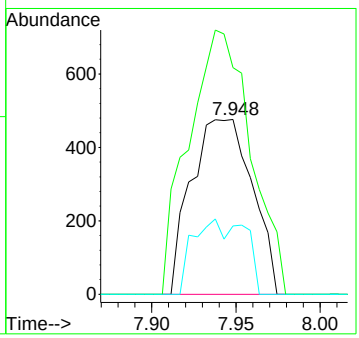


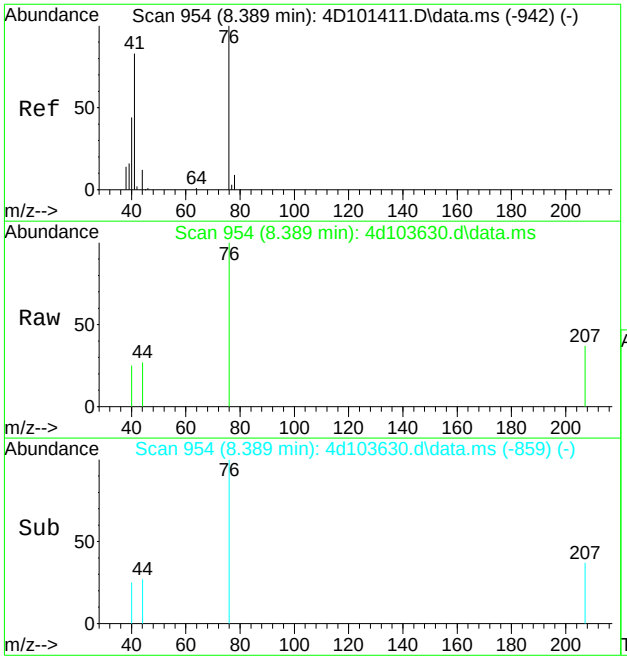


#17
1,1-dichloroethene
Concen: 0.74 ug/L
RT: 7.948 min Scan# 870
Delta R.T. 0.010 min
Lab File: 4d103630.d
Acq: 27 Jul 2020 11:13 am

Tgt Ion: 96 Resp: 1205

Ion	Ratio	Lower	Upper
96	100		
61	129.6	132.9	192.9#
63	39.1	24.9	84.9

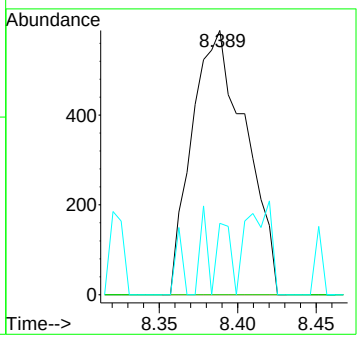


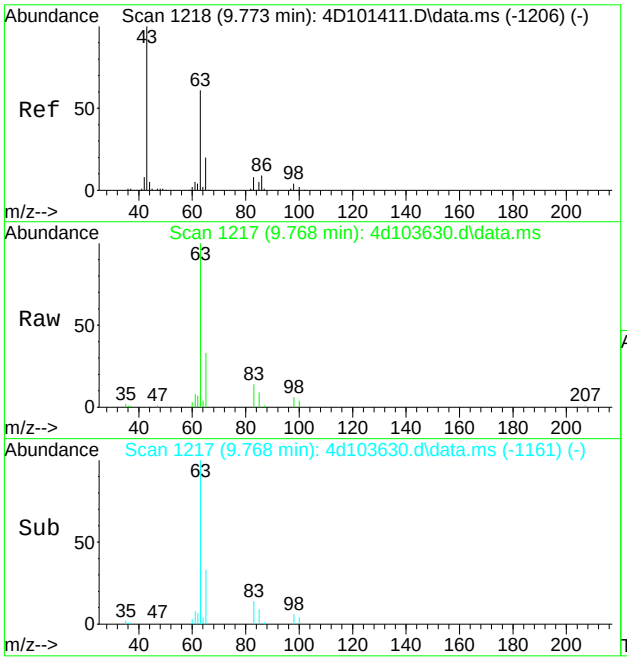


#21
carbon disulfide
Concen: 0.32 ug/L
RT: 8.389 min Scan# 954
Delta R.T. -0.000 min
Lab File: 4d103630.d
Acq: 27 Jul 2020 11:13 am

Tgt Ion: 76 Resp: 1403

Ion	Ratio	Lower	Upper
76	100		
78	0.0	0.0	39.3
44	27.0	0.0	42.2

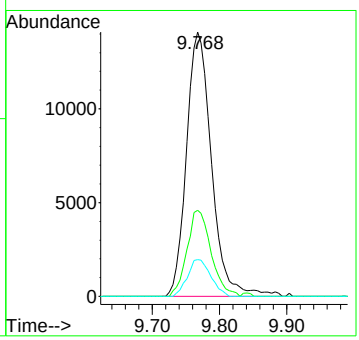


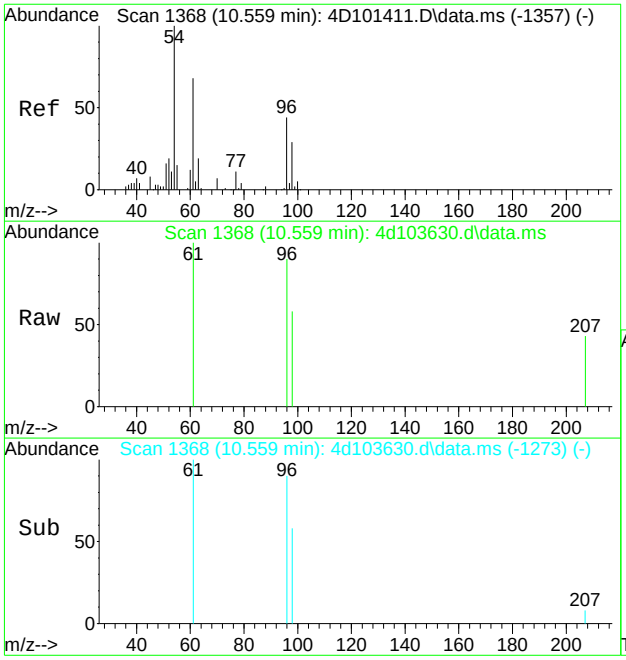


#28
1,1-dichloroethane
Concen: 11.37 ug/L
RT: 9.768 min Scan# 1217
Delta R.T. -0.005 min
Lab File: 4d103630.d
Acq: 27 Jul 2020 11:13 am

Tgt Ion: 63 Resp: 36494

Ion	Ratio	Lower	Upper
63	100		
65	32.6	1.9	61.9
83	13.9	0.0	43.3

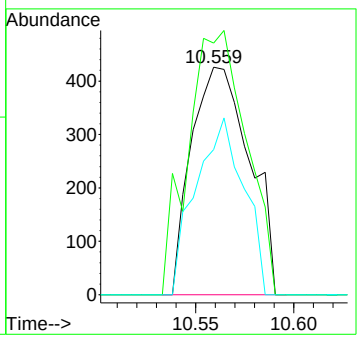


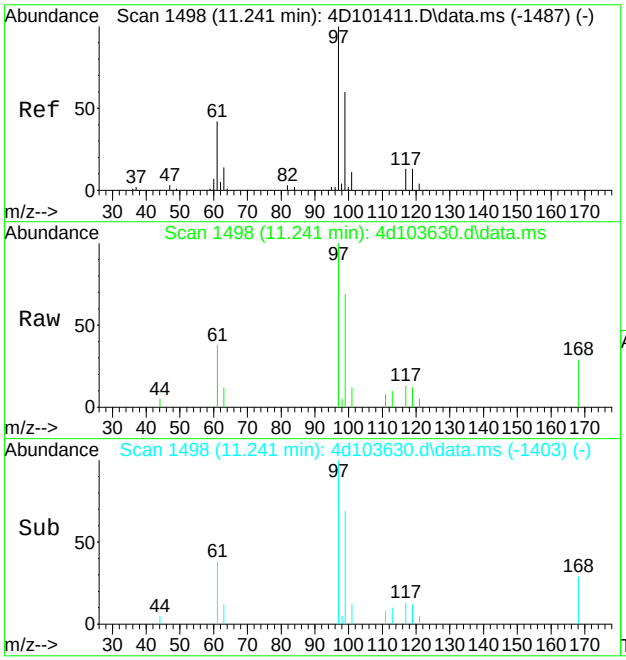


#36
cis-1,2-dichloroethene
Concen: 0.45 ug/L
RT: 10.559 min Scan# 1368
Delta R.T. -0.000 min
Lab File: 4d103630.d
Acq: 27 Jul 2020 11:13 am

Tgt Ion: 96 Resp: 881

Ion	Ratio	Lower	Upper
96	100		
61	110.6	122.3	182.3#
98	63.8	35.3	95.3

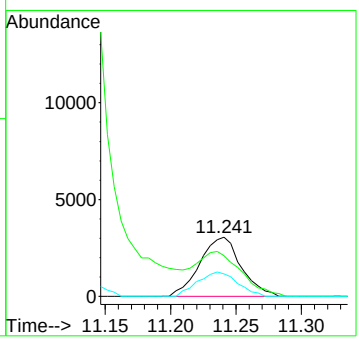




#45
1,1,1-trichloroethane
Concen: 2.57 ug/L
RT: 11.241 min Scan# 1498
Delta R.T. -0.000 min
Lab File: 4d103630.d
Acq: 27 Jul 2020 11:13 am

Tgt Ion: 97 Resp: 6702

Ion	Ratio	Lower	Upper
97	100		
99	68.6	33.0	93.0
61	38.1	11.7	71.7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\July-2020\7-21\v2e8165-rush\
Data File : 2e162986.d
Acq On : 20 Jul 2020 7:50 pm
Operator : krizhkac
Sample : jd10241-3 Inst : VOAMS2E
Misc : MS44522,V2E8165,5,,,,1
ALS Vial : 21 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 21 01:12:31 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Fri Jul 17 14:25:39 2020
Response via : Initial Calibration

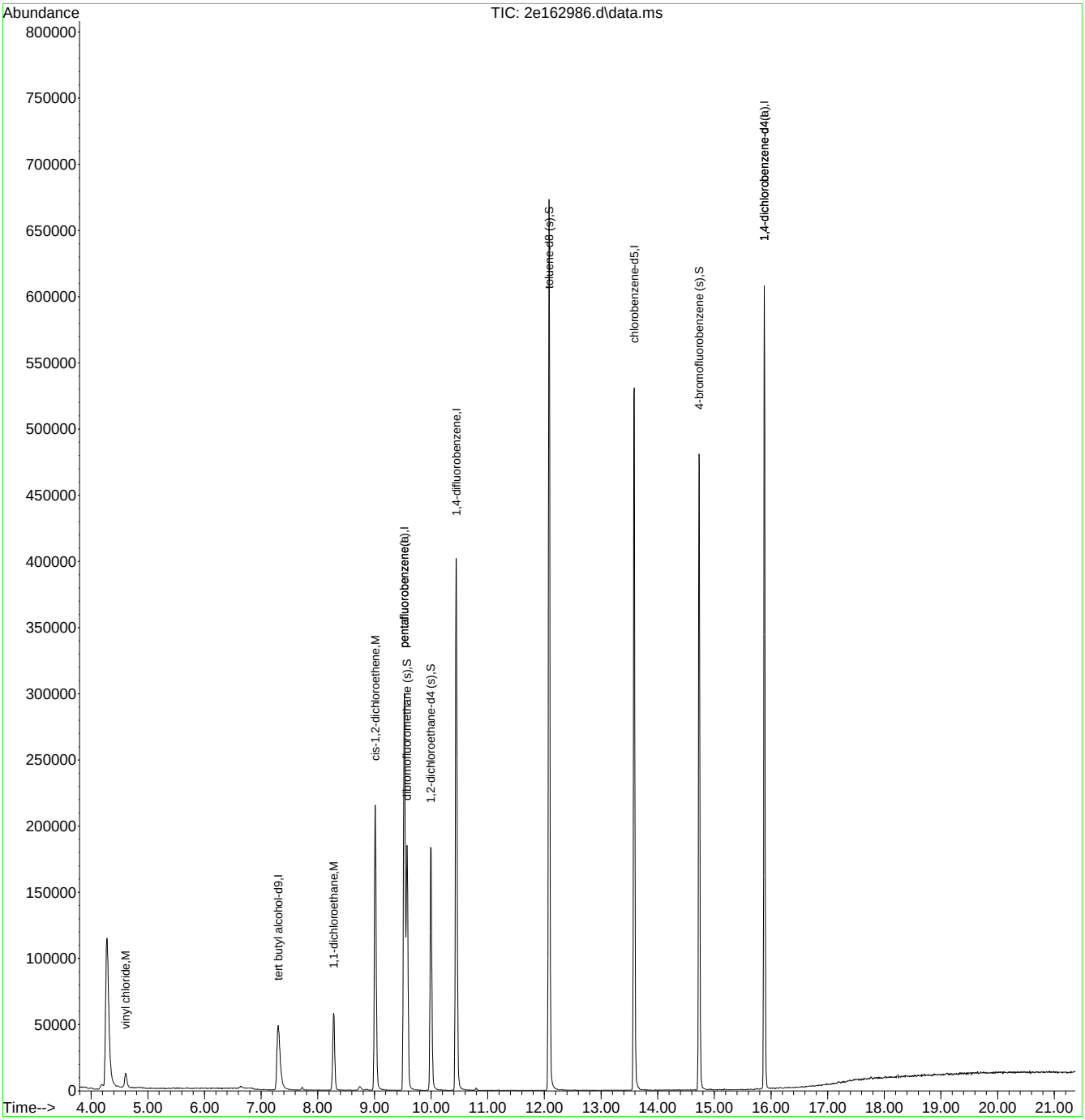
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.300	65	113752	500.00	ug/L	0.00
5) pentafluorobenzene	9.528	168	250194	50.00	ug/L	0.00
53) 1,4-difluorobenzene	10.446	114	370307	50.00	ug/L	0.00
74) chlorobenzene-d5	13.586	117	303776	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	15.883	152	150462	50.00	ug/L	0.00
127) pentafluorobenzene(a)	9.528	168	250194	50.00	ug/L	0.00
130) 1,4-dichlorobenzene-d4(a)	15.883	152	150462	50.00	ug/L	0.00
System Monitoring Compounds						
47) dibromofluoromethane (s)	9.575	113	124113	49.73	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.46%			
54) 1,2-dichloroethane-d4 (s)	9.995	65	141121	50.27	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 100.54%			
75) toluene-d8 (s)	12.081	98	473746	49.20	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 98.40%			
98) 4-bromofluorobenzene (s)	14.729	95	170546	50.19	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.38%			
Target Compounds						Qvalue
9) vinyl chloride	4.605	62	18976	3.61	ug/L	97
31) 1,1-dichloroethane	8.280	63	73681	12.00	ug/L	100
37) cis-1,2-dichloroethene	9.014	96	112764	31.84	ug/L #	82

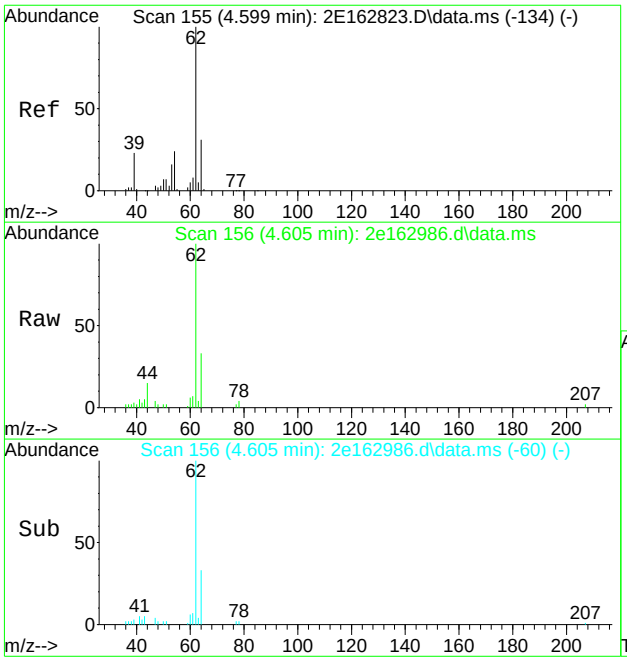
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\July-2020\7-21\v2e8165-rush\
Data File : 2e162986.d
Acq On : 20 Jul 2020 7:50 pm
Operator : krizhkac
Sample : jd10241-3 Inst : VOAMS2E
Misc : MS44522,V2E8165,5,,,,1
ALS Vial : 21 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 21 01:12:31 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Fri Jul 17 14:25:39 2020
Response via : Initial Calibration

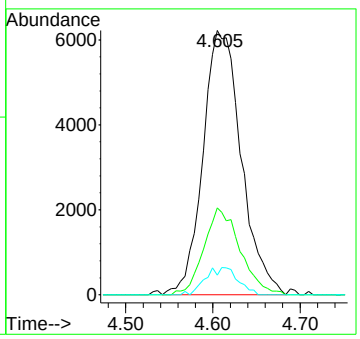


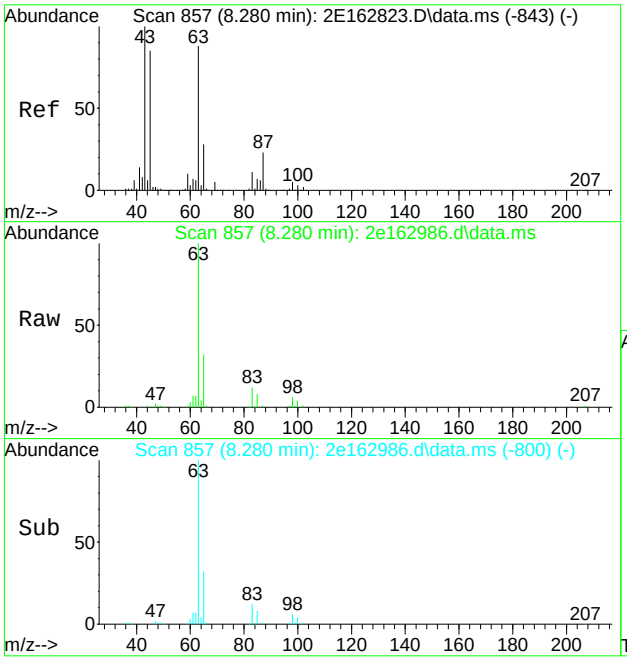


#9
vinyl chloride
Concen: 3.61 ug/L
RT: 4.605 min Scan# 156
Delta R.T. 0.006 min
Lab File: 2e162986.d
Acq: 20 Jul 2020 7:50 pm

Tgt Ion: 62 Resp: 18976

Ion	Ratio	Lower	Upper
62	100		
64	32.9	1.4	61.4
61	7.4	0.0	38.4

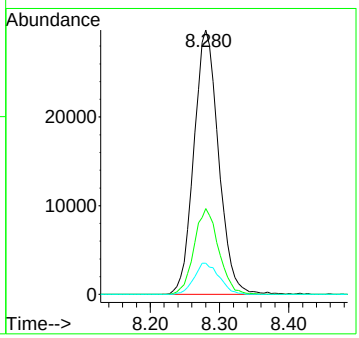


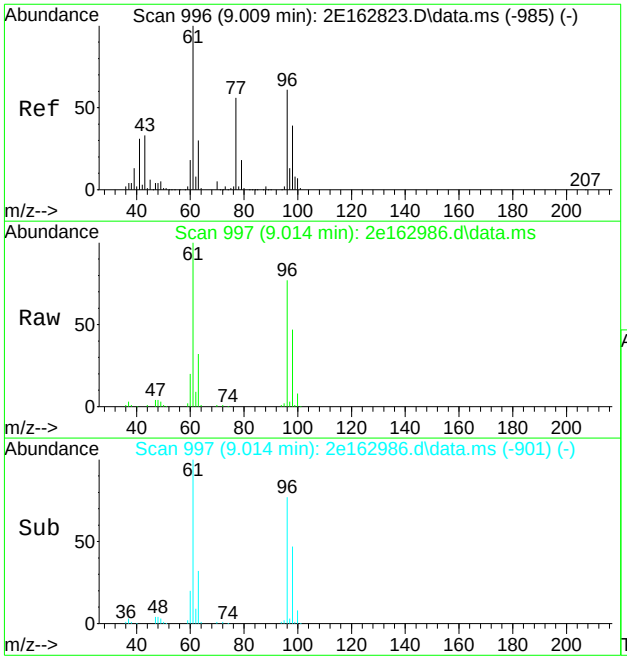


#31
1,1-dichloroethane
Concen: 12.00 ug/L
RT: 8.280 min Scan# 857
Delta R.T. 0.000 min
Lab File: 2e162986.d
Acq: 20 Jul 2020 7:50 pm

Tgt Ion: 63 Resp: 73681

Ion	Ratio	Lower	Upper
63	100		
65	32.4	2.4	62.4
83	11.8	0.0	42.4

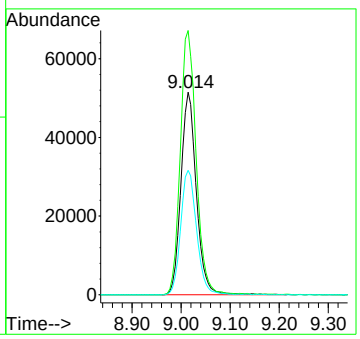




#37
cis-1,2-dichloroethene
Concen: 31.84 ug/L
RT: 9.014 min Scan# 997
Delta R.T. 0.005 min
Lab File: 2e162986.d
Acq: 20 Jul 2020 7:50 pm

Tgt Ion: 96 Resp: 112764

Ion	Ratio	Lower	Upper
96	100		
61	130.4	132.8	192.8#
98	61.3	34.0	94.0



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\July-2020\7-21\v2e8165-rush\
Data File : 2e162987.d
Acq On : 20 Jul 2020 8:20 pm
Operator : krizhkac
Sample : jd10241-4 Inst : VOAMS2E
Misc : MS44522,V2E8165,5,,,,1
ALS Vial : 22 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 21 01:14:04 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Fri Jul 17 14:25:39 2020
Response via : Initial Calibration

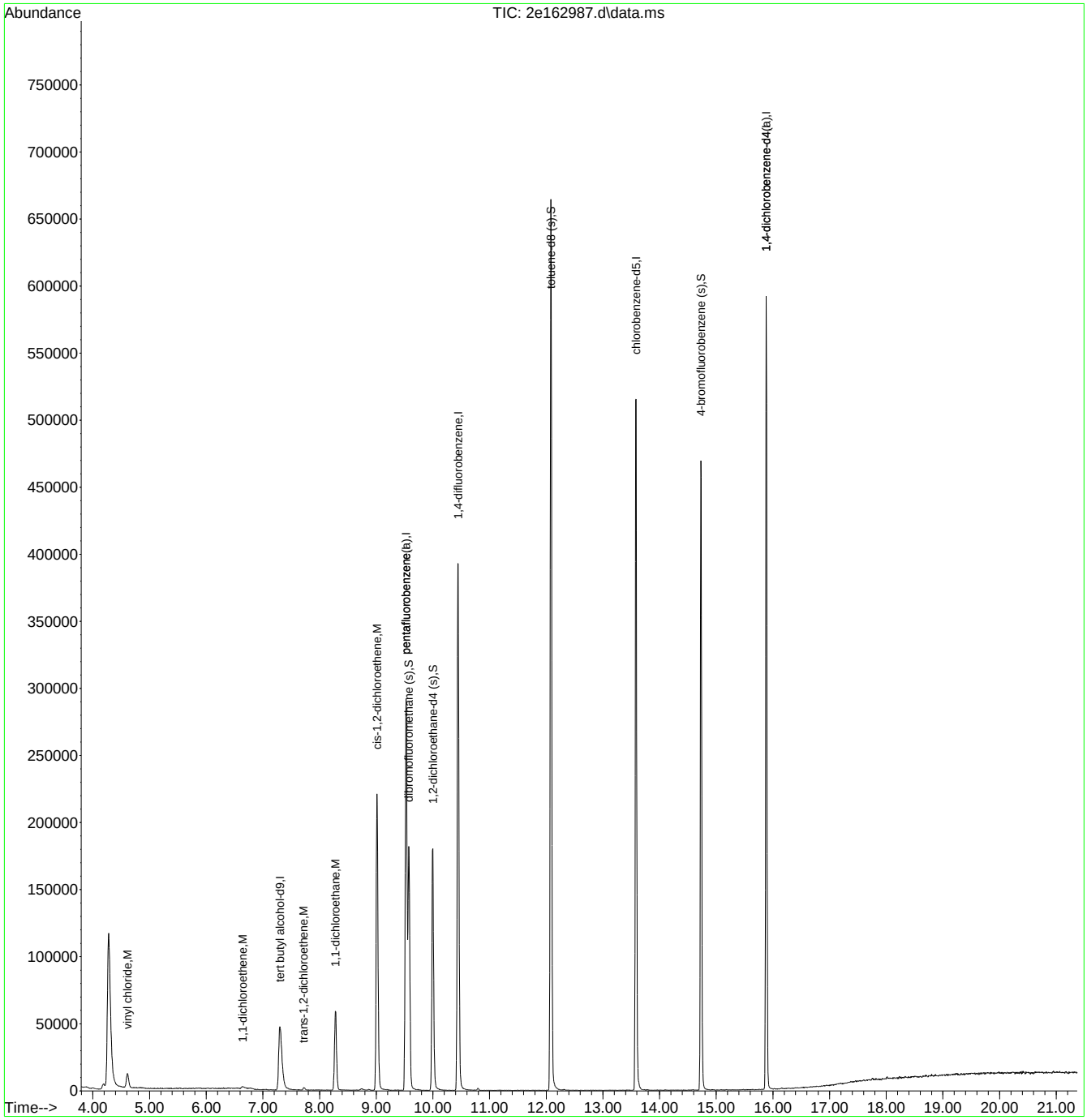
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.300	65	111378	500.00	ug/L	0.00
5) pentafluorobenzene	9.528	168	244083	50.00	ug/L	0.00
53) 1,4-difluorobenzene	10.445	114	363684	50.00	ug/L	0.00
74) chlorobenzene-d5	13.586	117	293796	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	15.882	152	146248	50.00	ug/L	0.00
127) pentafluorobenzene(a)	9.528	168	244083	50.00	ug/L	0.00
130) 1,4-dichlorobenzene-d4(a)	15.882	152	146248	50.00	ug/L	0.00
System Monitoring Compounds						
47) dibromofluoromethane (s)	9.575	113	121642	49.96	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.92%			
54) 1,2-dichloroethane-d4 (s)	10.000	65	138687	50.30	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 100.60%			
75) toluene-d8 (s)	12.081	98	464058	49.83	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.66%			
98) 4-bromofluorobenzene (s)	14.729	95	162383	49.16	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 98.32%			
Target Compounds						Qvalue
9) vinyl chloride	4.610	62	18507	3.61	ug/L	96
18) 1,1-dichloroethene	6.644	61	1253	0.26	ug/L	78
26) trans-1,2-dichloroethene	7.719	61	1405	0.29	ug/L	86
31) 1,1-dichloroethane	8.280	63	75358	12.58	ug/L	99
37) cis-1,2-dichloroethene	9.014	96	116499	33.72	ug/L	84

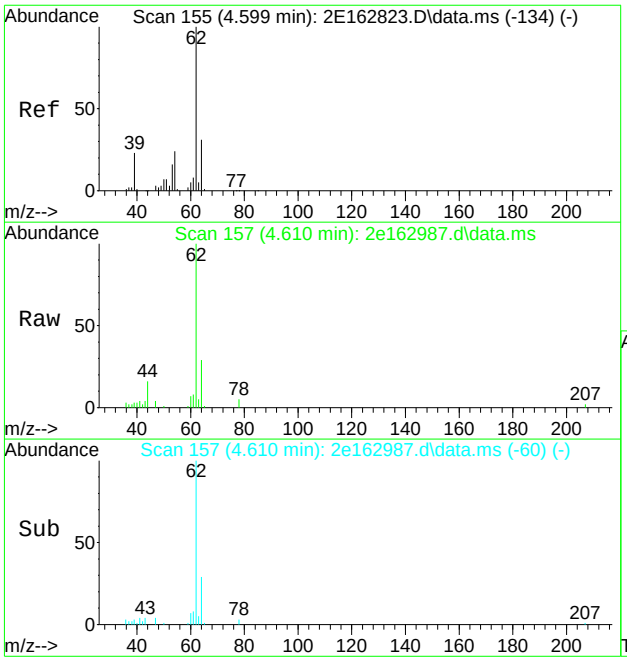
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\July-2020\7-21\v2e8165-rush\
Data File : 2e162987.d
Acq On : 20 Jul 2020 8:20 pm
Operator : krizhkac
Sample : jd10241-4 Inst : VOAMS2E
Misc : MS44522,V2E8165,5,,,,1
ALS Vial : 22 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 21 01:14:04 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Fri Jul 17 14:25:39 2020
Response via : Initial Calibration

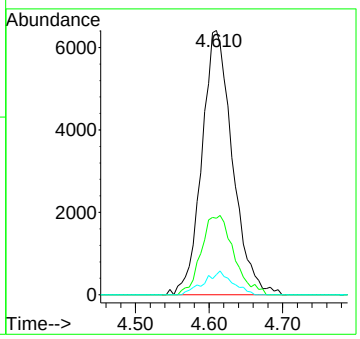


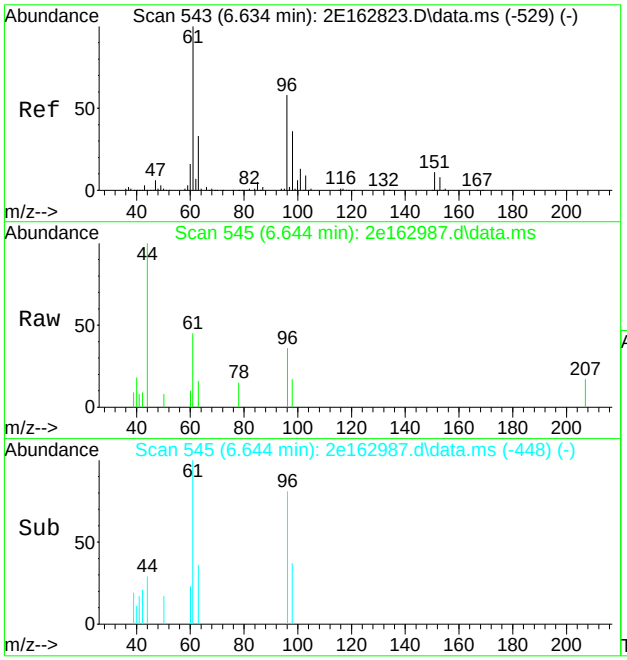


#9
vinyl chloride
Concen: 3.61 ug/L
RT: 4.610 min Scan# 157
Delta R.T. 0.011 min
Lab File: 2e162987.d
Acq: 20 Jul 2020 8:20 pm

Tgt Ion: 62 Resp: 18507

Ion	Ratio	Lower	Upper
62	100		
64	28.9	1.4	61.4
61	7.6	0.0	38.4

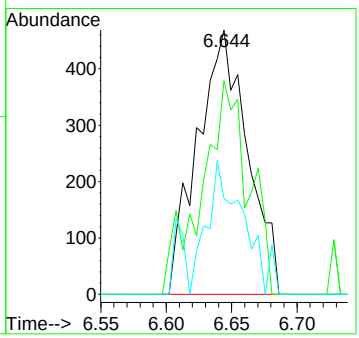


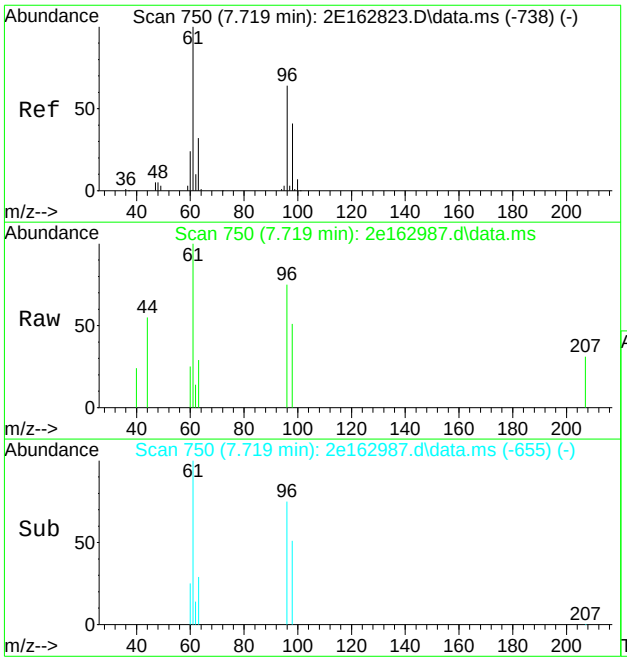


#18
1,1-dichloroethene
Concen: 0.26 ug/L
RT: 6.644 min Scan# 545
Delta R.T. 0.010 min
Lab File: 2e162987.d
Acq: 20 Jul 2020 8:20 pm

Tgt Ion: 61 Resp: 1253

Ion	Ratio	Lower	Upper
61	100		
96	80.8	27.8	87.8
63	36.2	2.6	62.6

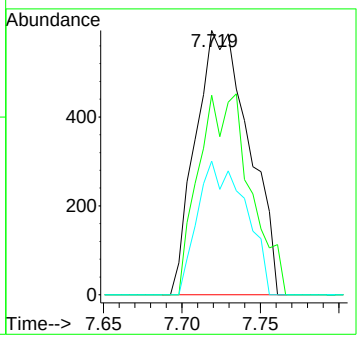


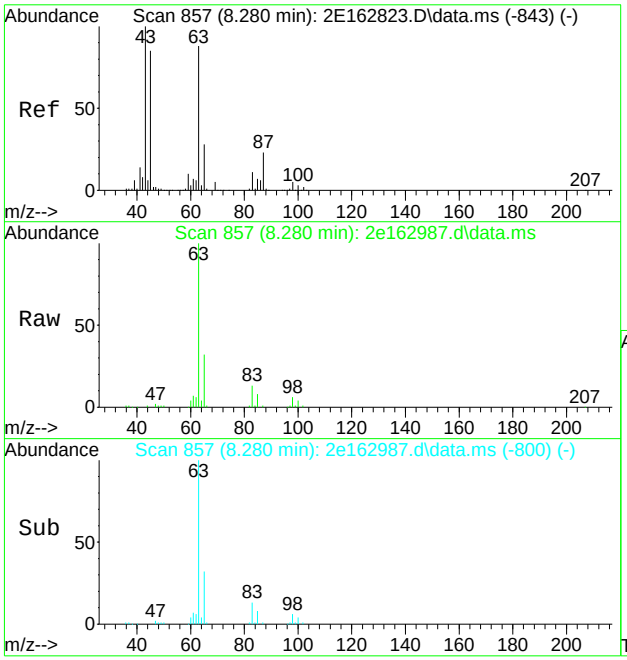


#26
trans-1,2-dichloroethene
Concen: 0.29 ug/L
RT: 7.719 min Scan# 750
Delta R.T. -0.000 min
Lab File: 2e162987.d
Acq: 20 Jul 2020 8:20 pm

Tgt Ion: 61 Resp: 1405

Ion	Ratio	Lower	Upper
61	100		
96	75.5	34.3	94.3
98	50.6	11.3	71.3

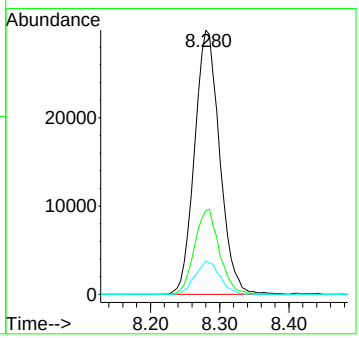


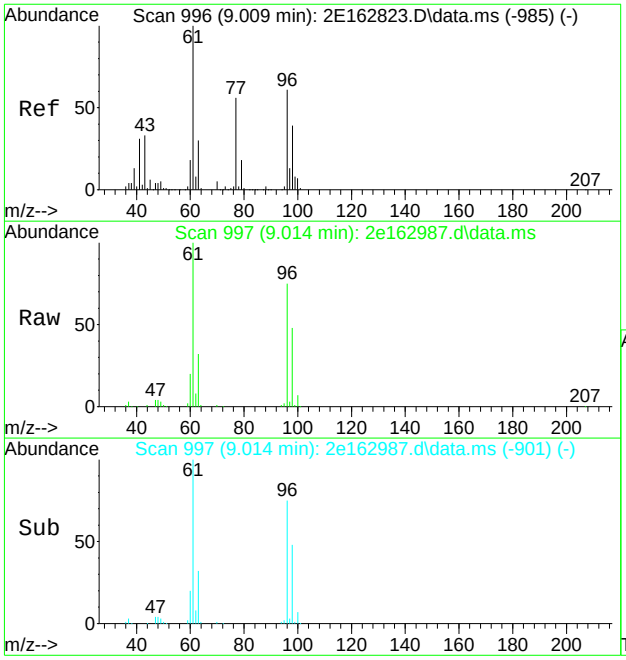


#31
1,1-dichloroethane
Concen: 12.58 ug/L
RT: 8.280 min Scan# 857
Delta R.T. -0.000 min
Lab File: 2e162987.d
Acq: 20 Jul 2020 8:20 pm

Tgt Ion: 63 Resp: 75358

Ion	Ratio	Lower	Upper
63	100		
65	31.7	2.4	62.4
83	12.6	0.0	42.4

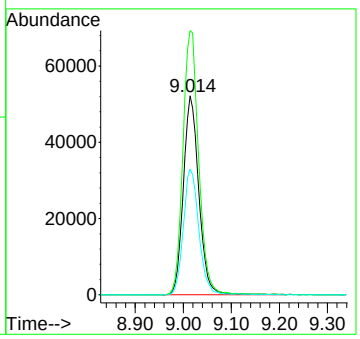




#37
cis-1,2-dichloroethene
Concen: 33.72 ug/L
RT: 9.014 min Scan# 997
Delta R.T. 0.005 min
Lab File: 2e162987.d
Acq: 20 Jul 2020 8:20 pm

Tgt Ion: 96 Resp: 116499

Ion	Ratio	Lower	Upper
96	100		
61	132.9	132.8	192.8
98	63.3	34.0	94.0



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\kristelv\july 2020\07222020\v2e8165 rest of batch\
Data File : 2e162991.d
Acq On : 20 Jul 2020 10:19 pm
Operator : krizhkac
Sample : jd10241-5 Inst : VOAMS2E
Misc : MS44522,V2E8165,5,,,,10
ALS Vial : 26 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 21 10:05:10 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Jul 16 11:01:59 2020
Response via : Initial Calibration

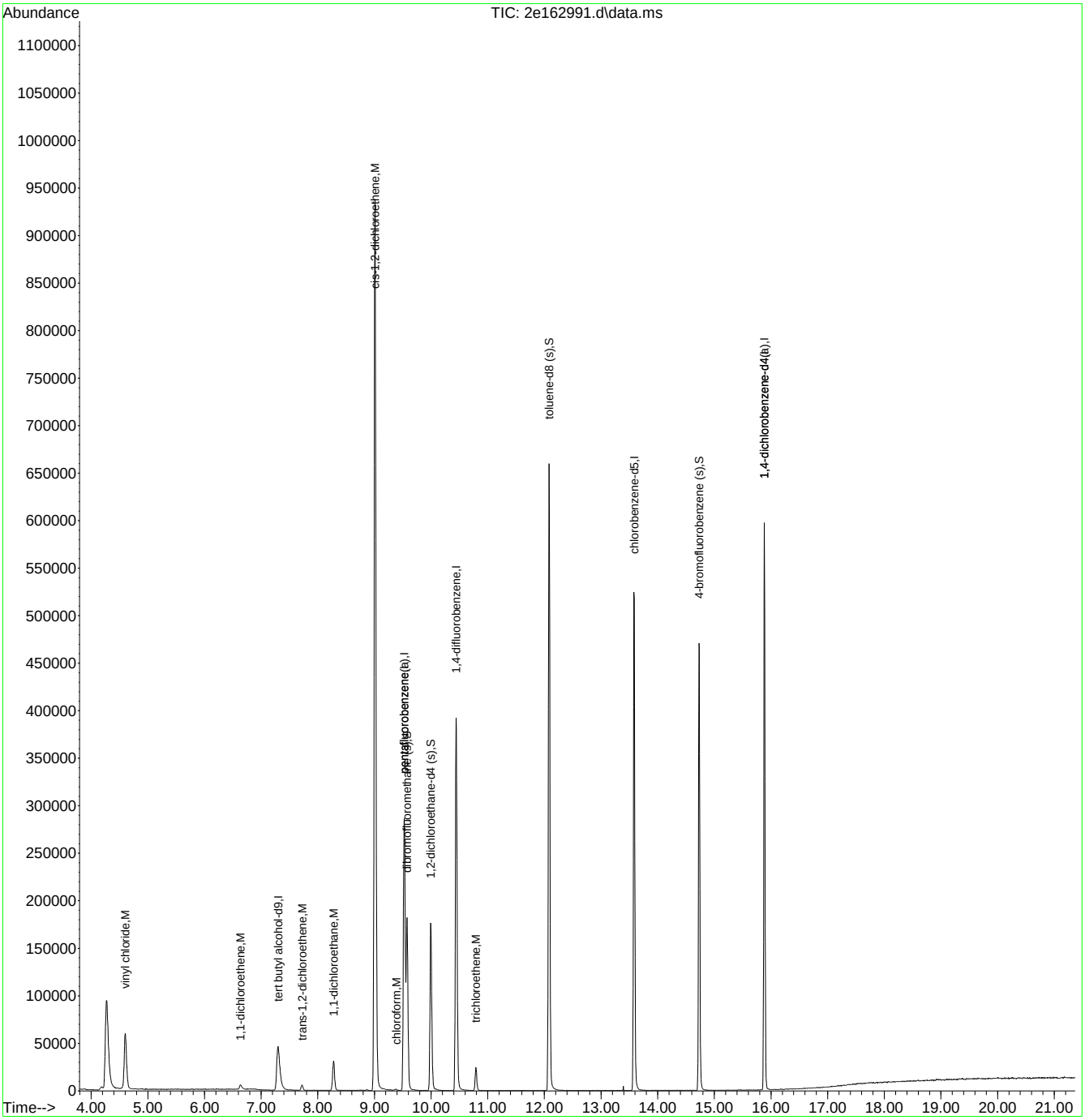
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.300	65	105813	500.00	ug/L	0.00
5) pentafluorobenzene	9.528	168	241546	50.00	ug/L	0.00
53) 1,4-difluorobenzene	10.440	114	359689	50.00	ug/L	0.00
74) chlorobenzene-d5	13.586	117	295573	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	15.883	152	145415	50.00	ug/L	0.00
127) pentafluorobenzene(a)	9.528	168	241546	50.00	ug/L	0.00
130) 1,4-dichlorobenzene-d4(a)	15.883	152	145415	50.00	ug/L	0.00
System Monitoring Compounds						
47) dibromofluoromethane (s)	9.575	113	121430	50.40	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.80%			
54) 1,2-dichloroethane-d4 (s)	9.995	65	135877	49.83	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 99.66%			
75) toluene-d8 (s)	12.081	98	461492	49.26	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 98.52%			
98) 4-bromofluorobenzene (s)	14.729	95	162236	49.40	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 98.80%			
Target Compounds						Qvalue
9) vinyl chloride	4.599	62	105117	20.74	ug/L	99
18) 1,1-dichloroethene	6.634	61	4771	0.99	ug/L	98
26) trans-1,2-dichloroethene	7.724	61	4343	0.92	ug/L	92
31) 1,1-dichloroethane	8.280	63	38936	6.57	ug/L	100
37) cis-1,2-dichloroethene	9.009	96	486030	142.16	ug/L	85
42) chloroform	9.386	83	1254	0.23	ug/L	90
62) trichloroethene	10.791	95	9700	3.25	ug/L	95

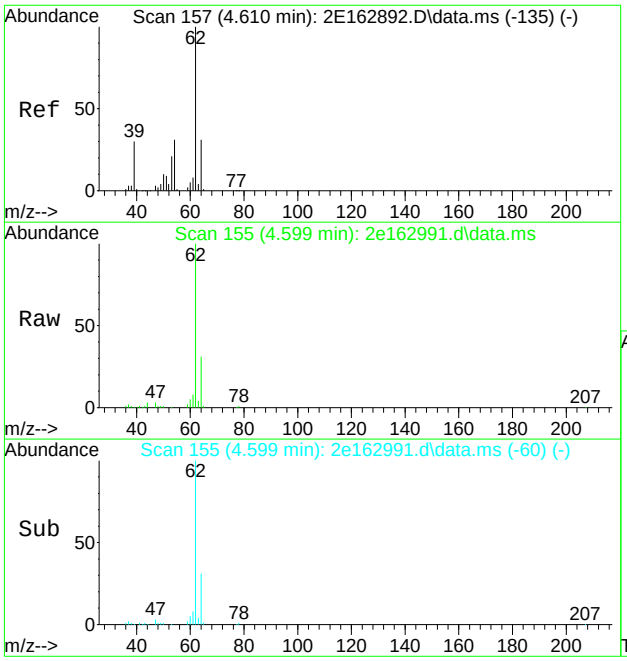
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\kristelv\july 2020\07222020\v2e8165 rest of batch\
Data File : 2e162991.d
Acq On : 20 Jul 2020 10:19 pm
Operator : krizhkac
Sample : jd10241-5 Inst : VOAMS2E
Misc : MS44522,V2E8165,5,,,,10
ALS Vial : 26 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 21 10:05:10 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Jul 16 11:01:59 2020
Response via : Initial Calibration

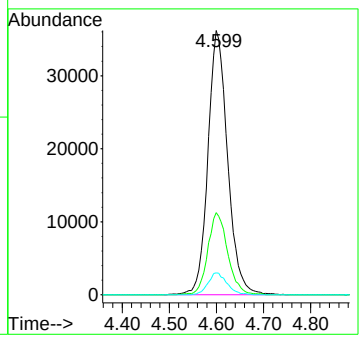


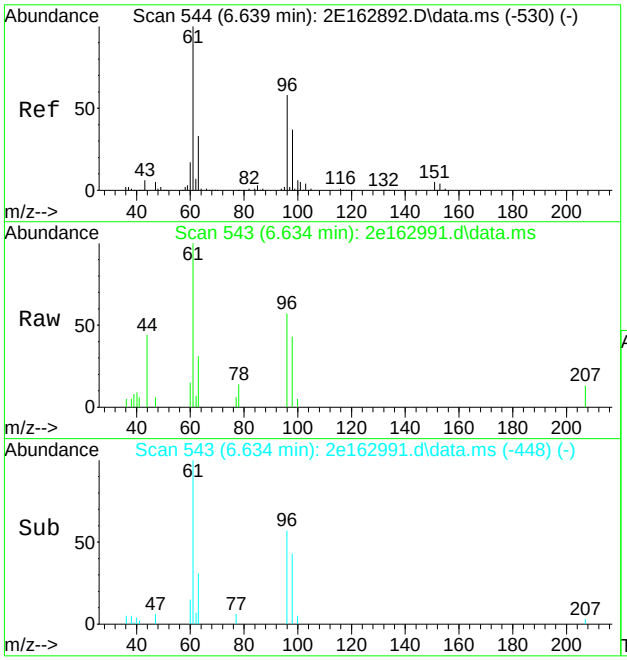


#9
vinyl chloride
Concen: 20.74 ug/L
RT: 4.599 min Scan# 155
Delta R.T. 0.000 min
Lab File: 2e162991.d
Acq: 20 Jul 2020 10:19 pm

Tgt Ion: 62 Resp: 105117

Ion	Ratio	Lower	Upper
62	100		
64	31.0	1.4	61.4
61	8.3	0.0	38.4

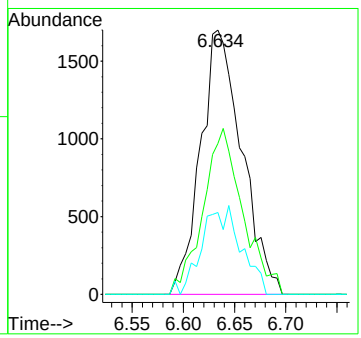


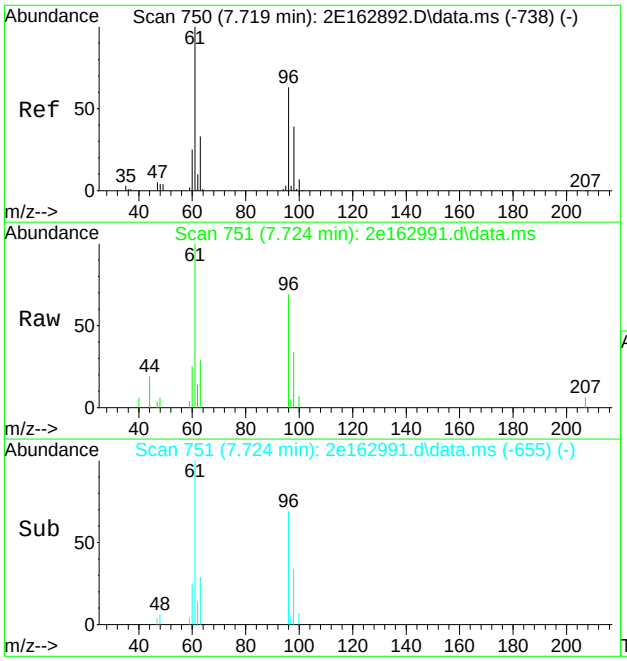


#18
1,1-dichloroethene
Concen: 0.99 ug/L
RT: 6.634 min Scan# 543
Delta R.T. -0.000 min
Lab File: 2e162991.d
Acq: 20 Jul 2020 10:19 pm

Tgt Ion: 61 Resp: 4771

Ion	Ratio	Lower	Upper
61	100		
96	57.1	27.8	87.8
63	31.0	2.6	62.6

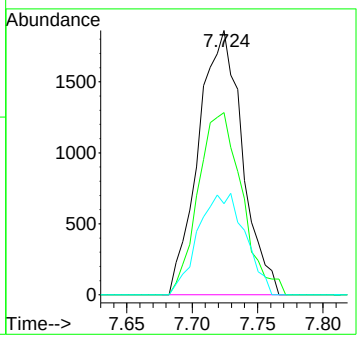


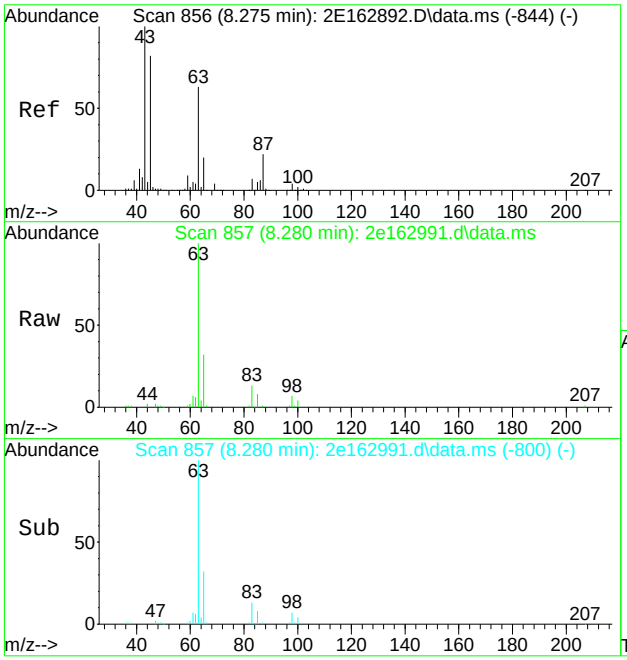


#26
trans-1,2-dichloroethene
Concen: 0.92 ug/L
RT: 7.724 min Scan# 751
Delta R.T. 0.005 min
Lab File: 2e162991.d
Acq: 20 Jul 2020 10:19 pm

Tgt Ion: 61 Resp: 4343

Ion	Ratio	Lower	Upper
61	100		
96	68.9	34.3	94.3
98	34.5	11.3	71.3

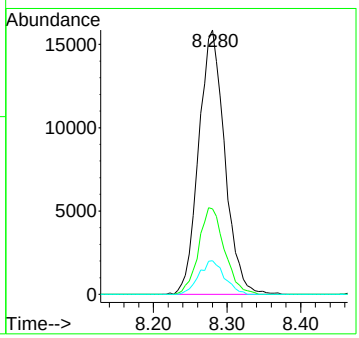


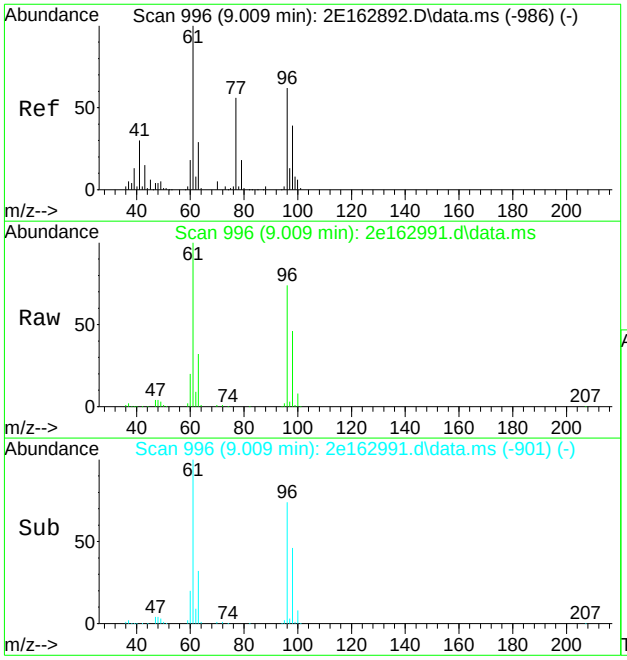


#31
1,1-dichloroethane
Concen: 6.57 ug/L
RT: 8.280 min Scan# 857
Delta R.T. 0.000 min
Lab File: 2e162991.d
Acq: 20 Jul 2020 10:19 pm

Tgt Ion: 63 Resp: 38936

Ion	Ratio	Lower	Upper
63	100		
65	32.4	2.4	62.4
83	12.8	0.0	42.4

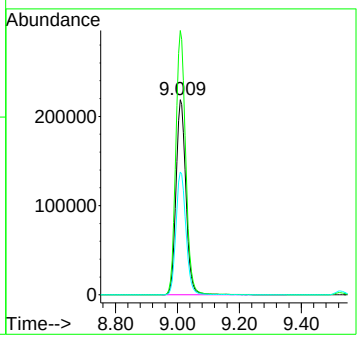


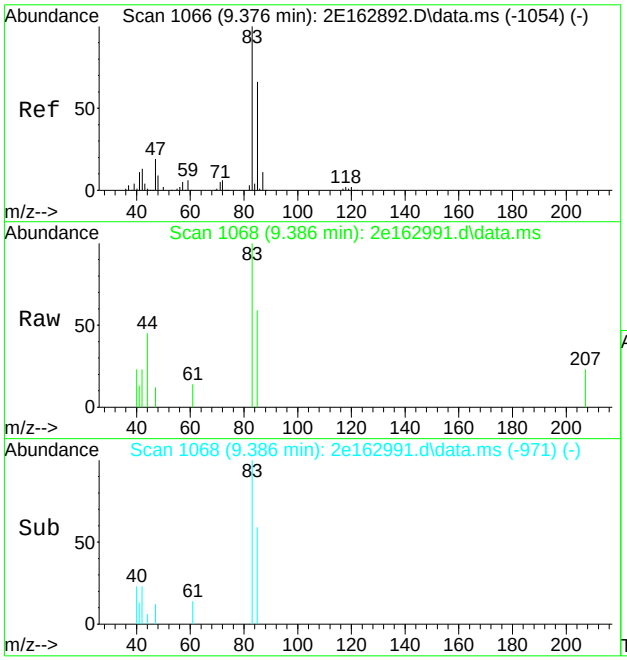


#37
cis-1,2-dichloroethene
Concen: 142.16 ug/L
RT: 9.009 min Scan# 996
Delta R.T. -0.000 min
Lab File: 2e162991.d
Acq: 20 Jul 2020 10:19 pm

Tgt Ion: 96 Resp: 486030

Ion	Ratio	Lower	Upper
96	100		
61	135.5	132.8	192.8
98	63.0	34.0	94.0

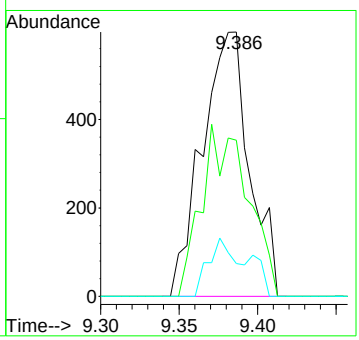


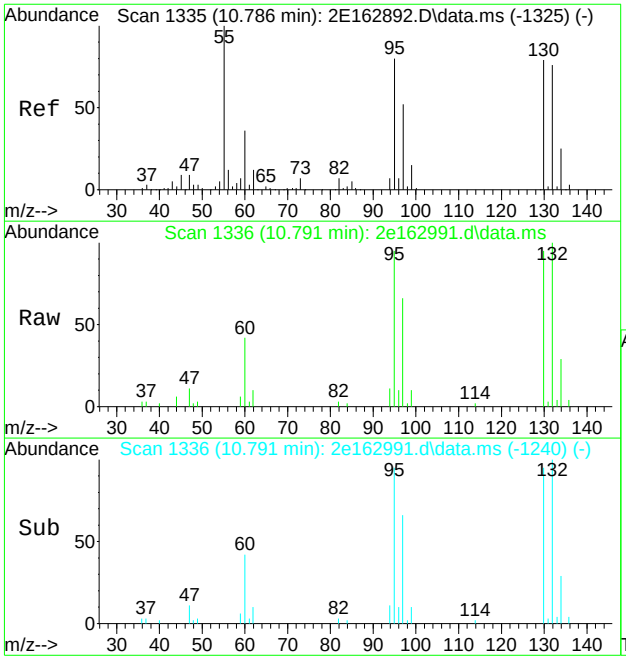


#42
chloroform
Concen: 0.23 ug/L
RT: 9.386 min Scan# 1068
Delta R.T. 0.010 min
Lab File: 2e162991.d
Acq: 20 Jul 2020 10:19 pm

Tgt Ion: 83 Resp: 1254

Ion	Ratio	Lower	Upper
83	100		
85	59.0	33.5	93.5
47	12.4	0.0	53.0

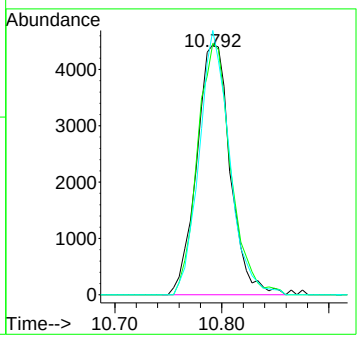




#62
trichloroethene
Concen: 3.25 ug/L
RT: 10.791 min Scan# 1336
Delta R.T. 0.005 min
Lab File: 2e162991.d
Acq: 20 Jul 2020 10:19 pm

Tgt Ion: 95 Resp: 9700

Ion	Ratio	Lower	Upper
95	100		
130	100.6	69.0	129.0
132	105.8	68.2	128.2



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\July-2020\7-21\v2e8165-rush\
Data File : 2e162988.d
Acq On : 20 Jul 2020 8:50 pm
Operator : krizhkac
Sample : jd10241-6 Inst : VOAMS2E
Misc : MS44522,V2E8165,5,,,,1
ALS Vial : 23 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 21 01:16:13 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Fri Jul 17 14:25:39 2020
Response via : Initial Calibration

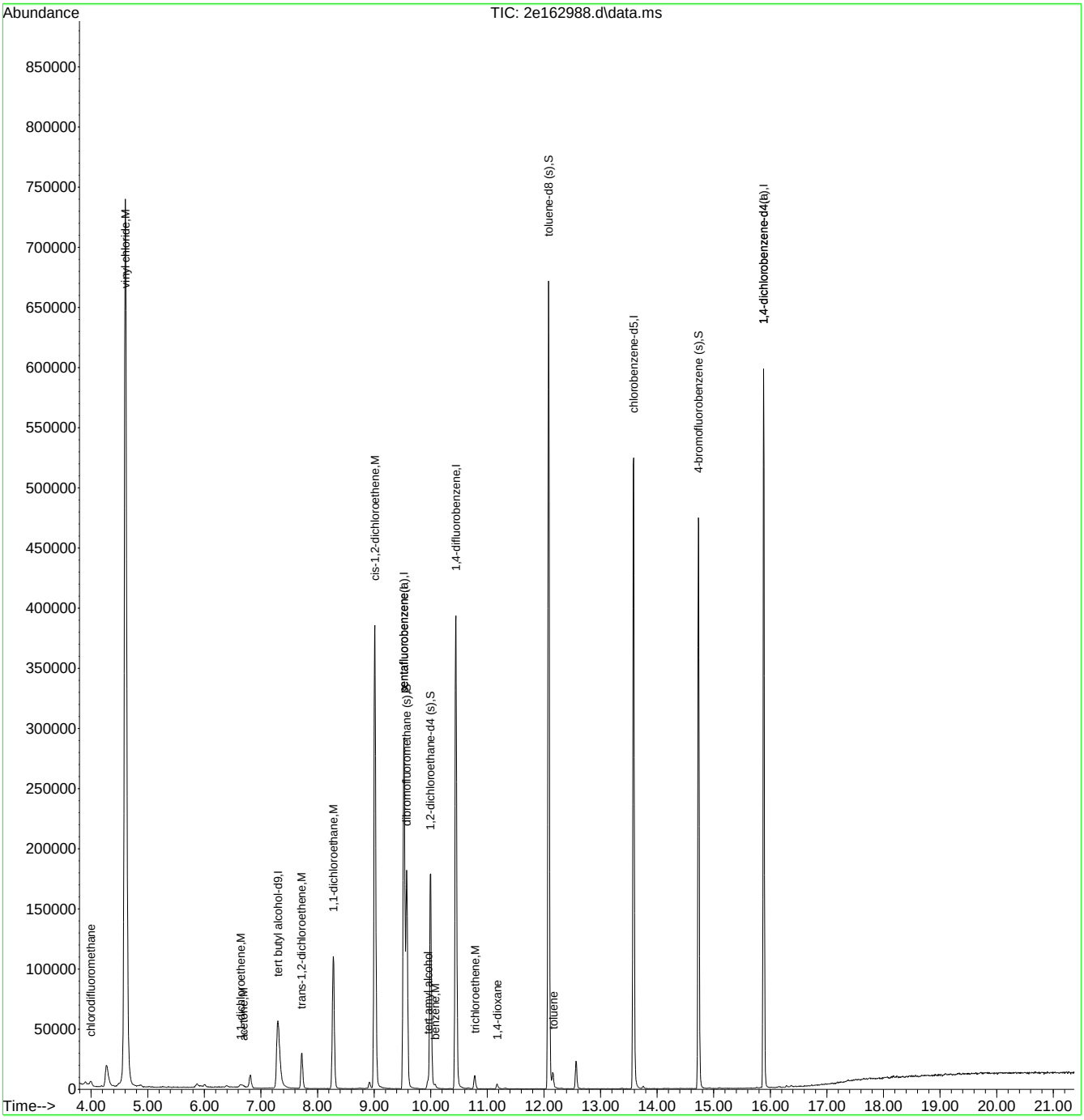
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.300	65	130409	500.00	ug/L	0.00
5) pentafluorobenzene	9.528	168	243999	50.00	ug/L	0.00
53) 1,4-difluorobenzene	10.445	114	365670	50.00	ug/L	0.00
74) chlorobenzene-d5	13.586	117	297749	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	15.882	152	147837	50.00	ug/L	0.00
127) pentafluorobenzene(a)	9.528	168	243999	50.00	ug/L	0.00
130) 1,4-dichlorobenzene-d4(a)	15.882	152	147837	50.00	ug/L	0.00
System Monitoring Compounds						
47) dibromofluoromethane (s)	9.575	113	121671	49.99	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.98%			
54) 1,2-dichloroethane-d4 (s)	9.995	65	137838	49.72	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 99.44%			
75) toluene-d8 (s)	12.081	98	467090	49.49	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 98.98%			
98) 4-bromofluorobenzene (s)	14.729	95	166726	49.93	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.86%			
Target Compounds						Qvalue
4) 1,4-dioxane	11.174	88	3357	114.08	ug/L	94
6) chlorodifluoromethane	3.996	51	7713	1.52	ug/L	90
9) vinyl chloride	4.605	62	1348629	263.37	ug/L	100
18) 1,1-dichloroethene	6.644	61	2302	0.47	ug/L	84
19) acetone	6.691	43	2762	3.41	ug/L	98
26) trans-1,2-dichloroethene	7.719	61	21971	4.61	ug/L	98
31) 1,1-dichloroethane	8.280	63	140510	23.46	ug/L	99
37) cis-1,2-dichloroethene	9.014	96	200799	58.14	ug/L	85
52) tert amyl alcohol	9.958	73	3644	24.15	ug/L	85
57) benzene	10.078	78	2674	0.20	ug/L	91
62) trichloroethene	10.786	95	864	0.28	ug/L #	68
76) toluene	12.165	92	5187	0.70	ug/L	92

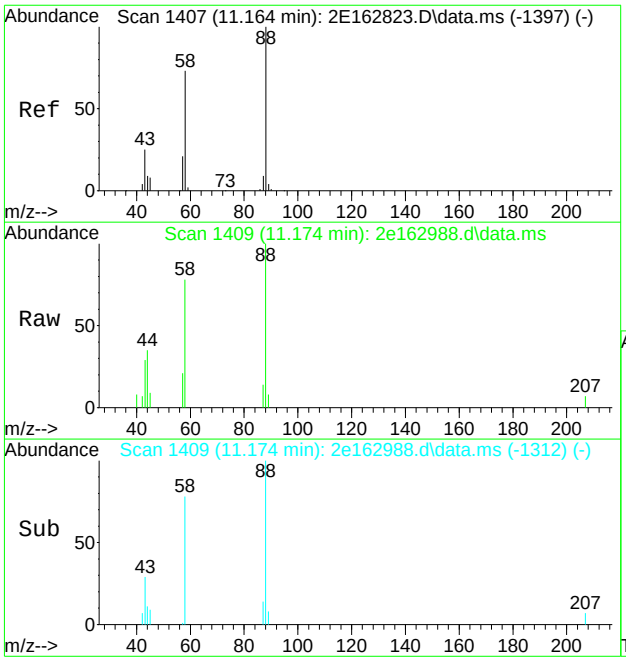
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\July-2020\7-21\v2e8165-rush\
Data File : 2e162988.d
Acq On : 20 Jul 2020 8:50 pm
Operator : krizhkac
Sample : jd10241-6 Inst : VOAMS2E
Misc : MS44522,V2E8165,5,,,,1
ALS Vial : 23 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 21 01:16:13 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Fri Jul 17 14:25:39 2020
Response via : Initial Calibration

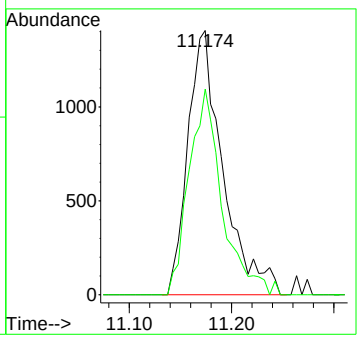


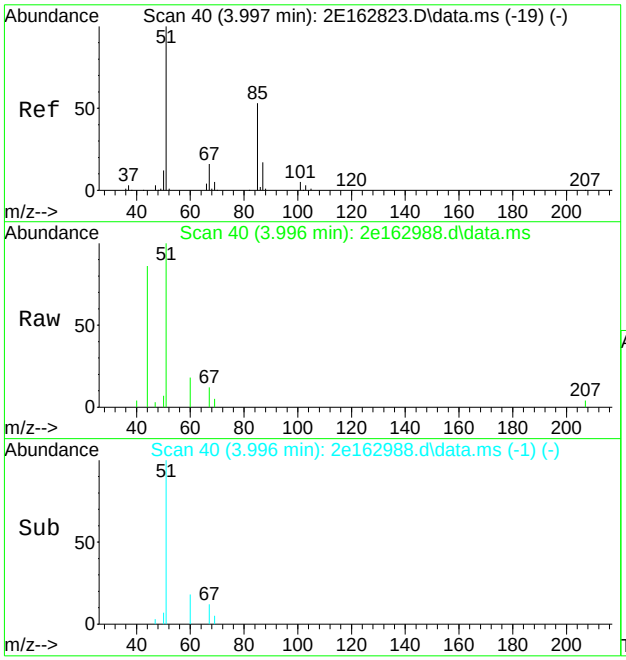


#4
1,4-dioxane
Concen: 114.08 ug/L
RT: 11.174 min Scan# 1409
Delta R.T. 0.010 min
Lab File: 2e162988.d
Acq: 20 Jul 2020 8:50 pm

Tgt Ion: 88 Resp: 3357

Ion	Ratio	Lower	Upper
88	100		
58	77.8	53.0	93.0

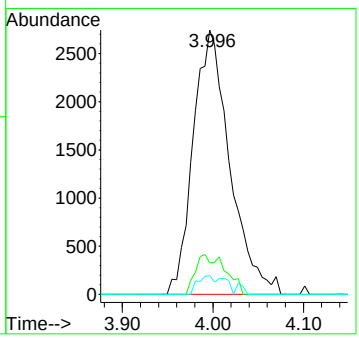


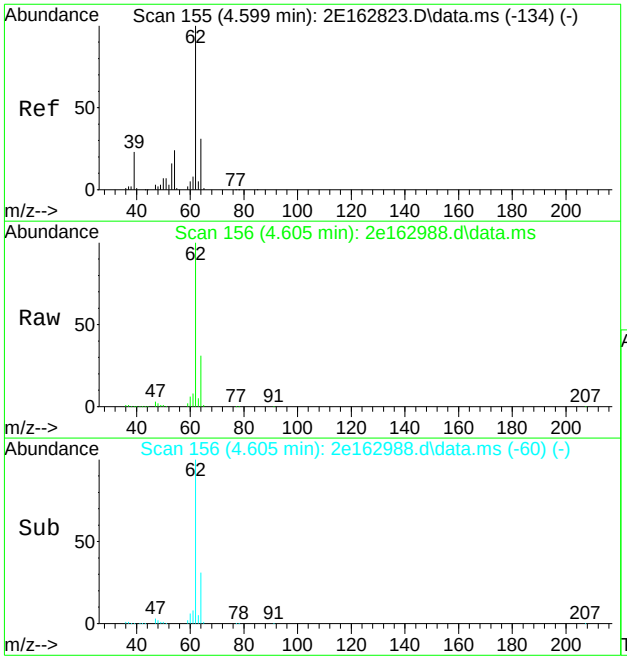


#6
chlorodifluoromethane
Concen: 1.52 ug/L
RT: 3.996 min Scan# 40
Delta R.T. -0.001 min
Lab File: 2e162988.d
Acq: 20 Jul 2020 8:50 pm

Tgt Ion: 51 Resp: 7713

Ion	Ratio	Lower	Upper
51	100		
67	11.9	0.0	35.9
50	7.1	0.0	31.5

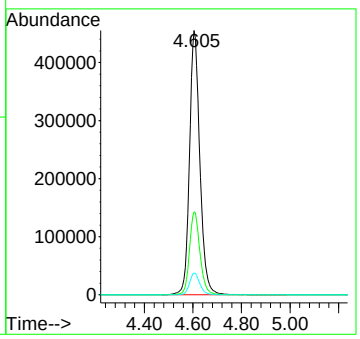


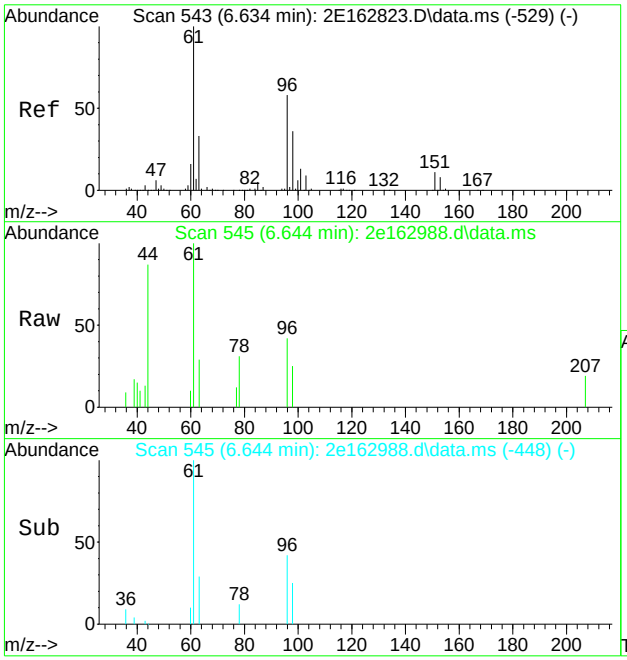


#9
vinyl chloride
Concen: 263.37 ug/L
RT: 4.605 min Scan# 156
Delta R.T. 0.006 min
Lab File: 2e162988.d
Acq: 20 Jul 2020 8:50 pm

Tgt Ion: 62 Resp: 1348629

Ion	Ratio	Lower	Upper
62	100		
64	31.3	1.4	61.4
61	8.2	0.0	38.4

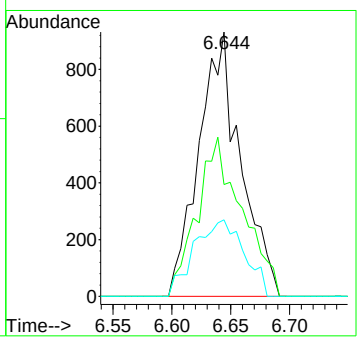


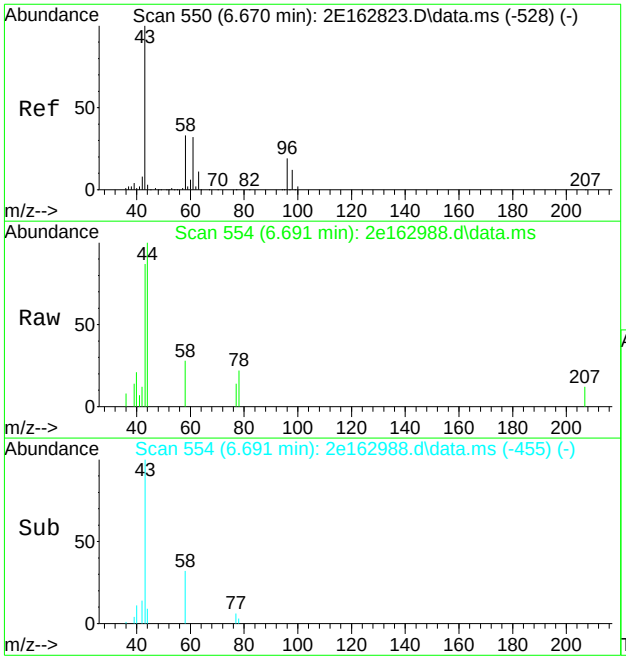


#18
1,1-dichloroethene
Concen: 0.47 ug/L
RT: 6.644 min Scan# 545
Delta R.T. 0.010 min
Lab File: 2e162988.d
Acq: 20 Jul 2020 8:50 pm

Tgt Ion: 61 Resp: 2302

Ion	Ratio	Lower	Upper
61	100		
96	42.3	27.8	87.8
63	29.0	2.6	62.6

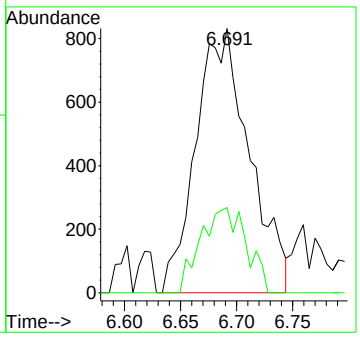


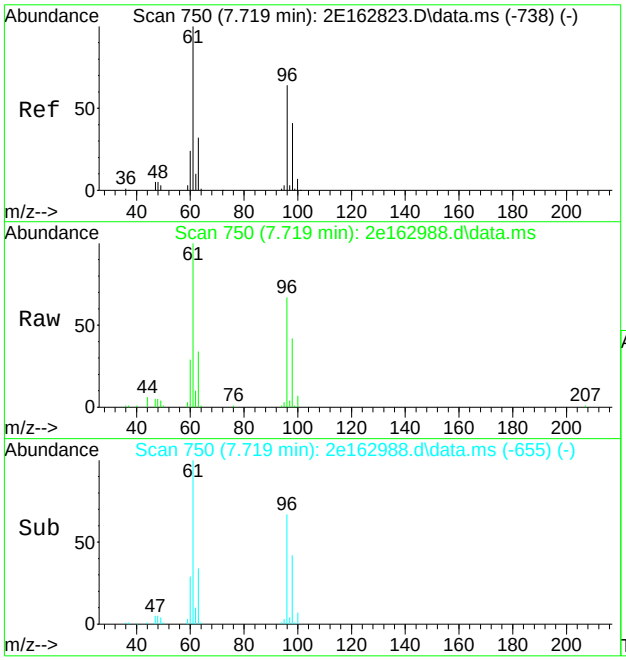


#19
acetone
Concen: 3.41 ug/L
RT: 6.691 min Scan# 554
Delta R.T. 0.021 min
Lab File: 2e162988.d
Acq: 20 Jul 2020 8:50 pm

Tgt Ion: 43 Resp: 2762

Ion	Ratio	Lower	Upper
43	100		
58	32.2	3.2	63.2

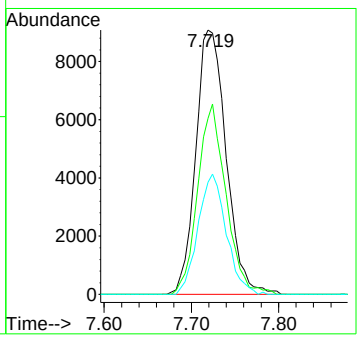


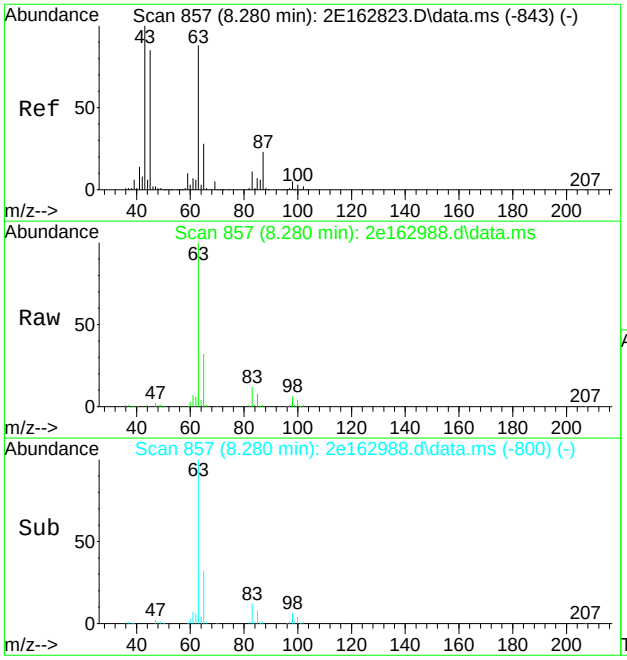


#26
trans-1,2-dichloroethene
Concen: 4.61 ug/L
RT: 7.719 min Scan# 750
Delta R.T. 0.000 min
Lab File: 2e162988.d
Acq: 20 Jul 2020 8:50 pm

Tgt Ion: 61 Resp: 21971

Ion	Ratio	Lower	Upper
61	100		
96	66.6	34.3	94.3
98	42.4	11.3	71.3

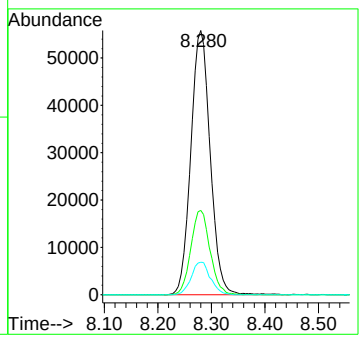


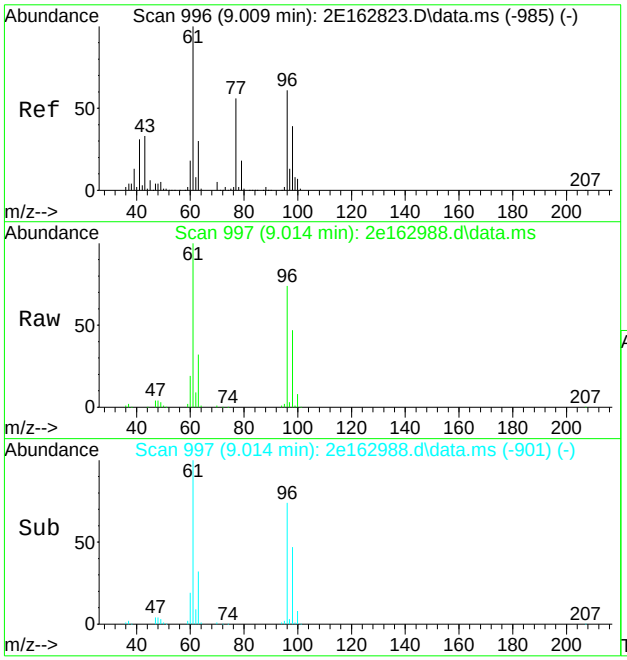


#31
1,1-dichloroethane
Concen: 23.46 ug/L
RT: 8.280 min Scan# 857
Delta R.T. 0.000 min
Lab File: 2e162988.d
Acq: 20 Jul 2020 8:50 pm

Tgt Ion: 63 Resp: 140510

Ion	Ratio	Lower	Upper
63	100		
65	31.9	2.4	62.4
83	12.3	0.0	42.4

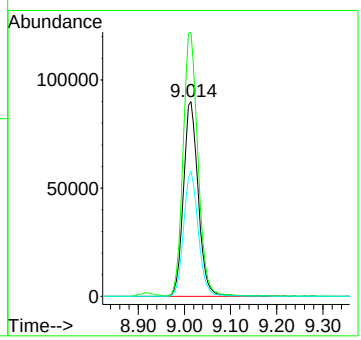


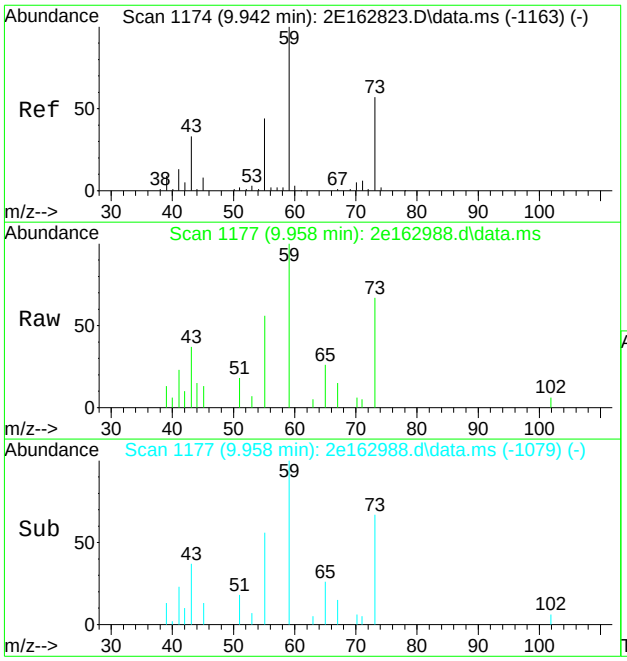


#37
cis-1,2-dichloroethene
Concen: 58.14 ug/L
RT: 9.014 min Scan# 997
Delta R.T. 0.005 min
Lab File: 2e162988.d
Acq: 20 Jul 2020 8:50 pm

Tgt Ion: 96 Resp: 200799

Ion	Ratio	Lower	Upper
96	100		
61	135.6	132.8	192.8
98	64.3	34.0	94.0

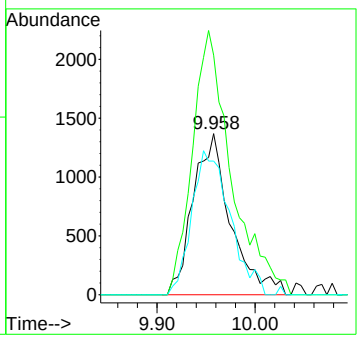


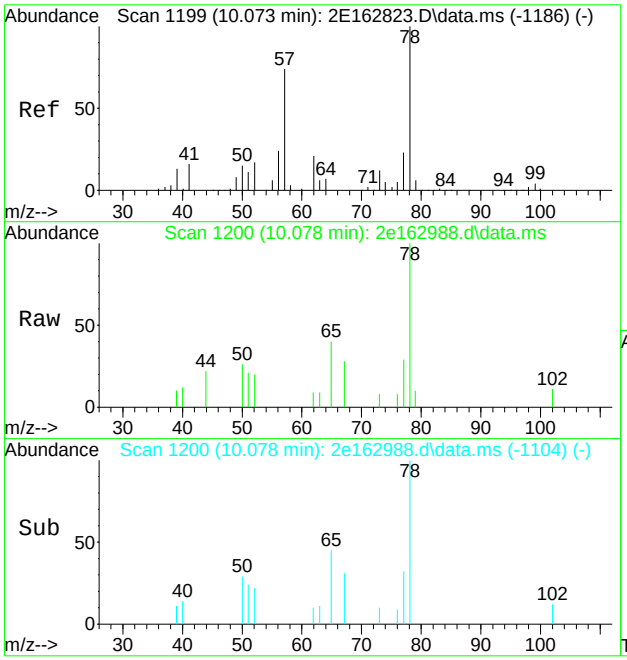


#52
tert amyl alcohol
Concen: 24.15 ug/L
RT: 9.958 min Scan# 1177
Delta R.T. 0.016 min
Lab File: 2e162988.d
Acq: 20 Jul 2020 8:50 pm

Tgt Ion: 73 Resp: 3644

Ion	Ratio	Lower	Upper
73	100		
59	148.7	146.4	206.4
55	82.9	47.9	107.9

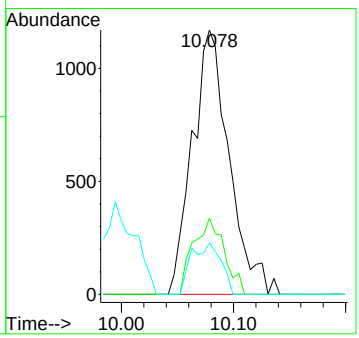


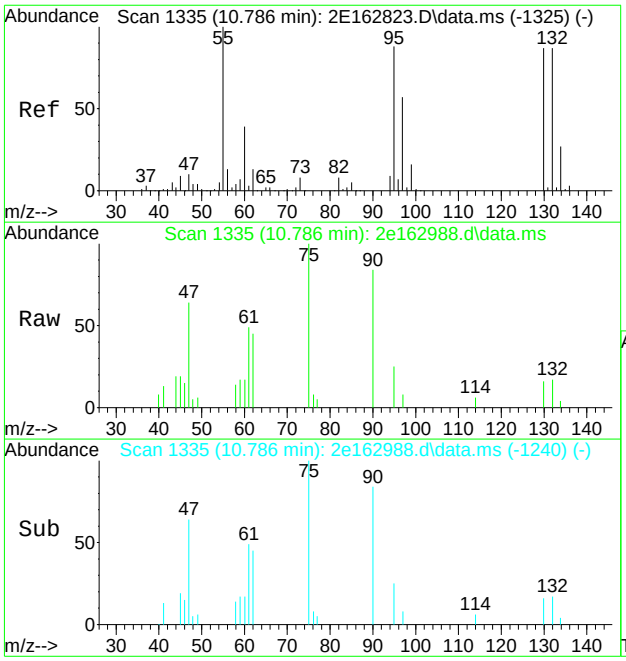


#57
benzene
Concen: 0.20 ug/L
RT: 10.078 min Scan# 1200
Delta R.T. 0.005 min
Lab File: 2e162988.d
Acq: 20 Jul 2020 8:50 pm

Tgt Ion: 78 Resp: 2674

Ion	Ratio	Lower	Upper
78	100		
77	28.8	0.0	53.3
52	19.6	0.0	46.9

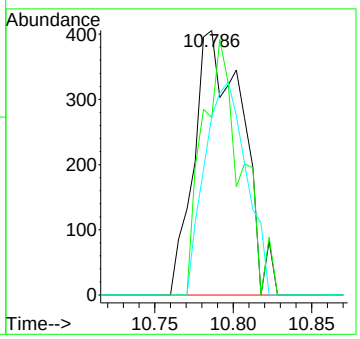


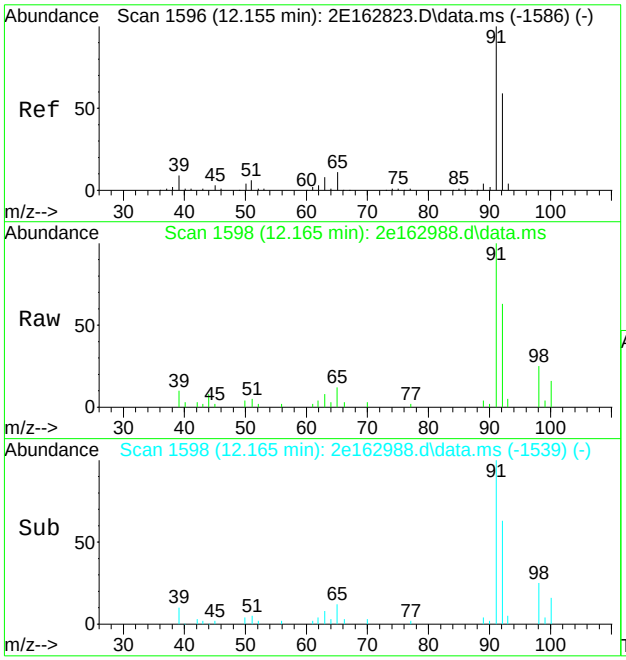


#62
trichloroethene
Concen: 0.28 ug/L
RT: 10.786 min Scan# 1335
Delta R.T. 0.000 min
Lab File: 2e162988.d
Acq: 20 Jul 2020 8:50 pm

Tgt Ion: 95 Resp: 864

Ion	Ratio	Lower	Upper
95	100		
130	67.0	69.0	129.0#
132	67.2	68.2	128.2#

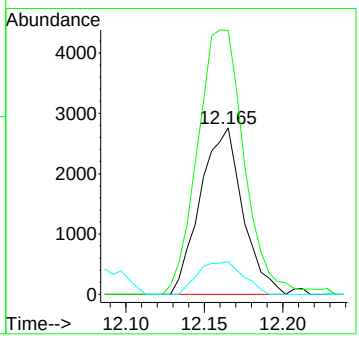




#76
toluene
Concen: 0.70 ug/L
RT: 12.165 min Scan# 1598
Delta R.T. 0.010 min
Lab File: 2e162988.d
Acq: 20 Jul 2020 8:50 pm

Tgt Ion: 92 Resp: 5187

Ion	Ratio	Lower	Upper
92	100		
91	158.4	150.2	190.2
65	19.8	0.0	39.6



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\janellac\07-28-2020\v4d4597\
Data File : 4d103633.d
Acq On : 27 Jul 2020 12:41 pm
Operator : krizhkac
Sample : jd10241-6 Inst : MS4D
Misc : MS44522,V4D4597,5,,,,10
ALS Vial : 10 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Results File: M4D4496.RES
Quant Time: Jul 27 22:13:40 2020
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 16:29:00 2020
Response via : Initial Calibration

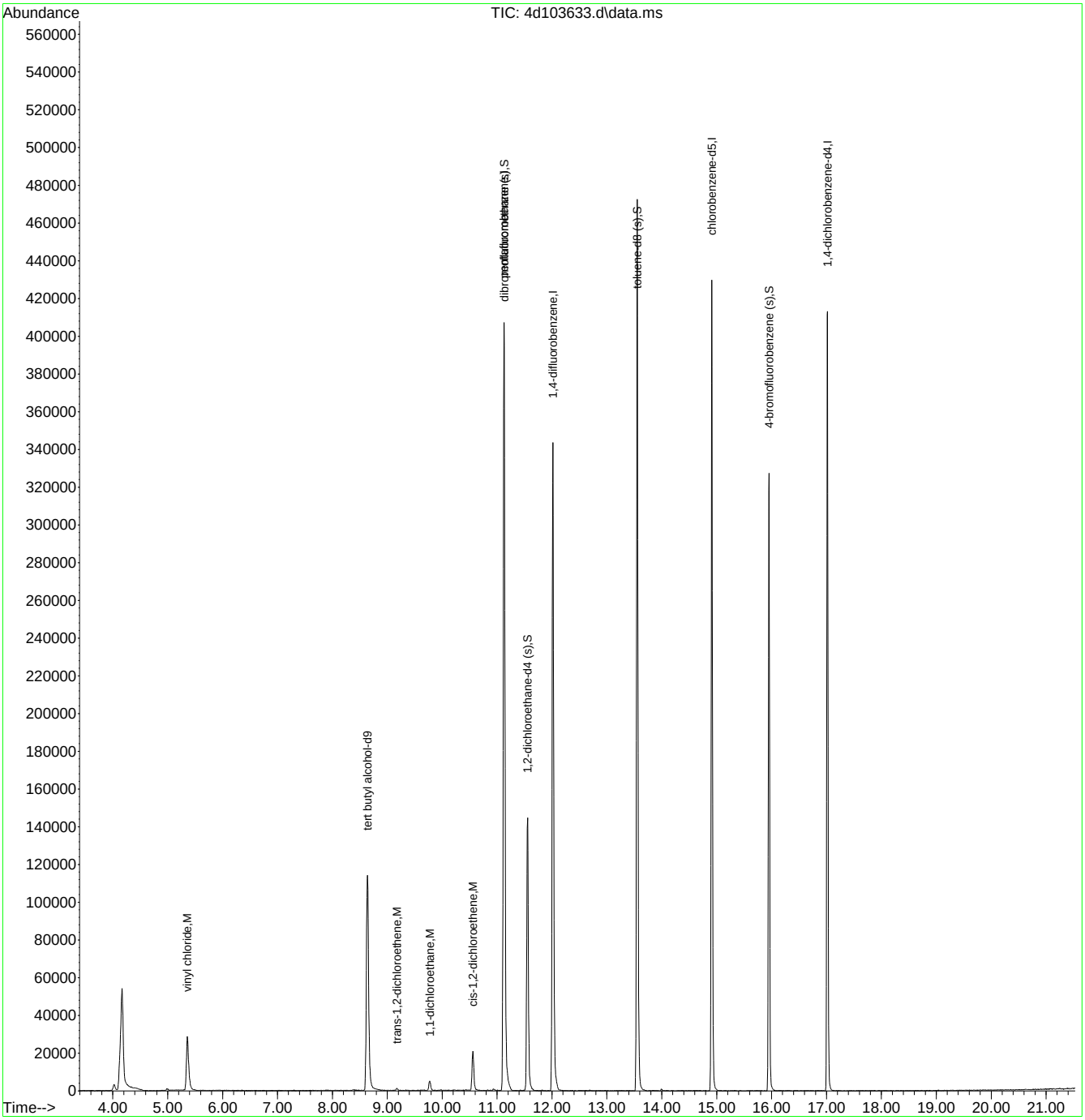
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	8.640	65	203057	500.00	ug/L	0.00
5) pentafluorobenzene	11.125	168	219416	50.00	ug/L	0.00
51) 1,4-difluorobenzene	12.017	114	323631	50.00	ug/L	0.00
73) chlorobenzene-d5	14.911	117	244686	50.00	ug/L	0.00
96) 1,4-dichlorobenzene-d4	17.018	152	108566	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	11.130	113	112593	53.45	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 106.90%			
52) 1,2-dichloroethane-d4 (s)	11.555	65	110250	48.92	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 97.84%			
74) toluene-d8 (s)	13.553	98	326794	49.47	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 98.94%			
97) 4-bromofluorobenzene (s)	15.954	95	106635	48.68	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 97.36%			
Target Compounds						Qvalue
9) vinyl chloride	5.358	62	51492	28.08	ug/L	99
25) trans-1,2-dichloroethene	9.175	96	686	0.42	ug/L #	73
28) 1,1-dichloroethane	9.773	63	7209	2.40	ug/L	95
36) cis-1,2-dichloroethene	10.559	96	12975	7.08	ug/L	86

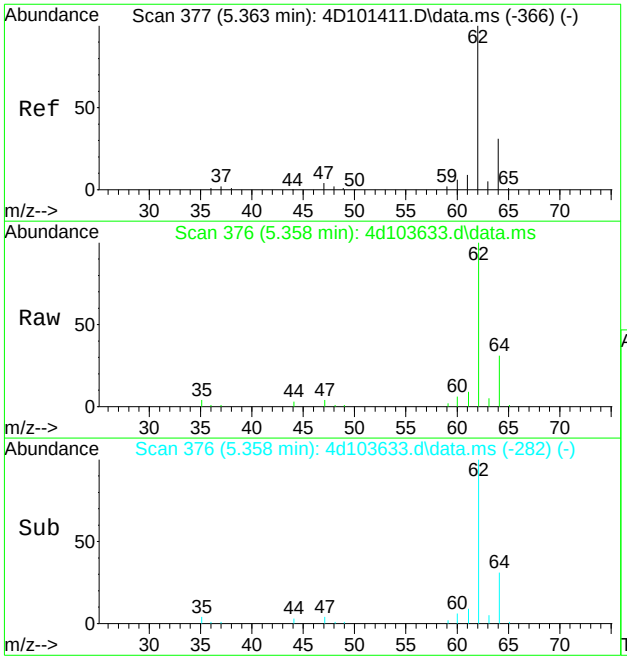
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\janellac\07-28-2020\v4d4597\
Data File : 4d103633.d
Acq On : 27 Jul 2020 12:41 pm
Operator : krizhkac
Sample : jd10241-6 Inst : MS4D
Misc : MS44522,V4D4597,5,,,,10
ALS Vial : 10 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Results File: M4D4496.RES
Quant Time: Jul 27 22:13:40 2020
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 16:29:00 2020
Response via : Initial Calibration

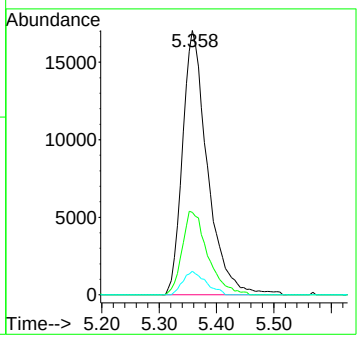


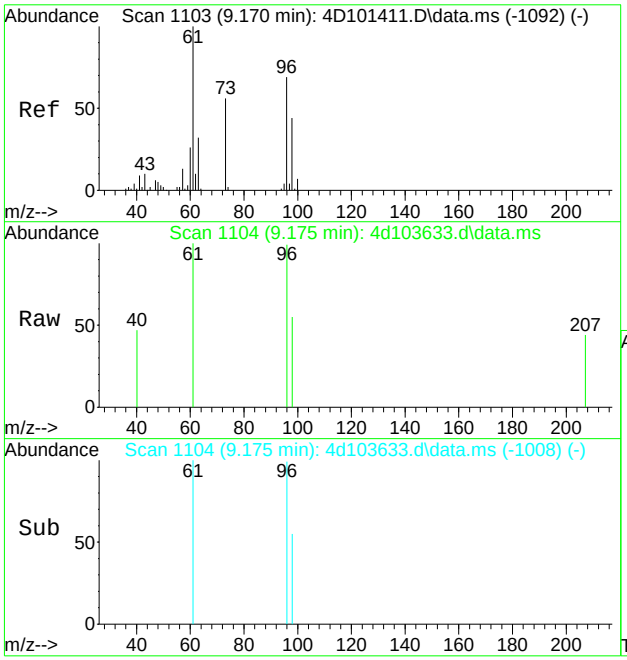


#9
vinyl chloride
Concen: 28.08 ug/L
RT: 5.358 min Scan# 376
Delta R.T. -0.006 min
Lab File: 4d103633.d
Acq: 27 Jul 2020 12:41 pm

Tgt Ion: 62 Resp: 51492

Ion	Ratio	Lower	Upper
62	100		
64	31.2	0.7	60.7
61	8.9	0.0	39.0

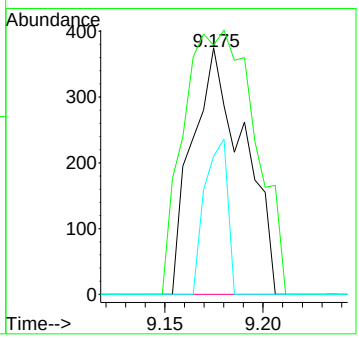


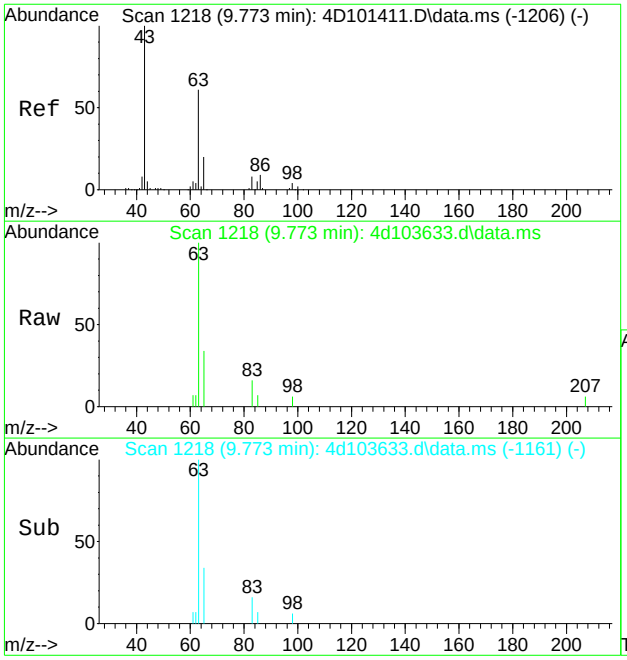


#25
trans-1,2-dichloroethene
Concen: 0.42 ug/L
RT: 9.175 min Scan# 1104
Delta R.T. 0.005 min
Lab File: 4d103633.d
Acq: 27 Jul 2020 12:41 pm

Tgt Ion: 96 Resp: 686

Ion	Ratio	Lower	Upper
96	100		
61	101.1	114.4	174.4#
98	56.0	34.1	94.1

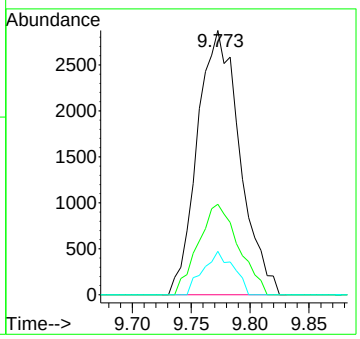


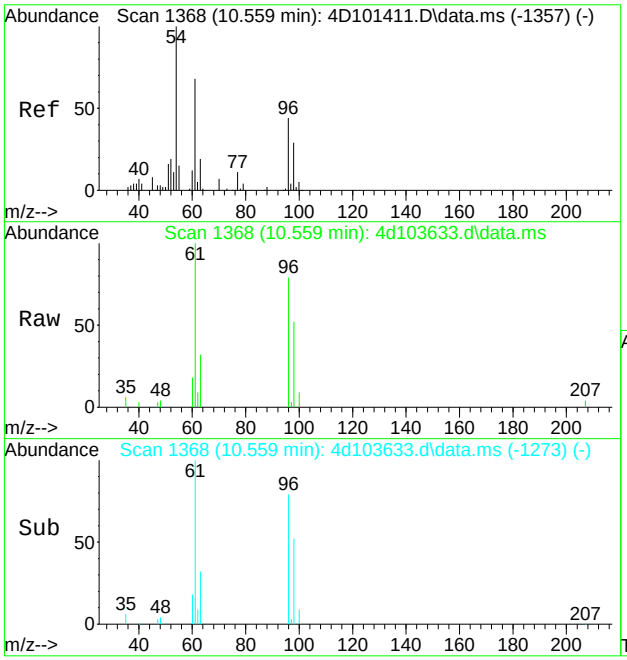


#28
1,1-dichloroethane
Concen: 2.40 ug/L
RT: 9.773 min Scan# 1218
Delta R.T. -0.000 min
Lab File: 4d103633.d
Acq: 27 Jul 2020 12:41 pm

Tgt Ion: 63 Resp: 7209

Ion	Ratio	Lower	Upper
63	100		
65	34.2	1.9	61.9
83	16.4	0.0	43.3

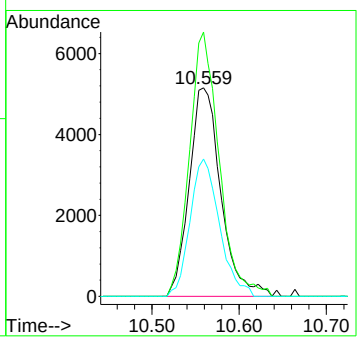




#36
cis-1,2-dichloroethene
Concen: 7.08 ug/L
RT: 10.559 min Scan# 1368
Delta R.T. -0.000 min
Lab File: 4d103633.d
Acq: 27 Jul 2020 12:41 pm

Tgt Ion: 96 Resp: 12975

Ion	Ratio	Lower	Upper
96	100		
61	126.7	122.3	182.3
98	65.8	35.3	95.3



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\kristelv\july 2020\07222020\v2e8165 rest of batch\
Data File : 2e162992.d
Acq On : 20 Jul 2020 10:49 pm
Operator : krizhkac
Sample : jd10241-7 Inst : VOAMS2E
Misc : MS44522,V2E8165,5,,,,20
ALS Vial : 27 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 21 10:06:20 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Jul 16 11:01:59 2020
Response via : Initial Calibration

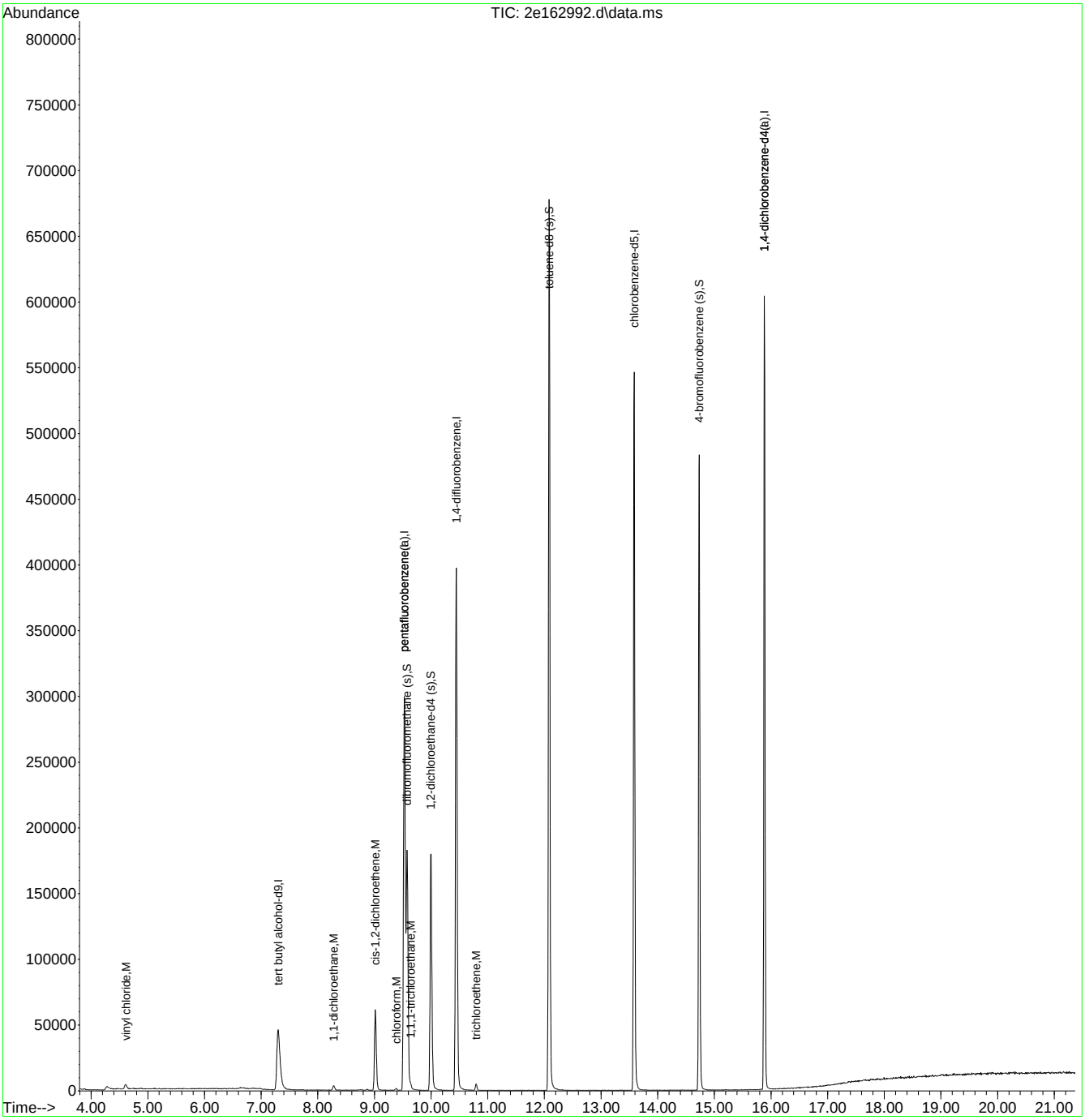
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.300	65	106875	500.00	ug/L	0.00
5) pentafluorobenzene	9.528	168	248532	50.00	ug/L	0.00
53) 1,4-difluorobenzene	10.446	114	368814	50.00	ug/L	0.00
74) chlorobenzene-d5	13.586	117	304958	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	15.883	152	150057	50.00	ug/L	0.00
127) pentafluorobenzene(a)	9.528	168	248532	50.00	ug/L	0.00
130) 1,4-dichlorobenzene-d4(a)	15.883	152	150057	50.00	ug/L	0.00
System Monitoring Compounds						
47) dibromofluoromethane (s)	9.575	113	123199	49.69	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.38%			
54) 1,2-dichloroethane-d4 (s)	9.995	65	140044	50.08	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 100.16%			
75) toluene-d8 (s)	12.081	98	472571	48.89	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 97.78%			
98) 4-bromofluorobenzene (s)	14.729	95	168360	49.68	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.36%			
Target Compounds						Qvalue
9) vinyl chloride	4.615	62	5925	1.14	ug/L	94
31) 1,1-dichloroethane	8.280	63	4817	0.79	ug/L	95
37) cis-1,2-dichloroethene	9.014	96	32443	9.22	ug/L #	82
42) chloroform	9.386	83	1267	0.22	ug/L	67
49) 1,1,1-trichloroethane	9.638	97	2609	0.55	ug/L	87
62) trichloroethene	10.797	95	2043	0.67	ug/L	87

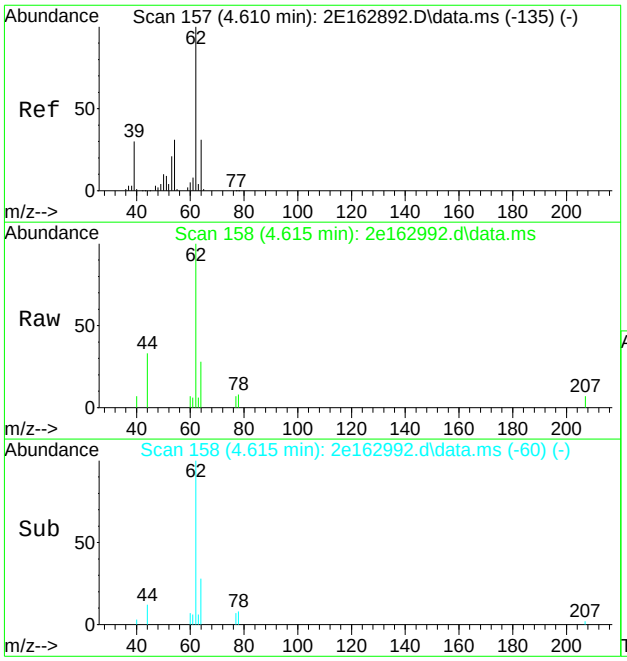
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\kristelv\july 2020\07222020\v2e8165 rest of batch\
Data File : 2e162992.d
Acq On : 20 Jul 2020 10:49 pm
Operator : krizhkac
Sample : jd10241-7 Inst : VOAMS2E
Misc : MS44522,V2E8165,5,,,,20
ALS Vial : 27 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 21 10:06:20 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Jul 16 11:01:59 2020
Response via : Initial Calibration

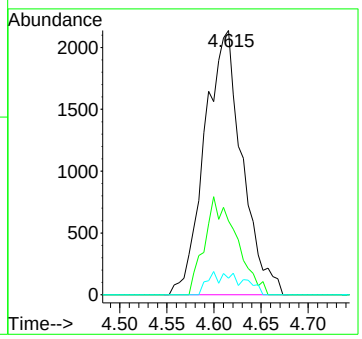


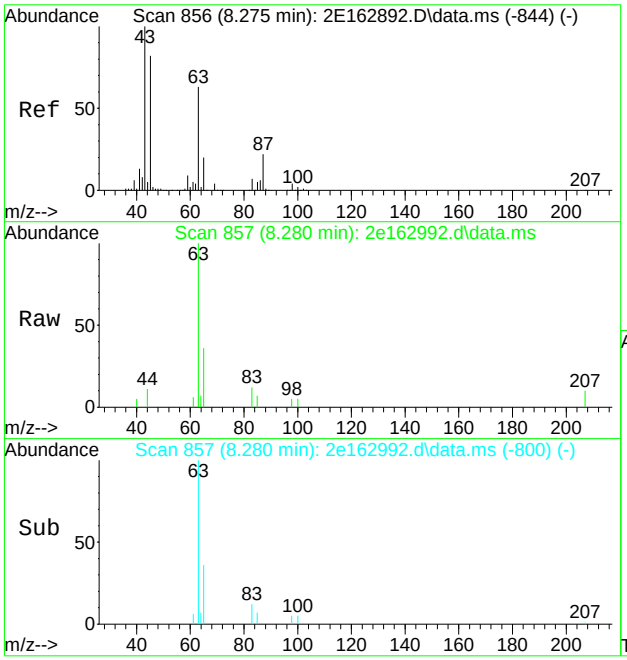


#9
vinyl chloride
Concen: 1.14 ug/L
RT: 4.615 min Scan# 158
Delta R.T. 0.016 min
Lab File: 2e162992.d
Acq: 20 Jul 2020 10:49 pm

Tgt Ion: 62 Resp: 5925

Ion	Ratio	Lower	Upper
62	100		
64	27.9	1.4	61.4
61	6.3	0.0	38.4

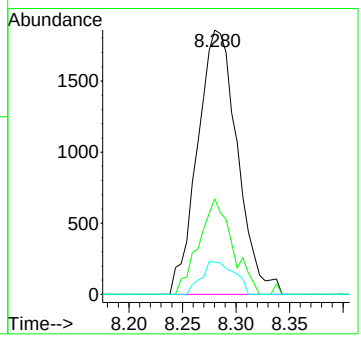


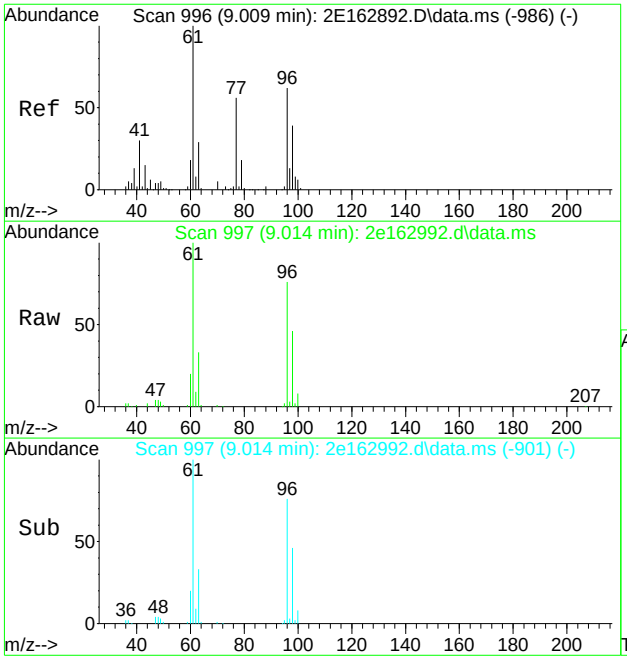


#31
1,1-dichloroethane
Concen: 0.79 ug/L
RT: 8.280 min Scan# 857
Delta R.T. 0.000 min
Lab File: 2e162992.d
Acq: 20 Jul 2020 10:49 pm

Tgt Ion: 63 Resp: 4817

Ion	Ratio	Lower	Upper
63	100		
65	36.2	2.4	62.4
83	12.2	0.0	42.4

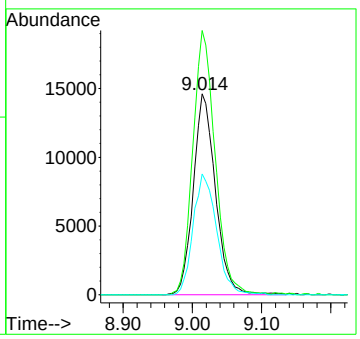


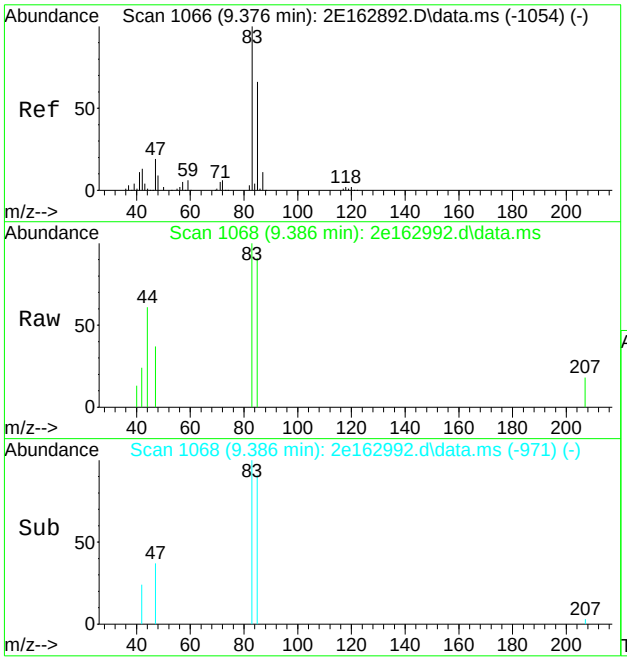


#37
cis-1,2-dichloroethene
Concen: 9.22 ug/L
RT: 9.014 min Scan# 997
Delta R.T. 0.005 min
Lab File: 2e162992.d
Acq: 20 Jul 2020 10:49 pm

Tgt Ion: 96 Resp: 32443

Ion	Ratio	Lower	Upper
96	100		
61	131.7	132.8	192.8#
98	60.2	34.0	94.0

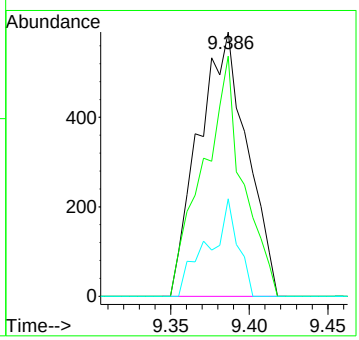


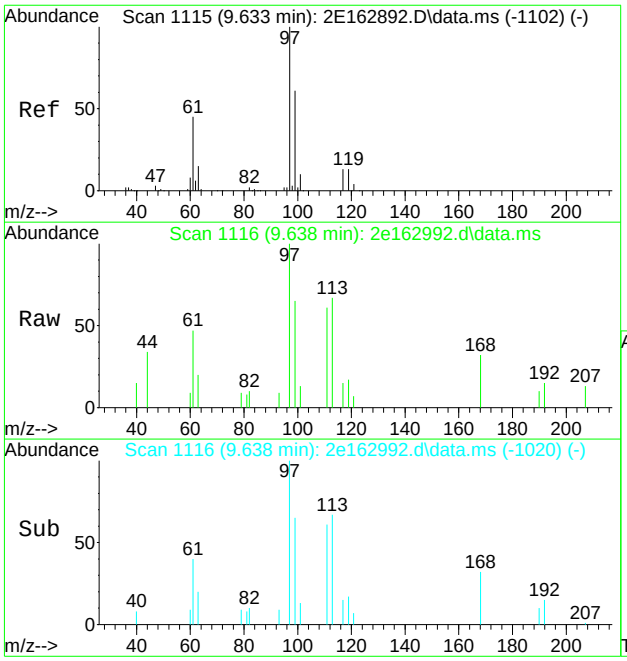


#42
chloroform
Concen: 0.22 ug/L
RT: 9.386 min Scan# 1068
Delta R.T. 0.010 min
Lab File: 2e162992.d
Acq: 20 Jul 2020 10:49 pm

Tgt Ion: 83 Resp: 1267

Ion	Ratio	Lower	Upper
83	100		
85	90.9	33.5	93.5
47	36.9	0.0	53.0

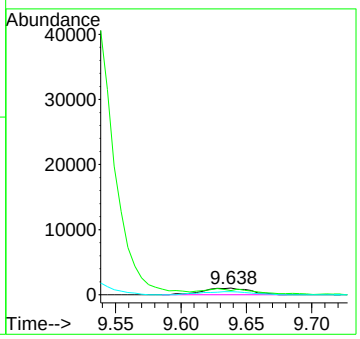


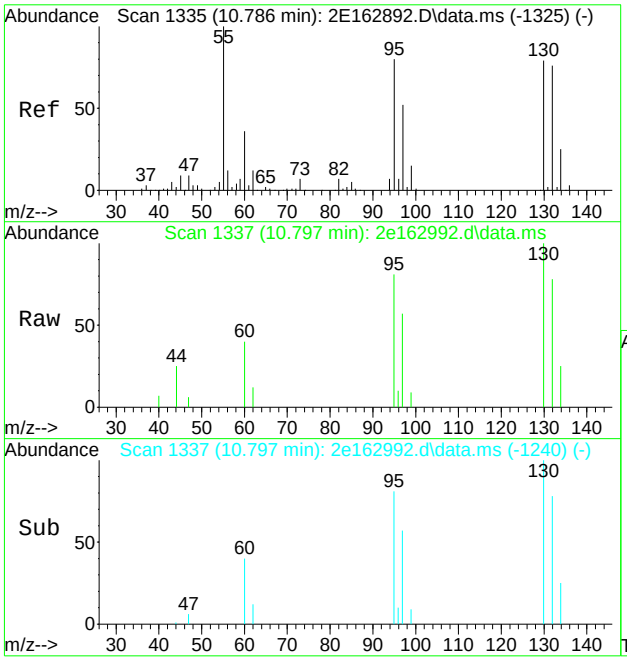


#49
1,1,1-trichloroethane
Concen: 0.55 ug/L
RT: 9.638 min Scan# 1116
Delta R.T. 0.005 min
Lab File: 2e162992.d
Acq: 20 Jul 2020 10:49 pm

Tgt Ion: 97 Resp: 2609

Ion	Ratio	Lower	Upper
97	100		
99	47.1	33.7	93.7
61	47.1	15.7	75.7

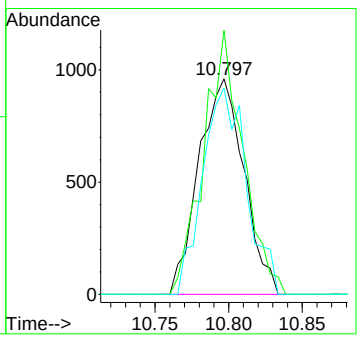




#62
trichloroethene
Concen: 0.67 ug/L
RT: 10.797 min Scan# 1337
Delta R.T. 0.011 min
Lab File: 2e162992.d
Acq: 20 Jul 2020 10:49 pm

Tgt Ion: 95 Resp: 2043

Ion	Ratio	Lower	Upper
95	100		
130	122.7	69.0	129.0
132	95.7	68.2	128.2



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\janellac\07-28-2020\v4d4597\
Data File : 4d103631.d
Acq On : 27 Jul 2020 11:42 am
Operator : krizhkac
Sample : jd10241-7 Inst : MS4D
Misc : MS44522,V4D4597,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Results File: M4D4496.RES
Quant Time: Jul 27 22:11:57 2020
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 16:29:00 2020
Response via : Initial Calibration

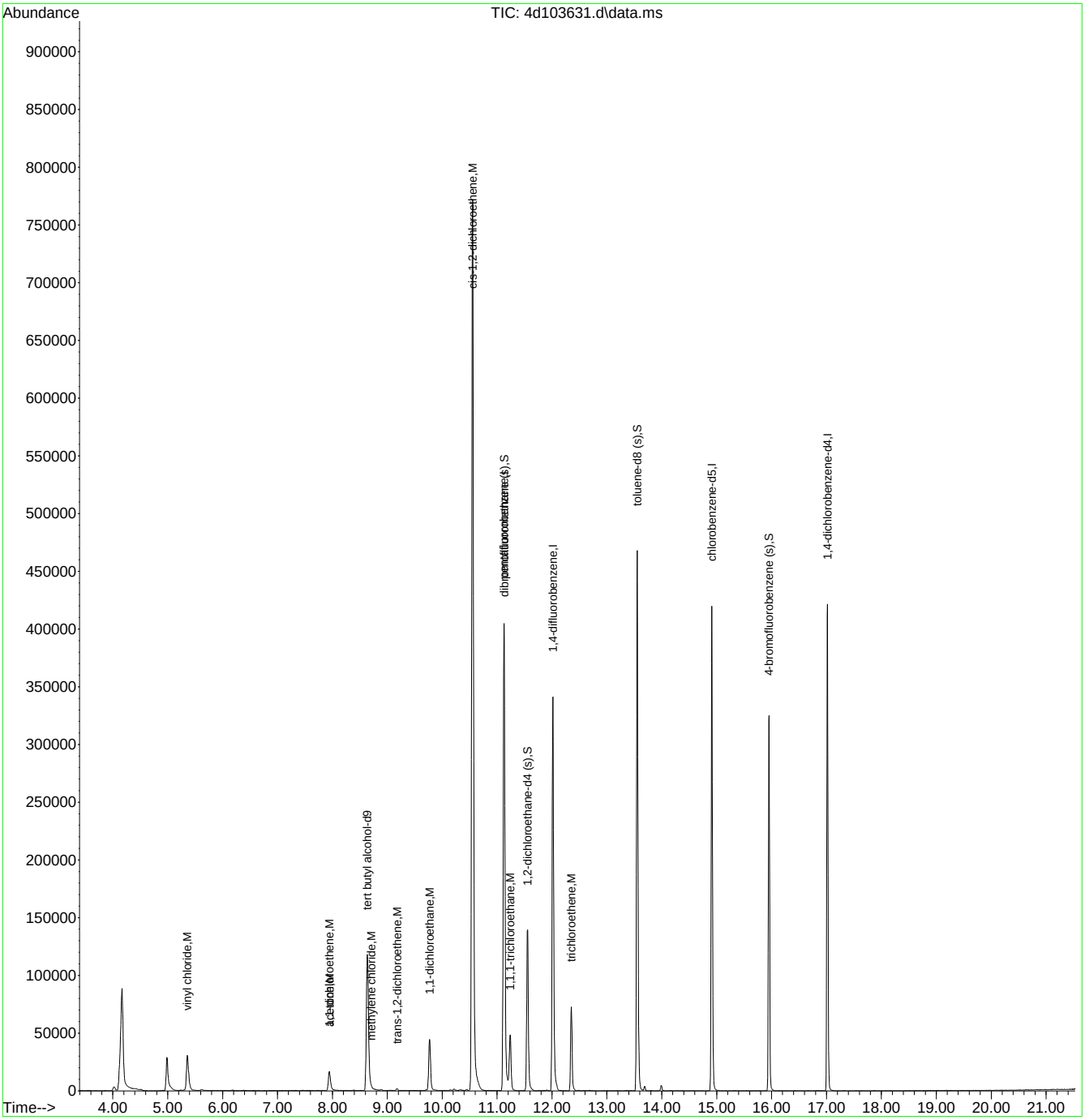
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	8.635	65	207962	500.00	ug/L	-0.01
5) pentafluorobenzene	11.125	168	222703	50.00	ug/L	0.00
51) 1,4-difluorobenzene	12.017	114	324983	50.00	ug/L	0.00
73) chlorobenzene-d5	14.911	117	246817	50.00	ug/L	0.00
96) 1,4-dichlorobenzene-d4	17.019	152	110642	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	11.131	113	111703	52.24	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 104.48%			
52) 1,2-dichloroethane-d4 (s)	11.555	65	106985	47.28	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 94.56%			
74) toluene-d8 (s)	13.553	98	332406	49.88	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.76%			
97) 4-bromofluorobenzene (s)	15.949	95	106916	47.89	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 95.78%			
Target Compounds						Qvalue
9) vinyl chloride	5.358	62	55725	29.94	ug/L	99
17) 1,1-dichloroethene	7.943	96	6717	4.34	ug/L #	79
18) acetone	7.948	43	14994	18.25	ug/L	98
22) methylene chloride	8.708	84	981	0.56	ug/L	82
25) trans-1,2-dichloroethene	9.180	96	1170	0.71	ug/L	83
28) 1,1-dichloroethane	9.767	63	58262	19.07	ug/L	98
36) cis-1,2-dichloroethene	10.554	96	446372	239.82	ug/L #	81
45) 1,1,1-trichloroethane	11.241	97	37299	15.00	ug/L	97
60) trichloroethene	12.352	130	27891	17.01	ug/L	98

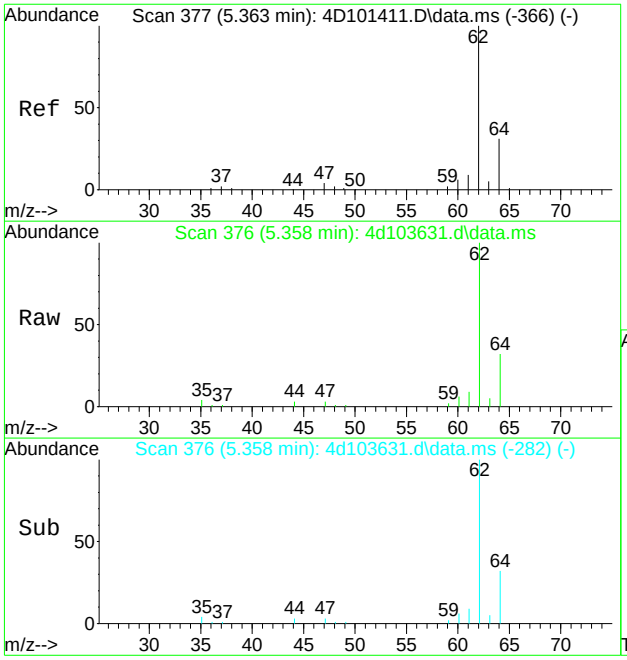
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\janellac\07-28-2020\v4d4597\
Data File : 4d103631.d
Acq On : 27 Jul 2020 11:42 am
Operator : krizhkac
Sample : jd10241-7 Inst : MS4D
Misc : MS44522,V4D4597,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Results File: M4D4496.RES
Quant Time: Jul 27 22:11:57 2020
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 16:29:00 2020
Response via : Initial Calibration

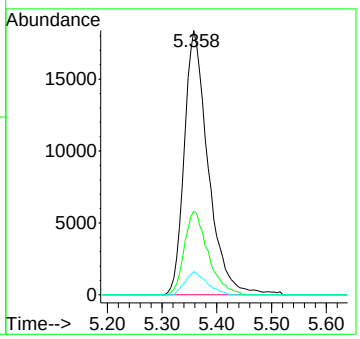


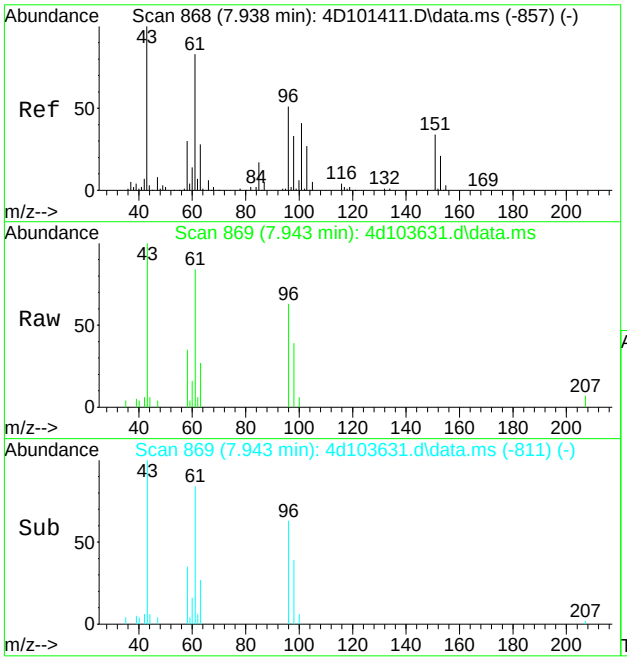


#9
vinyl chloride
Concen: 29.94 ug/L
RT: 5.358 min Scan# 376
Delta R.T. -0.005 min
Lab File: 4d103631.d
Acq: 27 Jul 2020 11:42 am

Tgt Ion: 62 Resp: 55725

Ion	Ratio	Lower	Upper
62	100		
64	31.6	0.7	60.7
61	8.8	0.0	39.0

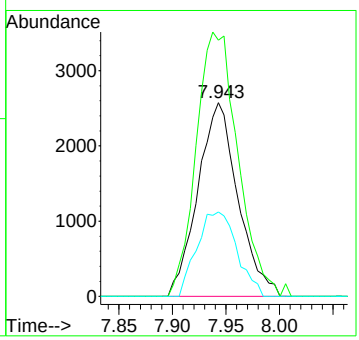


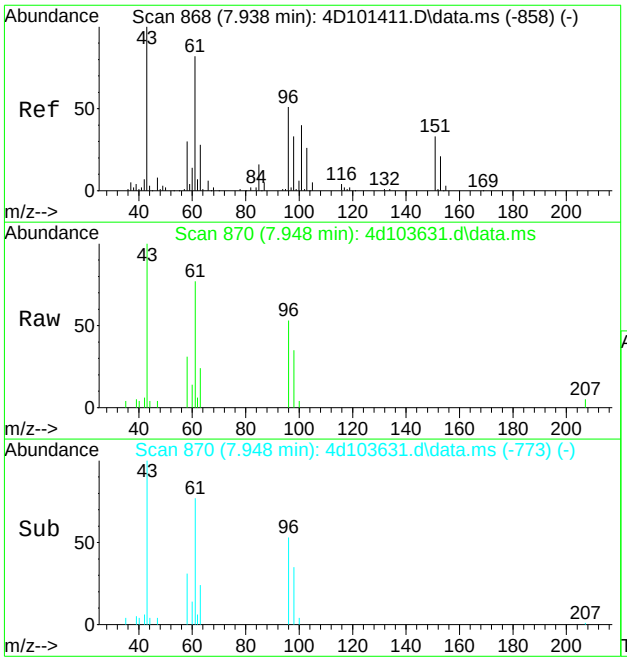


#17
1,1-dichloroethene
Concen: 4.34 ug/L
RT: 7.943 min Scan# 869
Delta R.T. 0.005 min
Lab File: 4d103631.d
Acq: 27 Jul 2020 11:42 am

Tgt Ion: 96 Resp: 6717

Ion	Ratio	Lower	Upper
96	100		
61	132.3	132.9	192.9#
63	43.5	24.9	84.9

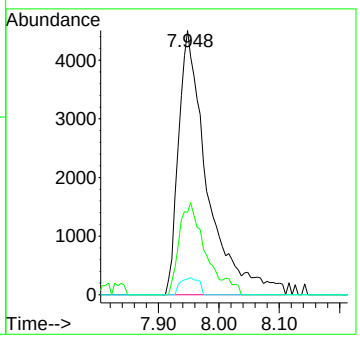


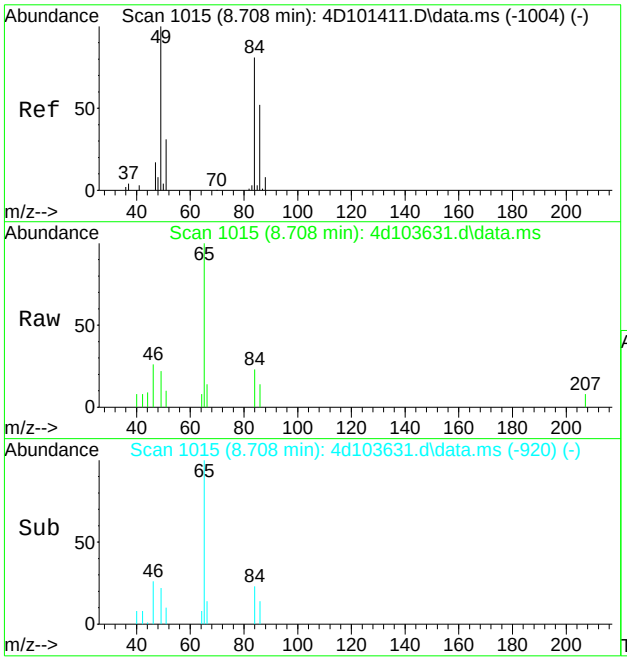


#18
acetone
Concen: 18.25 ug/L
RT: 7.948 min Scan# 870
Delta R.T. 0.010 min
Lab File: 4d103631.d
Acq: 27 Jul 2020 11:42 am

Tgt Ion: 43 Resp: 14994

Ion	Ratio	Lower	Upper
43	100		
58	31.2	0.4	60.4
42	6.0	0.0	37.4

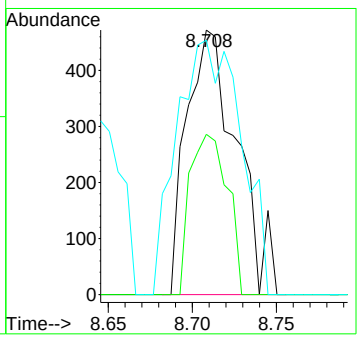


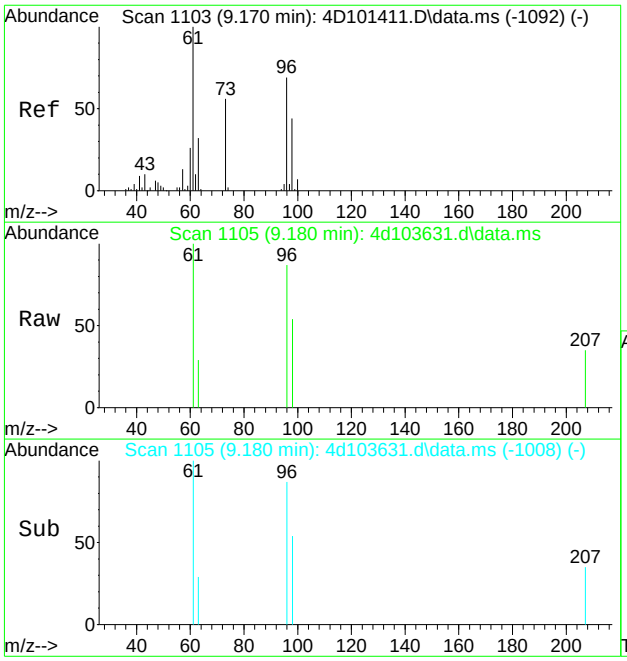


#22
methylene chloride
Concen: 0.56 ug/L
RT: 8.708 min Scan# 1015
Delta R.T. -0.000 min
Lab File: 4d103631.d
Acq: 27 Jul 2020 11:42 am

Tgt Ion: 84 Resp: 981

Ion	Ratio	Lower	Upper
84	100		
86	60.6	34.2	94.2
49	96.2	94.4	154.4

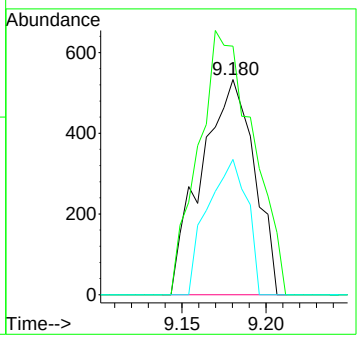


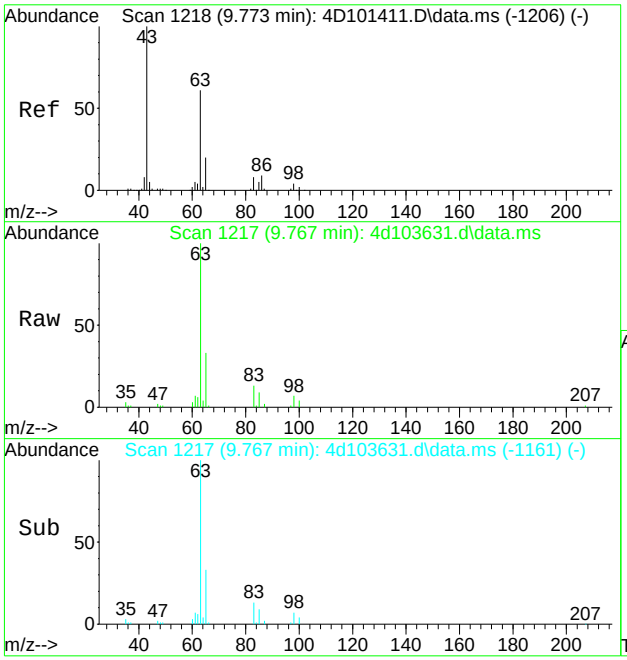


#25
trans-1,2-dichloroethene
Concen: 0.71 ug/L
RT: 9.180 min Scan# 1105
Delta R.T. 0.010 min
Lab File: 4d103631.d
Acq: 27 Jul 2020 11:42 am

Tgt Ion: 96 Resp: 1170

Ion	Ratio	Lower	Upper
96	100		
61	115.6	114.4	174.4
98	62.9	34.1	94.1

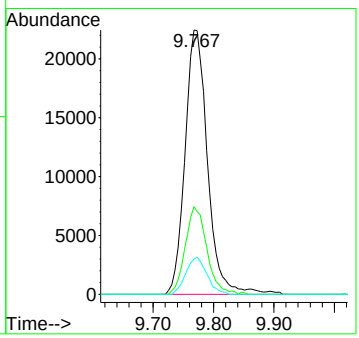


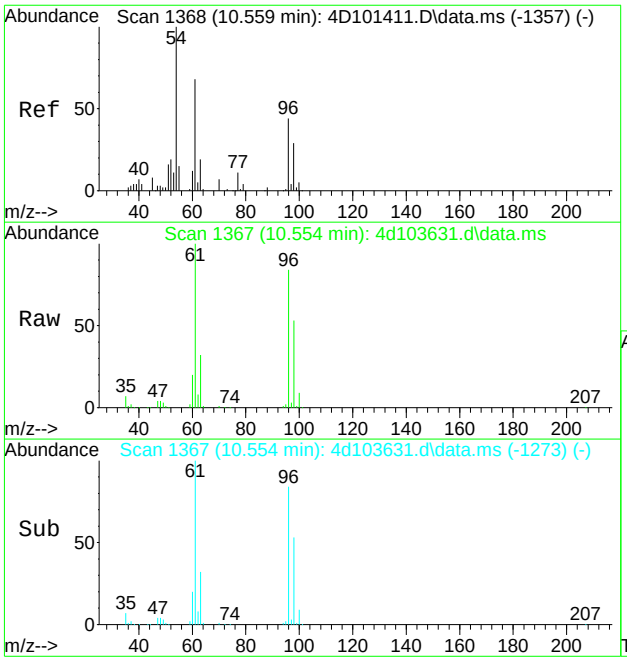


#28
1,1-dichloroethane
Concen: 19.07 ug/L
RT: 9.767 min Scan# 1217
Delta R.T. -0.005 min
Lab File: 4d103631.d
Acq: 27 Jul 2020 11:42 am

Tgt Ion: 63 Resp: 58262

Ion	Ratio	Lower	Upper
63	100		
65	33.2	1.9	61.9
83	13.3	0.0	43.3

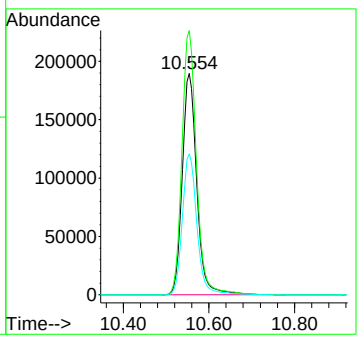


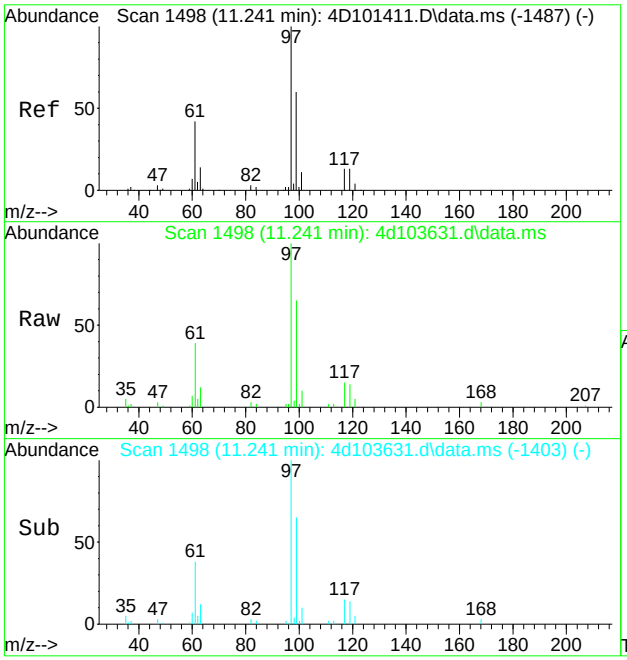


#36
cis-1,2-dichloroethene
Concen: 239.82 ug/L
RT: 10.554 min Scan# 1367
Delta R.T. -0.005 min
Lab File: 4d103631.d
Acq: 27 Jul 2020 11:42 am

Tgt Ion: 96 Resp: 446372

Ion	Ratio	Lower	Upper
96	100		
61	119.4	122.3	182.3#
98	63.6	35.3	95.3

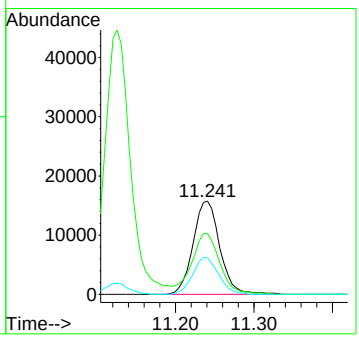


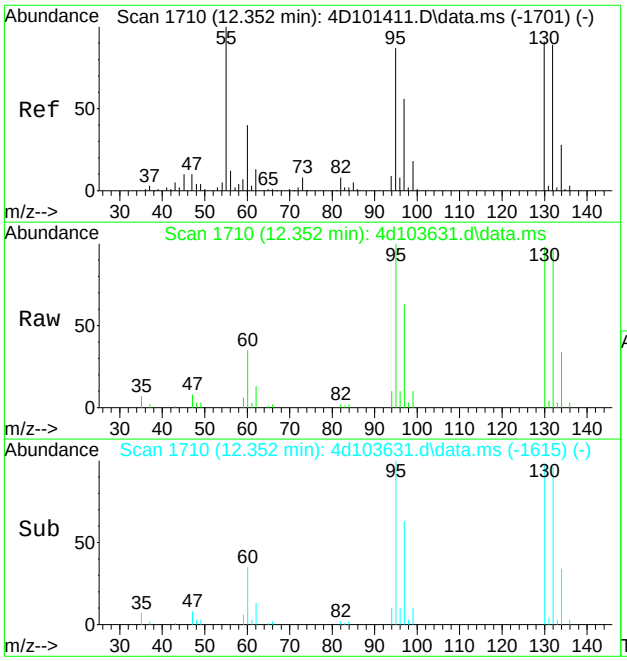


#45
1,1,1-trichloroethane
Concen: 15.00 ug/L
RT: 11.241 min Scan# 1498
Delta R.T. -0.000 min
Lab File: 4d103631.d
Acq: 27 Jul 2020 11:42 am

Tgt Ion: 97 Resp: 37299

Ion	Ratio	Lower	Upper
97	100		
99	65.2	33.0	93.0
61	39.1	11.7	71.7

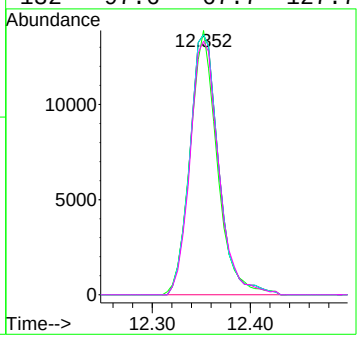




#60
trichloroethene
Concen: 17.01 ug/L
RT: 12.352 min Scan# 1710
Delta R.T. -0.000 min
Lab File: 4d103631.d
Acq: 27 Jul 2020 11:42 am

Tgt Ion:130 Resp: 27891

Ion	Ratio	Lower	Upper
130	100		
95	101.7	66.5	126.5
130	100.0	70.0	130.0
132	97.6	67.7	127.7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\janellac\07-28-2020\v4d4597\
Data File : 4d103632.d
Acq On : 27 Jul 2020 12:11 pm
Operator : krizhkac
Sample : jd10241-8 Inst : MS4D
Misc : MS44522,V4D4597,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Results File: M4D4496.RES
Quant Time: Jul 27 22:12:59 2020
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 16:29:00 2020
Response via : Initial Calibration

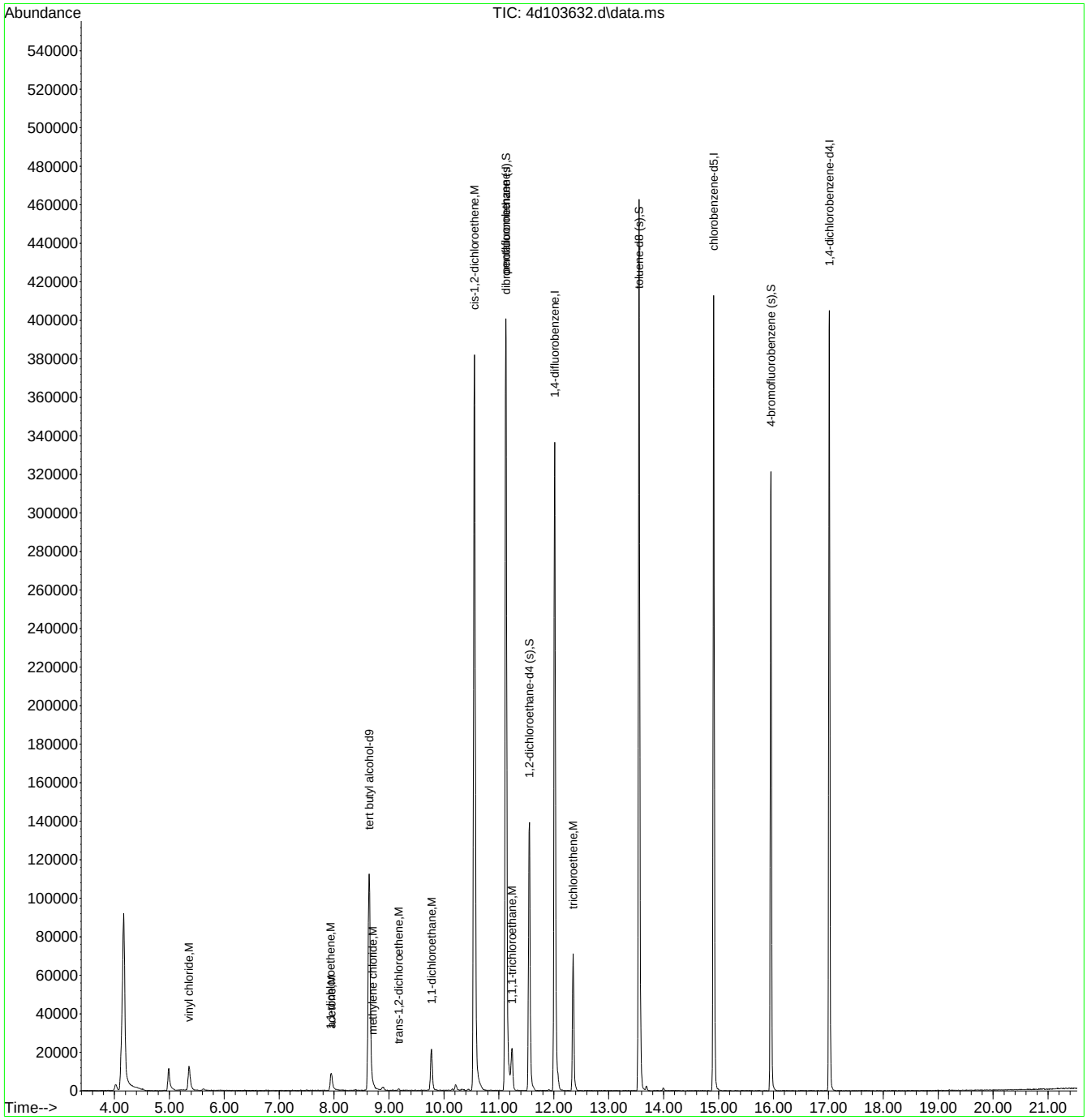
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	8.640	65	201184	500.00	ug/L	0.00
5) pentafluorobenzene	11.126	168	218839	50.00	ug/L	0.00
51) 1,4-difluorobenzene	12.017	114	322005	50.00	ug/L	0.00
73) chlorobenzene-d5	14.911	117	241388	50.00	ug/L	0.00
96) 1,4-dichlorobenzene-d4	17.019	152	108599	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	11.131	113	111334	52.99	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 105.98%			
52) 1,2-dichloroethane-d4 (s)	11.556	65	106539	47.51	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 95.02%			
74) toluene-d8 (s)	13.553	98	324497	49.79	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.58%			
97) 4-bromofluorobenzene (s)	15.954	95	104587	47.73	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 95.46%			
Target Compounds						Qvalue
9) vinyl chloride	5.358	62	22457	12.28	ug/L	95
17) 1,1-dichloroethene	7.938	96	2809	1.85	ug/L	85
18) acetone	7.948	43	12167	15.07	ug/L	94
22) methylene chloride	8.703	84	820	0.48	ug/L	84
25) trans-1,2-dichloroethene	9.175	96	482	0.30	ug/L	83
28) 1,1-dichloroethane	9.773	63	28753	9.58	ug/L	97
36) cis-1,2-dichloroethene	10.554	96	216833	118.56	ug/L #	82
45) 1,1,1-trichloroethane	11.241	97	16064	6.58	ug/L	93
60) trichloroethene	12.352	130	26897	16.55	ug/L	99

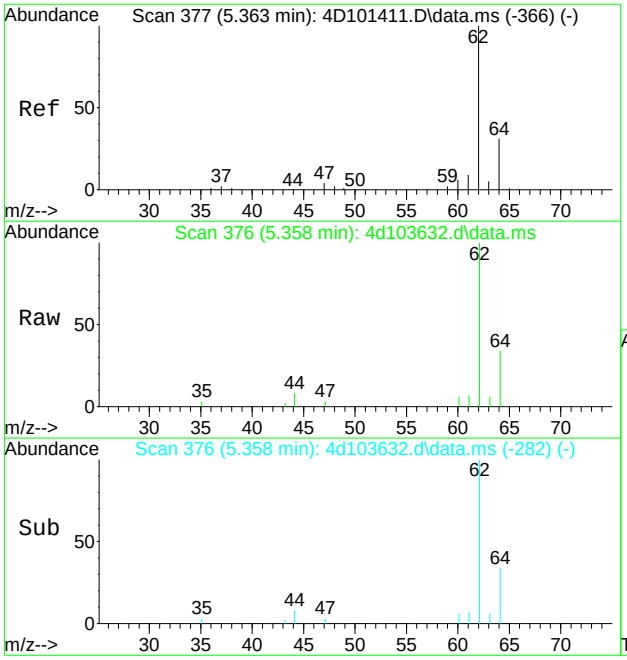
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\janellac\07-28-2020\v4d4597\
Data File : 4d103632.d
Acq On : 27 Jul 2020 12:11 pm
Operator : krizhkac
Sample : jd10241-8 Inst : MS4D
Misc : MS44522,V4D4597,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Results File: M4D4496.RES
Quant Time: Jul 27 22:12:59 2020
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 16:29:00 2020
Response via : Initial Calibration

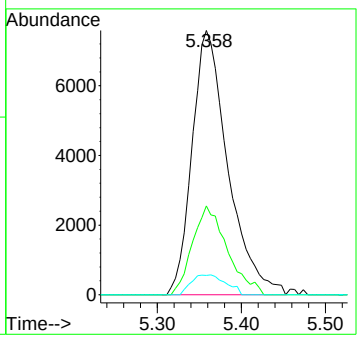


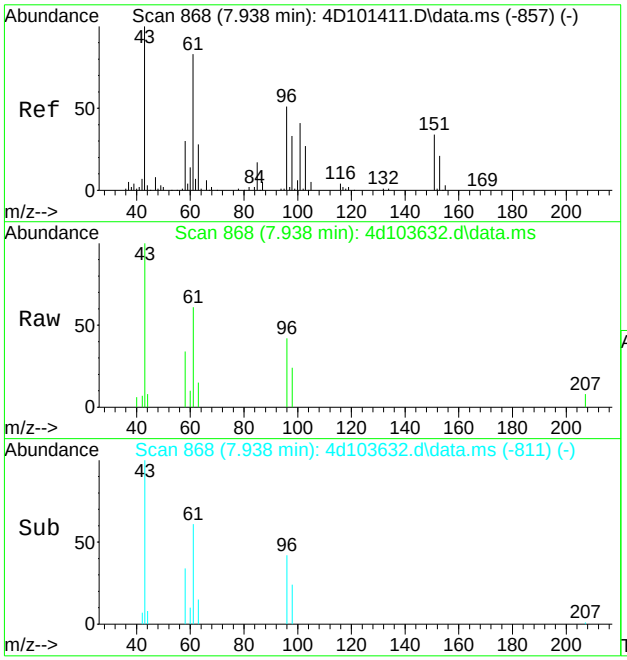


#9
vinyl chloride
Concen: 12.28 ug/L
RT: 5.358 min Scan# 376
Delta R.T. -0.005 min
Lab File: 4d103632.d
Acq: 27 Jul 2020 12:11 pm

Tgt Ion: 62 Resp: 22457

Ion	Ratio	Lower	Upper
62	100		
64	33.6	0.7	60.7
61	7.3	0.0	39.0

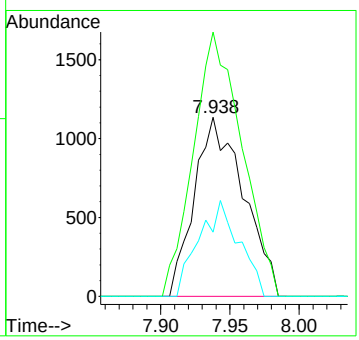


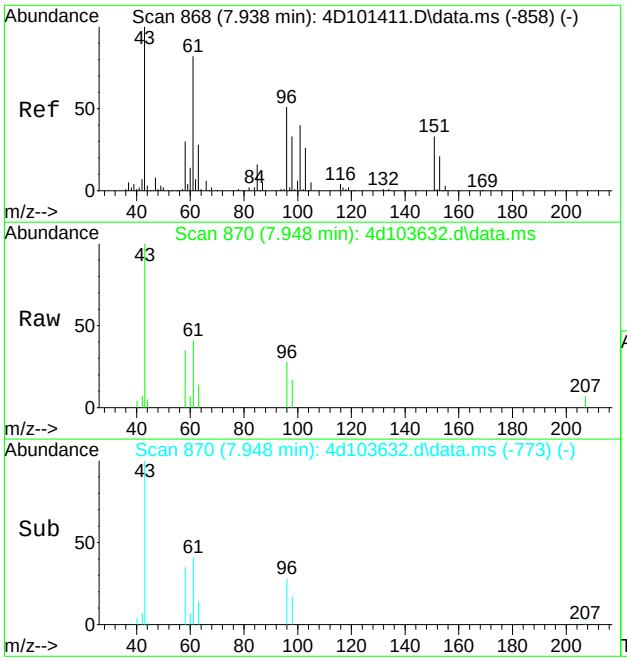


#17
1,1-dichloroethene
Concen: 1.85 ug/L
RT: 7.938 min Scan# 868
Delta R.T. 0.000 min
Lab File: 4d103632.d
Acq: 27 Jul 2020 12:11 pm

Tgt Ion: 96 Resp: 2809

Ion	Ratio	Lower	Upper
96	100		
61	147.7	132.9	192.9
63	35.9	24.9	84.9

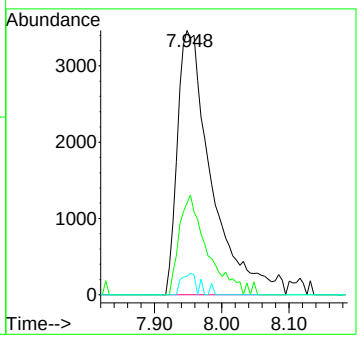


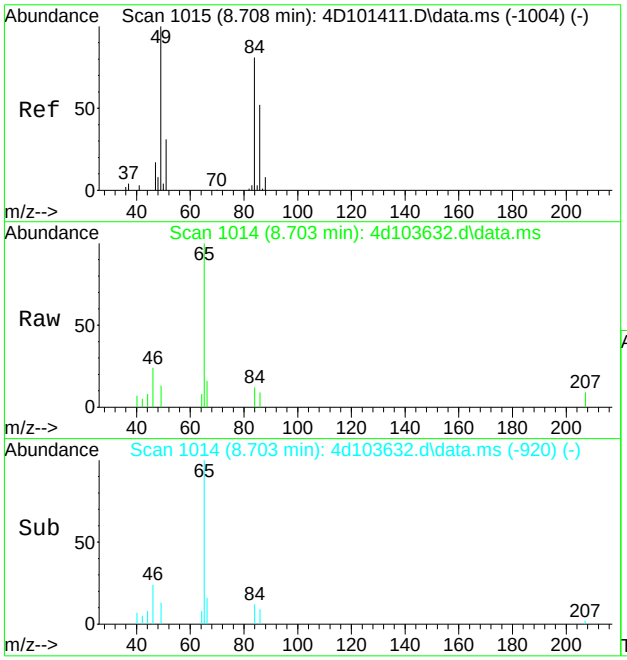


#18
acetone
Concen: 15.07 ug/L
RT: 7.948 min Scan# 870
Delta R.T. 0.011 min
Lab File: 4d103632.d
Acq: 27 Jul 2020 12:11 pm

Tgt Ion: 43 Resp: 12167

Ion	Ratio	Lower	Upper
43	100		
58	34.7	0.4	60.4
42	7.0	0.0	37.4

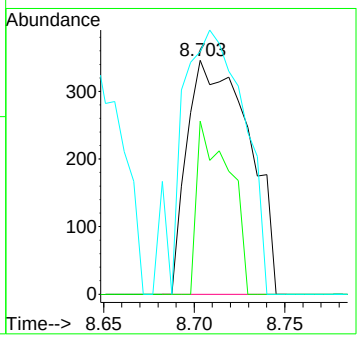


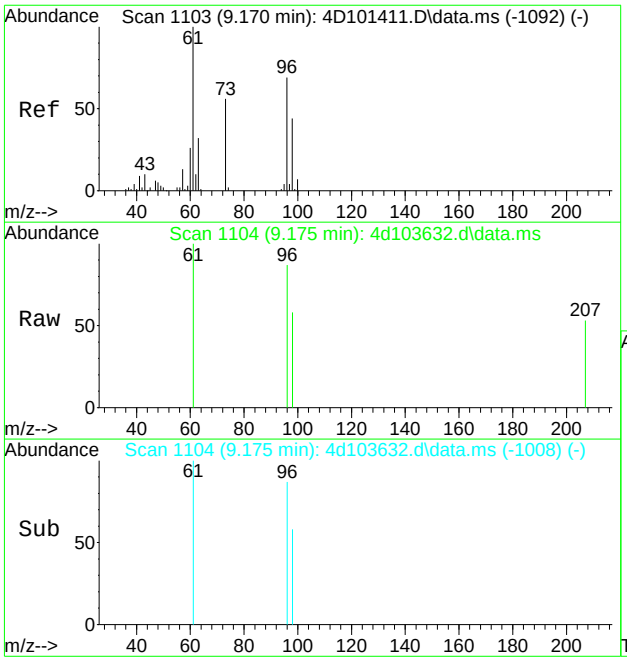


#22
methylene chloride
Concen: 0.48 ug/L
RT: 8.703 min Scan# 1014
Delta R.T. -0.005 min
Lab File: 4d103632.d
Acq: 27 Jul 2020 12:11 pm

Tgt Ion: 84 Resp: 820

Ion	Ratio	Lower	Upper
84	100		
86	74.0	34.2	94.2
49	103.8	94.4	154.4

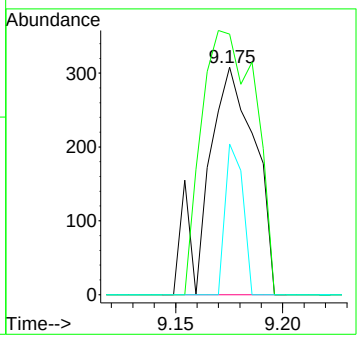


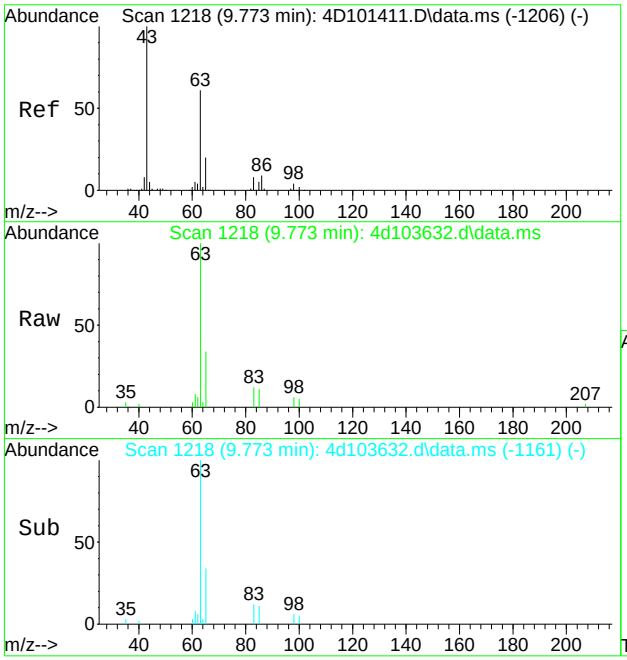


#25
trans-1,2-dichloroethene
Concen: 0.30 ug/L
RT: 9.175 min Scan# 1104
Delta R.T. 0.005 min
Lab File: 4d103632.d
Acq: 27 Jul 2020 12:11 pm

Tgt Ion: 96 Resp: 482

Ion	Ratio	Lower	Upper
96	100		
61	114.6	114.4	174.4
98	66.2	34.1	94.1

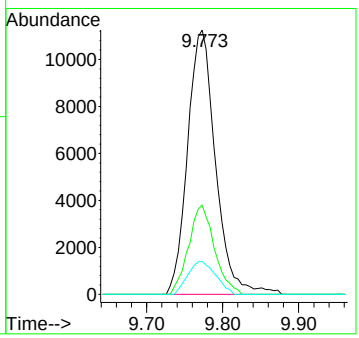


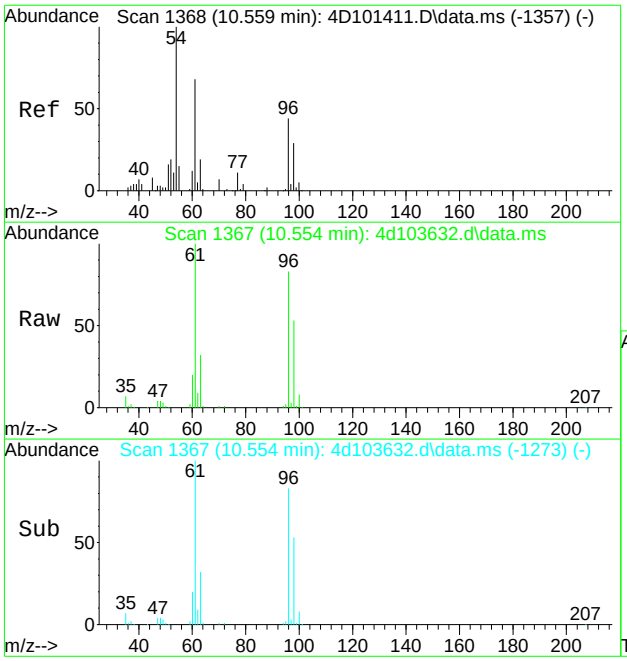


#28
1,1-dichloroethane
Concen: 9.58 ug/L
RT: 9.773 min Scan# 1218
Delta R.T. 0.000 min
Lab File: 4d103632.d
Acq: 27 Jul 2020 12:11 pm

Tgt Ion: 63 Resp: 28753

Ion	Ratio	Lower	Upper
63	100		
65	33.9	1.9	61.9
83	12.4	0.0	43.3

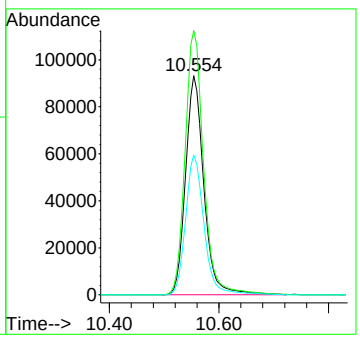


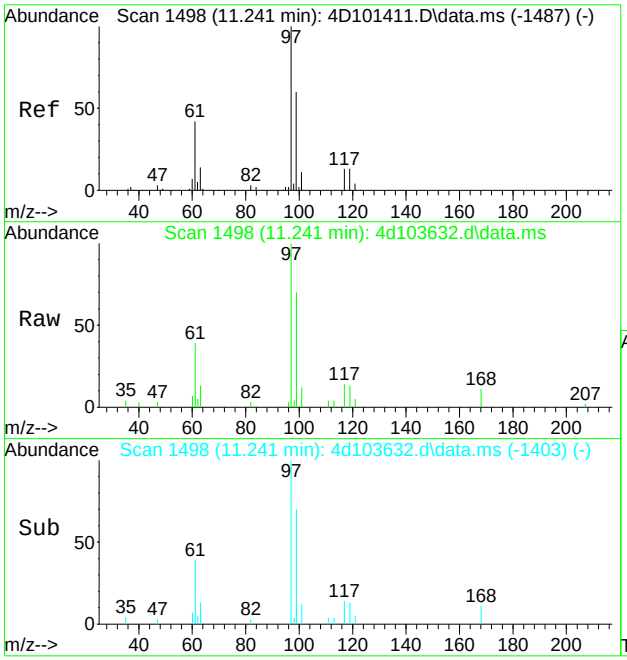


#36
cis-1,2-dichloroethene
Concen: 118.56 ug/L
RT: 10.554 min Scan# 1367
Delta R.T. -0.005 min
Lab File: 4d103632.d
Acq: 27 Jul 2020 12:11 pm

Tgt Ion: 96 Resp: 216833

Ion	Ratio	Lower	Upper
96	100		
61	120.6	122.3	182.3#
98	63.8	35.3	95.3

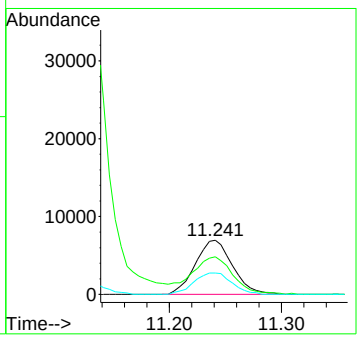


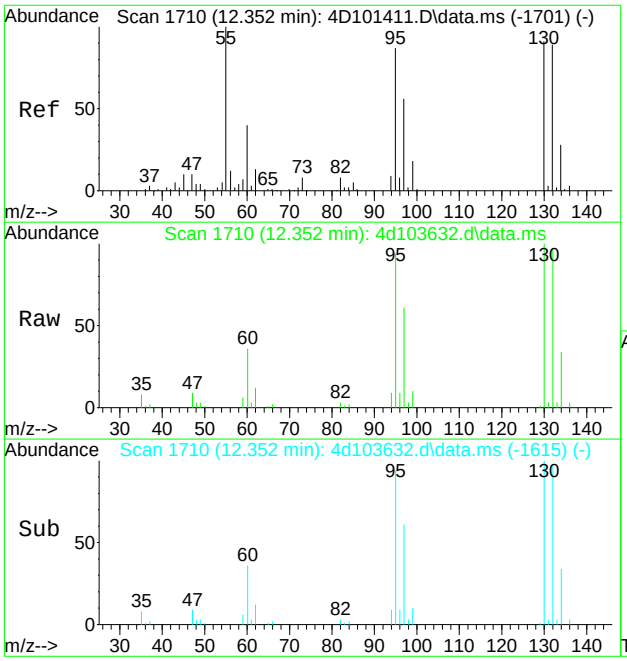


#45
1,1,1-trichloroethane
Concen: 6.58 ug/L
RT: 11.241 min Scan# 1498
Delta R.T. 0.000 min
Lab File: 4d103632.d
Acq: 27 Jul 2020 12:11 pm

Tgt Ion: 97 Resp: 16064

Ion	Ratio	Lower	Upper
97	100		
99	69.6	33.0	93.0
61	39.3	11.7	71.7

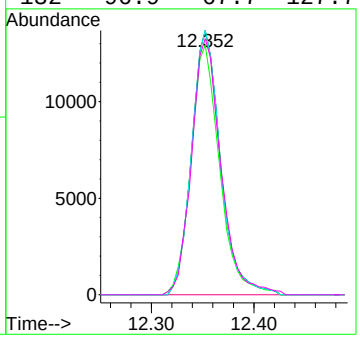




#60
trichloroethene
Concen: 16.55 ug/L
RT: 12.352 min Scan# 1710
Delta R.T. 0.000 min
Lab File: 4d103632.d
Acq: 27 Jul 2020 12:11 pm

Tgt Ion:130 Resp: 26897

Ion	Ratio	Lower	Upper
130	100		
95	94.4	66.5	126.5
130	100.0	70.0	130.0
132	96.9	67.7	127.7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\kristelv\july 2020\07222020\v2e8165 rest of batch\
Data File : 2e162989.d
Acq On : 20 Jul 2020 9:19 pm
Operator : krizhkac
Sample : jd10241-9 Inst : VOAMS2E
Misc : MS44522,V2E8165,5,,,,1
ALS Vial : 24 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 21 10:02:36 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Jul 16 11:01:59 2020
Response via : Initial Calibration

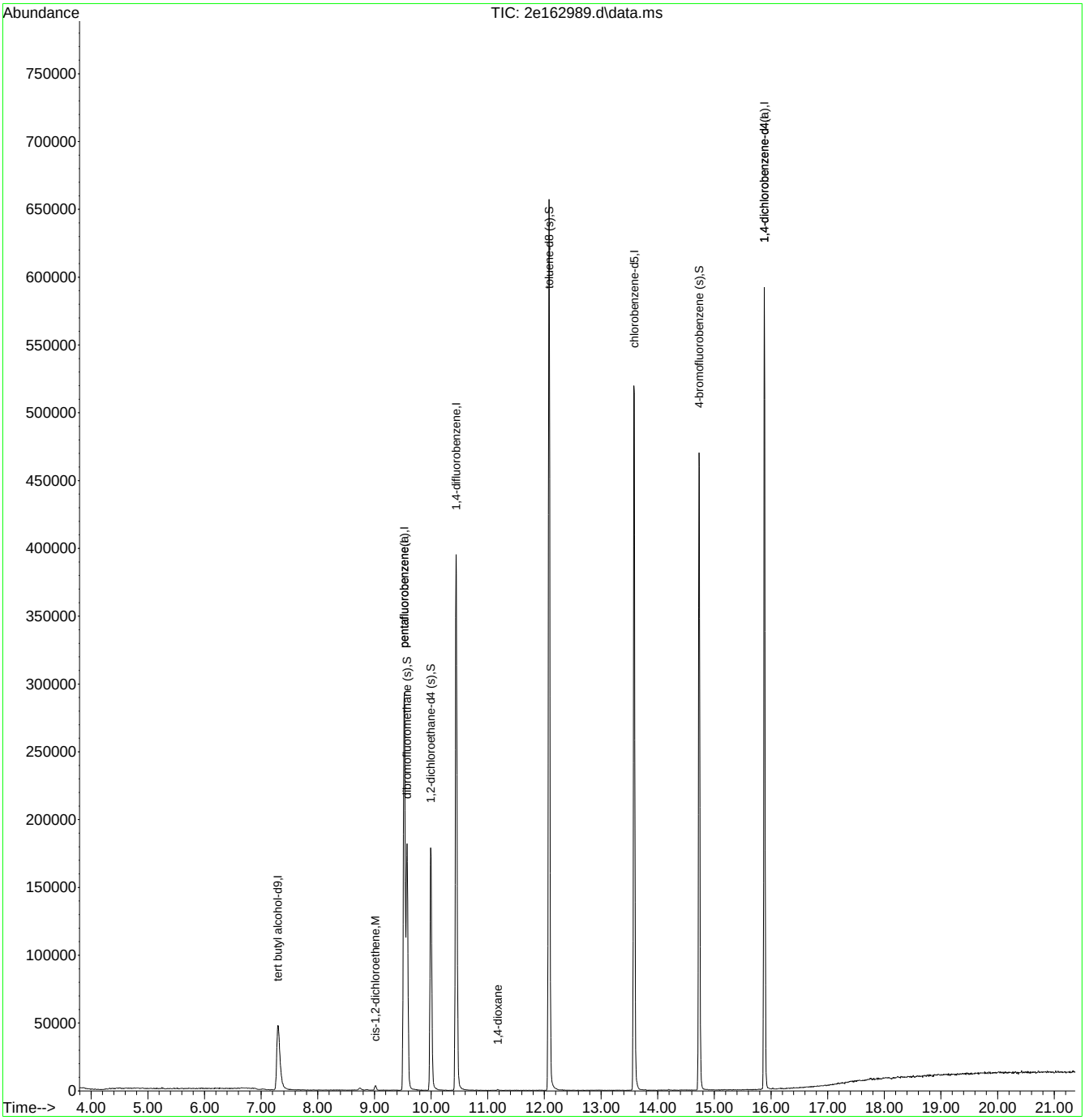
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.294	65	110090	500.00	ug/L	0.00
5) pentafluorobenzene	9.528	168	243373	50.00	ug/L	0.00
53) 1,4-difluorobenzene	10.440	114	361128	50.00	ug/L	0.00
74) chlorobenzene-d5	13.586	117	295840	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	15.883	152	145510	50.00	ug/L	0.00
127) pentafluorobenzene(a)	9.528	168	243373	50.00	ug/L	0.00
130) 1,4-dichlorobenzene-d4(a)	15.883	152	145510	50.00	ug/L	0.00
System Monitoring Compounds						
47) dibromofluoromethane (s)	9.575	113	122160	50.32	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.64%			
54) 1,2-dichloroethane-d4 (s)	9.995	65	136963	50.02	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 100.04%			
75) toluene-d8 (s)	12.081	98	459296	48.98	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 97.96%			
98) 4-bromofluorobenzene (s)	14.729	95	163425	49.73	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.46%			
Target Compounds						Qvalue
4) 1,4-dioxane	11.174	88	562	22.62	ug/L	92
37) cis-1,2-dichloroethene	9.014	96	1987	0.58	ug/L #	81

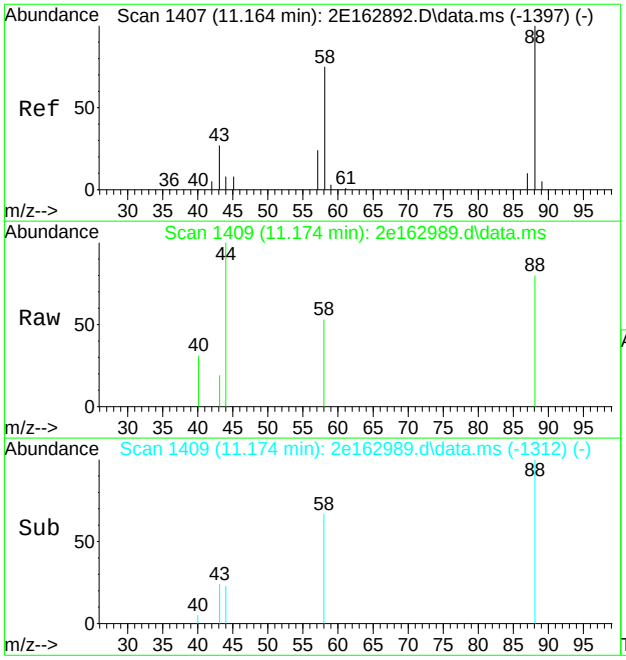
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\kristelv\july 2020\07222020\v2e8165 rest of batch\
Data File : 2e162989.d
Acq On : 20 Jul 2020 9:19 pm
Operator : krizhkac
Sample : jd10241-9 Inst : VOAMS2E
Misc : MS44522,V2E8165,5,,,,1
ALS Vial : 24 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 21 10:02:36 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Jul 16 11:01:59 2020
Response via : Initial Calibration

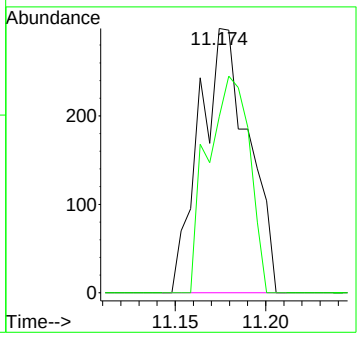


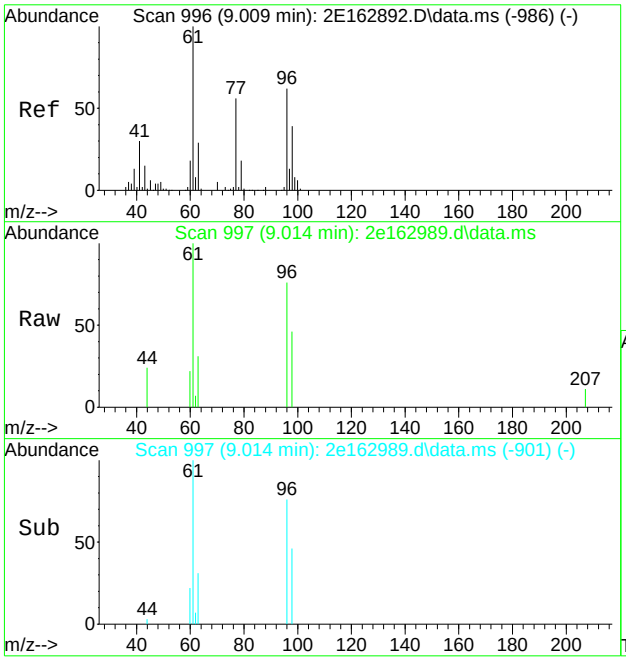


#4
1,4-dioxane
Concen: 22.62 ug/L
RT: 11.174 min Scan# 1409
Delta R.T. 0.010 min
Lab File: 2e162989.d
Acq: 20 Jul 2020 9:19 pm

Tgt Ion: 88 Resp: 562

Ion	Ratio	Lower	Upper
88	100		
58	66.6	53.0	93.0

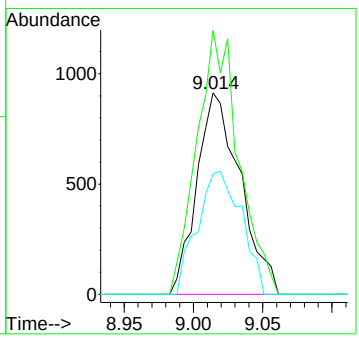




#37
cis-1,2-dichloroethene
Concen: 0.58 ug/L
RT: 9.014 min Scan# 997
Delta R.T. 0.005 min
Lab File: 2e162989.d
Acq: 20 Jul 2020 9:19 pm

Tgt Ion: 96 Resp: 1987

Ion	Ratio	Lower	Upper
96	100		
61	131.2	132.8	192.8#
98	59.7	34.0	94.0



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\July-2020\7-21\v2e8165-rush\
Data File : 2e162983.d
Acq On : 20 Jul 2020 6:20 pm
Operator : krizhkac
Sample : jd10241-10 Inst : VOAMS2E
Misc : MS44522,V2E8165,5,,,,1
ALS Vial : 18 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 21 01:06:06 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Fri Jul 17 14:25:39 2020
Response via : Initial Calibration

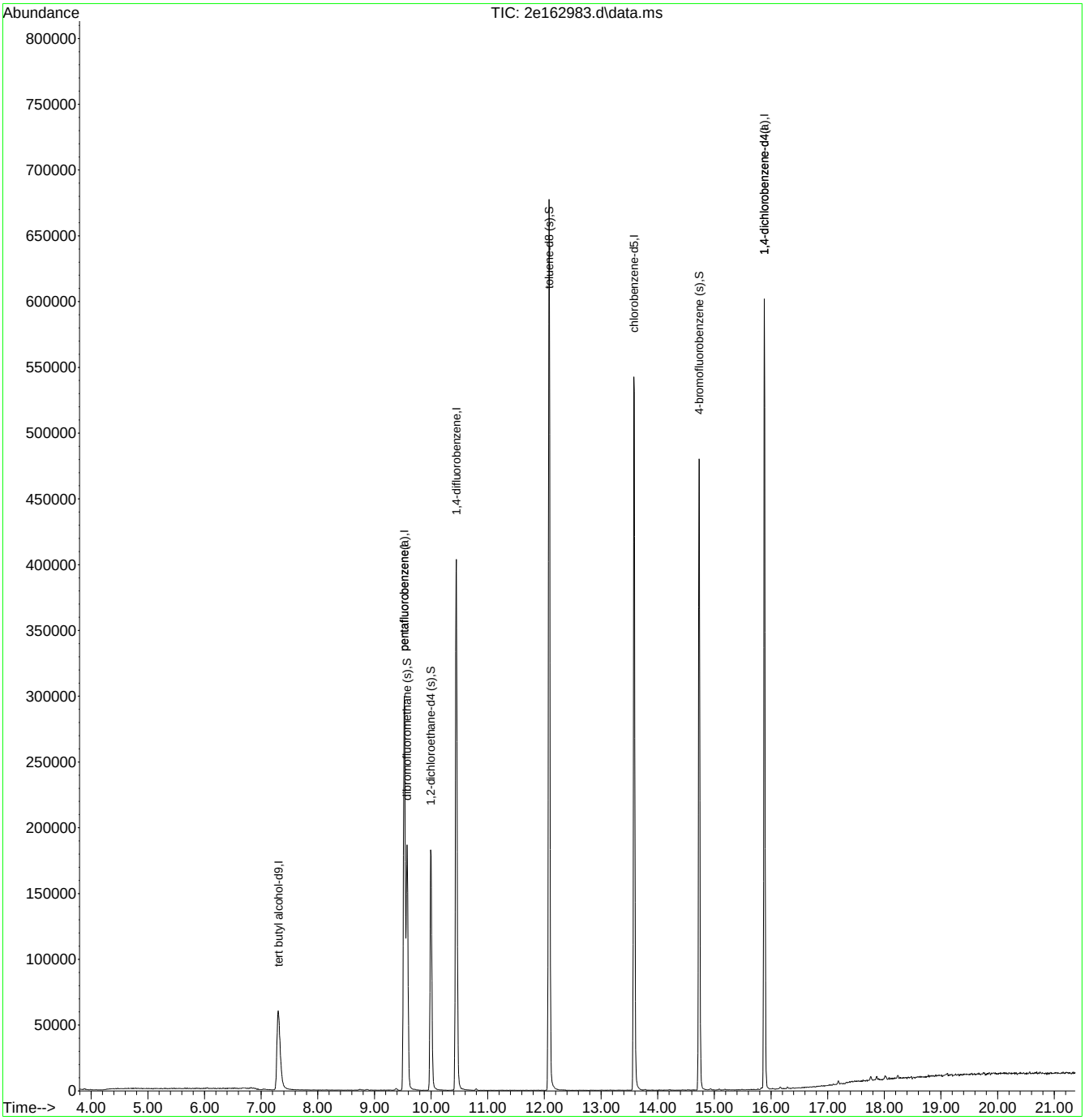
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.305	65	140881	500.00	ug/L	0.00
5) pentafluorobenzene	9.528	168	249603	50.00	ug/L	0.00
53) 1,4-difluorobenzene	10.445	114	373456	50.00	ug/L	0.00
74) chlorobenzene-d5	13.581	117	305096	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	15.883	152	149437	50.00	ug/L	0.00
127) pentafluorobenzene(a)	9.528	168	249603	50.00	ug/L	0.00
130) 1,4-dichlorobenzene-d4(a)	15.883	152	149437	50.00	ug/L	0.00
System Monitoring Compounds						
47) dibromofluoromethane (s)	9.575	113	125575	50.43	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.86%			
54) 1,2-dichloroethane-d4 (s)	9.995	65	141306	49.91	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 99.82%			
75) toluene-d8 (s)	12.081	98	476692	49.29	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 98.58%			
98) 4-bromofluorobenzene (s)	14.729	95	168489	49.92	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.84%			
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\July-2020\7-21\v2e8165-rush\
Data File : 2e162983.d
Acq On : 20 Jul 2020 6:20 pm
Operator : krizhkac
Sample : jd10241-10 Inst : VOAMS2E
Misc : MS44522,V2E8165,5,,,,1
ALS Vial : 18 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 21 01:06:06 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Fri Jul 17 14:25:39 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\July-2020\7-21\v2e8165-rush\
Data File : 2e162984.d
Acq On : 20 Jul 2020 6:50 pm
Operator : krizhkac
Sample : jd10241-11 Inst : VOAMS2E
Misc : MS44522,V2E8165,5,,,,1
ALS Vial : 19 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 21 01:08:28 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Fri Jul 17 14:25:39 2020
Response via : Initial Calibration

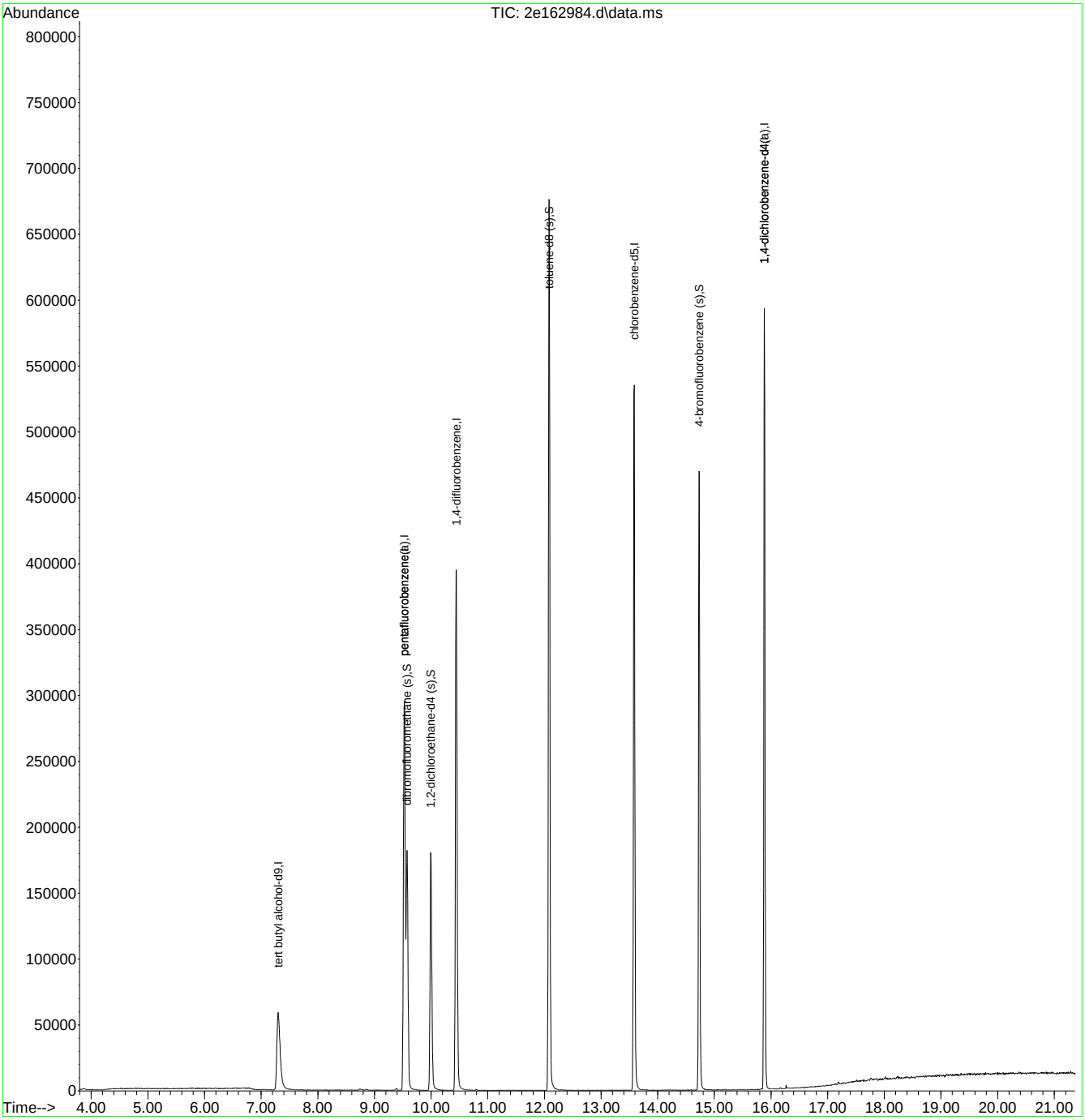
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.300	65	137491	500.00	ug/L	0.00
5) pentafluorobenzene	9.528	168	247671	50.00	ug/L	0.00
53) 1,4-difluorobenzene	10.445	114	370015	50.00	ug/L	0.00
74) chlorobenzene-d5	13.586	117	302608	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	15.882	152	146571	50.00	ug/L	0.00
127) pentafluorobenzene(a)	9.528	168	247671	50.00	ug/L	0.00
130) 1,4-dichlorobenzene-d4(a)	15.882	152	146571	50.00	ug/L	0.00
System Monitoring Compounds						
47) dibromofluoromethane (s)	9.575	113	123603	50.03	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.06%			
54) 1,2-dichloroethane-d4 (s)	9.994	65	139018	49.56	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 99.12%			
75) toluene-d8 (s)	12.081	98	472954	49.31	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 98.62%			
98) 4-bromofluorobenzene (s)	14.729	95	165276	49.93	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.86%			
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\July-2020\7-21\v2e8165-rush\
Data File : 2e162984.d
Acq On : 20 Jul 2020 6:50 pm
Operator : krizhkac
Sample : jd10241-11 Inst : VOAMS2E
Misc : MS44522,V2E8165,5,,,,1
ALS Vial : 19 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 21 01:08:28 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Fri Jul 17 14:25:39 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\kristelv\july 2020\07222020\v2e8165 rest of batch\
Data File : 2e162990.d
Acq On : 20 Jul 2020 9:49 pm
Operator : krizhkac
Sample : jd10241-12 Inst : VOAMS2E
Misc : MS44522,V2E8165,5,,,,1
ALS Vial : 25 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 21 10:03:50 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Jul 16 11:01:59 2020
Response via : Initial Calibration

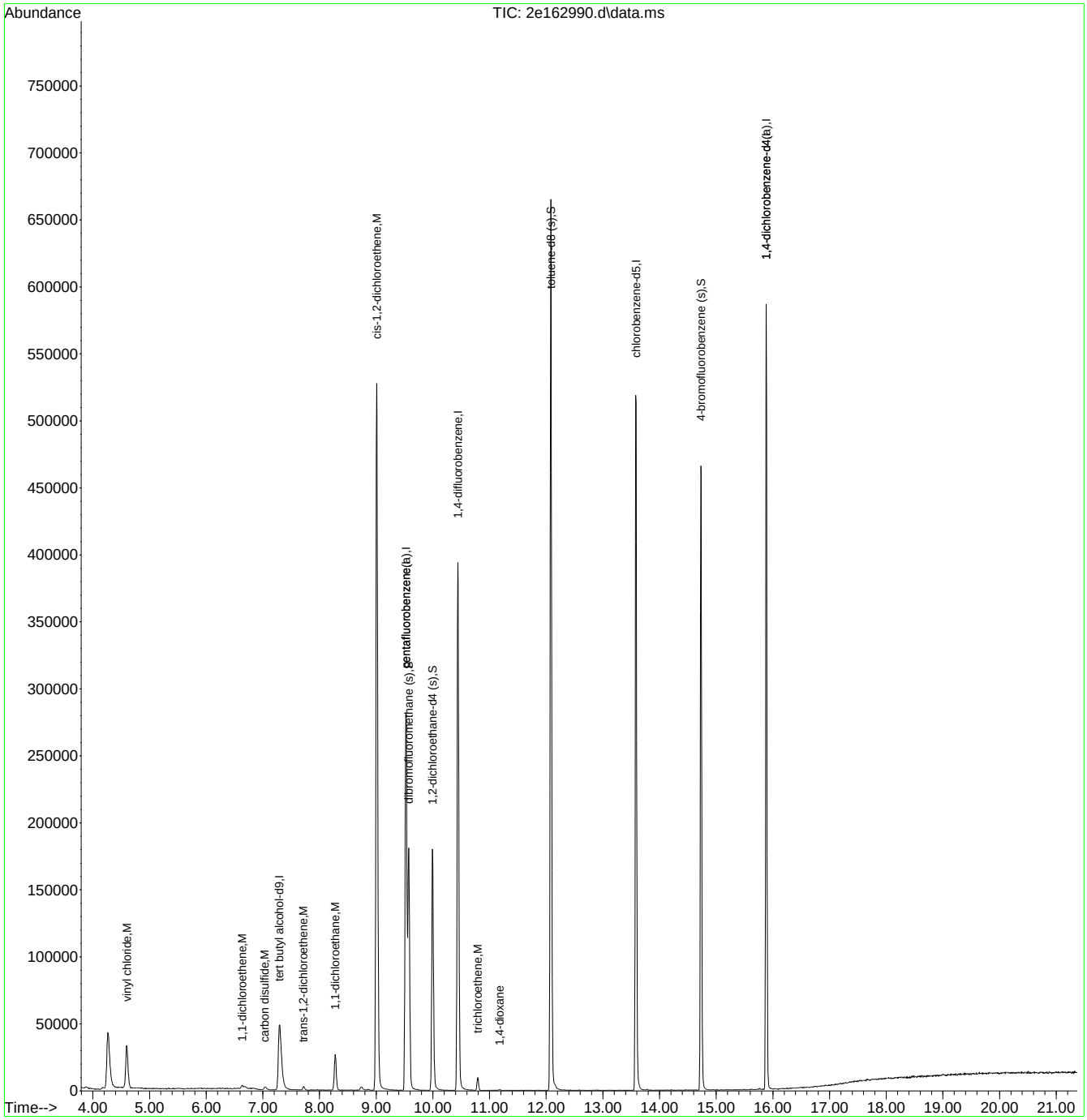
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.289	65	110856	500.00	ug/L	-0.01
5) pentafluorobenzene	9.528	168	241322	50.00	ug/L	0.00
53) 1,4-difluorobenzene	10.440	114	360679	50.00	ug/L	0.00
74) chlorobenzene-d5	13.586	117	295265	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	15.882	152	145045	50.00	ug/L	0.00
127) pentafluorobenzene(a)	9.528	168	241322	50.00	ug/L	0.00
130) 1,4-dichlorobenzene-d4(a)	15.882	152	145045	50.00	ug/L	0.00
System Monitoring Compounds						
47) dibromofluoromethane (s)	9.575	113	120493	50.05	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.10%			
54) 1,2-dichloroethane-d4 (s)	9.995	65	137464	50.27	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 100.54%			
75) toluene-d8 (s)	12.081	98	461722	49.33	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 98.66%			
98) 4-bromofluorobenzene (s)	14.729	95	161946	49.44	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 98.88%			
Target Compounds						Qvalue
4) 1,4-dioxane	11.174	88	356	14.23	ug/L	84
9) vinyl chloride	4.599	62	54838	10.83	ug/L	99
18) 1,1-dichloroethene	6.634	61	2175	0.45	ug/L	91
22) carbon disulfide	7.032	76	5064	0.58	ug/L	84
26) trans-1,2-dichloroethene	7.714	61	2094	0.44	ug/L	95
31) 1,1-dichloroethane	8.275	63	33472	5.65	ug/L	94
37) cis-1,2-dichloroethene	9.009	96	272109	79.67	ug/L	87
62) trichloroethene	10.791	95	3868	1.29	ug/L	94

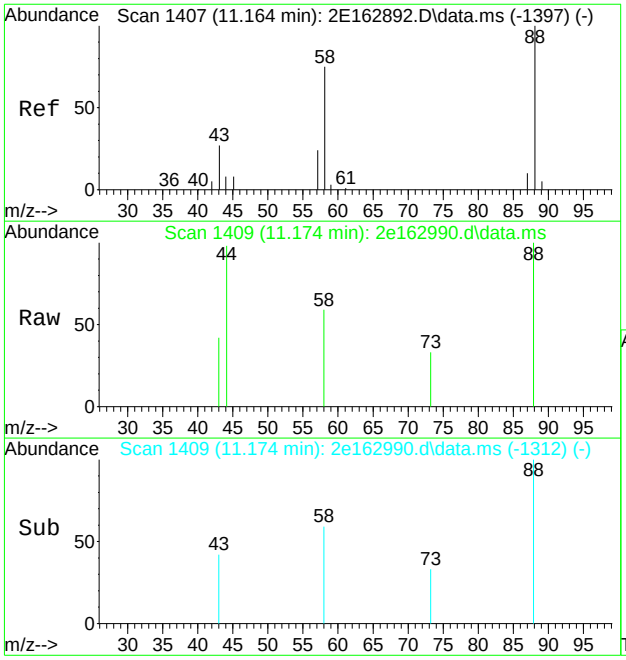
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\kristelv\july 2020\07222020\v2e8165 rest of batch\
Data File : 2e162990.d
Acq On : 20 Jul 2020 9:49 pm
Operator : krizhkac
Sample : jd10241-12 Inst : VOAMS2E
Misc : MS44522,V2E8165,5,,,,1
ALS Vial : 25 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 21 10:03:50 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Jul 16 11:01:59 2020
Response via : Initial Calibration

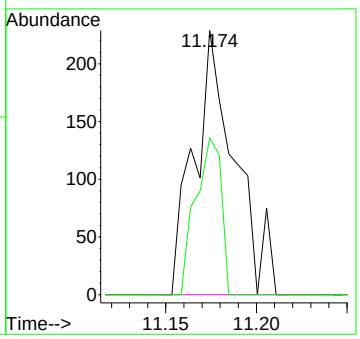


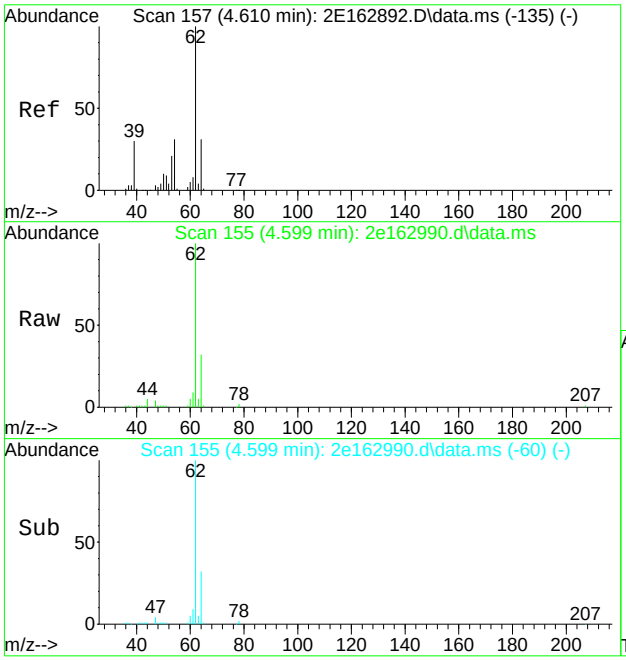


#4
1,4-dioxane
Concen: 14.23 ug/L
RT: 11.174 min Scan# 1409
Delta R.T. 0.010 min
Lab File: 2e162990.d
Acq: 20 Jul 2020 9:49 pm

Tgt Ion: 88 Resp: 356

Ion	Ratio	Lower	Upper
88	100		
58	59.4	53.0	93.0

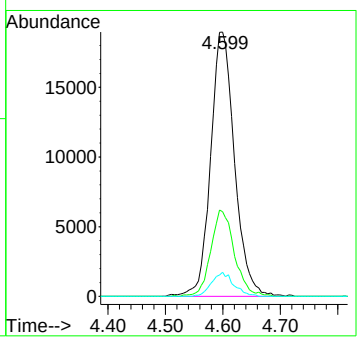


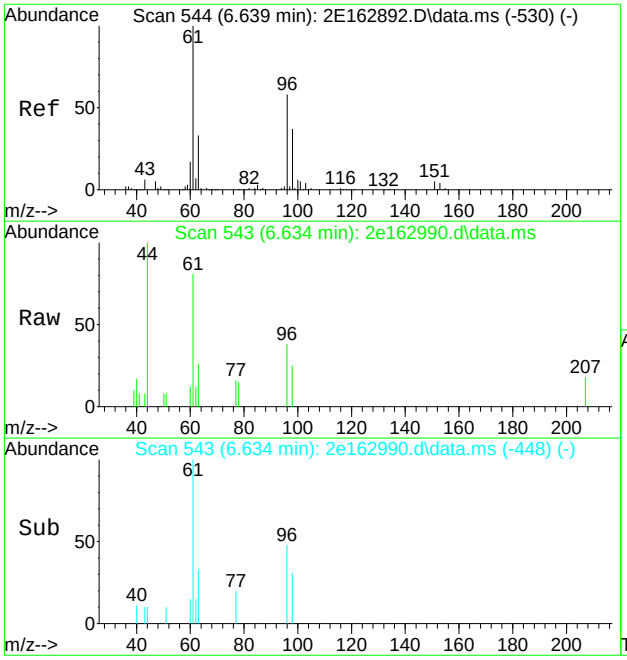


#9
vinyl chloride
Concen: 10.83 ug/L
RT: 4.599 min Scan# 155
Delta R.T. 0.000 min
Lab File: 2e162990.d
Acq: 20 Jul 2020 9:49 pm

Tgt Ion: 62 Resp: 54838

Ion	Ratio	Lower	Upper
62	100		
64	32.0	1.4	61.4
61	9.1	0.0	38.4

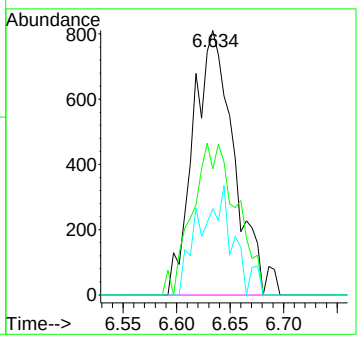


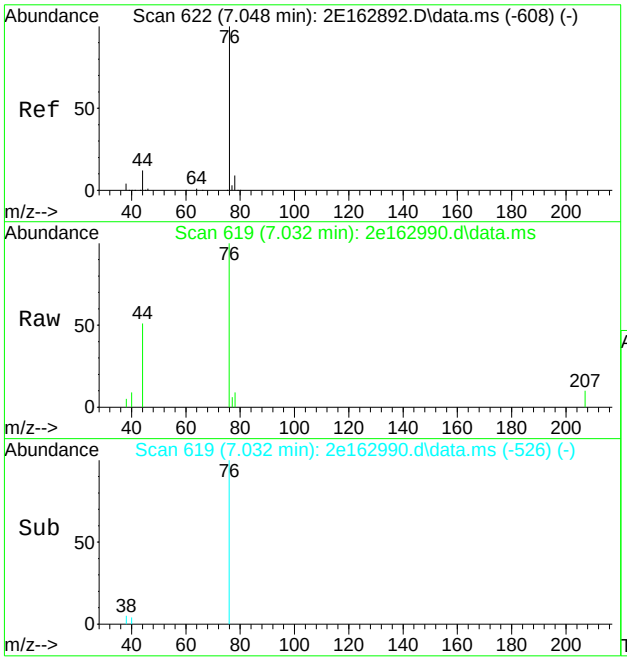


#18
1,1-dichloroethene
Concen: 0.45 ug/L
RT: 6.634 min Scan# 543
Delta R.T. -0.000 min
Lab File: 2e162990.d
Acq: 20 Jul 2020 9:49 pm

Tgt Ion: 61 Resp: 2175

Ion	Ratio	Lower	Upper
61	100		
96	47.6	27.8	87.8
63	32.6	2.6	62.6

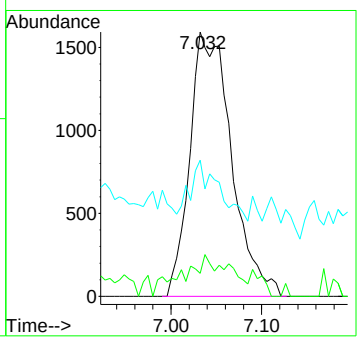


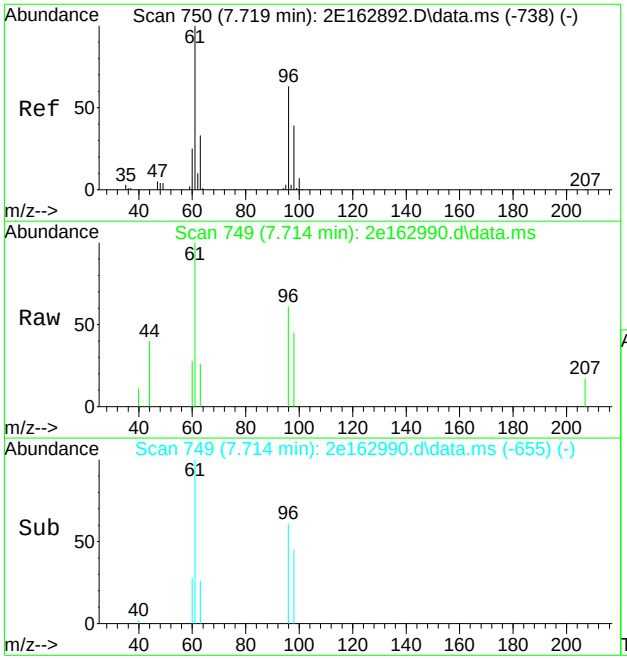


#22
carbon disulfide
Concen: 0.58 ug/L
RT: 7.032 min Scan# 619
Delta R.T. -0.011 min
Lab File: 2e162990.d
Acq: 20 Jul 2020 9:49 pm

Tgt Ion: 76 Resp: 5064

Ion	Ratio	Lower	Upper
76	100		
78	3.8	0.0	38.9
44	18.6	0.0	41.8

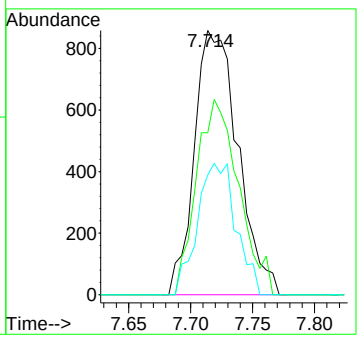


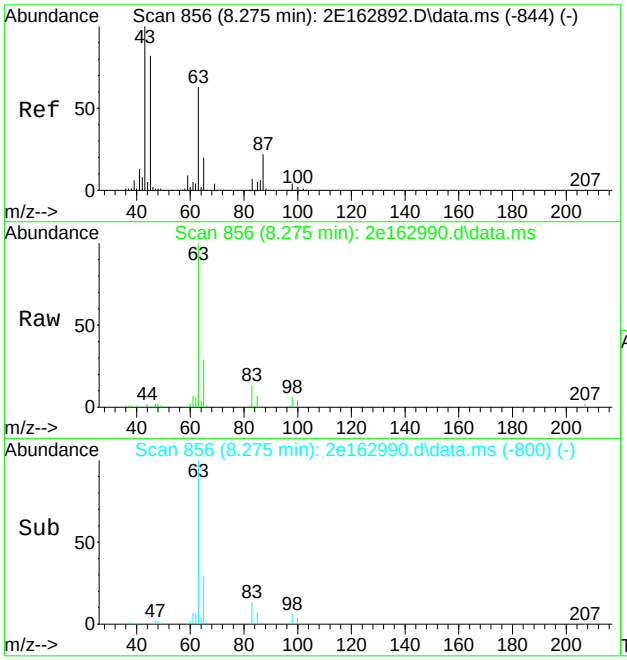


#26
trans-1,2-dichloroethene
Concen: 0.44 ug/L
RT: 7.714 min Scan# 749
Delta R.T. -0.005 min
Lab File: 2e162990.d
Acq: 20 Jul 2020 9:49 pm

Tgt Ion: 61 Resp: 2094

Ion	Ratio	Lower	Upper
61	100		
96	61.2	34.3	94.3
98	45.3	11.3	71.3

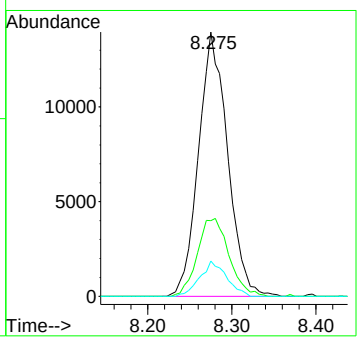


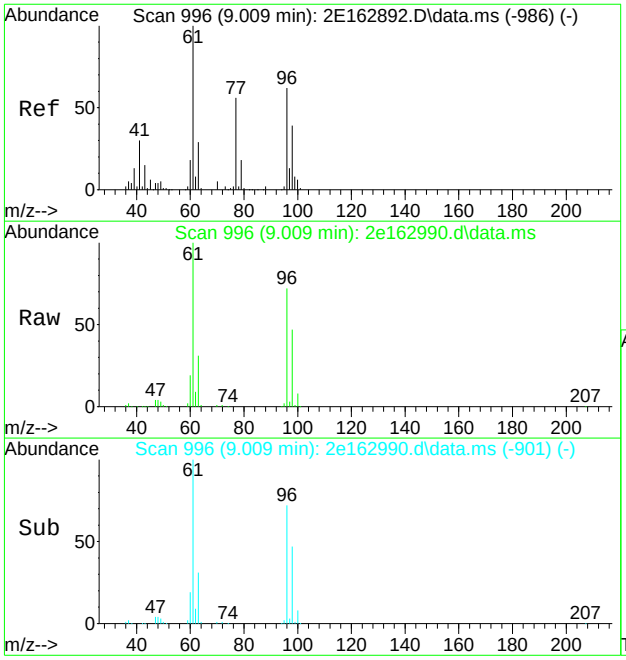


#31
1,1-dichloroethane
Concen: 5.65 ug/L
RT: 8.275 min Scan# 856
Delta R.T. -0.005 min
Lab File: 2e162990.d
Acq: 20 Jul 2020 9:49 pm

Tgt Ion: 63 Resp: 33472

Ion	Ratio	Lower	Upper
63	100		
65	28.6	2.4	62.4
83	13.4	0.0	42.4

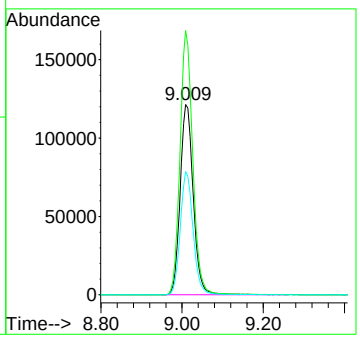


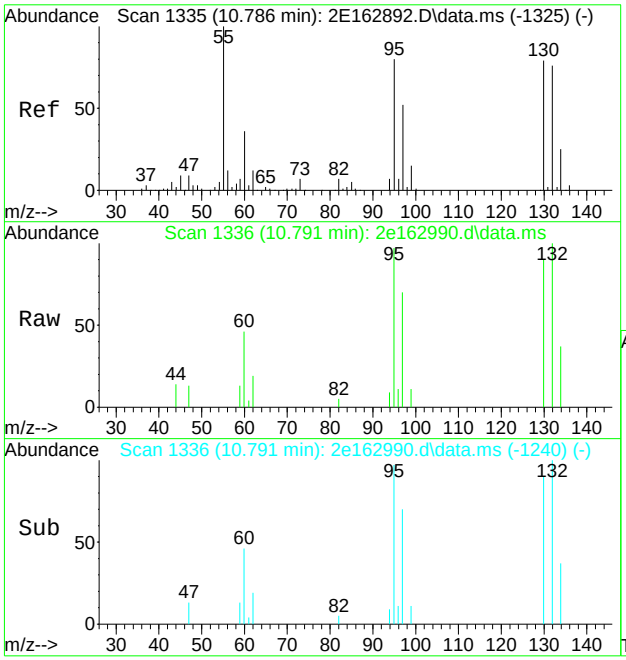


#37
cis-1,2-dichloroethene
Concen: 79.67 ug/L
RT: 9.009 min Scan# 996
Delta R.T. -0.000 min
Lab File: 2e162990.d
Acq: 20 Jul 2020 9:49 pm

Tgt Ion: 96 Resp: 272109

Ion	Ratio	Lower	Upper
96	100		
61	139.0	132.8	192.8
98	64.8	34.0	94.0

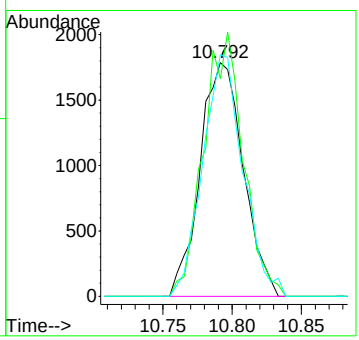




#62
trichloroethene
Concen: 1.29 ug/L
RT: 10.791 min Scan# 1336
Delta R.T. 0.005 min
Lab File: 2e162990.d
Acq: 20 Jul 2020 9:49 pm

Tgt Ion: 95 Resp: 3868

Ion	Ratio	Lower	Upper
95	100		
130	93.2	69.0	129.0
132	103.3	68.2	128.2



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\July-2020\7-21\v2e8165-rush\
Data File : 2e162973.d
Acq On : 20 Jul 2020 1:12 pm
Operator : krizhkac
Sample : mb Inst : VOAMS2E
Misc : MS37677,V2E8165,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 21 00:46:48 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Jul 16 11:01:59 2020
Response via : Initial Calibration

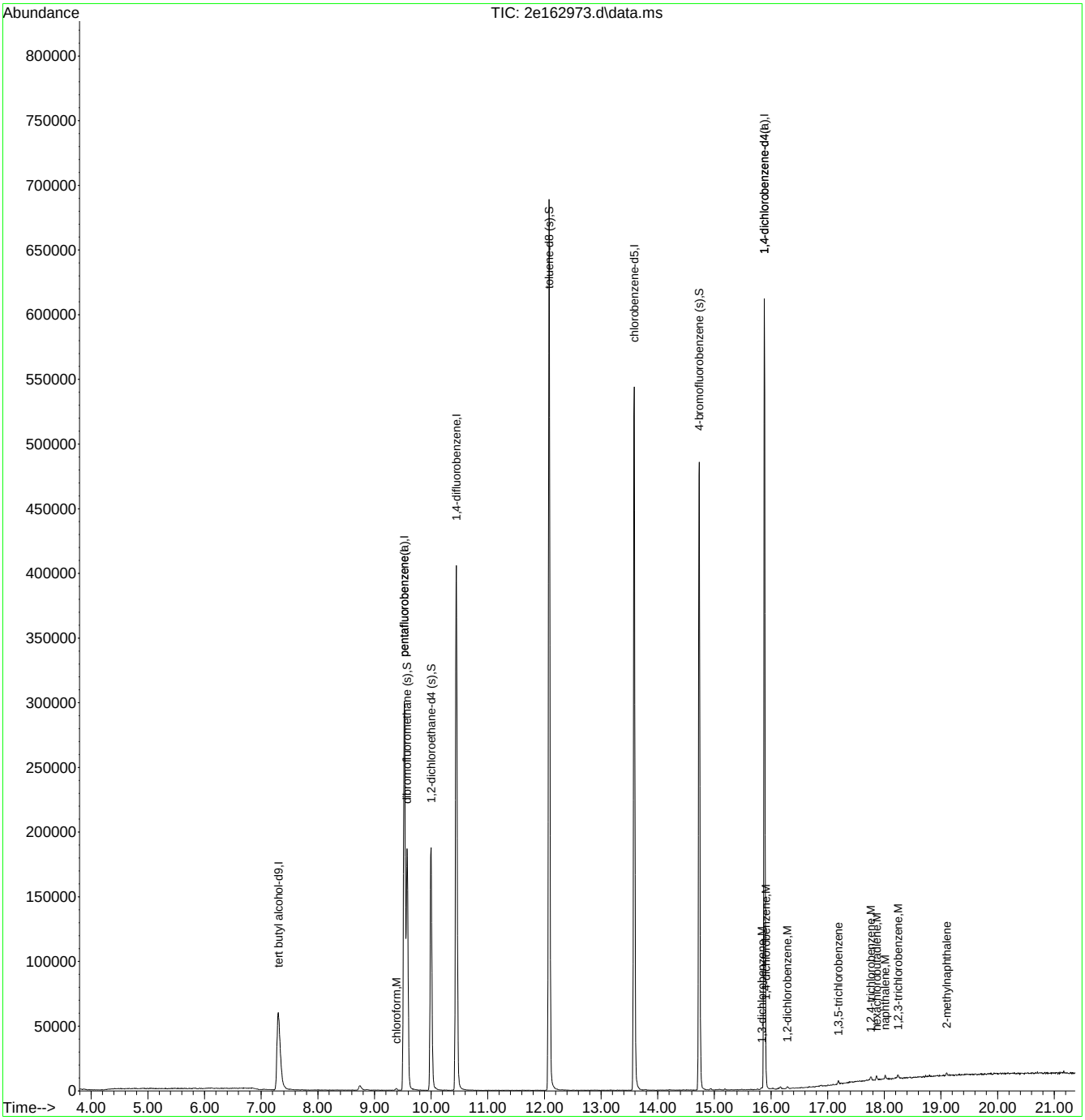
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.305	65	142560	500.00	ug/L	0.00
5) pentafluorobenzene	9.528	168	250948	50.00	ug/L	0.00
53) 1,4-difluorobenzene	10.445	114	377299	50.00	ug/L	0.00
74) chlorobenzene-d5	13.586	117	305676	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	15.882	152	150471	50.00	ug/L	0.00
127) pentafluorobenzene(a)	9.528	168	250948	50.00	ug/L	0.00
130) 1,4-dichlorobenzene-d4(a)	15.882	152	150471	50.00	ug/L	0.00
System Monitoring Compounds						
47) dibromofluoromethane (s)	9.575	113	126424	50.50	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 101.00%			
54) 1,2-dichloroethane-d4 (s)	10.000	65	143056	50.01	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 100.02%			
75) toluene-d8 (s)	12.081	98	479532	49.49	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 98.98%			
98) 4-bromofluorobenzene (s)	14.729	95	168925	49.71	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.42%			
Target Compounds						Qvalue
42) chloroform	9.386	83	796	0.14	ug/L	95
110) 1,3-dichlorobenzene	15.835	146	789	0.14	ug/L	90
112) 1,4-dichlorobenzene	15.909	146	1041	0.17	ug/L	89
113) 1,2-dichlorobenzene	16.286	146	703	0.12	ug/L	91
116) 1,3,5-trichlorobenzene	17.188	180	993	0.21	ug/L	88
117) 1,2,4-trichlorobenzene	17.759	180	1261	0.33	ug/L	94
119) hexachlorobutadiene	17.864	225	759	0.37	ug/L	75
120) naphthalene	18.016	128	2315	0.27	ug/L	94
121) 1,2,3-trichlorobenzene	18.242	180	1156	0.33	ug/L	99
124) 2-methylnaphthalene	19.102	142	939	0.24	ug/L	85

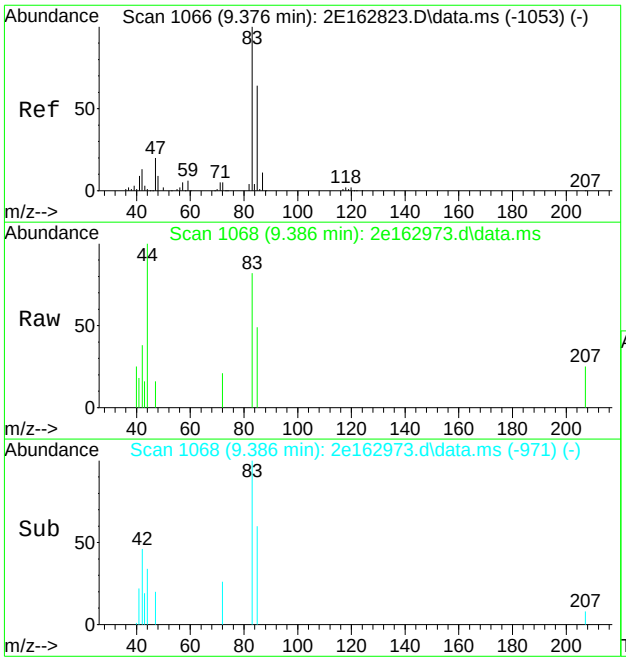
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\July-2020\7-21\v2e8165-rush\
Data File : 2e162973.d
Acq On : 20 Jul 2020 1:12 pm
Operator : krizhkac
Sample : mb Inst : VOAMS2E
Misc : MS37677,V2E8165,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 21 00:46:48 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Jul 16 11:01:59 2020
Response via : Initial Calibration

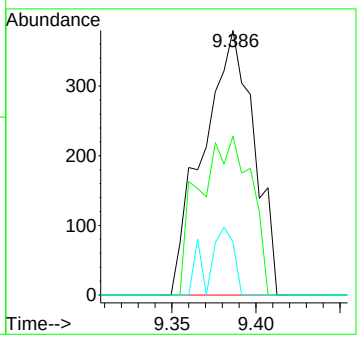


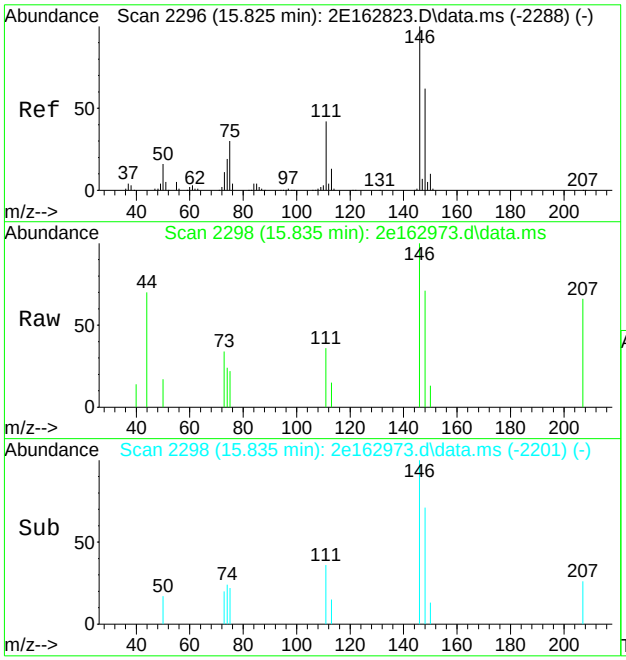


#42
chloroform
Concen: 0.14 ug/L
RT: 9.386 min Scan# 1068
Delta R.T. 0.010 min
Lab File: 2e162973.d
Acq: 20 Jul 2020 1:12 pm

Tgt Ion: 83 Resp: 796

Ion	Ratio	Lower	Upper
83	100		
85	60.0	33.5	93.5
47	20.0	0.0	53.0

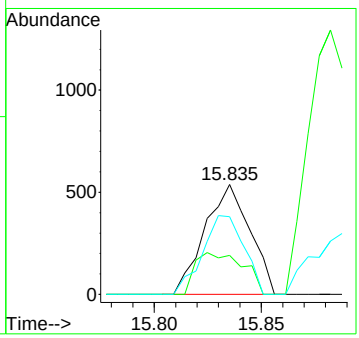


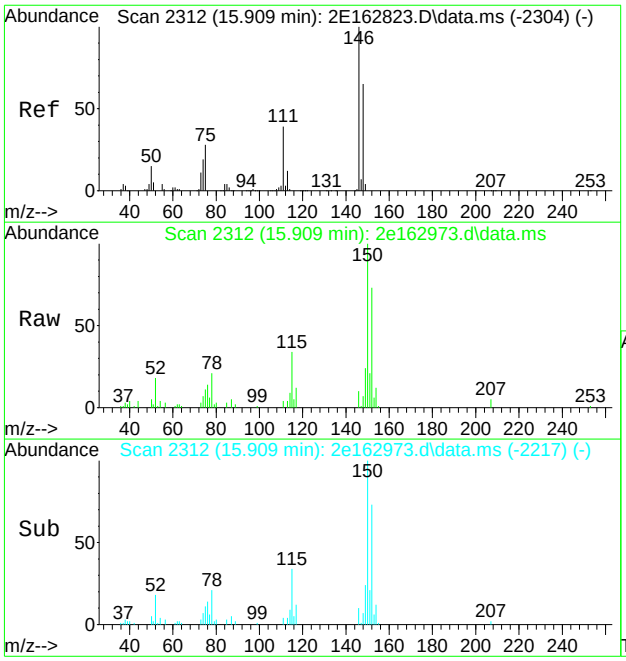


#110
1,3-dichlorobenzene
Concen: 0.14 ug/L
RT: 15.835 min Scan# 2298
Delta R.T. 0.010 min
Lab File: 2e162973.d
Acq: 20 Jul 2020 1:12 pm

Tgt Ion:146 Resp: 789

Ion	Ratio	Lower	Upper
146	100		
111	35.5	11.7	71.7
148	70.8	32.4	92.4

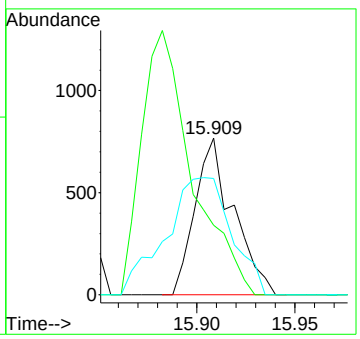


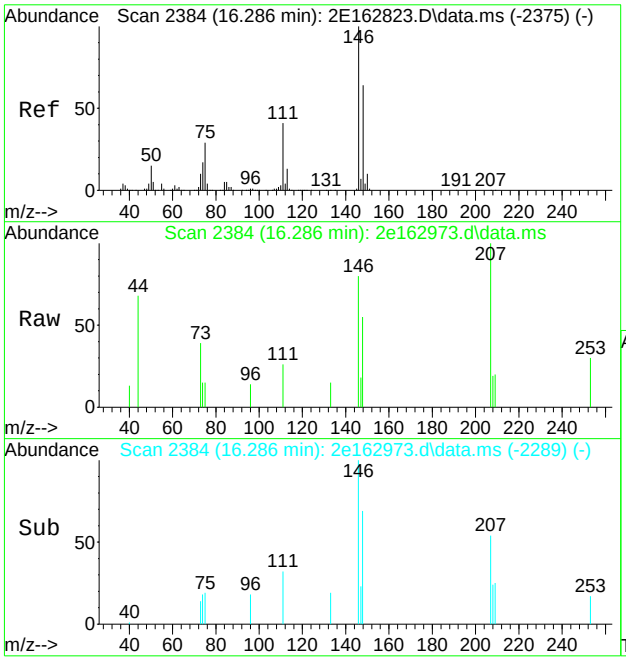


#112
1,4-dichlorobenzene
Concen: 0.17 ug/L
RT: 15.909 min Scan# 2312
Delta R.T. -0.000 min
Lab File: 2e162973.d
Acq: 20 Jul 2020 1:12 pm

Tgt Ion:146 Resp: 1041

Ion	Ratio	Lower	Upper
146	100		
111	44.5	9.1	69.1
148	74.3	34.9	94.9

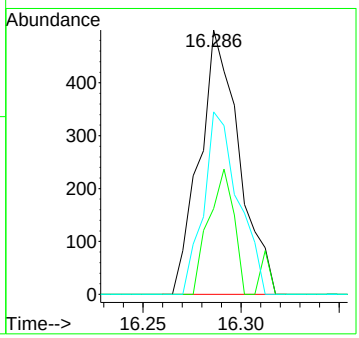


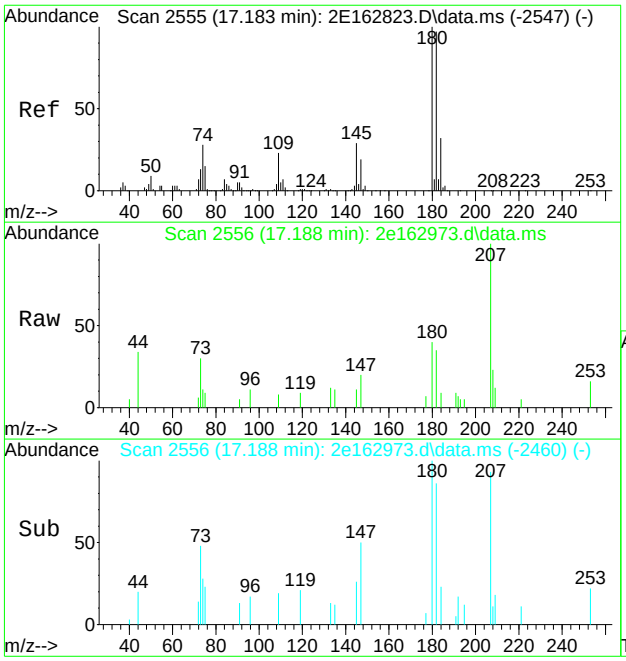


#113
1,2-dichlorobenzene
Concen: 0.12 ug/L
RT: 16.286 min Scan# 2384
Delta R.T. 0.000 min
Lab File: 2e162973.d
Acq: 20 Jul 2020 1:12 pm

Tgt Ion:146 Resp: 703

Ion	Ratio	Lower	Upper
146	100		
111	32.4	11.5	71.5
148	69.0	34.3	94.3

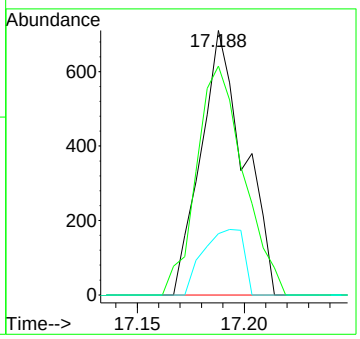


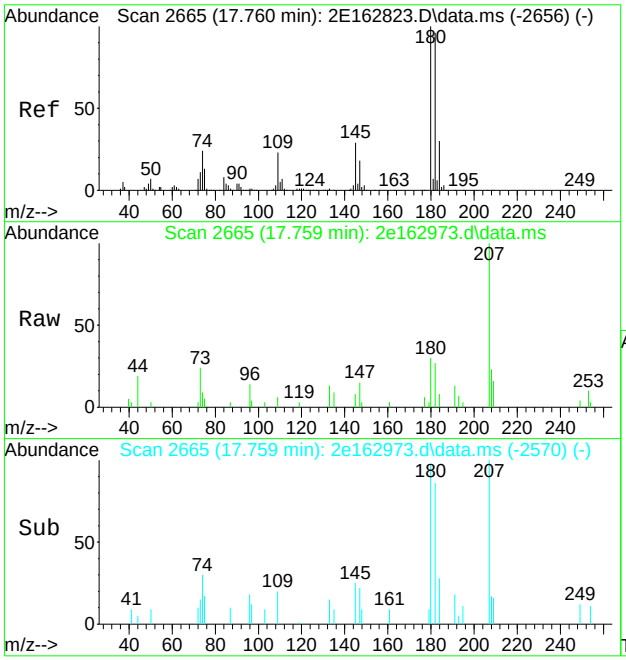


#116
1,3,5-trichlorobenzene
Concen: 0.21 ug/L
RT: 17.188 min Scan# 2556
Delta R.T. 0.005 min
Lab File: 2e162973.d
Acq: 20 Jul 2020 1:12 pm

Tgt Ion:180 Resp: 993

Ion	Ratio	Lower	Upper
180	100		
182	86.5	67.1	127.1
184	23.2	1.5	61.5

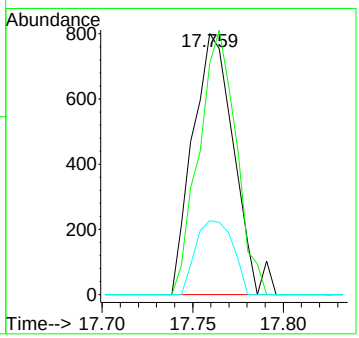


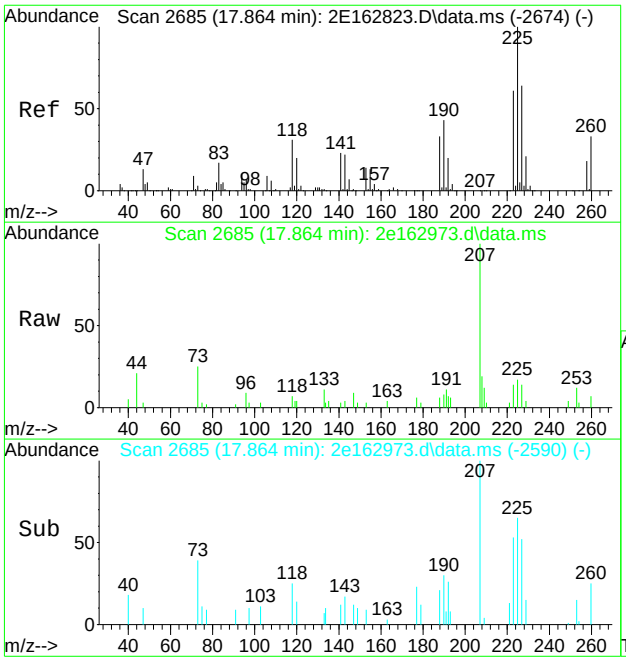


#117
1,2,4-trichlorobenzene
Concen: 0.33 ug/L
RT: 17.759 min Scan# 2665
Delta R.T. -0.001 min
Lab File: 2e162973.d
Acq: 20 Jul 2020 1:12 pm

Tgt Ion:180 Resp: 1261

Ion	Ratio	Lower	Upper
180	100		
182	88.5	65.7	125.7
184	28.3	0.0	59.9

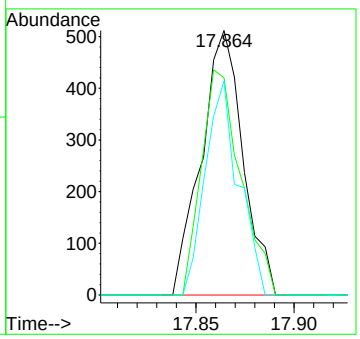


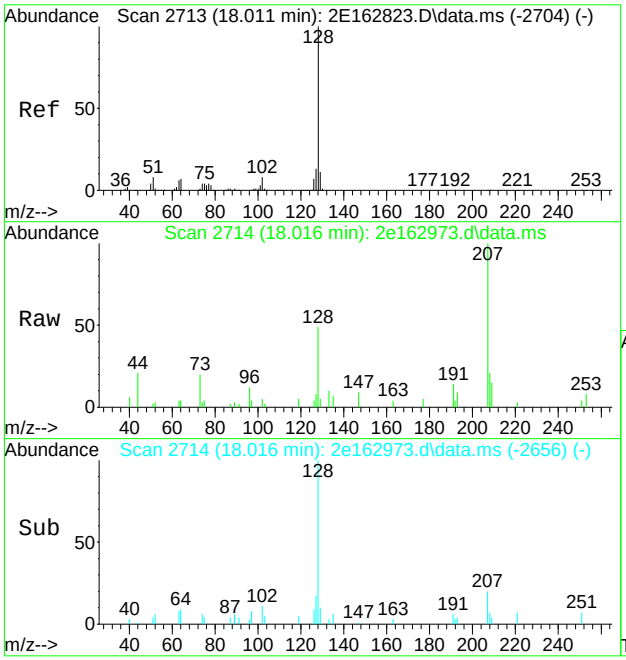


#119
hexachlorobutadiene
Concen: 0.37 ug/L
RT: 17.864 min Scan# 2685
Delta R.T. 0.000 min
Lab File: 2e162973.d
Acq: 20 Jul 2020 1:12 pm

Tgt Ion:225 Resp: 759

Ion	Ratio	Lower	Upper
225	100		
223	82.0	31.0	91.0
227	80.9	33.6	93.6

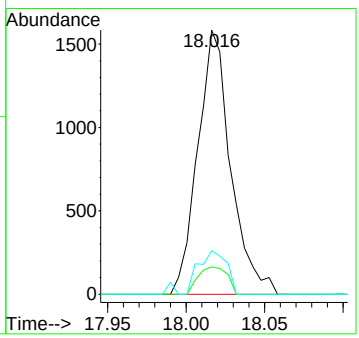


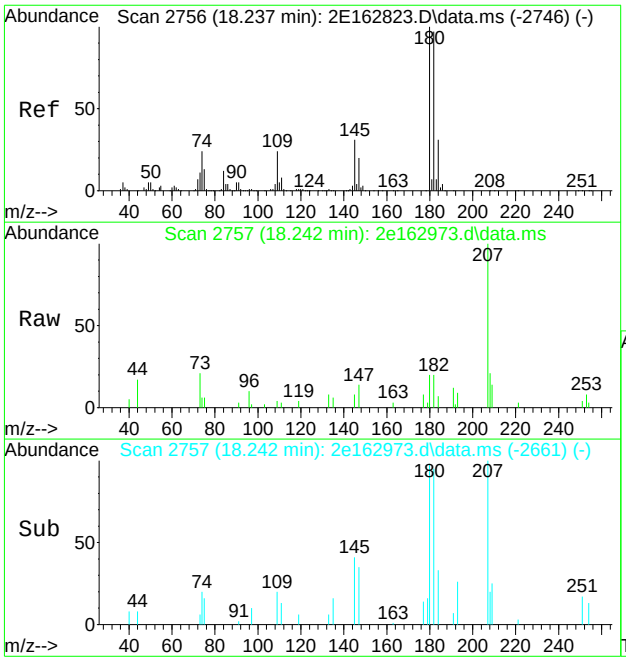


#120
naphthalene
Concen: 0.27 ug/L
RT: 18.016 min Scan# 2714
Delta R.T. 0.005 min
Lab File: 2e162973.d
Acq: 20 Jul 2020 1:12 pm

Tgt Ion:128 Resp: 2315

Ion	Ratio	Lower	Upper
128	100		
129	10.3	0.0	41.1
127	16.5	0.0	42.9

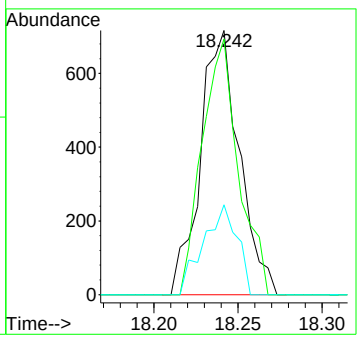


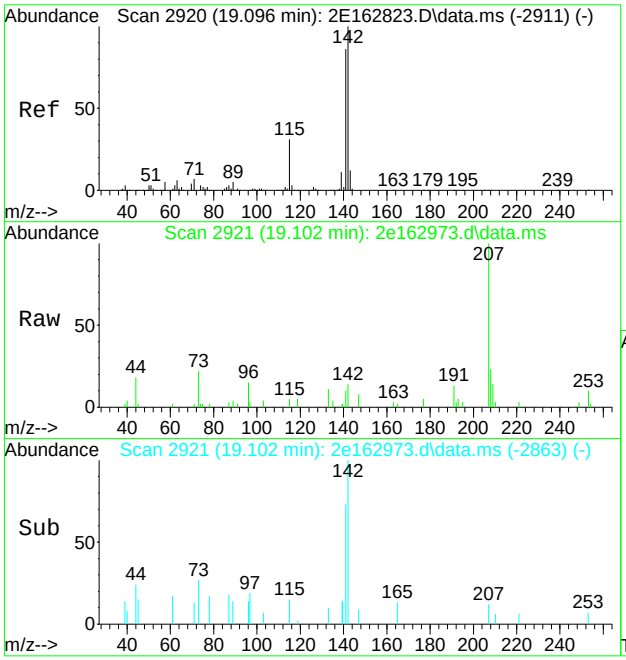


#121
1,2,3-trichlorobenzene
Concen: 0.33 ug/L
RT: 18.242 min Scan# 2757
Delta R.T. 0.005 min
Lab File: 2e162973.d
Acq: 20 Jul 2020 1:12 pm

Tgt Ion:180 Resp: 1156

Ion	Ratio	Lower	Upper
180	100		
182	96.8	67.1	127.1
184	34.0	1.4	61.4

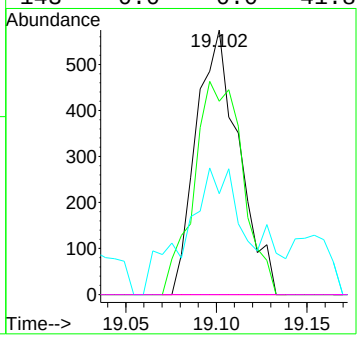




#124
2-methylnaphthalene
Concen: 0.24 ug/L
RT: 19.102 min Scan# 2921
Delta R.T. 0.006 min
Lab File: 2e162973.d
Acq: 20 Jul 2020 1:12 pm

Tgt Ion:142 Resp: 939

Ion	Ratio	Lower	Upper
142	100		
141	73.0	66.1	106.1
115	24.5	0.6	60.6
143	0.0	0.0	41.8



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\janellac\07-28-2020\v4d4597\
Data File : 4d103629.d
Acq On : 27 Jul 2020 10:33 am
Operator : krizhkac
Sample : mb Inst : MS4D
Misc : MS44703,V4D4597,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Results File: M4D4496.RES
Quant Time: Jul 27 22:09:16 2020
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 16:29:00 2020
Response via : Initial Calibration

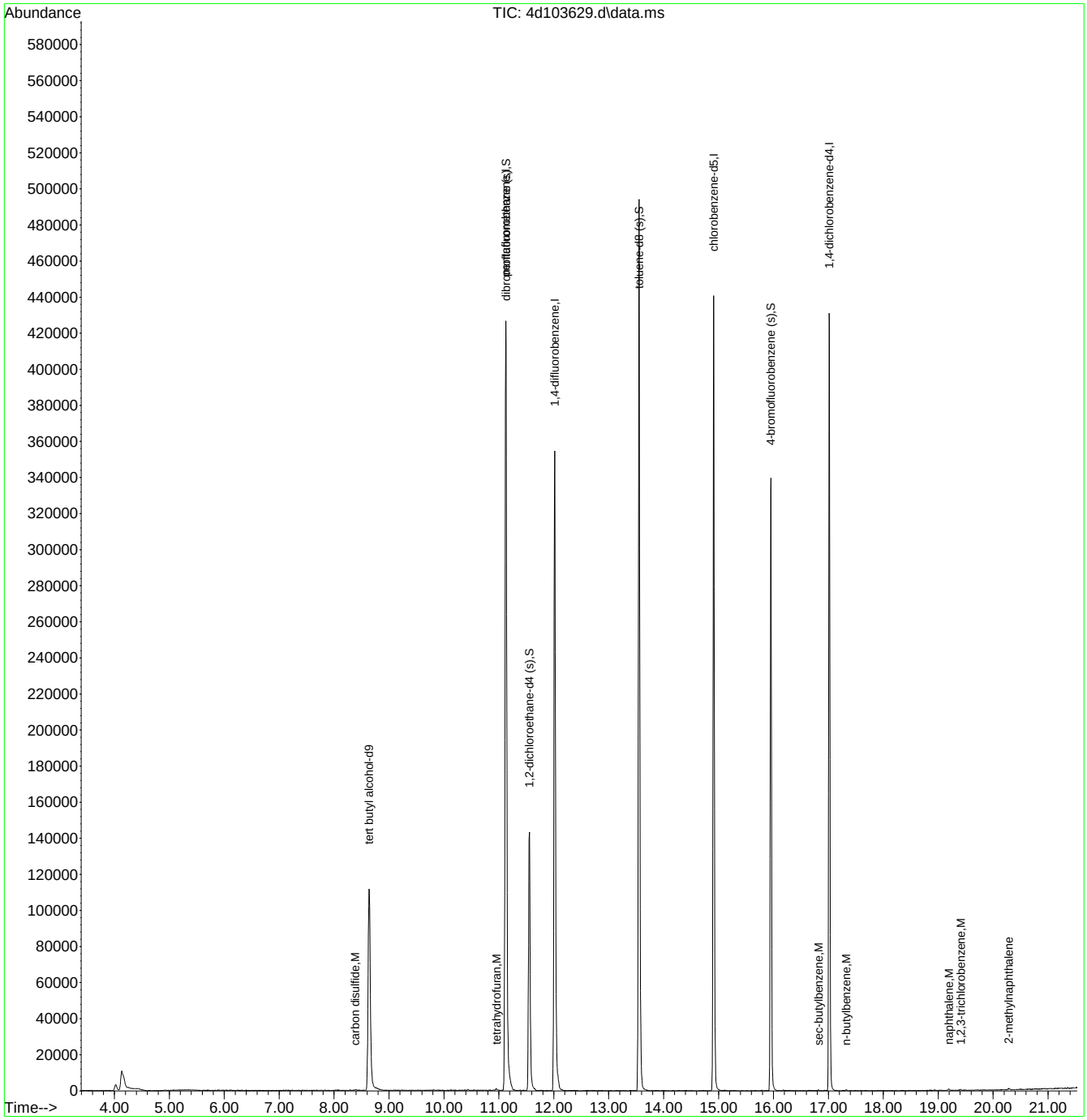
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	8.635	65	200864	500.00	ug/L	-0.01
5) pentafluorobenzene	11.126	168	239625	50.00	ug/L	0.00
51) 1,4-difluorobenzene	12.017	114	344778	50.00	ug/L	0.00
73) chlorobenzene-d5	14.911	117	259053	50.00	ug/L	0.00
96) 1,4-dichlorobenzene-d4	17.014	152	115082	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	11.131	113	116829	50.78	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 101.56%			
52) 1,2-dichloroethane-d4 (s)	11.556	65	107169	44.64	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 89.28%			
74) toluene-d8 (s)	13.553	98	349093	49.91	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.82%			
97) 4-bromofluorobenzene (s)	15.949	95	111849	48.17	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 96.34%			
Target Compounds						Qvalue
21) carbon disulfide	8.384	76	867	0.20	ug/L	71
40) tetrahydrofuran	10.958	72	213	0.52	ug/L #	9
108) sec-butylbenzene	16.820	105	628	0.12	ug/L	69
114) n-butylbenzene	17.323	92	318	0.16	ug/L #	66
120) naphthalene	19.195	128	1261	0.30	ug/L	70
121) 1,2,3-trichlorobenzene	19.410	180	198	0.15	ug/L	65
123) 2-methylnaphthalene	20.285	142	460	0.28	ug/L #	69

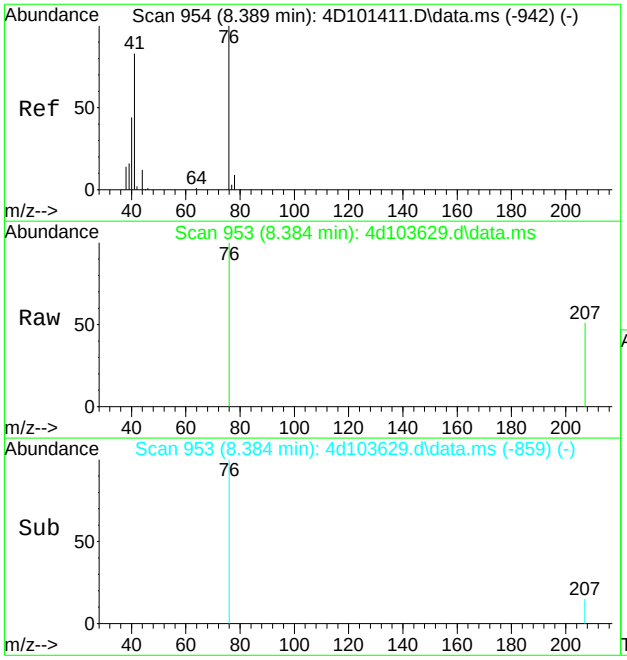
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\janellac\07-28-2020\v4d4597\
Data File : 4d103629.d
Acq On : 27 Jul 2020 10:33 am
Operator : krizhkac
Sample : mb Inst : MS4D
Misc : MS44703,V4D4597,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Results File: M4D4496.RES
Quant Time: Jul 27 22:09:16 2020
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 16:29:00 2020
Response via : Initial Calibration

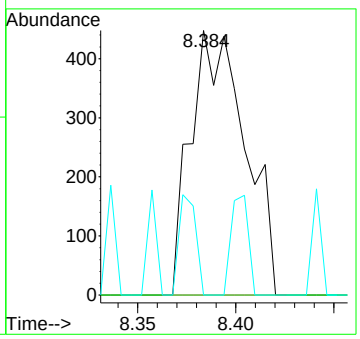


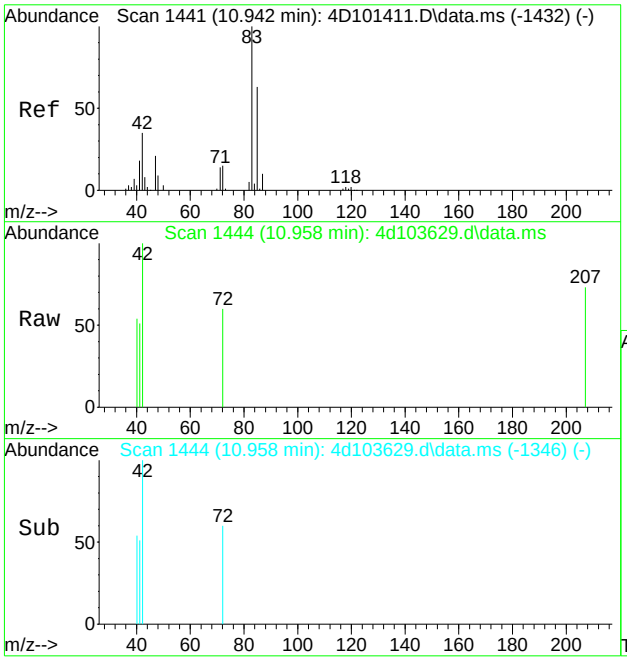


#21
carbon disulfide
Concen: 0.20 ug/L
RT: 8.384 min Scan# 953
Delta R.T. -0.005 min
Lab File: 4d103629.d
Acq: 27 Jul 2020 10:33 am

Tgt Ion: 76 Resp: 867

Ion	Ratio	Lower	Upper
76	100		
78	0.0	0.0	39.3
44	0.0	0.0	42.2

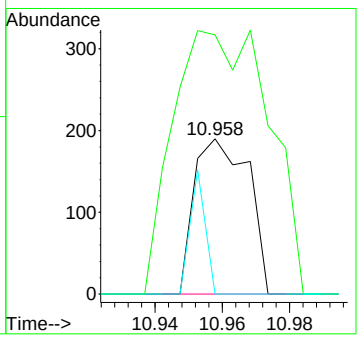


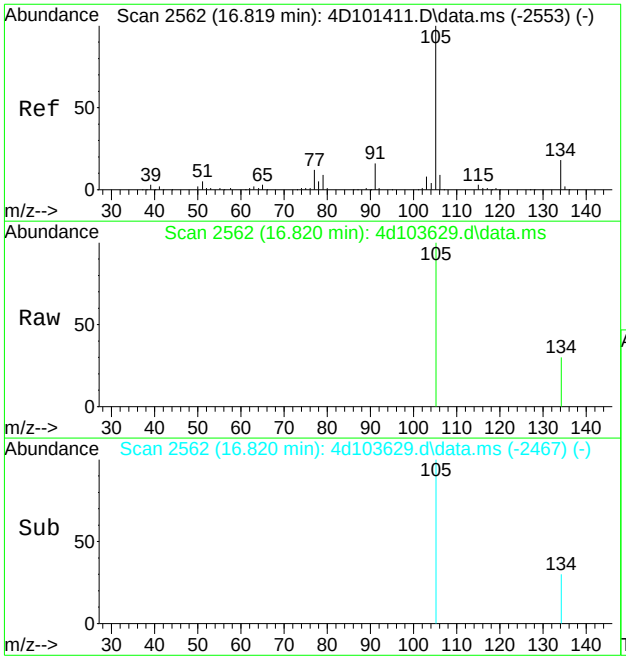


#40
tetrahydrofuran
Concen: 0.52 ug/L
RT: 10.958 min Scan# 1444
Delta R.T. 0.016 min
Lab File: 4d103629.d
Acq: 27 Jul 2020 10:33 am

Tgt Ion: 72 Resp: 213

Ion	Ratio	Lower	Upper
72	100		
42	85.8	203.2	263.2#
71	0.0	63.5	123.5#

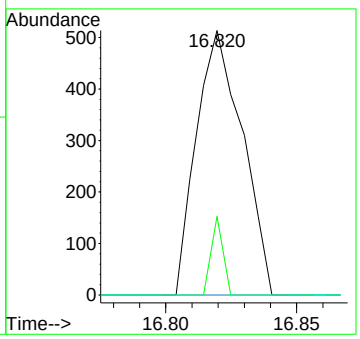


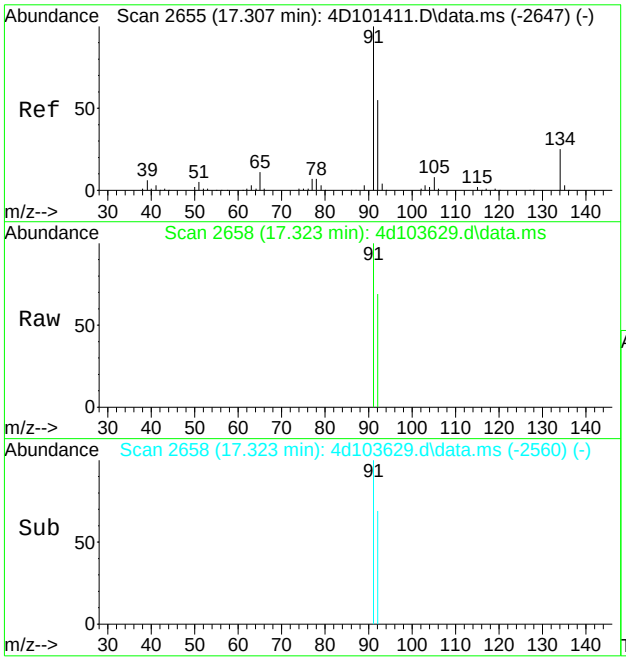


#108
sec-butylbenzene
Concen: 0.12 ug/L
RT: 16.820 min Scan# 2562
Delta R.T. 0.000 min
Lab File: 4d103629.d
Acq: 27 Jul 2020 10:33 am

Tgt Ion:105 Resp: 628

Ion	Ratio	Lower	Upper
105	100		
134	29.8	0.0	48.4
91	0.0	0.0	45.6

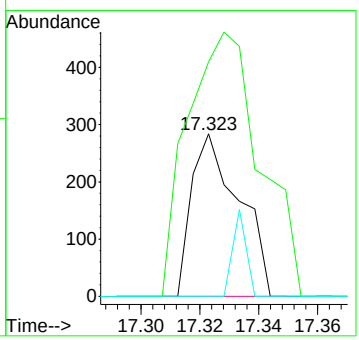


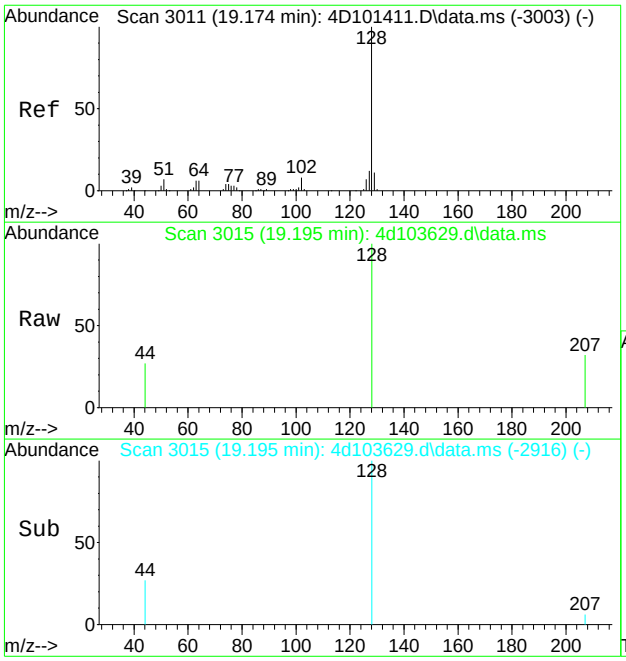


#114
n-butylbenzene
Concen: 0.16 ug/L
RT: 17.323 min Scan# 2658
Delta R.T. 0.016 min
Lab File: 4d103629.d
Acq: 27 Jul 2020 10:33 am

Tgt Ion: 92 Resp: 318

Ion	Ratio	Lower	Upper
92	100		
91	144.4	151.0	211.0#
134	0.0	15.2	75.2#

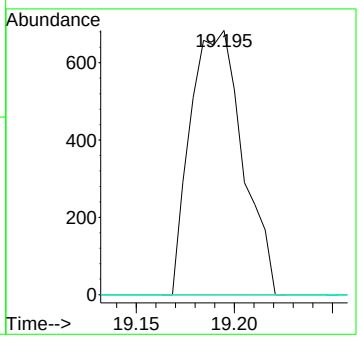


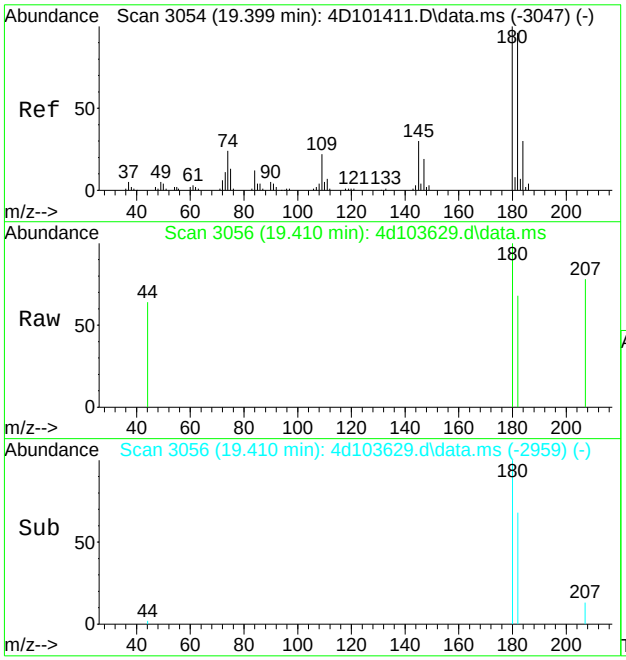


#120
naphthalene
Concen: 0.30 ug/L
RT: 19.195 min Scan# 3015
Delta R.T. 0.021 min
Lab File: 4d103629.d
Acq: 27 Jul 2020 10:33 am

Tgt Ion:128 Resp: 1261

Ion	Ratio	Lower	Upper
128	100		
127	0.0	0.0	42.4
129	0.0	0.0	40.8

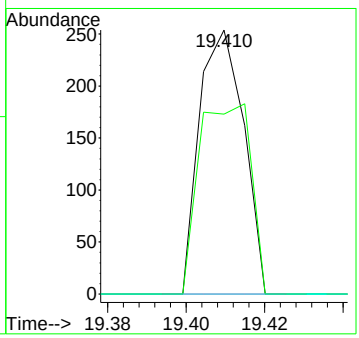


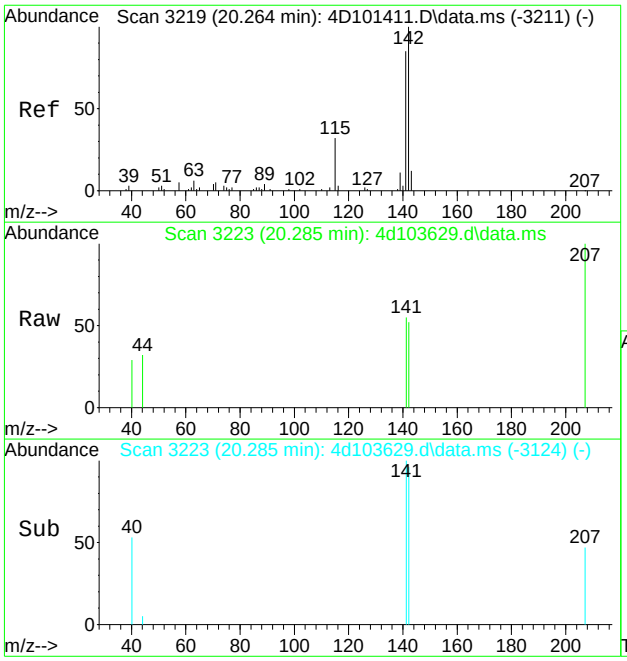


#121
1,2,3-trichlorobenzene
Concen: 0.15 ug/L
RT: 19.410 min Scan# 3056
Delta R.T. 0.011 min
Lab File: 4d103629.d
Acq: 27 Jul 2020 10:33 am

Tgt Ion:180 Resp: 198

Ion	Ratio	Lower	Upper
180	100		
182	68.1	66.4	126.4
145	0.0	0.0	59.7

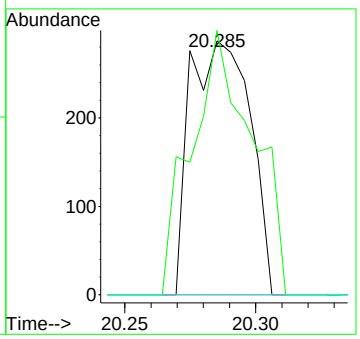




#123
2-methylnaphthalene
Concen: 0.28 ug/L
RT: 20.285 min Scan# 3223
Delta R.T. 0.021 min
Lab File: 4d103629.d
Acq: 27 Jul 2020 10:33 am

Tgt Ion:142 Resp: 460

Ion	Ratio	Lower	Upper
142	100		
141	104.2	65.0	105.0
115	0.0	11.8	51.8#



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\July-2020\7-21\v2e8165-rush\
Data File : 2e162970.d
Acq On : 20 Jul 2020 11:42 am
Operator : krizhkac
Sample : bs Inst : VOAMS2E
Misc : MS44525,V2E8165,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 20 12:22:14 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Jul 16 11:01:59 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	7.300	65	131659	500.00	ug/L		0.00
5) pentafluorobenzene	9.528	168	233528	50.00	ug/L		0.00
53) 1,4-difluorobenzene	10.445	114	354036	50.00	ug/L		0.00
74) chlorobenzene-d5	13.581	117	288902	50.00	ug/L		0.00
97) 1,4-dichlorobenzene-d4	15.882	152	149914	50.00	ug/L		0.00
127) pentafluorobenzene(a)	9.528	168	233528	50.00	ug/L		0.00
130) 1,4-dichlorobenzene-d4(a)	15.882	152	149914	50.00	ug/L		0.00
System Monitoring Compounds							
47) dibromofluoromethane (s)	9.575	113	119203	51.17	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 102.34%				
54) 1,2-dichloroethane-d4 (s)	9.994	65	133522	49.74	ug/L		0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 99.48%				
75) toluene-d8 (s)	12.081	98	453664	49.54	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.08%				
98) 4-bromofluorobenzene (s)	14.729	95	164866	48.69	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 97.38%				
Target Compounds							Qvalue
2) ethanol	6.052	45	163350	4341.06	ug/L		97
3) tertiary butyl alcohol	7.420	59	88179	203.69	ug/L		98
4) 1,4-dioxane	11.164	88	36246	1220.10	ug/L		97
6) chlorodifluoromethane	3.996	51	196558	40.37	ug/L		100
7) dichlorodifluoromethane	3.975	85	212809	42.22	ug/L		99
8) chloromethane	4.374	50	225181	40.88	ug/L		99
9) vinyl chloride	4.610	62	208825	42.61	ug/L		99
10) bromomethane	5.229	94	123088	42.87	ug/L		100
11) chloroethane	5.375	64	113680	40.65	ug/L		99
12) trichlorofluoromethane	5.831	101	213129	43.76	ug/L		98
13) 1,3-butadiene	4.631	54	145378	39.59	ug/L		99
14) vinyl bromide	5.727	106	75857	39.68	ug/L		98
15) ethyl ether	6.214	74	80926	45.26	ug/L		98
16) acrolein	6.466	56	25330	43.49	ug/L		92
17) freon 113	6.602	151	100661	43.61	ug/L		97
18) 1,1-dichloroethene	6.639	61	207375	44.28	ug/L		99
19) acetone	6.676	43	148886	191.83	ug/L		98
20) acetonitrile	7.106	41	148998	358.43	ug/L		99
21) iodomethane	6.917	142	224687	46.64	ug/L		98
22) carbon disulfide	7.048	76	366083	43.67	ug/L		99
23) methylene chloride	7.341	84	150411	45.65	ug/L		96
24) methyl acetate	7.142	43	111208	47.03	ug/L		97
25) methyl tert butyl ether	7.672	73	393946	47.16	ug/L		99
26) trans-1,2-dichloroethene	7.719	61	205334	45.04	ug/L		98
27) hexane	8.013	56	110479	45.32	ug/L		100
28) di-isopropyl ether	8.259	45	514279	46.93	ug/L		97
29) ethyl tert-butyl ether	8.726	59	476772	46.74	ug/L		100
30) 2-butanone	8.972	72	60598	213.83	ug/L		98
31) 1,1-dichloroethane	8.280	63	259069	45.20	ug/L		99
32) chloroprene	8.385	53	205795	46.60	ug/L		99
33) acrylonitrile	7.667	53	56114	50.30	ug/L		98
34) vinyl acetate	8.264	86	31771	54.79	ug/L	#	80
35) ethyl acetate	8.998	45	23244	51.88	ug/L		95
36) 2,2-dichloropropane	9.014	77	185454	42.32	ug/L		99
37) cis-1,2-dichloroethene	9.009	96	150276	45.47	ug/L		97
38) propionitrile	9.066	54	202366	494.13	ug/L		98
39) methyl acrylate	9.077	85	19346	53.36	ug/L	#	81

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\July-2020\7-21\v2e8165-rush\
Data File : 2e162970.d
Acq On : 20 Jul 2020 11:42 am
Operator : krizhkac
Sample : bs Inst : VOAMS2E
Misc : MS44525,V2E8165,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 20 12:22:14 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Jul 16 11:01:59 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
40) bromochloromethane	9.323	128	70883	47.08	ug/L		96
41) tetrahydrofuran	9.365	72	17670	49.29	ug/L		91
42) chloroform	9.376	83	234526	44.02	ug/L		99
43) t-butyl formate	9.412	59	109722	45.21	ug/L		98
44) 1,1-dichloropropene	9.811	75	189274	45.31	ug/L		98
45) carbon tetrachloride	9.837	117	173624	45.79	ug/L		99
46) isopropyl acetate	9.989	87	32116	51.46	ug/L	#	86
48) methacrylonitrile	9.255	67	55266	51.48	ug/L		99
49) 1,1,1-trichloroethane	9.633	97	203680	45.89	ug/L		99
50) cyclohexane	9.706	84	222351	45.63	ug/L		95
51) iso-butyl alcohol	9.816	43	62469	515.43	ug/L		99
52) tert amyl alcohol	9.942	73	37729	261.28	ug/L		98
55) 2,2,4-trimethylpentane	10.073	57	519012	44.91	ug/L		99
56) n-butyl alcohol	10.566	56	222226	2945.35	ug/L		97
57) benzene	10.073	78	563889	43.95	ug/L		99
58) tert-amyl methyl ether	10.105	73	452328	46.18	ug/L		99
59) heptane	10.241	57	105074	46.97	ug/L		99
60) 1,2-dichloroethane	10.084	62	176279	44.75	ug/L		100
61) ethyl acrylate	10.786	55	169365	50.32	ug/L		98
62) trichloroethene	10.786	95	134684	45.83	ug/L		98
63) 2-nitropropane	11.552	41	42779	47.51	ug/L		97
64) 2-chloroethyl vinyl ether	11.573	63	415333	263.76	ug/L		99
65) methyl methacrylate	11.054	100	35099	52.20	ug/L		96
66) 1,2-dichloropropane	11.048	63	151744	45.59	ug/L		100
67) methylcyclohexane	11.006	83	258452	44.37	ug/L		99
68) dibromomethane	11.206	93	80528	47.26	ug/L		95
69) bromodichloromethane	11.337	83	175672	45.47	ug/L		99
70) epichlorohydrin	11.693	57	68255	249.10	ug/L		99
71) cis-1,3-dichloropropene	11.793	75	229989	47.23	ug/L		100
72) 4-methyl-2-pentanone	11.882	58	211657	202.69	ug/L		100
73) 3-methyl-1-butanol	11.903	70	82507	1154.05	ug/L		95
76) toluene	12.155	92	327841	45.78	ug/L		99
77) ethyl methacrylate	12.343	69	169215	50.98	ug/L		99
78) trans-1,3-dichloropropene	12.349	75	194489	47.89	ug/L		97
79) 1,1,2-trichloroethane	12.564	83	97020	46.56	ug/L		99
80) tetrachloroethene	12.737	164	105666	45.18	ug/L		96
81) 2-hexanone	12.731	58	192582	210.07	ug/L		99
82) 1,3-dichloropropane	12.742	76	196819	45.93	ug/L		99
83) butyl acetate	12.805	56	93373	51.10	ug/L		98
84) dibromochloromethane	13.009	129	123499	47.45	ug/L		98
85) 1,2-dibromoethane	13.156	107	150589	48.25	ug/L		99
86) n-butyl ether	13.528	57	604285	47.61	ug/L		99
87) chlorobenzene	13.612	112	344394	45.75	ug/L		99
88) 1,1,1,2-tetrachloroethane	13.675	131	123417	47.62	ug/L		98
89) ethylbenzene	13.670	91	592121	46.23	ug/L		99
90) m,p-xylene	13.775	106	453791	93.92	ug/L		99
91) o-xylene	14.189	91	478760	46.67	ug/L		100
92) styrene	14.199	104	372294	50.05	ug/L		98
93) butyl acrylate	14.016	55	258347	50.97	ug/L		99
94) bromoform	14.462	173	78969	51.52	ug/L		99
95) isopropylbenzene	14.530	105	572502	47.17	ug/L		99
96) cis-1,4-dichloro-2-butene	14.598	75	50767	50.60	ug/L		97
99) bromobenzene	14.923	156	143166	44.78	ug/L		91
100) 1,1,2,2-tetrachloroethane	14.829	83	143719	45.55	ug/L		97
101) trans-1,4-dichloro-2-b...	14.870	53	39084	49.00	ug/L		96
102) 1,2,3-trichloropropane	14.902	110	39121	46.94	ug/L		98
103) n-propylbenzene	14.933	91	671104	45.24	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\July-2020\7-21\v2e8165-rush\
Data File : 2e162970.d
Acq On : 20 Jul 2020 11:42 am
Operator : krizhkac
Sample : bs Inst : VOAMS2E
Misc : MS44525,V2E8165,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 20 12:22:14 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Jul 16 11:01:59 2020
Response via : Initial Calibration

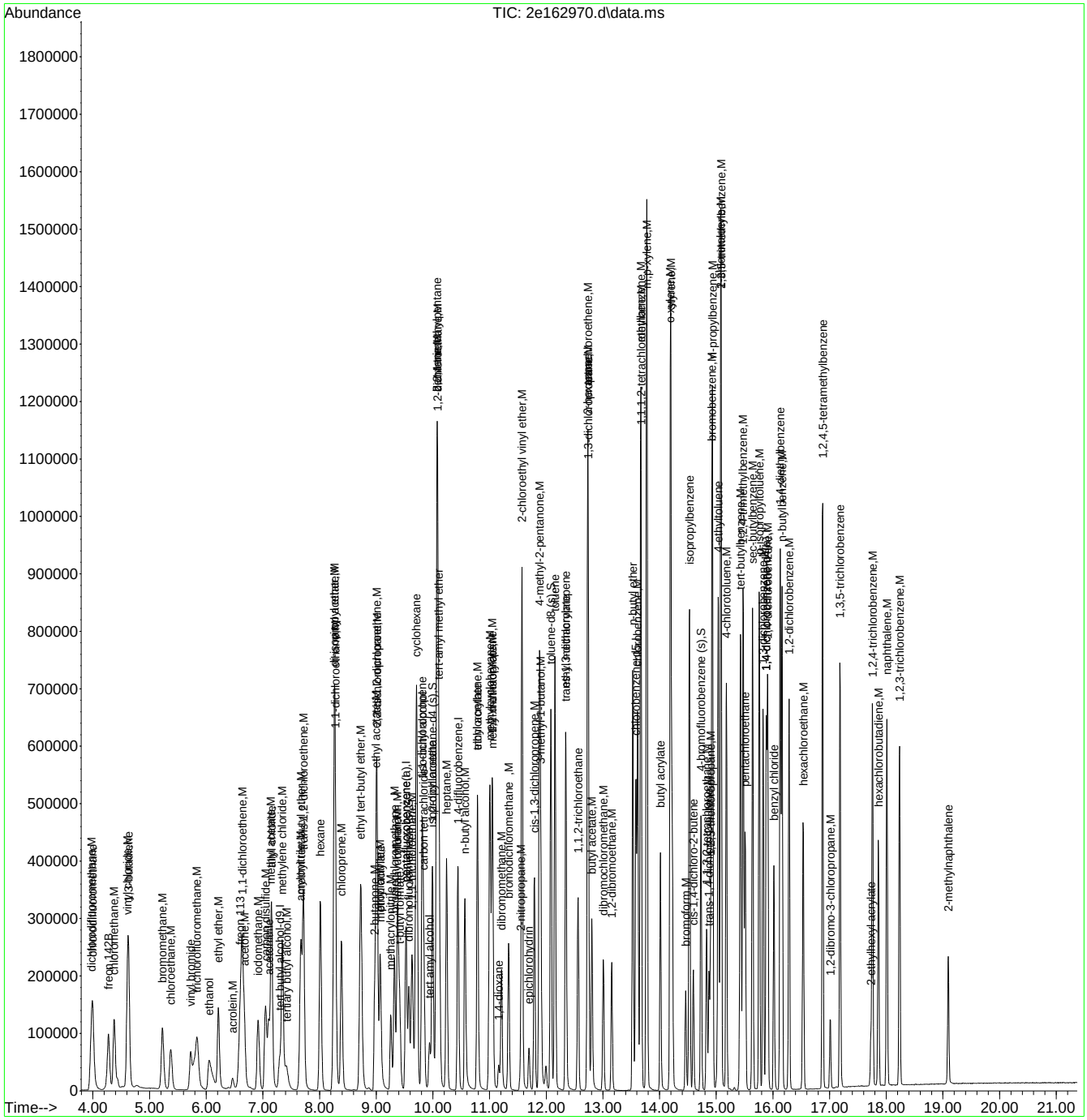
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 2-chlorotoluene	15.080	126	135259	45.10	ug/L	97
105) 4-chlorotoluene	15.180	91	404576	44.35	ug/L	98
106) 1,3,5-trimethylbenzene	15.085	105	475326	45.66	ug/L	99
107) tert-butylbenzene	15.426	119	414835	45.41	ug/L	99
108) 1,2,4-trimethylbenzene	15.473	105	483172	47.14	ug/L	99
109) sec-butylbenzene	15.641	105	588287	45.38	ug/L	100
110) 1,3-dichlorobenzene	15.825	146	262429	45.48	ug/L	98
111) p-isopropyltoluene	15.762	119	500197	46.76	ug/L	99
112) 1,4-dichlorobenzene	15.909	146	269006	45.35	ug/L	99
113) 1,2-dichlorobenzene	16.286	146	262307	46.03	ug/L	98
114) n-butylbenzene	16.160	92	259269	48.75	ug/L	99
115) 1,2-dibromo-3-chloropr...	17.015	157	31604	51.14	ug/L	97
116) 1,3,5-trichlorobenzene	17.183	180	221810	47.25	ug/L	98
117) 1,2,4-trichlorobenzene	17.759	180	198752	52.63	ug/L	98
118) 2-ethylhexyl acrylate	17.728	70	22454	9.09	ug/L	90
119) hexachlorobutadiene	17.864	225	91731	44.47	ug/L	99
120) naphthalene	18.011	128	462662	54.70	ug/L	99
121) 1,2,3-trichlorobenzene	18.237	180	182873	52.20	ug/L	99
122) hexachloroethane	16.538	201	82772	47.82	ug/L	99
123) benzyl chloride	16.019	91	263553	51.04	ug/L	99
124) 2-methylnaphthalene	19.096	142	111464	28.74	ug/L	99
128) freon 142B	4.274	65	162739	50.58	ug/L	98
129) allyl chloride	7.158	76	84866	51.51	ug/L	96
131) 4-ethyltoluene	15.033	105	556520	50.38	ug/L	98
132) pentachloroethane	15.510	167	91560	51.36	ug/L	96
133) 1,4-diethylbenzene	16.129	119	314050	53.35	ug/L	99
134) 1,2,4,5-tetramethylben...	16.879	119	516550	52.63	ug/L	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\July-2020\7-21\v2e8165-rush\
Data File : 2e162970.d
Acq On : 20 Jul 2020 11:42 am
Operator : krizhkac
Sample : bs Inst : VOAMS2E
Misc : MS44525,V2E8165,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 20 12:22:14 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Jul 16 11:01:59 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\July-2020\7-21\v2e8165-rush\
Data File : 2e162971.d
Acq On : 20 Jul 2020 12:12 pm
Operator : krizhkac
Sample : bsd Inst : VOAMS2E
Misc : MS44525,V2E8165,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 20 12:36:01 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Jul 16 11:01:59 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	7.305	65	132835	500.00	ug/L		0.00
5) pentafluorobenzene	9.528	168	241296	50.00	ug/L		0.00
53) 1,4-difluorobenzene	10.445	114	362101	50.00	ug/L		0.00
74) chlorobenzene-d5	13.586	117	292629	50.00	ug/L		0.00
97) 1,4-dichlorobenzene-d4	15.882	152	148877	50.00	ug/L		0.00
127) pentafluorobenzene(a)	9.528	168	241296	50.00	ug/L		0.00
130) 1,4-dichlorobenzene-d4(a)	15.882	152	148877	50.00	ug/L		0.00
System Monitoring Compounds							
47) dibromofluoromethane (s)	9.575	113	122589	50.93	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 101.86%				
54) 1,2-dichloroethane-d4 (s)	9.995	65	136498	49.72	ug/L		0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 99.44%				
75) toluene-d8 (s)	12.081	98	461007	49.70	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.40%				
98) 4-bromofluorobenzene (s)	14.729	95	165093	49.10	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 98.20%				
Target Compounds							Qvalue
2) ethanol	6.062	45	164500	4332.92	ug/L		98
3) tertiary butyl alcohol	7.415	59	90776	207.83	ug/L		96
4) 1,4-dioxane	11.164	88	35610	1188.08	ug/L		99
6) chlorodifluoromethane	4.002	51	195898	38.94	ug/L		99
7) dichlorodifluoromethane	3.981	85	210320	40.38	ug/L		97
8) chloromethane	4.385	50	228081	40.08	ug/L		99
9) vinyl chloride	4.615	62	209913	41.45	ug/L		100
10) bromomethane	5.239	94	123295	41.56	ug/L		98
11) chloroethane	5.381	64	115104	39.83	ug/L		97
12) trichlorofluoromethane	5.842	101	214137	42.55	ug/L		99
13) 1,3-butadiene	4.631	54	146658	38.65	ug/L		97
14) vinyl bromide	5.732	106	77257	39.11	ug/L		98
15) ethyl ether	6.220	74	83574	45.24	ug/L		98
16) acrolein	6.471	56	25449	42.29	ug/L		92
17) freon 113	6.613	151	102829	43.11	ug/L		98
18) 1,1-dichloroethene	6.639	61	207740	42.93	ug/L		99
19) acetone	6.681	43	150365	187.50	ug/L		99
20) acetonitrile	7.111	41	158882	369.91	ug/L		98
21) iodomethane	6.922	142	231281	46.46	ug/L		98
22) carbon disulfide	7.048	76	367185	42.39	ug/L		99
23) methylene chloride	7.347	84	152951	44.92	ug/L		93
24) methyl acetate	7.142	43	113757	46.55	ug/L		99
25) methyl tert butyl ether	7.682	73	401258	46.49	ug/L		99
26) trans-1,2-dichloroethene	7.719	61	209833	44.54	ug/L		99
27) hexane	8.018	56	110852	44.01	ug/L		100
28) di-isopropyl ether	8.264	45	527436	46.59	ug/L		97
29) ethyl tert-butyl ether	8.731	59	488659	46.36	ug/L		99
30) 2-butanone	8.977	72	62254	212.60	ug/L		98
31) 1,1-dichloroethane	8.280	63	262246	44.28	ug/L		99
32) chloroprene	8.390	53	208813	45.76	ug/L		100
33) acrylonitrile	7.667	53	56462	48.98	ug/L		99
34) vinyl acetate	8.270	86	30074	50.20	ug/L	#	85
35) ethyl acetate	8.998	45	21831	47.15	ug/L	#	56
36) 2,2-dichloropropane	9.014	77	183645	40.56	ug/L		98
37) cis-1,2-dichloroethene	9.014	96	152866	44.76	ug/L		97
38) propionitrile	9.072	54	205902	486.58	ug/L		92
39) methyl acrylate	9.082	85	19900	53.12	ug/L	#	85

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\July-2020\7-21\v2e8165-rush\
Data File : 2e162971.d
Acq On : 20 Jul 2020 12:12 pm
Operator : krizhkac
Sample : bsd Inst : VOAMS2E
Misc : MS44525,V2E8165,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 20 12:36:01 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Jul 16 11:01:59 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
40) bromochloromethane	9.323	128	72102	46.35	ug/L		98
41) tetrahydrofuran	9.371	72	17999	48.60	ug/L		97
42) chloroform	9.381	83	237576	43.15	ug/L		99
43) t-butyl formate	9.413	59	111810	44.59	ug/L		98
44) 1,1-dichloropropene	9.811	75	190481	44.13	ug/L		97
45) carbon tetrachloride	9.843	117	174978	44.66	ug/L		97
46) isopropyl acetate	9.995	87	33016	51.20	ug/L		99
48) methacrylonitrile	9.261	67	57270	51.63	ug/L		96
49) 1,1,1-trichloroethane	9.633	97	204437	44.58	ug/L		99
50) cyclohexane	9.711	84	223916	44.47	ug/L	#	88
51) iso-butyl alcohol	9.816	43	64440	514.57	ug/L		96
52) tert amyl alcohol	9.942	73	38678	259.22	ug/L		95
55) 2,2,4-trimethylpentane	10.073	57	517414	43.78	ug/L		99
56) n-butyl alcohol	10.566	56	225766	2925.63	ug/L		99
57) benzene	10.073	78	567530	43.25	ug/L		99
58) tert-amyl methyl ether	10.110	73	461100	46.02	ug/L		98
59) heptane	10.246	57	105004	45.90	ug/L		98
60) 1,2-dichloroethane	10.084	62	178482	44.30	ug/L		97
61) ethyl acrylate	10.786	55	170569	49.55	ug/L		98
62) trichloroethene	10.786	95	135321	45.02	ug/L		98
63) 2-nitropropane	11.552	41	43766	47.52	ug/L	#	80
64) 2-chloroethyl vinyl ether	11.573	63	416643	258.70	ug/L		100
65) methyl methacrylate	11.054	100	34526	50.21	ug/L		98
66) 1,2-dichloropropane	11.048	63	153722	45.15	ug/L		99
67) methylcyclohexane	11.006	83	259880	43.62	ug/L		100
68) dibromomethane	11.211	93	80505	46.20	ug/L		98
69) bromodichloromethane	11.337	83	179090	45.32	ug/L		100
70) epichlorohydrin	11.699	57	68314	243.77	ug/L		95
71) cis-1,3-dichloropropene	11.793	75	231620	46.50	ug/L		100
72) 4-methyl-2-pentanone	11.882	58	217268	203.42	ug/L		97
73) 3-methyl-1-butanol	11.903	70	83855	1146.78	ug/L		97
76) toluene	12.155	92	330438	45.55	ug/L		99
77) ethyl methacrylate	12.343	69	171436	50.99	ug/L		99
78) trans-1,3-dichloropropene	12.349	75	197195	47.94	ug/L		98
79) 1,1,2-trichloroethane	12.564	83	97743	46.31	ug/L		99
80) tetrachloroethene	12.742	164	105585	44.57	ug/L		98
81) 2-hexanone	12.731	58	195282	210.30	ug/L		100
82) 1,3-dichloropropane	12.742	76	198663	45.77	ug/L		100
83) butyl acetate	12.805	56	93302	50.41	ug/L		99
84) dibromochloromethane	13.009	129	125274	47.52	ug/L		98
85) 1,2-dibromoethane	13.156	107	151386	47.88	ug/L		97
86) n-butyl ether	13.528	57	599889	46.66	ug/L		99
87) chlorobenzene	13.612	112	347250	45.54	ug/L		98
88) 1,1,1,2-tetrachloroethane	13.675	131	124969	47.61	ug/L		97
89) ethylbenzene	13.670	91	593813	45.77	ug/L		99
90) m,p-xylene	13.775	106	453422	92.64	ug/L		100
91) o-xylene	14.189	91	479173	46.11	ug/L		99
92) styrene	14.199	104	373655	49.59	ug/L		100
93) butyl acrylate	14.016	55	258702	50.39	ug/L		99
94) bromoform	14.462	173	79062	50.92	ug/L		99
95) isopropylbenzene	14.525	105	573418	46.64	ug/L		99
96) cis-1,4-dichloro-2-butene	14.598	75	49387	48.59	ug/L		97
99) bromobenzene	14.923	156	142682	44.94	ug/L		92
100) 1,1,2,2-tetrachloroethane	14.829	83	143611	45.84	ug/L		97
101) trans-1,4-dichloro-2-b...	14.871	53	38677	48.83	ug/L		97
102) 1,2,3-trichloropropane	14.902	110	39650	47.91	ug/L		98
103) n-propylbenzene	14.934	91	665614	45.18	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\July-2020\7-21\v2e8165-rush\
Data File : 2e162971.d
Acq On : 20 Jul 2020 12:12 pm
Operator : krizhkac
Sample : bsd Inst : VOAMS2E
Misc : MS44525,V2E8165,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 20 12:36:01 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Jul 16 11:01:59 2020
Response via : Initial Calibration

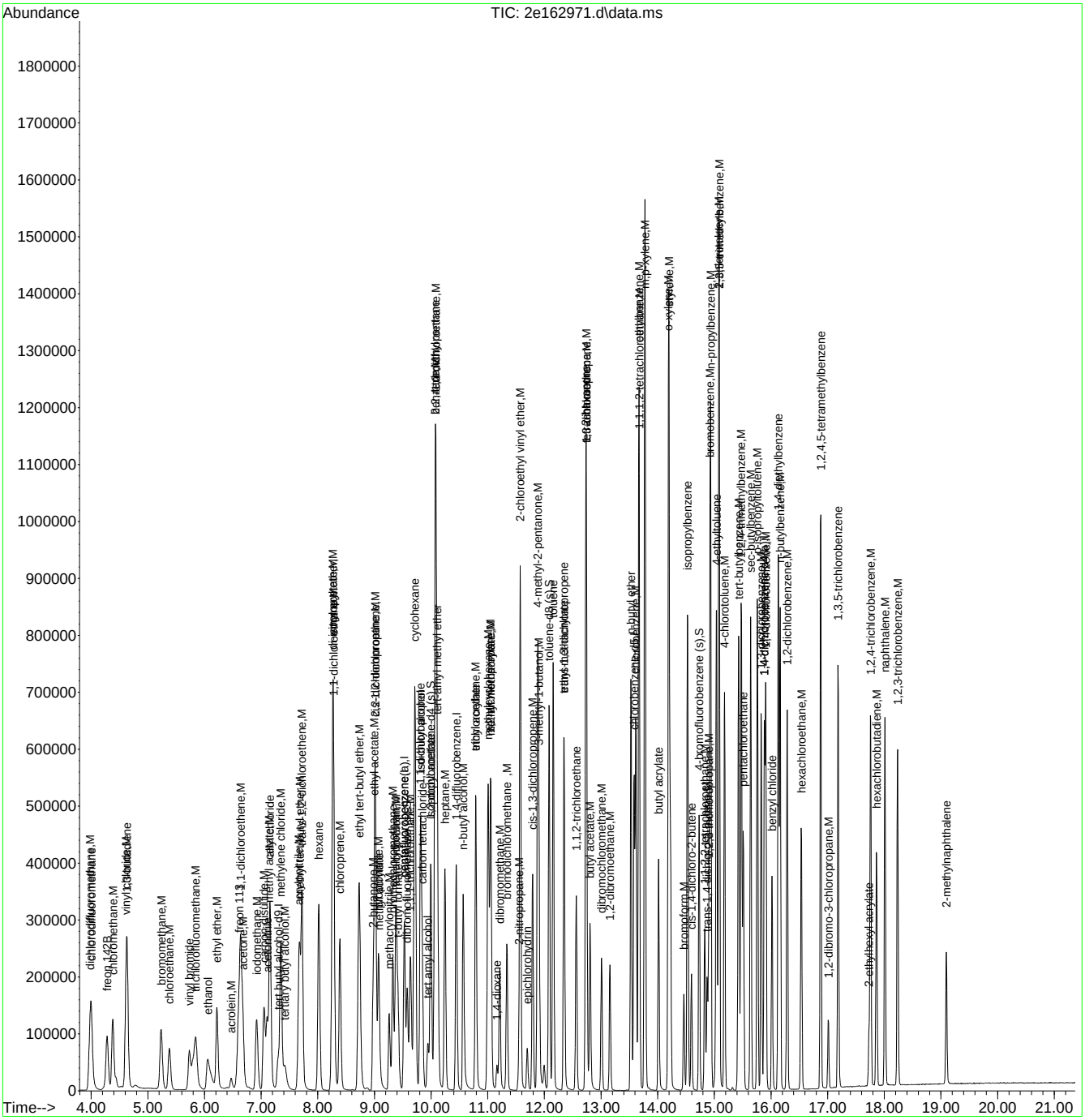
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 2-chlorotoluene	15.080	126	135884	45.63	ug/L	99
105) 4-chlorotoluene	15.180	91	401469	44.32	ug/L	99
106) 1,3,5-trimethylbenzene	15.086	105	476853	46.12	ug/L	99
107) tert-butylbenzene	15.432	119	413723	45.60	ug/L	97
108) 1,2,4-trimethylbenzene	15.474	105	474619	46.62	ug/L	99
109) sec-butylbenzene	15.641	105	585250	45.46	ug/L	100
110) 1,3-dichlorobenzene	15.825	146	260971	45.55	ug/L	99
111) p-isopropyltoluene	15.757	119	498002	46.88	ug/L	99
112) 1,4-dichlorobenzene	15.909	146	266715	45.28	ug/L	99
113) 1,2-dichlorobenzene	16.286	146	257755	45.55	ug/L	99
114) n-butylbenzene	16.160	92	255148	48.31	ug/L	98
115) 1,2-dibromo-3-chloropr...	17.015	157	31413	51.19	ug/L	97
116) 1,3,5-trichlorobenzene	17.183	180	219508	47.08	ug/L	97
117) 1,2,4-trichlorobenzene	17.759	180	196483	52.39	ug/L	99
118) 2-ethylhexyl acrylate	17.728	70	22401	9.13	ug/L	96
119) hexachlorobutadiene	17.864	225	91840	44.83	ug/L	99
120) naphthalene	18.011	128	458605	54.59	ug/L	100
121) 1,2,3-trichlorobenzene	18.237	180	184999	53.17	ug/L	100
122) hexachloroethane	16.538	201	82806	48.17	ug/L	98
123) benzyl chloride	16.019	91	256658	50.06	ug/L	98
124) 2-methylnaphthalene	19.096	142	113159	29.38	ug/L	98
128) freon 142B	4.280	65	163985	49.33	ug/L	99
129) allyl chloride	7.158	76	87074	51.14	ug/L	91
131) 4-ethyltoluene	15.038	105	556439	50.72	ug/L	100
132) pentachloroethane	15.510	167	92481	52.24	ug/L	96
133) 1,4-diethylbenzene	16.129	119	310796	53.17	ug/L	100
134) 1,2,4,5-tetramethylben...	16.879	119	517831	53.13	ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\July-2020\7-21\v2e8165-rush\
Data File : 2e162971.d
Acq On : 20 Jul 2020 12:12 pm
Operator : krizhkac
Sample : bsd Inst : VOAMS2E
Misc : MS44525,V2E8165,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 20 12:36:01 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Jul 16 11:01:59 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\janellac\07-28-2020\v4d4597\
Data File : 4d103627.d
Acq On : 27 Jul 2020 9:35 am
Operator : krizhkac
Sample : bs Inst : MS4D
Misc : MS44684,V4D4597,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Results File: M4D4496.RES
Quant Time: Jul 27 22:08:16 2020
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 16:29:00 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	8.640	65	192039	500.00	ug/L	0.00
5) pentafluorobenzene	11.126	168	228869	50.00	ug/L	0.00
51) 1,4-difluorobenzene	12.017	114	324490	50.00	ug/L	0.00
73) chlorobenzene-d5	14.911	117	251323	50.00	ug/L	0.00
96) 1,4-dichlorobenzene-d4	17.019	152	115580	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	11.131	113	110637	50.35	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.70%			
52) 1,2-dichloroethane-d4 (s)	11.555	65	100644	44.54	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 89.08%			
74) toluene-d8 (s)	13.553	98	332236	48.97	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 97.94%			
97) 4-bromofluorobenzene (s)	15.949	95	109453	46.94	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 93.88%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	8.771	59	112819	260.70	ug/L	97
3) ethanol	7.178	45	240118	5370.95	ug/L	99
4) 1,4-dioxane	12.672	88	50661	1430.39	ug/L	95
7) dichlorodifluoromethane	4.603	85	94302	48.83	ug/L	99
8) chloromethane	5.117	50	74750	39.39	ug/L	96
9) vinyl chloride	5.358	62	84550	44.20	ug/L	97
10) bromomethane	6.134	94	22308	35.03	ug/L	99
11) chloroethane	6.381	64	56727	48.45	ug/L	98
12) trichlorofluoromethane	6.947	101	122335	44.88	ug/L	97
13) vinyl bromide	6.795	106	42785	33.05	ug/L	99
14) ethyl ether	7.476	74	51174	51.51	ug/L	95
15) acrolein	7.686	56	18957	44.69	ug/L	99
16) freon 113	7.933	151	60603	50.44	ug/L	96
17) 1,1-dichloroethene	7.938	96	74084	46.57	ug/L	90
18) acetone	7.933	43	154809	183.31	ug/L	95
19) acetonitrile	8.378	41	195983	476.39	ug/L	99
20) iodomethane	8.216	142	35410	36.84	ug/L	92
21) carbon disulfide	8.389	76	179973	42.48	ug/L	97
22) methylene chloride	8.703	84	89890	50.27	ug/L	92
23) methyl acetate	8.504	43	106948	48.69	ug/L	96
24) methyl tert butyl ether	9.144	73	262359	48.49	ug/L	99
25) trans-1,2-dichloroethene	9.170	96	81102	47.71	ug/L	92
26) di-isopropyl ether	9.831	45	271769	46.90	ug/L	96
27) 2-butanone	10.507	72	74493	206.85	ug/L #	81
28) 1,1-dichloroethane	9.768	63	146047	46.53	ug/L	99
29) chloroprene	9.920	53	103959	42.36	ug/L	90
30) acrylonitrile	9.028	53	46923	51.07	ug/L	96
31) hexane	9.589	56	52092	48.77	ug/L	94
32) vinyl acetate	9.773	86	25127	54.89	ug/L #	64
33) ethyl tert-butyl ether	10.329	59	172220	30.50	ug/L	97
34) ethyl acetate	10.570	70	16757	53.41	ug/L #	38
35) 2,2-dichloropropane	10.585	77	114173	46.55	ug/L	93
36) cis-1,2-dichloroethene	10.554	96	95499	49.93	ug/L	92
37) methyl acrylate	10.638	55	116831	50.17	ug/L	99
38) propionitrile	10.559	54	219866	505.35	ug/L	98
39) bromochloromethane	10.863	128	50792	55.27	ug/L	91
40) tetrahydrofuran	10.937	72	20463	52.54	ug/L #	81
41) chloroform	10.932	85	97845	44.96	ug/L	96
42) t-butyl formate	11.010	59	65720	31.50	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\janellac\07-28-2020\v4d4597\
Data File : 4d103627.d
Acq On : 27 Jul 2020 9:35 am
Operator : krizhkac
Sample : bs Inst : MS4D
Misc : MS44684,V4D4597,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Results File: M4D4496.RES
Quant Time: Jul 27 22:08:16 2020
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 16:29:00 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) methacrylonitrile	10.790	67	53424	52.93	ug/L		87
45) 1,1,1-trichloroethane	11.236	97	117585	46.02	ug/L		98
46) cyclohexane	11.351	84	99738	49.67	ug/L		98
47) 1,1-dichloropropene	11.424	75	101729	44.90	ug/L		96
48) isobutyl alcohol	11.356	74	9851	589.31	ug/L	#	62
49) carbon tetrachloride	11.456	117	103876	46.10	ug/L		98
50) tert amyl alcohol	11.503	55	34368	247.16	ug/L		96
53) n-butyl alcohol	12.085	56	298765	2802.56	ug/L		95
54) 2,2,4-trimethylpentane	11.744	57	47336	13.01	ug/L	#	53
55) benzene	11.671	78	300976	46.73	ug/L		99
56) tert-amyl methyl ether	11.734	87	42454	34.77	ug/L		99
57) heptane	11.907	71	46087	51.85	ug/L		97
58) isopropyl acetate	11.597	87	28327	55.59	ug/L	#	71
59) 1,2-dichloroethane	11.639	62	108329	43.18	ug/L		99
60) trichloroethene	12.352	130	83214	50.82	ug/L		97
61) ethyl acrylate	12.337	55	145624	49.78	ug/L		99
62) 2-nitropropane	12.997	43	32356	47.43	ug/L		99
63) 2-chloroethyl vinyl ether	13.050	63	216151	176.34	ug/L		99
64) methyl methacrylate	12.588	100	30931	54.63	ug/L	#	78
65) 1,2-dichloropropane	12.573	63	81250	50.21	ug/L		99
66) dibromomethane	12.698	93	59214	52.72	ug/L		91
67) methylcyclohexane	12.604	83	102909	49.11	ug/L		95
68) bromodichloromethane	12.819	83	112667	51.32	ug/L		99
69) epichlorohydrin	13.139	57	57516	197.27	ug/L		96
70) cis-1,3-dichloropropene	13.254	75	133866	52.79	ug/L		94
71) 4-methyl-2-pentanone	13.349	58	193253	212.62	ug/L		92
72) 3-methyl-1-butanol	13.333	70	108040	1184.62	ug/L		91
75) toluene	13.616	92	171325	47.01	ug/L		99
76) trans-1,3-dichloropropene	13.752	75	121766	51.88	ug/L		97
77) ethyl methacrylate	13.773	69	118774	51.25	ug/L		95
78) 1,1,2-trichloroethane	13.941	83	67402	54.05	ug/L		97
79) tetrachloroethene	14.161	164	64427	47.80	ug/L		97
80) 1,3-dichloropropane	14.114	76	121483	50.86	ug/L		90
81) 2-hexanone	14.114	58	201569	210.47	ug/L		97
82) butyl acetate	14.198	56	73746	52.86	ug/L		91
83) dibromochloromethane	14.355	129	96178	56.71	ug/L		100
84) 1,2-dibromoethane	14.497	107	124949	66.01	ug/L		100
85) n-butyl ether	14.895	57	261550	43.50	ug/L		98
86) chlorobenzene	14.937	112	192620	49.53	ug/L		99
87) 1,1,1,2-tetrachloroethane	14.984	131	77266	54.63	ug/L		99
88) ethylbenzene	15.005	91	294880	46.31	ug/L		98
89) m,p-xylene	15.100	106	234456	98.79	ug/L		92
90) o-xylene	15.477	106	114407	49.40	ug/L		95
91) styrene	15.472	104	198346	51.33	ug/L		97
92) bromoform	15.682	173	76165	59.56	ug/L		98
93) butyl acrylate	15.299	55	166860	50.11	ug/L		98
94) isopropylbenzene	15.792	105	268104	47.83	ug/L		98
95) cis-1,4-dichloro-2-butene	15.802	88	39307	47.73	ug/L		96
98) bromobenzene	16.133	156	86485	49.93	ug/L		99
99) 1,1,2,2-tetrachloroethane	16.007	83	120128	51.03	ug/L		100
100) trans-1,4-dichloro-2-b...	16.049	53	27894	44.58	ug/L		84
101) 1,2,3-trichloropropane	16.080	110	32739	50.61	ug/L		96
102) n-propylbenzene	16.159	91	306552	44.71	ug/L		99
103) 2-chlorotoluene	16.285	126	71339	47.86	ug/L		93
104) 4-chlorotoluene	16.369	91	194740	46.08	ug/L		99
105) 1,3,5-trimethylbenzene	16.295	105	215958	46.19	ug/L		97
106) tert-butylbenzene	16.620	134	41422	47.97	ug/L	#	86

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\janellac\07-28-2020\v4d4597\
Data File : 4d103627.d
Acq On : 27 Jul 2020 9:35 am
Operator : krizhkac
Sample : bs Inst : MS4D
Misc : MS44684,V4D4597,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Results File: M4D4496.RES
Quant Time: Jul 27 22:08:16 2020
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 16:29:00 2020
Response via : Initial Calibration

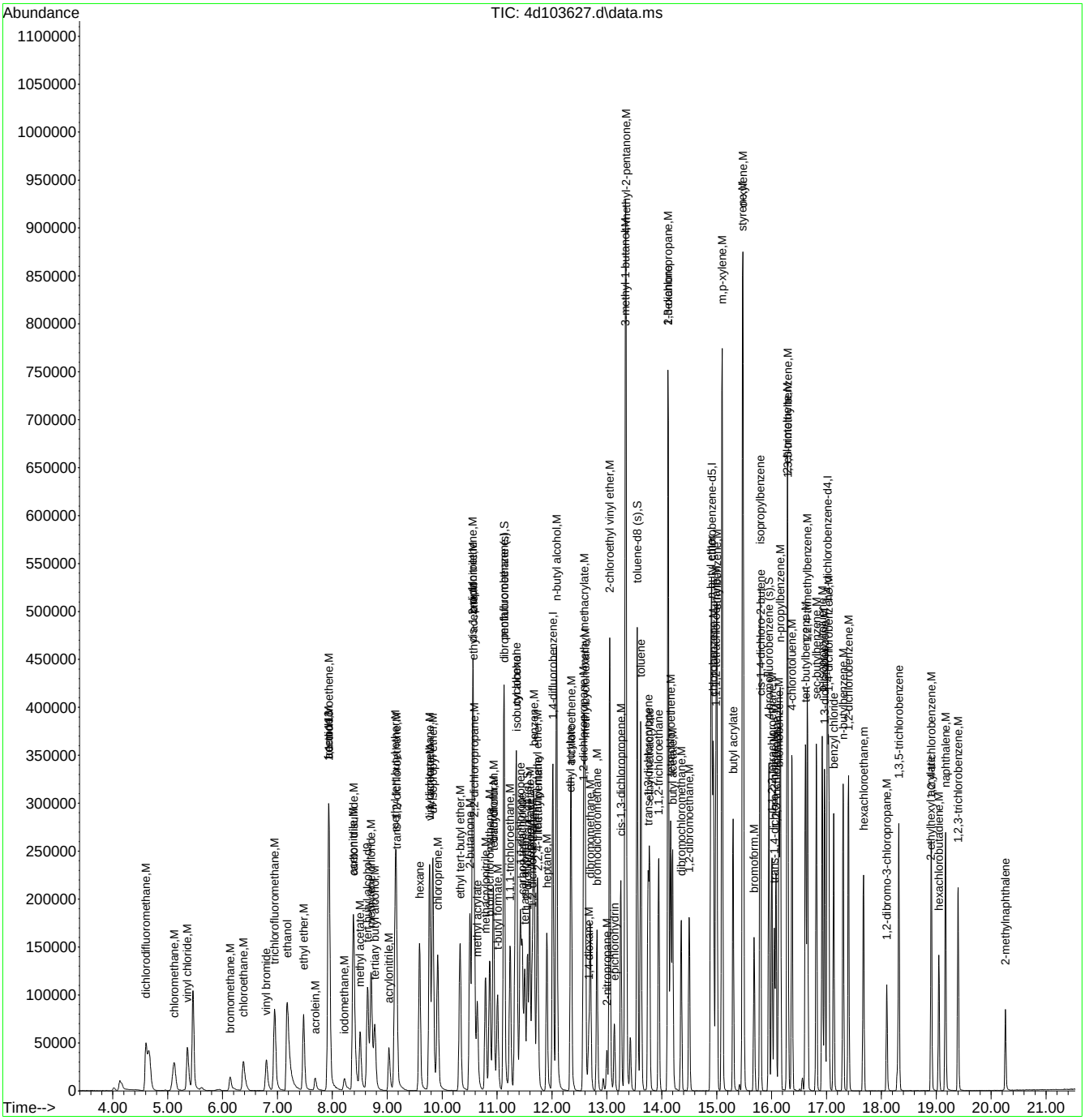
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
107) 1,2,4-trimethylbenzene	16.652	105	218399	46.26	ug/L	99
108) sec-butylbenzene	16.814	105	247545	46.27	ug/L	98
109) 1,3-dichlorobenzene	16.966	146	139167	48.96	ug/L	99
110) p-isopropyltoluene	16.924	119	209498	47.22	ug/L	98
111) 1,4-dichlorobenzene	17.040	146	142739	49.39	ug/L	99
112) benzyl chloride	17.134	91	202183	56.63	ug/L	97
113) 1,2-dichlorobenzene	17.401	146	136020	50.61	ug/L	98
114) n-butylbenzene	17.302	92	97025	47.95	ug/L	99
115) 1,2-dibromo-3-chloropr...	18.099	157	33651	54.24	ug/L	96
116) 1,3,5-trichlorobenzene	18.319	180	88513	50.72	ug/L	99
117) 2-ethylhexyl acrylate	18.901	70	8190	9.29	ug/L	98
118) 1,2,4-trichlorobenzene	18.911	180	75992	52.40	ug/L	99
119) hexachlorobutadiene	19.048	225	29203	44.28	ug/L	98
120) naphthalene	19.168	128	208948	50.11	ug/L	99
121) 1,2,3-trichlorobenzene	19.399	180	68106	51.43	ug/L	98
122) hexachloroethane	17.674	201	39612	50.99	ug/L	99
123) 2-methylnaphthalene	20.259	142	41879	25.24	ug/L	96

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\janellac\07-28-2020\v4d4597\
Data File : 4d103627.d
Acq On : 27 Jul 2020 9:35 am
Operator : krizhkac
Sample : bs Inst : MS4D
Misc : MS44684,V4D4597,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Results File: M4D4496.RES
Quant Time: Jul 27 22:08:16 2020
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 16:29:00 2020
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
MoHui Huang
07/21/20 11:21

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\July-2020\7-21\v2e8165-rush\
Data File : 2e162980.d
Acq On : 20 Jul 2020 4:50 pm
Operator : krizhkac
Sample : jd10196-7ms Inst : VOAMS2E
Misc : MS44511,V2E8165,5,,,,10
ALS Vial : 15 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 21 01:00:21 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Fri Jul 17 14:25:39 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.294	65	109889	500.00	ug/L	0.00
5) pentafluorobenzene	9.528	168	238713	50.00	ug/L	0.00
53) 1,4-difluorobenzene	10.440	114	356594	50.00	ug/L	0.00
74) chlorobenzene-d5	13.586	117	287012	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	15.883	152	148214	50.00	ug/L	0.00
127) pentafluorobenzene(a)	9.528	168	238713	50.00	ug/L	0.00
130) 1,4-dichlorobenzene-d4(a)	15.883	152	148214	50.00	ug/L	0.00
System Monitoring Compounds						
47) dibromofluoromethane (s)	9.575	113	119745	50.29	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.58%			
54) 1,2-dichloroethane-d4 (s)	9.995	65	133951	49.55	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 99.10%			
75) toluene-d8 (s)	12.081	98	453513	49.85	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.70%			
98) 4-bromofluorobenzene (s)	14.729	95	161533	48.26	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 96.52%			
Target Compounds						Qvalue
2) ethanol	6.052	45	119192	3795.08	ug/L	96
3) tertiary butyl alcohol	7.415	59	72244	199.94	ug/L	95
4) 1,4-dioxane	11.159	88	23741	957.48	ug/L	91
6) chlorodifluoromethane	3.997	51	167875	33.73	ug/L	97
7) dichlorodifluoromethane	3.970	85	175072	33.98	ug/L	99
8) chloromethane	4.374	50	201205	35.74	ug/L	99
9) vinyl chloride	4.610	62	181575	36.24	ug/L	99
10) bromomethane	5.229	94	117050	39.88	ug/L	96
11) chloroethane	5.375	64	106126	37.12	ug/L	97
12) trichlorofluoromethane	5.832	101	181829	36.52	ug/L	100
13) 1,3-butadiene	4.626	54	121106	32.26	ug/L	96
14) vinyl bromide	5.722	106	69430	35.53	ug/L	99
15) ethyl ether	6.214	74	77057	42.16	ug/L	99
16) acrolein	6.466	56	22119	37.15	ug/L	97
17) freon 113	6.602	151	84216	35.69	ug/L	96
18) 1,1-dichloroethene	6.639	61	179218	37.44	ug/L	99
19) acetone	6.671	43	130915	165.01	ug/L	99
20) acetonitrile	7.106	41	178487	420.05	ug/L	98
21) iodomethane	6.917	142	202360	41.09	ug/L	99
22) carbon disulfide	7.043	76	322412	37.62	ug/L	99
23) methylene chloride	7.342	84	140563	41.73	ug/L	97
24) methyl acetate	7.142	43	102822	42.53	ug/L	97
25) methyl tert butyl ether	7.672	73	367701	43.06	ug/L	99
26) trans-1,2-dichloroethene	7.719	61	185904	39.89	ug/L	96
27) hexane	8.018	56	83467	33.50	ug/L	98
28) di-isopropyl ether	8.259	45	474671	42.38	ug/L	98
29) ethyl tert-butyl ether	8.726	59	442043	42.39	ug/L	99
30) 2-butanone	8.977	72	55236	190.68	ug/L	96
31) 1,1-dichloroethane	8.275	63	239315	40.85	ug/L	97
32) chloroprene	8.385	53	178668	39.58	ug/L	98
33) acrylonitrile	7.667	53	51243	44.94	ug/L	95
34) vinyl acetate	8.264	86	28628	48.30	ug/L	96
35) ethyl acetate	8.998	45	21212	46.31	ug/L	95
36) 2,2-dichloropropane	9.019	77	165988	37.05	ug/L	99
37) cis-1,2-dichloroethene	9.014	96	165315	48.93	ug/L	94
38) propionitrile	9.067	54	180613	431.44	ug/L	97
39) methyl acrylate	9.082	85	17529	47.30	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\July-2020\7-21\v2e8165-rush\
Data File : 2e162980.d
Acq On : 20 Jul 2020 4:50 pm
Operator : krizhkac
Sample : jd10196-7ms Inst : VOAMS2E
Misc : MS44511,V2E8165,5,,,,10
ALS Vial : 15 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 21 01:00:21 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Fri Jul 17 14:25:39 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
40) bromochloromethane	9.323	128	66239	43.04	ug/L		98
41) tetrahydrofuran	9.365	72	16018	43.71	ug/L		88
42) chloroform	9.376	83	216675	39.78	ug/L		99
43) t-butyl formate	9.407	59	81307	32.78	ug/L		93
44) 1,1-dichloropropene	9.811	75	163846	38.37	ug/L		96
45) carbon tetrachloride	9.837	117	150330	38.78	ug/L		99
46) isopropyl acetate	9.995	87	29235	45.83	ug/L		95
48) methacrylonitrile	9.261	67	50389	45.92	ug/L		99
49) 1,1,1-trichloroethane	9.633	97	178697	39.39	ug/L		98
50) cyclohexane	9.706	84	185515	37.24	ug/L		95
51) iso-butyl alcohol	9.816	43	49575	400.16	ug/L		95
52) tert amyl alcohol	9.942	73	29891	202.50	ug/L		94
55) 2,2,4-trimethylpentane	10.073	57	393168	33.78	ug/L		99
56) n-butyl alcohol	10.566	56	163745	2154.69	ug/L		99
57) benzene	10.073	78	517665	40.06	ug/L		99
58) tert-amyl methyl ether	10.105	73	421618	42.73	ug/L		99
59) heptane	10.241	57	80931	35.92	ug/L		98
60) 1,2-dichloroethane	10.084	62	163726	41.27	ug/L		99
61) ethyl acrylate	10.786	55	153167m	45.18	ug/L		
62) trichloroethene	10.786	95	721415	243.74	ug/L		99
63) 2-nitropropane	11.552	41	24736	27.27	ug/L	#	6
65) methyl methacrylate	11.054	100	31188	46.05	ug/L	#	89
66) 1,2-dichloropropane	11.048	63	139671	41.66	ug/L		99
67) methylcyclohexane	11.007	83	204516	34.86	ug/L		99
68) dibromomethane	11.211	93	74420	43.36	ug/L		99
69) bromodichloromethane	11.337	83	163831	42.10	ug/L		98
70) epichlorohydrin	11.699	57	57105	206.91	ug/L		97
71) cis-1,3-dichloropropene	11.793	75	207262	42.26	ug/L		99
72) 4-methyl-2-pentanone	11.882	58	191275	181.85	ug/L		98
73) 3-methyl-1-butanol	11.903	70	62442	867.13	ug/L		96
76) toluene	12.155	92	298434	41.95	ug/L		97
77) ethyl methacrylate	12.343	69	153742	46.62	ug/L		98
78) trans-1,3-dichloropropene	12.349	75	180493	44.73	ug/L		98
79) 1,1,2-trichloroethane	12.564	83	89793	43.37	ug/L		98
80) tetrachloroethene	12.737	164	95331	41.03	ug/L		97
81) 2-hexanone	12.731	58	171616	188.43	ug/L		99
82) 1,3-dichloropropane	12.742	76	182148	42.79	ug/L		97
83) butyl acetate	12.805	56	83894	46.22	ug/L		100
84) dibromochloromethane	13.009	129	114078	44.12	ug/L		99
85) 1,2-dibromoethane	13.156	107	138308	44.60	ug/L		100
86) n-butyl ether	13.528	57	529324	41.98	ug/L		99
87) chlorobenzene	13.612	112	314305	42.02	ug/L		98
88) 1,1,1,2-tetrachloroethane	13.675	131	112399	43.66	ug/L		98
89) ethylbenzene	13.670	91	532979	41.89	ug/L		100
90) m,p-xylene	13.775	106	409396	85.29	ug/L		99
91) o-xylene	14.189	91	433025	42.49	ug/L		99
92) styrene	14.200	104	339161	45.90	ug/L		99
93) butyl acrylate	14.016	55	230696	45.82	ug/L		100
94) bromoform	14.462	173	72186	47.40	ug/L		99
95) isopropylbenzene	14.530	105	503990	41.79	ug/L		99
96) cis-1,4-dichloro-2-butene	14.598	75	44372	44.51	ug/L		96
99) bromobenzene	14.923	156	131382	41.57	ug/L		97
100) 1,1,2,2-tetrachloroethane	14.829	83	132774	42.57	ug/L		97
101) trans-1,4-dichloro-2-b...	14.871	53	35015	44.40	ug/L		99
102) 1,2,3-trichloropropane	14.902	110	35945	43.62	ug/L		99
103) n-propylbenzene	14.934	91	589486	40.19	ug/L		99
104) 2-chlorotoluene	15.080	126	122844	41.43	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\July-2020\7-21\v2e8165-rush\
Data File : 2e162980.d
Acq On : 20 Jul 2020 4:50 pm
Operator : krizhkac
Sample : jd10196-7ms Inst : VOAMS2E
Misc : MS44511,V2E8165,5,,,,10
ALS Vial : 15 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 21 01:00:21 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Fri Jul 17 14:25:39 2020
Response via : Initial Calibration

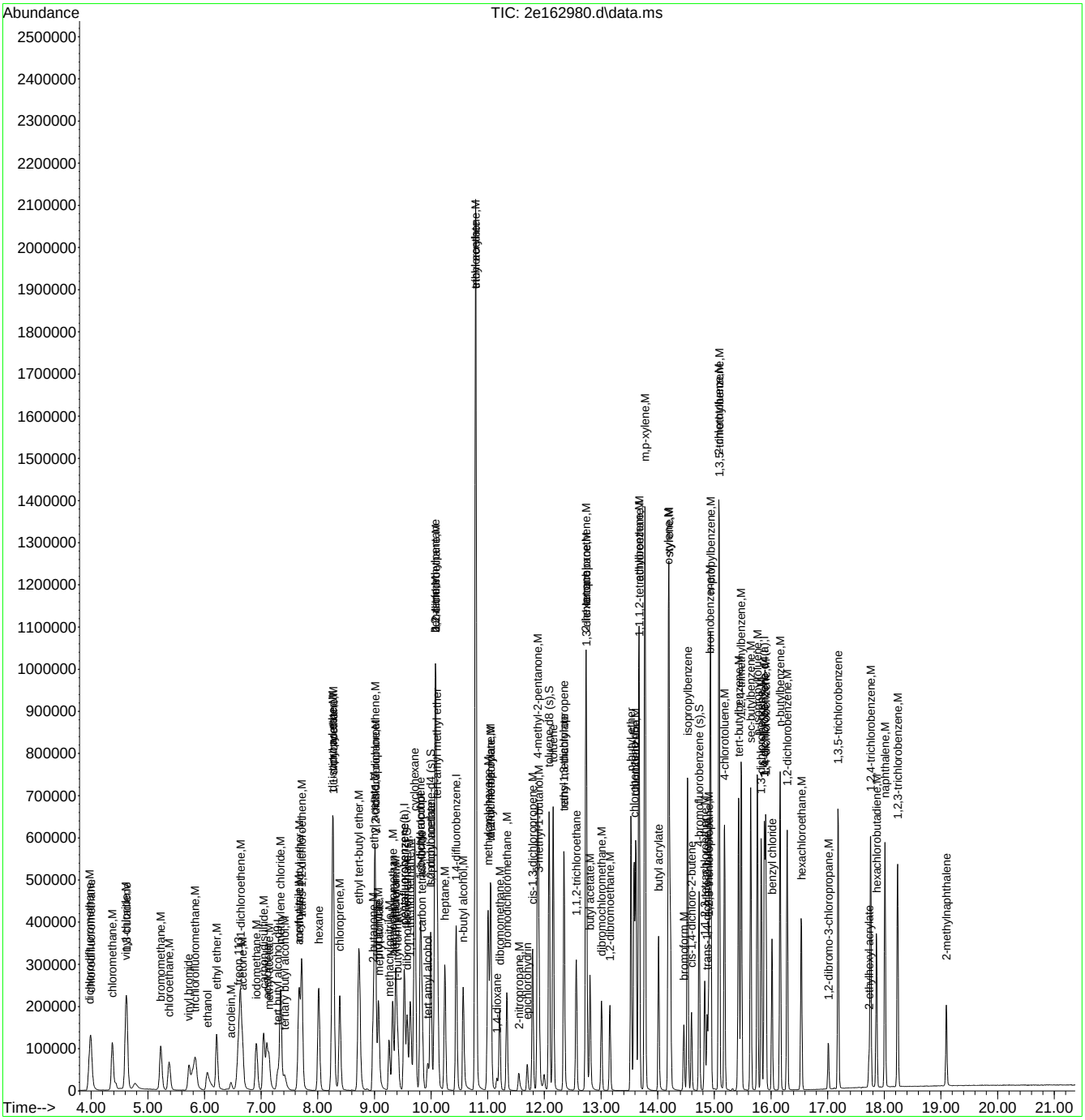
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) 4-chlorotoluene	15.180	91	365021	40.48	ug/L	99
106) 1,3,5-trimethylbenzene	15.086	105	430603	41.83	ug/L	99
107) tert-butylbenzene	15.432	119	361282	40.00	ug/L	98
108) 1,2,4-trimethylbenzene	15.474	105	430214	42.45	ug/L	99
109) sec-butylbenzene	15.641	105	504729	39.38	ug/L	99
110) 1,3-dichlorobenzene	15.825	146	238679	41.84	ug/L	97
111) p-isopropyltoluene	15.762	119	437095	41.33	ug/L	99
112) 1,4-dichlorobenzene	15.909	146	242943	41.43	ug/L	99
113) 1,2-dichlorobenzene	16.286	146	239679	42.54	ug/L	100
114) n-butylbenzene	16.160	92	216658	41.20	ug/L	98
115) 1,2-dibromo-3-chloropr...	17.015	157	28107	46.01	ug/L	97
116) 1,3,5-trichlorobenzene	17.183	180	201733	43.46	ug/L	98
117) 1,2,4-trichlorobenzene	17.760	180	177927	47.66	ug/L	98
118) 2-ethylhexyl acrylate	17.728	70	17075	7.25	ug/L	92
119) hexachlorobutadiene	17.864	225	78471	38.48	ug/L	97
120) naphthalene	18.011	128	417801	49.96	ug/L	100
121) 1,2,3-trichlorobenzene	18.237	180	166458	48.06	ug/L	99
122) hexachloroethane	16.538	201	72538	42.39	ug/L	98
123) benzyl chloride	16.019	91	241420	47.29	ug/L	98
124) 2-methylnaphthalene	19.097	142	96397	25.14	ug/L	96

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\July-2020\7-21\v2e8165-rush\
Data File : 2e162980.d
Acq On : 20 Jul 2020 4:50 pm
Operator : krizhkac
Sample : jd10196-7ms Inst : VOAMS2E
Misc : MS44511,V2E8165,5,,,,10
ALS Vial : 15 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 21 01:00:21 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Fri Jul 17 14:25:39 2020
Response via : Initial Calibration



Manual Integration Approval Summary

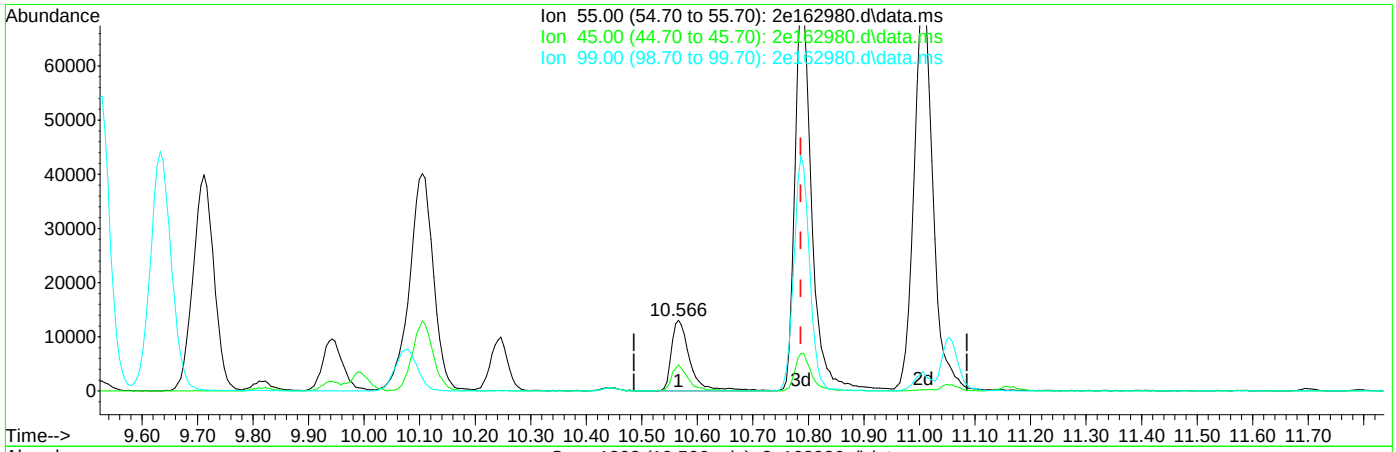
Sample Number: JD10196-7MS
Lab FileID: 2E162980.D
Injection Time: 07/20/20 16:50
Method: SW846 8260C
Analyst approved: 07/21/20 01:20 Lotus Acosta
Supervisor approved: 07/21/20 11:21 MoHui Huang

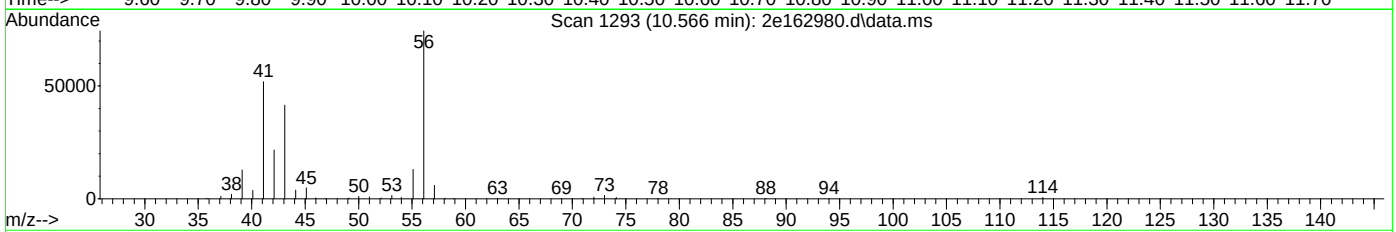
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Acrylate	140-88-5		10.79	Missed peak

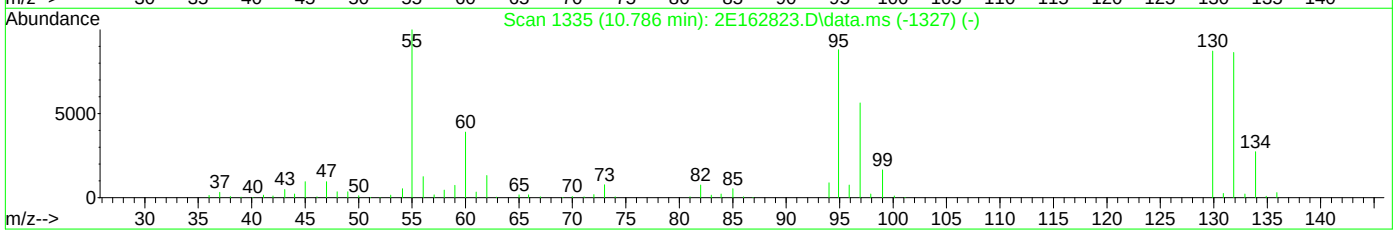
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\July-2020\7-21\v2e8165-rush\
Data File : 2e162980.d
Acq On : 20 Jul 2020 4:50 pm
Operator : krizhkac
Sample : jd10196-7ms Inst : VOAMS2E
Misc : MS44511,V2E8165,5,,,,10
ALS Vial : 15 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 21 00:58:45 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Fri Jul 17 14:25:39 2020
Response via : Initial Calibration







TIC: 2e162980.d\data.ms

(61) ethyl acrylate

10.566min (-0.220) 8.94ug/L

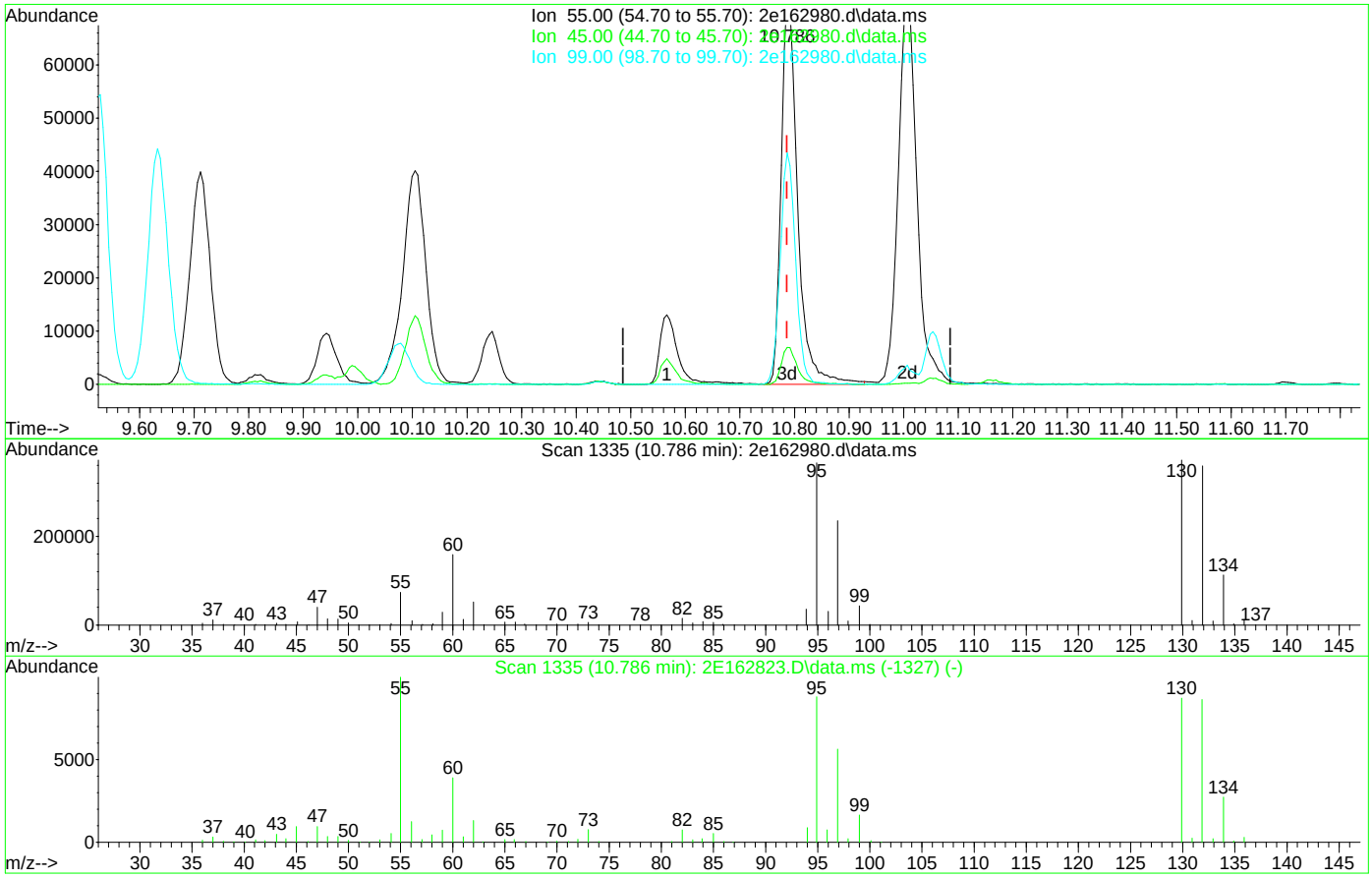
response 30314

Ion	Exp%	Act%
55.00	100	100
45.00	9.40	37.04
99.00	16.40	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\July-2020\7-21\v2e8165-rush\
Data File : 2e162980.d
Acq On : 20 Jul 2020 4:50 pm
Operator : krizhkac
Sample : jd10196-7ms Inst : VOAMS2E
Misc : MS44511,V2E8165,5,,,,10
ALS Vial : 15 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 21 00:58:45 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Fri Jul 17 14:25:39 2020
Response via : Initial Calibration



TIC: 2e162980.d\data.ms

(61) ethyl acrylate

10.786min (+0.000) 45.18ug/L m

response 153167

Ion	Exp%	Act%
55.00	100	100
45.00	9.40	9.49
99.00	16.40	59.26#
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
MoHui Huang 07/21/20 11:21

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\July-2020\7-21\v2e8165-rush\
Data File : 2e162981.d
Acq On : 20 Jul 2020 5:20 pm
Operator : krizhkac
Sample : jd10196-7msd Inst : VOAMS2E
Misc : MS44511,V2E8165,5,,,,10
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 21 01:02:28 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Jul 16 11:01:59 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	7.294	65	116971	500.00	ug/L		0.00
5) pentafluorobenzene	9.523	168	244392	50.00	ug/L		0.00
53) 1,4-difluorobenzene	10.440	114	362281	50.00	ug/L		0.00
74) chlorobenzene-d5	13.581	117	292026	50.00	ug/L		0.00
97) 1,4-dichlorobenzene-d4	15.882	152	147880	50.00	ug/L		0.00
127) pentafluorobenzene(a)	9.523	168	244392	50.00	ug/L		0.00
130) 1,4-dichlorobenzene-d4(a)	15.882	152	147880	50.00	ug/L		0.00
System Monitoring Compounds							
47) dibromofluoromethane (s)	9.575	113	121683	49.91	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.82%				
54) 1,2-dichloroethane-d4 (s)	9.995	65	134401	48.93	ug/L		0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 97.86%				
75) toluene-d8 (s)	12.081	98	461777	49.89	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.78%				
98) 4-bromofluorobenzene (s)	14.729	95	164988	49.40	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 98.80%				
Target Compounds							Qvalue
2) ethanol	6.046	45	128610	3847.02	ug/L		99
3) tertiary butyl alcohol	7.415	59	76809	199.70	ug/L		96
4) 1,4-dioxane	11.164	88	27256	1032.69	ug/L		94
6) chlorodifluoromethane	3.991	51	172393	33.83	ug/L		98
7) dichlorodifluoromethane	3.965	85	182585	34.61	ug/L		99
8) chloromethane	4.369	50	204740	35.52	ug/L		99
9) vinyl chloride	4.605	62	187744	36.61	ug/L		100
10) bromomethane	5.223	94	116226	38.68	ug/L		97
11) chloroethane	5.370	64	106496	36.39	ug/L		99
12) trichlorofluoromethane	5.832	101	188348	36.95	ug/L		97
13) 1,3-butadiene	4.626	54	128439	33.42	ug/L		99
14) vinyl bromide	5.727	106	71163	35.57	ug/L		98
15) ethyl ether	6.214	74	77963	41.67	ug/L		96
16) acrolein	6.466	56	22578	37.04	ug/L		92
17) freon 113	6.607	151	90627	37.52	ug/L		96
18) 1,1-dichloroethene	6.634	61	186999	38.16	ug/L		98
19) acetone	6.670	43	131397	161.77	ug/L		100
20) acetonitrile	7.100	41	179635	412.92	ug/L		99
21) iodomethane	6.912	142	214316	42.51	ug/L		99
22) carbon disulfide	7.043	76	333919	38.06	ug/L		100
23) methylene chloride	7.342	84	142568	41.34	ug/L		99
24) methyl acetate	7.142	43	102169	41.28	ug/L		99
25) methyl tert butyl ether	7.672	73	372798	42.64	ug/L		99
26) trans-1,2-dichloroethene	7.714	61	190164	39.85	ug/L		99
27) hexane	8.018	56	90658	35.54	ug/L		97
28) di-isopropyl ether	8.259	45	484763	42.27	ug/L		100
29) ethyl tert-butyl ether	8.726	59	451324	42.27	ug/L		99
30) 2-butanone	8.972	72	55108	185.81	ug/L		95
31) 1,1-dichloroethane	8.275	63	242983	40.51	ug/L		99
32) chloroprene	8.385	53	184708	39.96	ug/L		98
33) acrylonitrile	7.661	53	50968	43.66	ug/L		99
34) vinyl acetate	8.264	86	28998	47.79	ug/L	#	81
35) ethyl acetate	8.998	45	21209	45.23	ug/L	#	57
36) 2,2-dichloropropane	9.014	77	166589	36.32	ug/L		98
37) cis-1,2-dichloroethene	9.014	96	171652	49.62	ug/L		91
38) propionitrile	9.066	54	182835	426.60	ug/L		100
39) methyl acrylate	9.077	85	18317	48.27	ug/L	#	76

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\July-2020\7-21\v2e8165-rush\
Data File : 2e162981.d
Acq On : 20 Jul 2020 5:20 pm
Operator : krizhkac
Sample : jd10196-7msd Inst : VOAMS2E
Misc : MS44511,V2E8165,5,,,,10
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 21 01:02:28 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Jul 16 11:01:59 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
40) bromochloromethane	9.323	128	66928	42.48	ug/L		97
41) tetrahydrofuran	9.365	72	16771	44.71	ug/L		87
42) chloroform	9.376	83	219231	39.32	ug/L		98
43) t-butyl formate	9.413	59	76862	30.26	ug/L		97
44) 1,1-dichloropropene	9.811	75	169616	38.80	ug/L		96
45) carbon tetrachloride	9.837	117	155521	39.19	ug/L		99
46) isopropyl acetate	9.989	87	29086	44.53	ug/L		98
48) methacrylonitrile	9.255	67	51082	45.47	ug/L		99
49) 1,1,1-trichloroethane	9.633	97	183079	39.42	ug/L		99
50) cyclohexane	9.706	84	194076	38.05	ug/L		91
51) iso-butyl alcohol	9.811	43	52423	413.31	ug/L		97
52) tert amyl alcohol	9.942	73	31693	209.72	ug/L		94
55) 2,2,4-trimethylpentane	10.073	57	416154	35.19	ug/L		99
56) n-butyl alcohol	10.566	56	179263	2321.86	ug/L		100
57) benzene	10.073	78	523202	39.85	ug/L		99
58) tert-amyl methyl ether	10.105	73	425271	42.43	ug/L		98
59) heptane	10.241	57	86352	37.73	ug/L		99
60) 1,2-dichloroethane	10.084	62	164053	40.70	ug/L		100
61) ethyl acrylate	10.786	55	154992m	45.01	ug/L		
62) trichloroethene	10.786	95	757126	251.79	ug/L		97
63) 2-nitropropane	11.552	41	25018	27.15	ug/L	#	12
65) methyl methacrylate	11.054	100	32223	46.84	ug/L	#	93
66) 1,2-dichloropropane	11.048	63	141668	41.59	ug/L		99
67) methylcyclohexane	11.006	83	220885	37.06	ug/L		99
68) dibromomethane	11.206	93	75028	43.03	ug/L		95
69) bromodichloromethane	11.337	83	165201	41.78	ug/L		99
70) epichlorohydrin	11.698	57	58832	209.83	ug/L		98
71) cis-1,3-dichloropropene	11.793	75	213808	42.91	ug/L		99
72) 4-methyl-2-pentanone	11.882	58	194211	181.75	ug/L		98
73) 3-methyl-1-butanol	11.903	70	67792	926.65	ug/L		99
76) toluene	12.155	92	303563	41.94	ug/L		99
77) ethyl methacrylate	12.343	69	155951	46.48	ug/L		97
78) trans-1,3-dichloropropene	12.349	75	184095	44.84	ug/L		99
79) 1,1,2-trichloroethane	12.564	83	90686	43.05	ug/L		98
80) tetrachloroethene	12.737	164	99645	42.15	ug/L		99
81) 2-hexanone	12.731	58	172851	186.53	ug/L		99
82) 1,3-dichloropropane	12.742	76	183356	42.33	ug/L		99
83) butyl acetate	12.805	56	84096	45.53	ug/L		96
84) dibromochloromethane	13.004	129	115930	44.06	ug/L		98
85) 1,2-dibromoethane	13.156	107	139089	44.08	ug/L		99
86) n-butyl ether	13.528	57	542777	42.30	ug/L		99
87) chlorobenzene	13.612	112	321680	42.27	ug/L		98
88) 1,1,1,2-tetrachloroethane	13.675	131	114821	43.83	ug/L		97
89) ethylbenzene	13.670	91	543478	41.98	ug/L		100
90) m,p-xylene	13.775	106	417229	85.43	ug/L		100
91) o-xylene	14.189	91	444477	42.86	ug/L		100
92) styrene	14.199	104	344504	45.82	ug/L		99
93) butyl acrylate	14.016	55	230578	45.01	ug/L		99
94) bromoform	14.462	173	72800	46.99	ug/L		98
95) isopropylbenzene	14.530	105	520351	42.41	ug/L		99
96) cis-1,4-dichloro-2-butene	14.598	75	44506	43.88	ug/L		97
99) bromobenzene	14.923	156	133620	42.37	ug/L		97
100) 1,1,2,2-tetrachloroethane	14.829	83	131767	42.34	ug/L		95
101) trans-1,4-dichloro-2-b...	14.871	53	34999	44.48	ug/L		98
102) 1,2,3-trichloropropane	14.902	110	35710	43.44	ug/L		99
103) n-propylbenzene	14.933	91	606582	41.45	ug/L		99
104) 2-chlorotoluene	15.080	126	125010	42.26	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\July-2020\7-21\v2e8165-rush\
Data File : 2e162981.d
Acq On : 20 Jul 2020 5:20 pm
Operator : krizhkac
Sample : jd10196-7msd Inst : VOAMS2E
Misc : MS44511,V2E8165,5,,,,10
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 21 01:02:28 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Jul 16 11:01:59 2020
Response via : Initial Calibration

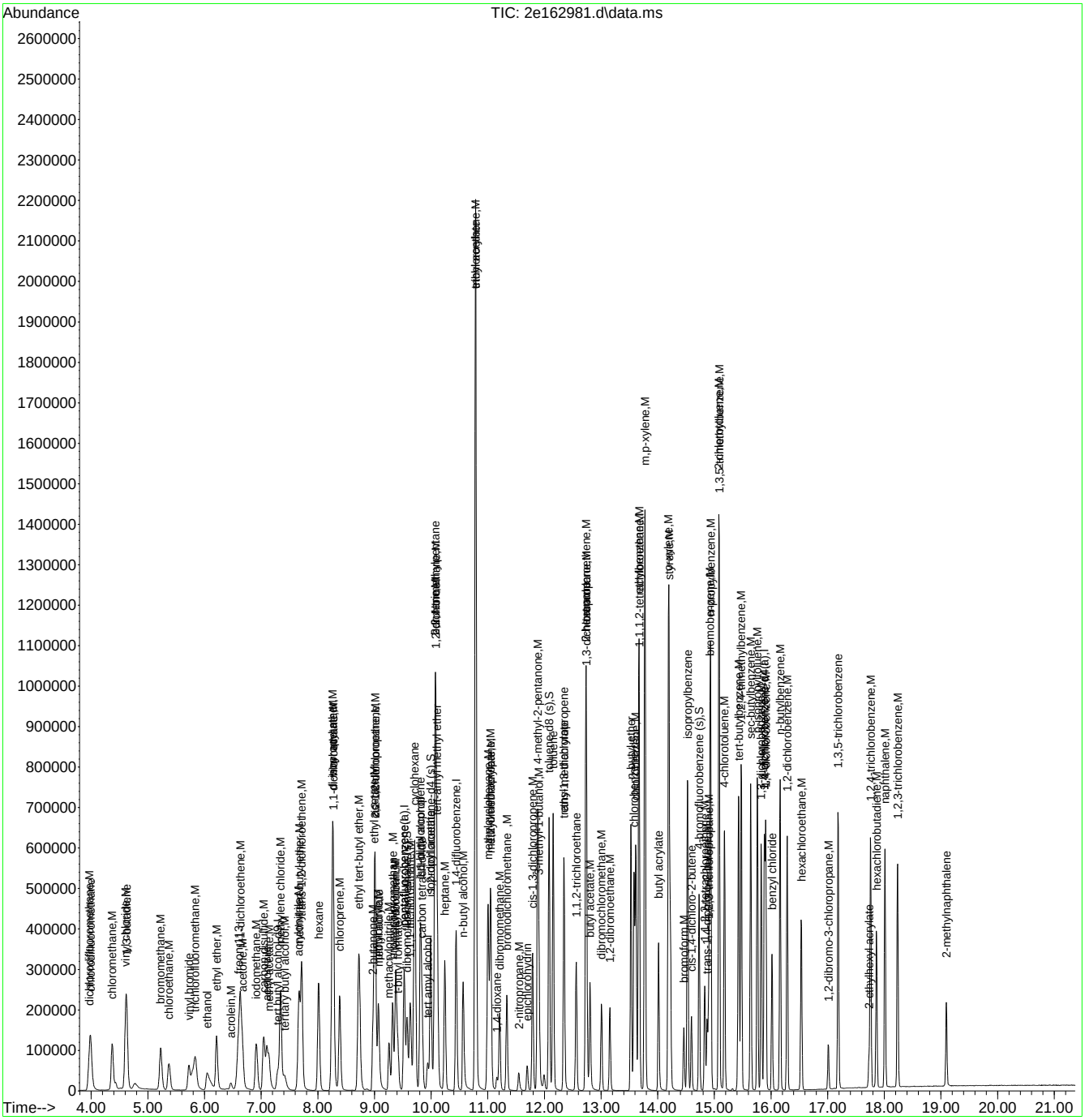
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) 4-chlorotoluene	15.175	91	371114	41.25	ug/L	98
106) 1,3,5-trimethylbenzene	15.085	105	438700	42.72	ug/L	100
107) tert-butylbenzene	15.432	119	377701	41.91	ug/L	97
108) 1,2,4-trimethylbenzene	15.473	105	441645	43.68	ug/L	99
109) sec-butylbenzene	15.641	105	529477	41.41	ug/L	99
110) 1,3-dichlorobenzene	15.825	146	242889	42.68	ug/L	97
111) p-isopropyltoluene	15.757	119	453138	42.94	ug/L	99
112) 1,4-dichlorobenzene	15.909	146	244743	41.83	ug/L	99
113) 1,2-dichlorobenzene	16.286	146	243499	43.32	ug/L	99
114) n-butylbenzene	16.160	92	224831	42.85	ug/L	98
115) 1,2-dibromo-3-chloropr...	17.015	157	28738	47.15	ug/L	95
116) 1,3,5-trichlorobenzene	17.183	180	208666	45.06	ug/L	97
117) 1,2,4-trichlorobenzene	17.759	180	184681	49.58	ug/L	99
118) 2-ethylhexyl acrylate	17.728	70	18993	7.96	ug/L	92
119) hexachlorobutadiene	17.864	225	84229	41.39	ug/L	99
120) naphthalene	18.011	128	426772	51.15	ug/L	100
121) 1,2,3-trichlorobenzene	18.237	180	171204	49.54	ug/L	99
122) hexachloroethane	16.538	201	75246	44.07	ug/L	99
123) benzyl chloride	16.019	91	235544	46.25	ug/L	99
124) 2-methylnaphthalene	19.096	142	102455	26.78	ug/L	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\July-2020\7-21\v2e8165-rush\
Data File : 2e162981.d
Acq On : 20 Jul 2020 5:20 pm
Operator : krizhkac
Sample : jd10196-7msd Inst : VOAMS2E
Misc : MS44511,V2E8165,5,,,,10
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 21 01:02:28 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Jul 16 11:01:59 2020
Response via : Initial Calibration



Manual Integration Approval Summary

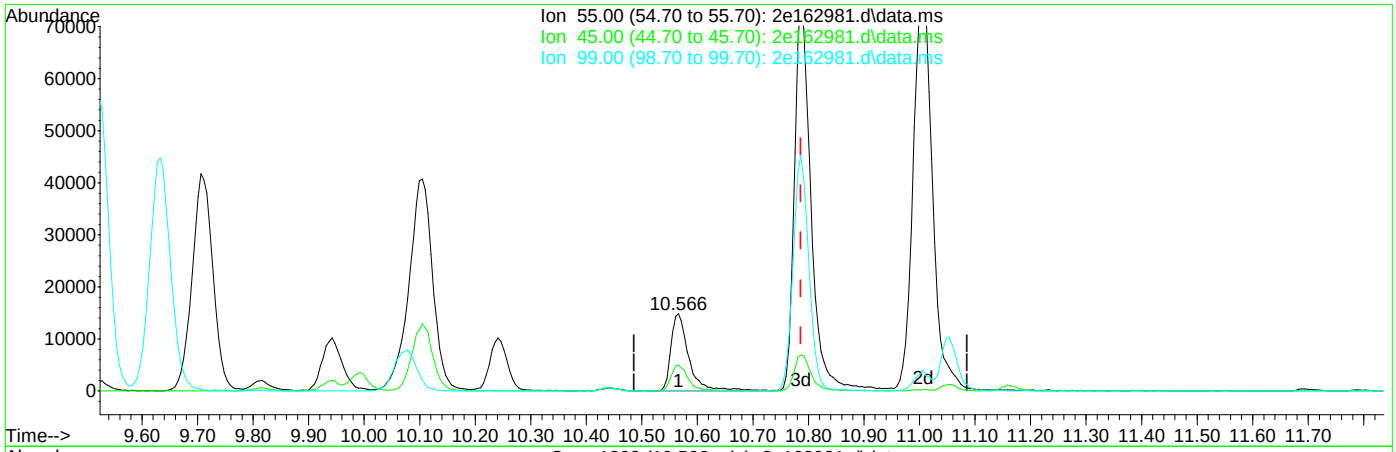
Sample Number: JD10196-7MSD
Lab FileID: 2E162981.D
Injection Time: 07/20/20 17:20
Method: SW846 8260C
Analyst approved: 07/21/20 01:20 Lotus Acosta
Supervisor approved: 07/21/20 11:21 MoHui Huang

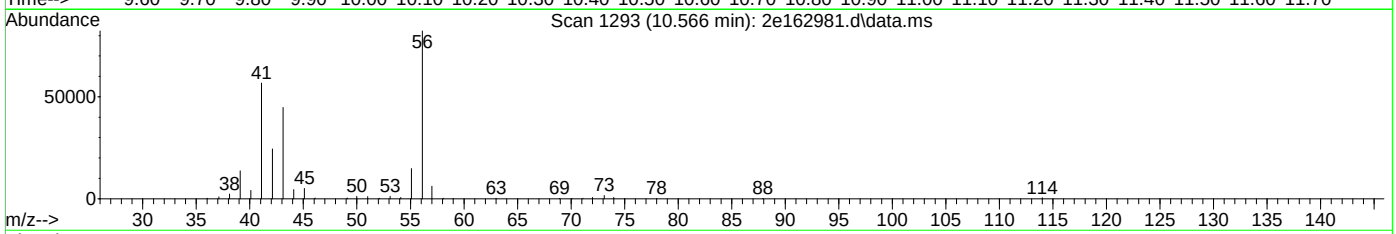
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Acrylate	140-88-5		10.79	Missed peak

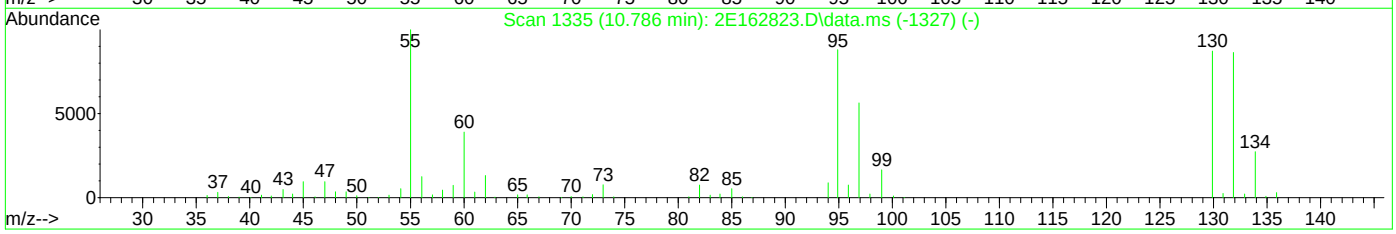
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\July-2020\7-21\v2e8165-rush\
Data File : 2e162981.d
Acq On : 20 Jul 2020 5:20 pm
Operator : krizhkac
Sample : jd10196-7msd Inst : VOAMS2E
Misc : MS44511,V2E8165,5,,,,10
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 20 18:07:24 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Jul 16 11:01:59 2020
Response via : Initial Calibration







TIC: 2e162981.d\data.ms

(61) ethyl acrylate

10.566min (-0.220) 9.72ug/L

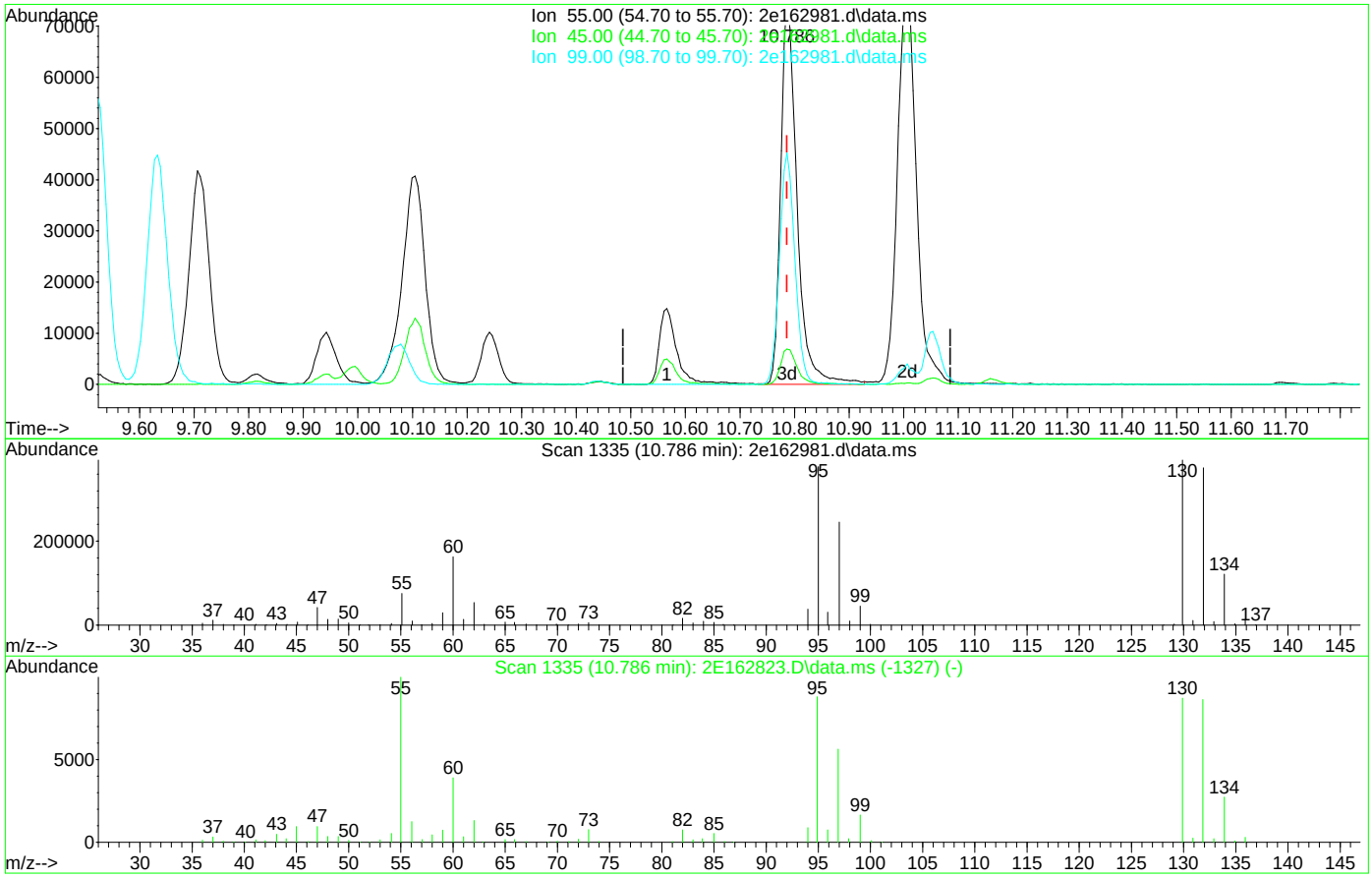
response 33488

Ion	Exp%	Act%
55.00	100	100
45.00	9.40	33.68
99.00	16.40	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\July-2020\7-21\v2e8165-rush\
Data File : 2e162981.d
Acq On : 20 Jul 2020 5:20 pm
Operator : krizhkac
Sample : jd10196-7msd Inst : VOAMS2E
Misc : MS44511,V2E8165,5,,,,10
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 20 18:07:24 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Jul 16 11:01:59 2020
Response via : Initial Calibration



TIC: 2e162981.d\data.ms

(61) ethyl acrylate

10.786min (+0.000) 45.01ug/L m

response 154992

Ion	Exp%	Act%
55.00	100	100
45.00	9.40	9.23
99.00	16.40	60.20#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\janellac\07-28-2020\v4d4597\
Data File : 4d103640.d
Acq On : 27 Jul 2020 4:08 pm
Operator : krizhkac
Sample : jd10241-2ms Inst : MS4D
Misc : MS44522,V4D4597,5,,,,1
ALS Vial : 17 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Results File: M4D4496.RES
Quant Time: Jul 27 23:10:10 2020
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 16:29:00 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	8.640	65	219251	500.00	ug/L		0.00
5) pentafluorobenzene	11.126	168	240289	50.00	ug/L		0.00
51) 1,4-difluorobenzene	12.017	114	344190	50.00	ug/L		0.00
73) chlorobenzene-d5	14.911	117	271500	50.00	ug/L		0.00
96) 1,4-dichlorobenzene-d4	17.013	152	124378	50.00	ug/L		0.00
System Monitoring Compounds							
43) dibromofluoromethane (s)	11.131	113	117678	51.01	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 102.02%				
52) 1,2-dichloroethane-d4 (s)	11.555	65	104691	43.68	ug/L		0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 87.36%				
74) toluene-d8 (s)	13.553	98	352024	48.03	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 96.06%				
97) 4-bromofluorobenzene (s)	15.949	95	119112	47.46	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 94.92%				
Target Compounds							Qvalue
2) tertiary butyl alcohol	8.771	59	114612	231.97	ug/L		96
3) ethanol	7.183	45	228560	4477.90	ug/L		99
4) 1,4-dioxane	12.672	88	50558	1250.31	ug/L		92
7) dichlorodifluoromethane	4.603	85	143692	70.86	ug/L		98
8) chloromethane	5.117	50	97541	48.96	ug/L		99
9) vinyl chloride	5.358	62	119387	59.45	ug/L		100
10) bromomethane	6.139	94	22145	33.39	ug/L		95
11) chloroethane	6.381	64	73145	59.50	ug/L		98
12) trichlorofluoromethane	6.947	101	169889	59.36	ug/L		95
13) vinyl bromide	6.800	106	56273	41.41	ug/L		96
14) ethyl ether	7.476	74	48570	46.57	ug/L		92
15) acrolein	7.686	56	17206	38.64	ug/L		95
16) freon 113	7.933	151	68630	54.41	ug/L		97
17) 1,1-dichloroethene	7.938	96	82858	49.61	ug/L		86
18) acetone	7.938	43	145674	164.30	ug/L		91
19) acetonitrile	8.378	41	179375	415.30	ug/L		98
20) iodomethane	8.216	142	33445	33.15	ug/L		94
21) carbon disulfide	8.383	76	186589	41.95	ug/L		96
22) methylene chloride	8.709	84	89046	47.43	ug/L		91
23) methyl acetate	8.509	43	93388	40.50	ug/L		98
24) methyl tert butyl ether	9.144	73	248870	43.81	ug/L		100
25) trans-1,2-dichloroethene	9.170	96	87385	48.96	ug/L		89
26) di-isopropyl ether	9.831	45	265968	43.72	ug/L		96
27) 2-butanone	10.507	72	69027	182.57	ug/L	#	85
28) 1,1-dichloroethane	9.768	63	189296	57.44	ug/L		99
29) chloroprene	9.920	53	113289	43.96	ug/L		89
30) acrylonitrile	9.034	53	43018	44.60	ug/L		99
31) hexane	9.589	56	57739	51.48	ug/L		95
32) vinyl acetate	9.773	86	21894	45.56	ug/L	#	66
33) ethyl tert-butyl ether	10.323	59	166118	28.02	ug/L		98
34) ethyl acetate	10.565	70	14916	45.29	ug/L	#	80
35) 2,2-dichloropropane	10.586	77	112116	43.54	ug/L		93
36) cis-1,2-dichloroethene	10.554	96	102134	50.86	ug/L		88
37) methyl acrylate	10.638	55	107945	44.15	ug/L		99
38) propionitrile	10.559	54	202158	442.56	ug/L		99
39) bromochloromethane	10.869	128	50503	52.35	ug/L		91
40) tetrahydrofuran	10.942	72	19017	46.51	ug/L		88
41) chloroform	10.932	85	99685	43.62	ug/L		98
42) t-butyl formate	11.015	59	4219	1.93	ug/L		93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\janellac\07-28-2020\v4d4597\
Data File : 4d103640.d
Acq On : 27 Jul 2020 4:08 pm
Operator : krizhkac
Sample : jd10241-2ms Inst : MS4D
Misc : MS44522,V4D4597,5,,,,1
ALS Vial : 17 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Results File: M4D4496.RES
Quant Time: Jul 27 23:10:10 2020
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 16:29:00 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) methacrylonitrile	10.790	67	49564	46.77	ug/L		91
45) 1,1,1-trichloroethane	11.241	97	136826	51.00	ug/L		96
46) cyclohexane	11.351	84	142555	67.61	ug/L	#	81
47) 1,1-dichloropropene	11.424	75	113303	47.63	ug/L		96
48) isobutyl alcohol	11.351	74	9660	550.42	ug/L	#	94
49) carbon tetrachloride	11.461	117	117188	49.54	ug/L		99
50) tert amyl alcohol	11.503	55	33955	232.59	ug/L		96
53) n-butyl alcohol	12.085	56	289003	2555.82	ug/L		93
54) 2,2,4-trimethylpentane	11.749	57	52987	13.73	ug/L		82
55) benzene	11.671	78	322458	47.20	ug/L		99
56) tert-amyl methyl ether	11.734	87	41097	31.73	ug/L		94
57) heptane	11.907	71	54238	57.52	ug/L		96
58) isopropyl acetate	11.597	87	25607	47.38	ug/L	#	65
59) 1,2-dichloroethane	11.639	62	103786	39.01	ug/L		98
60) trichloroethene	12.352	130	91872	52.89	ug/L		98
61) ethyl acrylate	12.337	55	135493	43.67	ug/L		99
62) 2-nitropropane	13.003	43	28985	40.05	ug/L		98
64) methyl methacrylate	12.588	100	28952	48.21	ug/L	#	81
65) 1,2-dichloropropane	12.573	63	82647	48.15	ug/L		100
66) dibromomethane	12.698	93	57946	48.64	ug/L		90
67) methylcyclohexane	12.604	83	123730	55.67	ug/L		92
68) bromodichloromethane	12.819	83	112607	48.35	ug/L		98
69) epichlorohydrin	13.139	57	34652	112.05	ug/L		99
70) cis-1,3-dichloropropene	13.254	75	129966	48.32	ug/L		93
71) 4-methyl-2-pentanone	13.349	58	180604	187.33	ug/L		91
72) 3-methyl-1-butanol	13.333	70	107268	1108.84	ug/L		91
75) toluene	13.616	92	187739	47.69	ug/L		99
76) trans-1,3-dichloropropene	13.752	75	113980	44.96	ug/L		97
77) ethyl methacrylate	13.773	69	112318	44.86	ug/L		95
78) 1,1,2-trichloroethane	13.941	83	65022	48.27	ug/L		96
79) tetrachloroethene	14.161	164	72002	49.46	ug/L		100
80) 1,3-dichloropropane	14.114	76	117310	45.46	ug/L		88
81) 2-hexanone	14.114	58	187801	181.52	ug/L		96
82) butyl acetate	14.198	56	64582	42.85	ug/L		91
83) dibromochloromethane	14.355	129	93393	50.97	ug/L		100
84) 1,2-dibromoethane	14.497	107	122449	59.88	ug/L		99
85) n-butyl ether	14.890	57	269105	41.43	ug/L		100
86) chlorobenzene	14.937	112	198931	47.35	ug/L		98
87) 1,1,1,2-tetrachloroethane	14.984	131	77746	50.89	ug/L		99
88) ethylbenzene	15.000	91	321332	46.72	ug/L		99
89) m,p-xylene	15.100	106	253523	98.89	ug/L		95
90) o-xylene	15.472	106	121079	48.39	ug/L		96
91) styrene	15.472	104	201902	48.37	ug/L		97
92) bromoform	15.682	173	69989	50.66	ug/L		99
93) butyl acrylate	15.299	55	155409	43.20	ug/L		98
94) isopropylbenzene	15.792	105	292542	48.31	ug/L		98
95) cis-1,4-dichloro-2-butene	15.802	88	34758	39.07	ug/L		94
98) bromobenzene	16.133	156	86086	46.18	ug/L		96
99) 1,1,2,2-tetrachloroethane	16.007	83	112187	44.29	ug/L		98
100) trans-1,4-dichloro-2-b...	16.049	53	24023	35.68	ug/L		86
101) 1,2,3-trichloropropane	16.080	110	29807	42.82	ug/L		99
102) n-propylbenzene	16.159	91	336756	45.64	ug/L		99
103) 2-chlorotoluene	16.285	126	74154	46.23	ug/L		92
104) 4-chlorotoluene	16.369	91	200897	44.17	ug/L		98
105) 1,3,5-trimethylbenzene	16.295	105	233676	46.44	ug/L		98
106) tert-butylbenzene	16.620	134	44481	47.87	ug/L	#	87
107) 1,2,4-trimethylbenzene	16.652	105	239237	47.08	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\janellac\07-28-2020\v4d4597\
Data File : 4d103640.d
Acq On : 27 Jul 2020 4:08 pm
Operator : krizhkac
Sample : jd10241-2ms Inst : MS4D
Misc : MS44522,V4D4597,5,,,,1
ALS Vial : 17 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Results File: M4D4496.RES
Quant Time: Jul 27 23:10:10 2020
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 16:29:00 2020
Response via : Initial Calibration

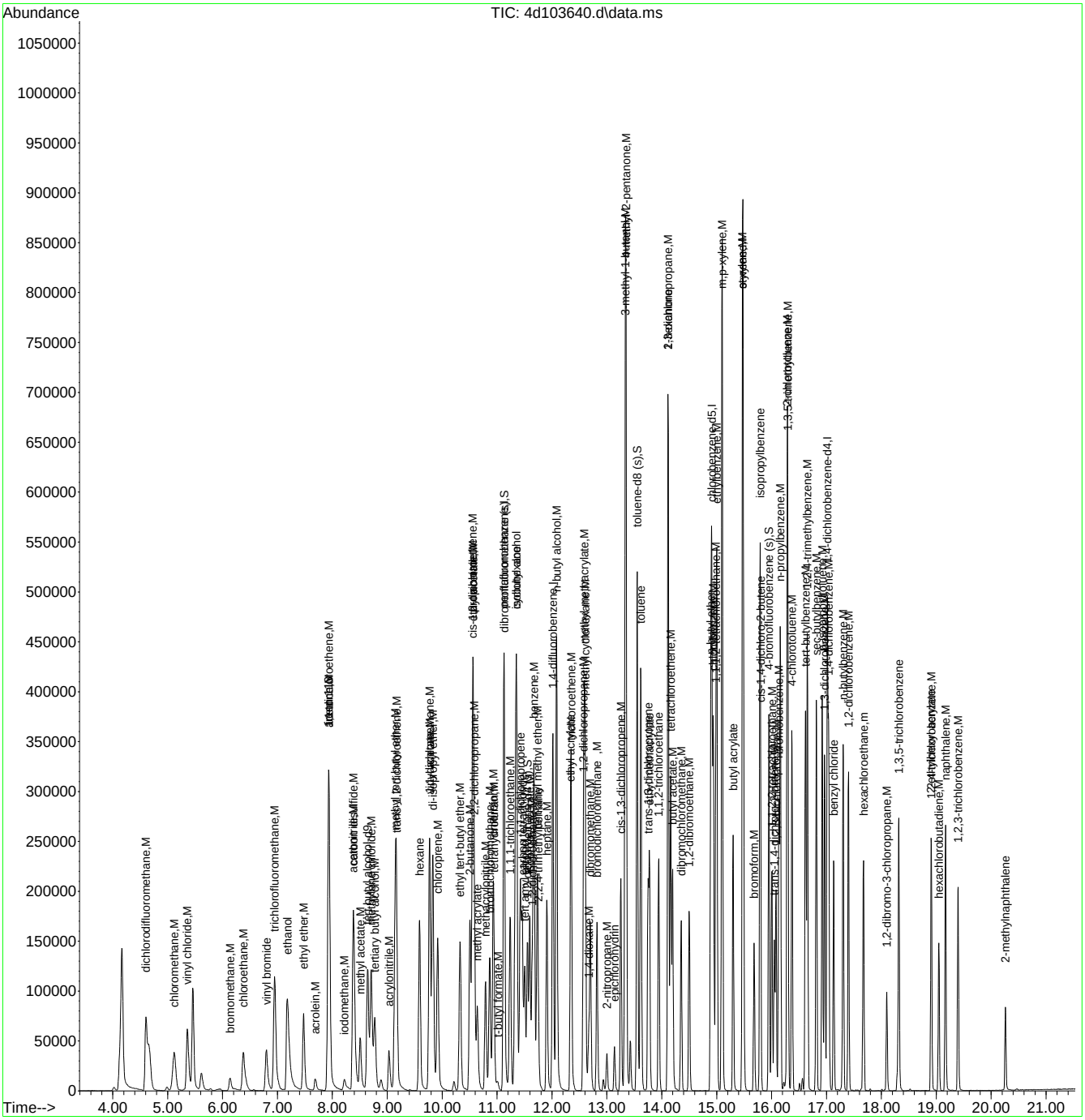
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
108) sec-butylbenzene	16.814	105	270067	46.91	ug/L	99
109) 1,3-dichlorobenzene	16.966	146	140177	45.83	ug/L	99
110) p-isopropyltoluene	16.924	119	225695	47.28	ug/L	98
111) 1,4-dichlorobenzene	17.040	146	140675	45.23	ug/L	98
112) benzyl chloride	17.129	91	160995	41.91	ug/L	98
113) 1,2-dichlorobenzene	17.401	146	133211	46.06	ug/L	98
114) n-butylbenzene	17.302	92	105459	48.43	ug/L	100
115) 1,2-dibromo-3-chloropr...	18.099	157	31294	46.87	ug/L	95
116) 1,3,5-trichlorobenzene	18.319	180	91087	48.50	ug/L	99
117) 2-ethylhexyl acrylate	18.906	70	8332	8.83	ug/L	94
118) 1,2,4-trichlorobenzene	18.911	180	75462	48.35	ug/L	97
119) hexachlorobutadiene	19.048	225	32347	45.58	ug/L	98
120) naphthalene	19.168	128	200165	44.60	ug/L	99
121) 1,2,3-trichlorobenzene	19.399	180	68767	48.26	ug/L	97
122) hexachloroethane	17.674	201	40785	48.79	ug/L	98
123) 2-methylnaphthalene	20.259	142	42326	23.70	ug/L	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\janellac\07-28-2020\v4d4597\
Data File : 4d103640.d
Acq On : 27 Jul 2020 4:08 pm
Operator : krizhkac
Sample : jd10241-2ms Inst : MS4D
Misc : MS44522,V4D4597,5,,,,1
ALS Vial : 17 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Results File: M4D4496.RES
Quant Time: Jul 27 23:10:10 2020
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 16:29:00 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\janellac\07-28-2020\v4d4597\
Data File : 4d103641.d
Acq On : 27 Jul 2020 4:37 pm
Operator : krizhkac
Sample : jd10241-2msd Inst : MS4D
Misc : MS44522,V4D4597,5,,,,1
ALS Vial : 18 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Results File: M4D4496.RES
Quant Time: Jul 27 23:10:28 2020
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 16:29:00 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	8.646	65	220772	500.00	ug/L	0.00
5) pentafluorobenzene	11.126	168	238607	50.00	ug/L	0.00
51) 1,4-difluorobenzene	12.017	114	342515	50.00	ug/L	0.00
73) chlorobenzene-d5	14.911	117	272879	50.00	ug/L	0.00
96) 1,4-dichlorobenzene-d4	17.019	152	125086	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	11.126	113	118127	51.57	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 103.14%			
52) 1,2-dichloroethane-d4 (s)	11.556	65	105672	44.31	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 88.62%			
74) toluene-d8 (s)	13.553	98	353875	48.03	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 96.06%			
97) 4-bromofluorobenzene (s)	15.949	95	120807	47.87	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 95.74%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	8.777	59	118289	237.76	ug/L	96
3) ethanol	7.183	45	229801	4471.20	ug/L	100
4) 1,4-dioxane	12.672	88	50709	1245.41	ug/L	95
7) dichlorodifluoromethane	4.603	85	131993	65.55	ug/L	98
8) chloromethane	5.117	50	90776	45.88	ug/L	98
9) vinyl chloride	5.358	62	108678	54.50	ug/L	98
10) bromomethane	6.139	94	27997	40.98	ug/L	98
11) chloroethane	6.375	64	66525	54.49	ug/L	97
12) trichlorofluoromethane	6.947	101	155672	54.78	ug/L	96
13) vinyl bromide	6.795	106	51504	38.17	ug/L	97
14) ethyl ether	7.476	74	47816	46.17	ug/L	97
15) acrolein	7.686	56	17040	38.53	ug/L	93
16) freon 113	7.933	151	69196	55.24	ug/L	97
17) 1,1-dichloroethene	7.938	96	82881	49.97	ug/L	86
18) acetone	7.933	43	145149	164.86	ug/L	94
19) acetonitrile	8.378	41	180859	421.69	ug/L	100
20) iodomethane	8.221	142	42455	42.37	ug/L	93
21) carbon disulfide	8.389	76	186582	42.25	ug/L	97
22) methylene chloride	8.709	84	89264	47.88	ug/L	94
23) methyl acetate	8.504	43	92420	40.36	ug/L	96
24) methyl tert butyl ether	9.144	73	248217	44.01	ug/L	99
25) trans-1,2-dichloroethene	9.170	96	87110	49.15	ug/L	89
26) di-isopropyl ether	9.831	45	264151	43.72	ug/L	95
27) 2-butanone	10.507	72	68578	182.66	ug/L #	83
28) 1,1-dichloroethane	9.768	63	185568	56.70	ug/L	100
29) chloroprene	9.920	53	113387	44.31	ug/L	90
30) acrylonitrile	9.034	53	43150	45.05	ug/L	98
31) hexane	9.589	56	56994	51.18	ug/L	98
32) vinyl acetate	9.773	86	22305	46.74	ug/L #	65
33) ethyl tert-butyl ether	10.323	59	164892	28.01	ug/L	97
34) ethyl acetate	10.565	70	15102	46.17	ug/L #	74
35) 2,2-dichloropropane	10.586	77	108514	42.44	ug/L	93
36) cis-1,2-dichloroethene	10.554	96	101219	50.76	ug/L	86
37) methyl acrylate	10.638	55	107917	44.45	ug/L	98
38) propionitrile	10.559	54	203890	449.50	ug/L	97
39) bromochloromethane	10.869	128	50035	52.23	ug/L	87
40) tetrahydrofuran	10.942	72	18920	46.60	ug/L	89
41) chloroform	10.932	85	97974	43.18	ug/L	95
42) t-butyl formate	11.010	59	3498	1.61	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\janellac\07-28-2020\v4d4597\
Data File : 4d103641.d
Acq On : 27 Jul 2020 4:37 pm
Operator : krizhkac
Sample : jd10241-2msd Inst : MS4D
Misc : MS44522,V4D4597,5,,,,1
ALS Vial : 18 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Results File: M4D4496.RES
Quant Time: Jul 27 23:10:28 2020
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 16:29:00 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) methacrylonitrile	10.790	67	49455	47.00	ug/L		88
45) 1,1,1-trichloroethane	11.236	97	136183	51.12	ug/L		97
46) cyclohexane	11.351	84	129568	61.89	ug/L	#	85
47) 1,1-dichloropropene	11.424	75	112524	47.64	ug/L		97
48) isobutyl alcohol	11.356	74	9673	555.05	ug/L	#	77
49) carbon tetrachloride	11.461	117	115967	49.37	ug/L		98
50) tert amyl alcohol	11.503	55	34090	235.16	ug/L		99
53) n-butyl alcohol	12.085	56	291231	2588.12	ug/L		94
54) 2,2,4-trimethylpentane	11.749	57	53297	13.88	ug/L		82
55) benzene	11.671	78	319775	47.04	ug/L		99
56) tert-amyl methyl ether	11.734	87	40620	31.51	ug/L		98
57) heptane	11.907	71	53693	57.22	ug/L		96
58) isopropyl acetate	11.597	87	25977	48.30	ug/L	#	68
59) 1,2-dichloroethane	11.639	62	103022	38.91	ug/L		98
60) trichloroethene	12.352	130	91511	52.94	ug/L		98
61) ethyl acrylate	12.337	55	133937	43.38	ug/L		99
62) 2-nitropropane	13.003	43	28650	39.78	ug/L		97
64) methyl methacrylate	12.588	100	29218	48.89	ug/L	#	77
65) 1,2-dichloropropane	12.573	63	82070	48.05	ug/L		100
66) dibromomethane	12.698	93	57359	48.38	ug/L		92
67) methylcyclohexane	12.604	83	122413	55.34	ug/L		94
68) bromodichloromethane	12.819	83	112363	48.49	ug/L		98
69) epichlorohydrin	13.139	57	33690	109.47	ug/L		99
70) cis-1,3-dichloropropene	13.254	75	128765	48.10	ug/L		92
71) 4-methyl-2-pentanone	13.349	58	179891	187.51	ug/L		91
72) 3-methyl-1-butanol	13.333	70	108028	1122.15	ug/L		90
75) toluene	13.621	92	185490	46.88	ug/L		99
76) trans-1,3-dichloropropene	13.752	75	114549	44.95	ug/L		98
77) ethyl methacrylate	13.779	69	112271	44.62	ug/L		93
78) 1,1,2-trichloroethane	13.946	83	65170	48.13	ug/L		97
79) tetrachloroethene	14.161	164	72262	49.38	ug/L		99
80) 1,3-dichloropropane	14.114	76	116327	44.85	ug/L		89
81) 2-hexanone	14.114	58	186117	178.99	ug/L		99
82) butyl acetate	14.198	56	64577	42.63	ug/L		91
83) dibromochloromethane	14.355	129	92082	50.00	ug/L		99
84) 1,2-dibromoethane	14.497	107	119110	57.96	ug/L		100
85) n-butyl ether	14.890	57	270980	41.51	ug/L		99
86) chlorobenzene	14.937	112	200489	47.48	ug/L		98
87) 1,1,1,2-tetrachloroethane	14.984	131	77258	50.31	ug/L		99
88) ethylbenzene	15.005	91	319399	46.20	ug/L		99
89) m,p-xylene	15.100	106	251483	97.60	ug/L		93
90) o-xylene	15.472	106	119919	47.69	ug/L		98
91) styrene	15.472	104	203354	48.47	ug/L		95
92) bromoform	15.682	173	70452	50.74	ug/L		98
93) butyl acrylate	15.299	55	156536	43.30	ug/L		97
94) isopropylbenzene	15.792	105	293903	48.29	ug/L		98
95) cis-1,4-dichloro-2-butene	15.802	88	34198	38.25	ug/L		95
98) bromobenzene	16.133	156	86809	46.30	ug/L		99
99) 1,1,2,2-tetrachloroethane	16.007	83	111866	43.91	ug/L		100
100) trans-1,4-dichloro-2-b...	16.049	53	23684	34.98	ug/L		83
101) 1,2,3-trichloropropane	16.080	110	29883	42.68	ug/L		97
102) n-propylbenzene	16.159	91	337001	45.41	ug/L		99
103) 2-chlorotoluene	16.285	126	76084	47.16	ug/L		91
104) 4-chlorotoluene	16.369	91	203183	44.42	ug/L		99
105) 1,3,5-trimethylbenzene	16.295	105	233437	46.13	ug/L		99
106) tert-butylbenzene	16.620	134	45002	48.15	ug/L	#	88
107) 1,2,4-trimethylbenzene	16.652	105	234597	45.91	ug/L		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\janellac\07-28-2020\v4d4597\
Data File : 4d103641.d
Acq On : 27 Jul 2020 4:37 pm
Operator : krizhkac
Sample : jd10241-2msd Inst : MS4D
Misc : MS44522,V4D4597,5,,,,1
ALS Vial : 18 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Results File: M4D4496.RES
Quant Time: Jul 27 23:10:28 2020
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 16:29:00 2020
Response via : Initial Calibration

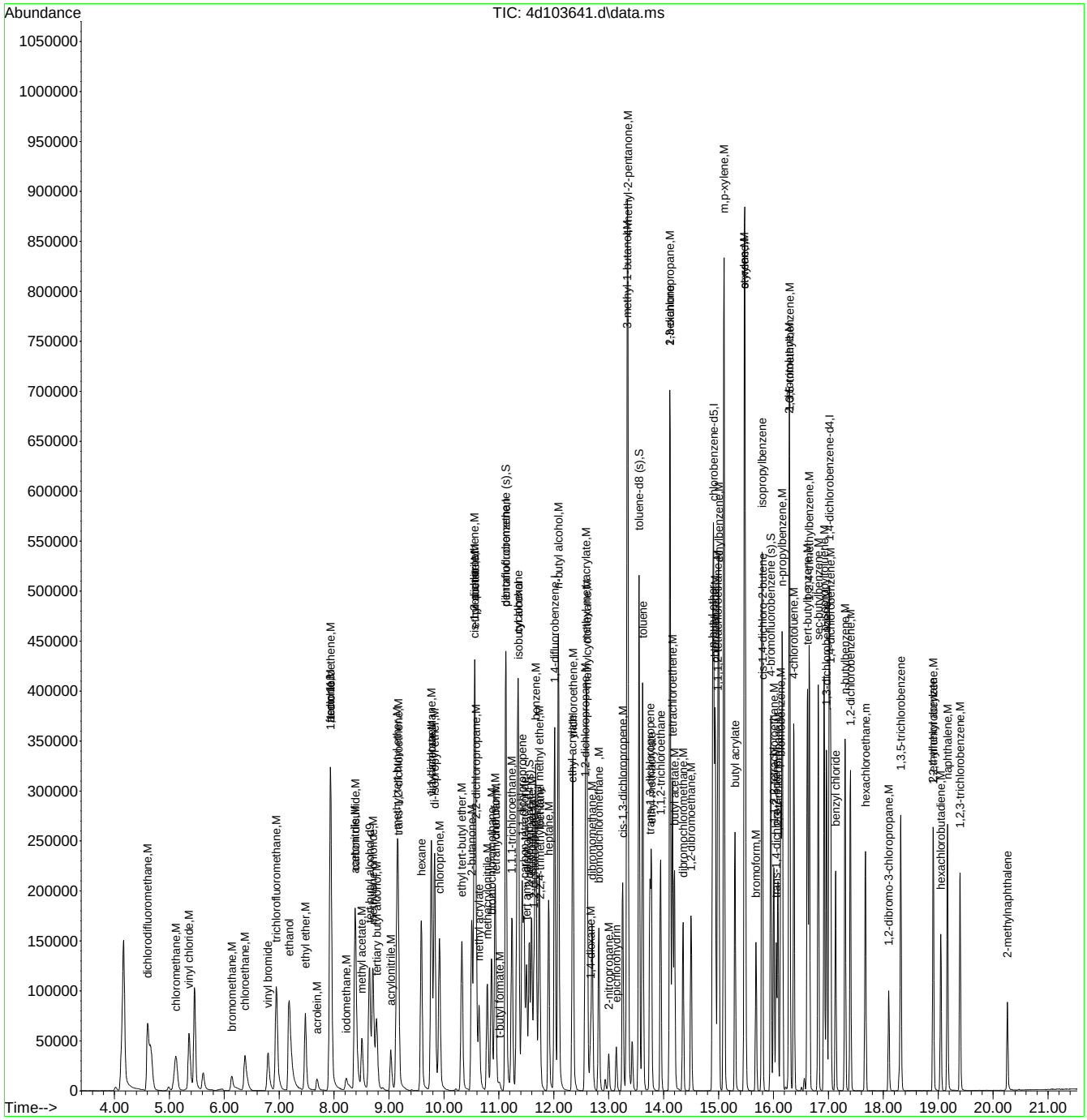
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
108) sec-butylbenzene	16.814	105	276622	47.77	ug/L	99
109) 1,3-dichlorobenzene	16.966	146	141378	45.96	ug/L	99
110) p-isopropyltoluene	16.924	119	230939	48.10	ug/L	98
111) 1,4-dichlorobenzene	17.040	146	143018	45.73	ug/L	98
112) benzyl chloride	17.134	91	157450	40.75	ug/L	97
113) 1,2-dichlorobenzene	17.401	146	134577	46.27	ug/L	98
114) n-butylbenzene	17.302	92	107572	49.12	ug/L	98
115) 1,2-dibromo-3-chloropr...	18.099	157	31800	47.36	ug/L	95
116) 1,3,5-trichlorobenzene	18.319	180	94008	49.77	ug/L	99
117) 2-ethylhexyl acrylate	18.906	70	8744	9.18	ug/L	90
118) 1,2,4-trichlorobenzene	18.911	180	77357	49.29	ug/L	99
119) hexachlorobutadiene	19.048	225	33707	47.23	ug/L	97
120) naphthalene	19.168	128	207246	45.92	ug/L	100
121) 1,2,3-trichlorobenzene	19.399	180	71992	50.24	ug/L	99
122) hexachloroethane	17.674	201	41888	49.82	ug/L	98
123) 2-methylnaphthalene	20.259	142	45322	25.23	ug/L	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\janellac\07-28-2020\v4d4597\
Data File : 4d103641.d
Acq On : 27 Jul 2020 4:37 pm
Operator : krizhkac
Sample : jd10241-2msd Inst : MS4D
Misc : MS44522,V4D4597,5,,,,1
ALS Vial : 18 Sample Multiplier: 1

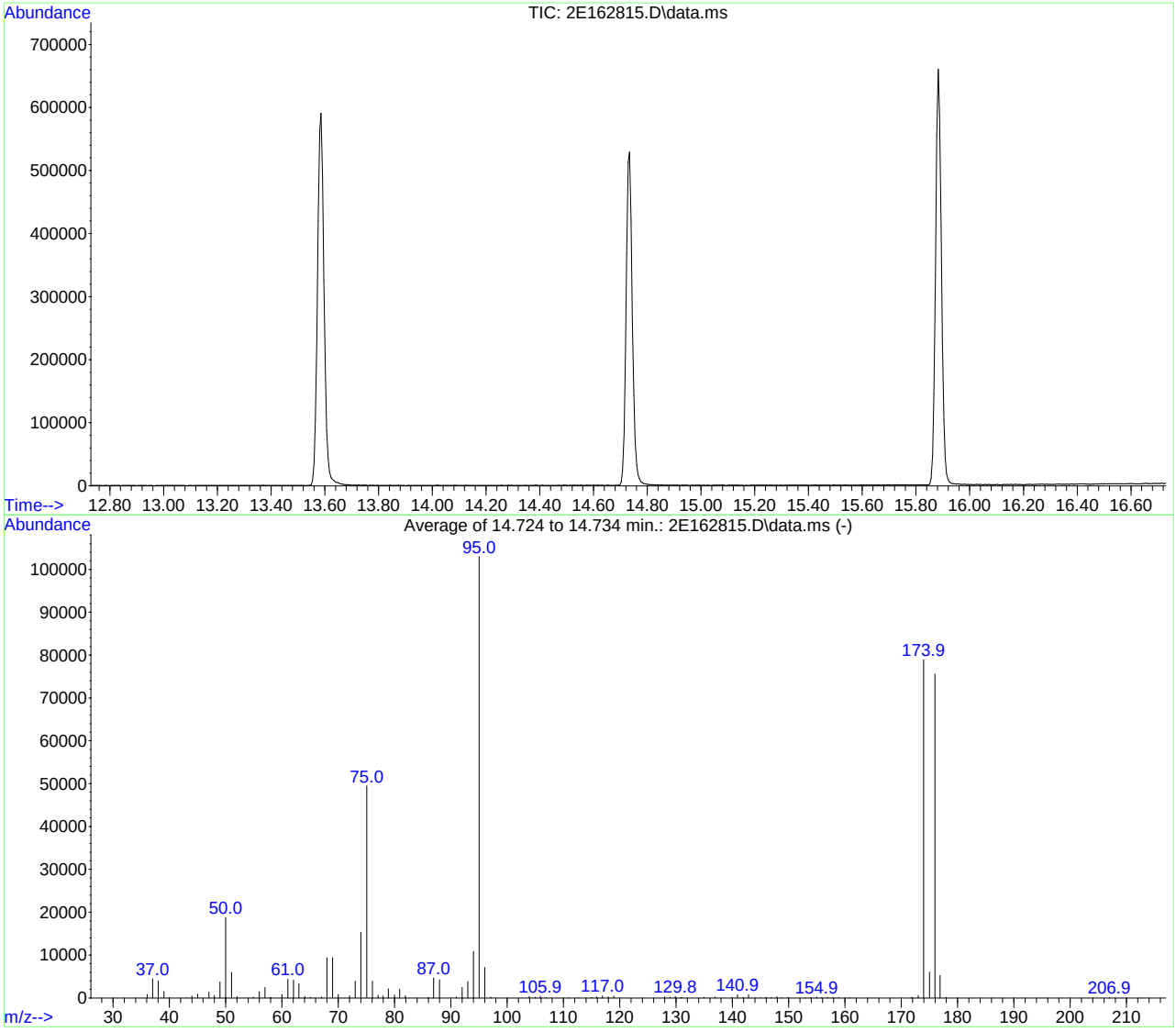
Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Results File: M4D4496.RES
Quant Time: Jul 27 23:10:28 2020
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 16:29:00 2020
Response via : Initial Calibration



SW-846 Method 8260

Data File : C:\msdchem\1\data\V2E8157\2E162815.D Vial: 2
Acq On : 14 Jul 2020 5:48 pm Operator: brittank
Sample : bfb Inst : VOAMS2E
Misc : MS44041,V2E8157,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M2E8157.M (RTE Integrator)
Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM



AutoFind: Scans 2086, 2087, 2088; Background Corrected with Scan 2078

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.2	18733	PASS
75	95	30	60	48.1	49488	PASS
95	95	100	100	100.0	102965	PASS
96	95	5	9	6.9	7136	PASS
173	174	0.00	2	0.8	599	PASS
174	95	50	120	76.6	78920	PASS
175	174	5	9	7.6	6023	PASS
176	174	95	101	95.7	75560	PASS
177	176	5	9	6.9	5239	PASS

2E162815.D M2E8157.M Wed Jul 15 11:40:06 2020

Average of 14.724 to 14.734 min.: 2E162815.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	806	50.00	18733	63.00	3334	76.05	3933
37.05	4494	51.05	5957	64.05	327	77.05	641
38.05	3996	52.05	305	65.05	159	77.95	442
39.05	1545	54.95	215	67.05	211	78.90	2119
39.95	7	56.00	1454	68.00	9374	80.00	685
43.00	38	57.00	2406	69.00	9418	80.90	2004
44.00	459	57.90	82	70.00	810	81.90	490
45.00	856	58.10	41	72.00	501	86.00	101
47.05	1371	60.00	814	73.00	3927	86.95	4642
48.00	576	61.05	4374	74.00	15304	88.00	4230
49.00	3736	62.05	4191	75.05	49488	90.95	271

Average of 14.724 to 14.734 min.: 2E162815.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
92.00	2427	112.70	28	134.95	124	149.90	78
93.00	3803	115.00	90	136.90	192	152.95	59
94.00	10887	115.90	246	139.90	25	153.90	49
95.00	102965	116.95	487	140.90	775	154.95	211
96.00	7136	117.95	259	141.90	86	155.80	27
97.05	231	118.95	439	142.85	762	156.90	154
103.90	319	127.95	272	145.00	59	157.80	28
104.95	138	128.95	171	145.95	138	158.90	86
105.90	369	129.85	314	146.95	117	160.80	48
107.00	31	130.80	65	147.90	256	171.85	154
110.90	26	131.00	36	148.80	26	173.00	599

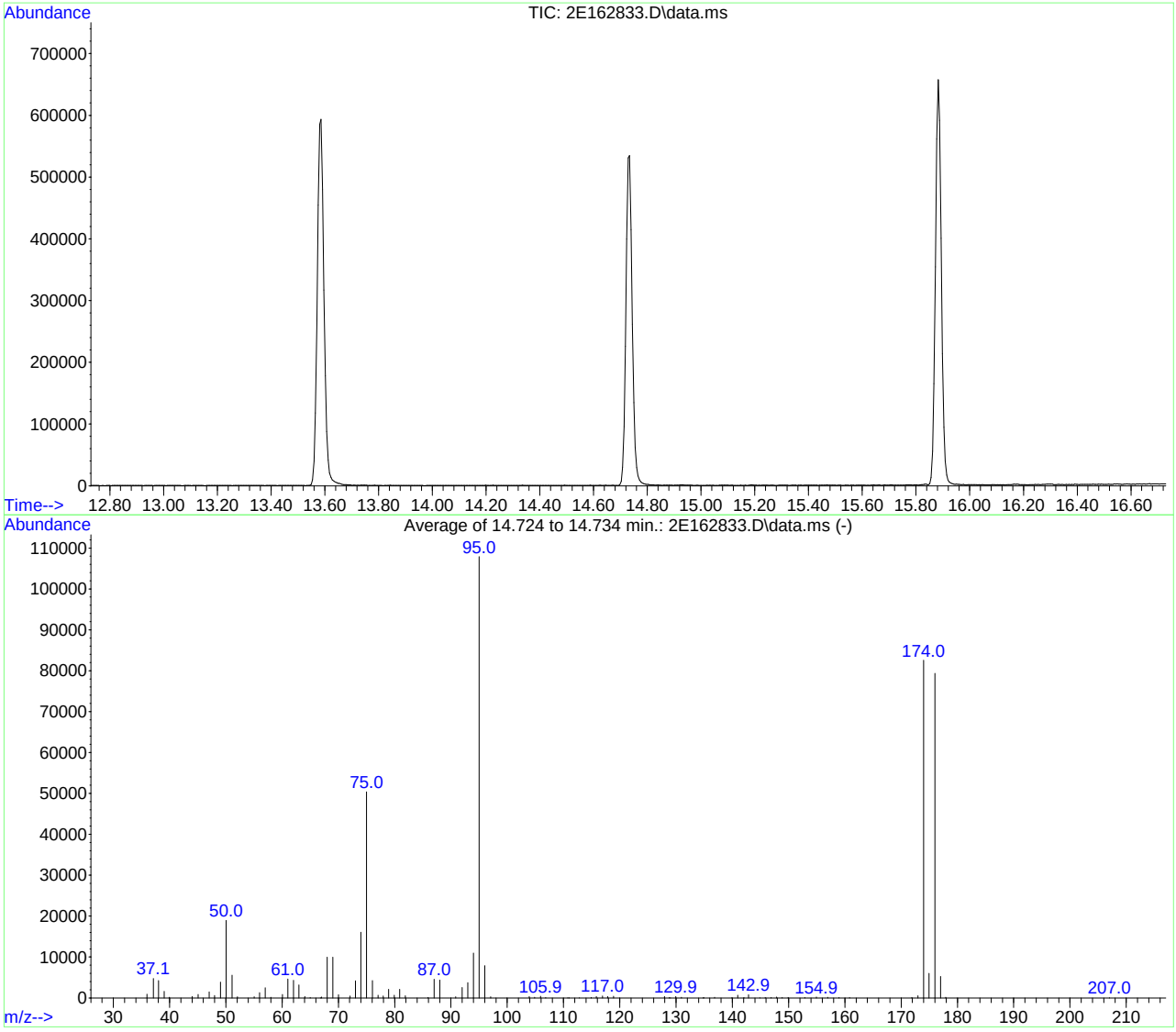
Average of 14.724 to 14.734 min.: 2E162815.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
173.95	78920						
175.00	6023						
175.95	75560						
176.90	5239						
177.95	137						
206.95	8						

SW-846 Method 8260

Data File : C:\msdchem\1\data\V2E8157\2E162833.D Vial: 20
Acq On : 15 Jul 2020 11:51 am Operator: brittank
Sample : bfb2 Inst : VOAMS2E
Misc : MS44041,V2E8157,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M2E8157.M (RTE Integrator)
Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM



AutoFind: Scans 2086, 2087, 2088; Background Corrected with Scan 2078

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.6	18957	PASS
75	95	30	60	46.7	50368	PASS
95	95	100	100	100.0	107877	PASS
96	95	5	9	7.3	7900	PASS
173	174	0.00	2	0.6	526	PASS
174	95	50	120	76.5	82547	PASS
175	174	5	9	7.3	6005	PASS
176	174	95	101	96.1	79341	PASS
177	176	5	9	6.6	5226	PASS

2E162833.D M2E8157.M Wed Jul 15 13:42:32 2020

Average of 14.724 to 14.734 min.: 2E162833.D\data.ms
bfb2
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	893	51.10	5544	65.00	68	77.05	687
37.10	4756	52.05	310	66.80	60	77.95	488
38.05	4224	55.05	265	67.00	192	78.90	2089
39.05	1638	56.00	1276	68.00	9972	79.95	651
39.95	147	57.00	2489	69.00	9968	80.90	2131
44.00	358	58.00	136	70.00	764	81.90	565
45.05	876	60.05	826	72.05	507	85.90	100
47.05	1492	61.00	4645	73.05	4177	87.00	4581
48.00	617	62.00	4306	74.00	16051	88.00	4358
49.05	3880	63.00	3172	75.00	50368	90.85	261
50.05	18957	64.05	326	76.05	4242	92.00	2553

Average of 14.724 to 14.734 min.: 2E162833.D\data.ms
bfb2
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
93.00	3741	112.80	43	134.80	37	148.85	70
94.00	10997	114.90	113	134.95	99	149.90	100
95.00	107877	115.85	338	136.85	176	152.90	68
96.00	7900	116.95	507	139.90	26	154.95	220
97.05	269	117.85	326	140.95	683	156.95	177
103.90	338	118.90	442	142.05	107	158.95	109
104.85	162	127.95	336	142.90	772	160.85	105
105.90	398	128.80	108	144.90	23	171.90	125
106.85	82	129.00	63	145.85	113	173.00	526
110.75	52	129.95	371	146.90	86	174.00	82547
111.00	27	130.95	130	147.85	199	174.95	6005

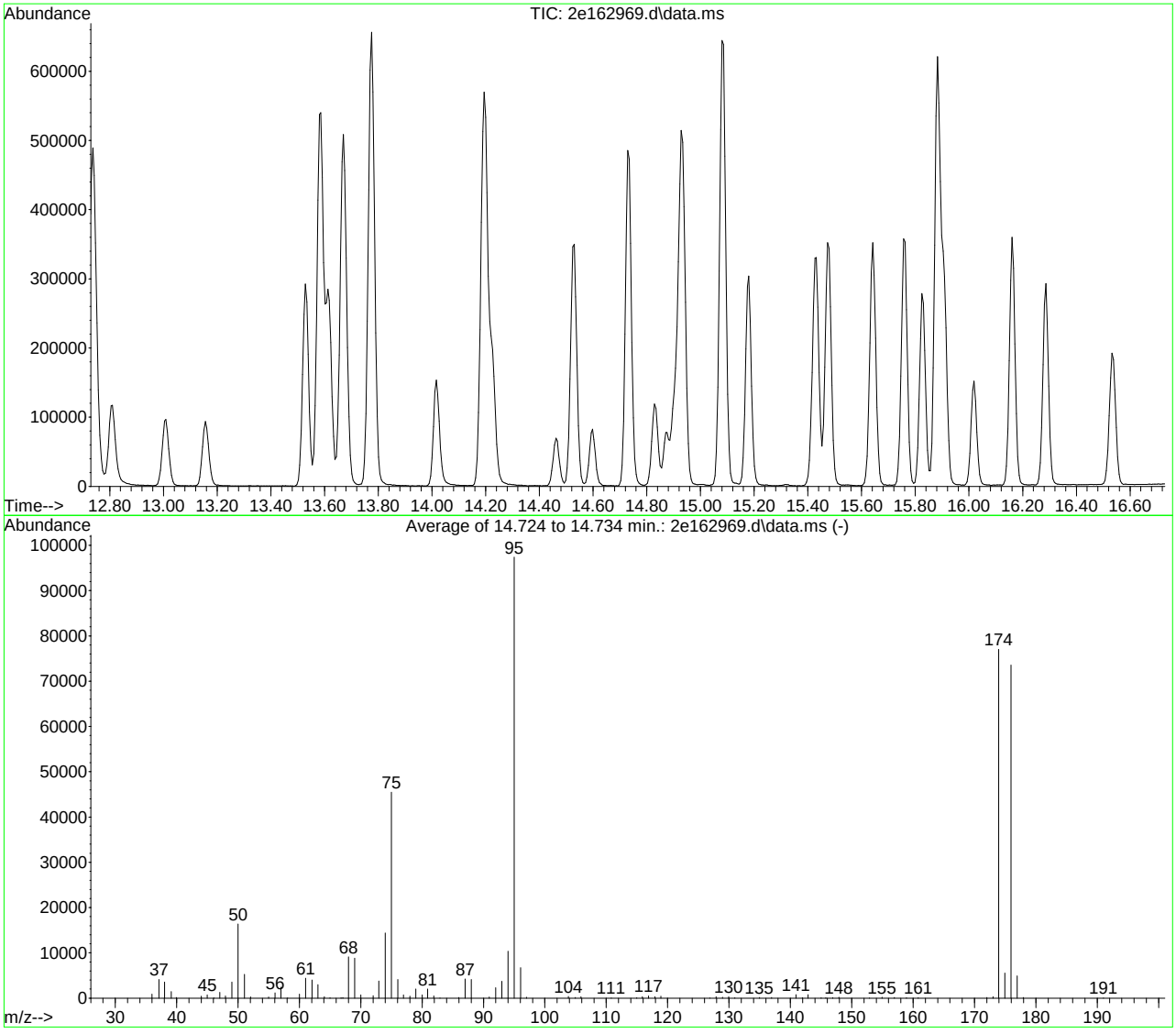
Average of 14.724 to 14.734 min.: 2E162833.D\data.ms
bfb2
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
176.00	79341						
177.00	5226						
177.90	166						
207.00	46						

SW-846 Method 8260

Data File : C:\msdchem\1\data\lo...e8165-rush\2e162969.d Vial: 4
Acq On : 20 Jul 2020 11:05 am Operator: krizhkac
Sample : bfb Inst : VOAMS2E
Misc : MS44525,V2E8165,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M2E8157.M (RTE Integrator)
Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM



AutoFind: Scans 2086, 2087, 2088; Background Corrected with Scan 2078

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.8	16362	PASS
75	95	30	60	46.7	45477	PASS
95	95	100	100	100.0	97384	PASS
96	95	5	9	6.9	6706	PASS
173	174	0.00	2	0.4	338	PASS
174	95	50	120	79.1	77029	PASS
175	174	5	9	7.2	5527	PASS
176	174	95	101	95.5	73595	PASS
177	176	5	9	6.7	4930	PASS

2e162969.d M2E8157.M Tue Jul 21 00:26:58 2020

Average of 14.724 to 14.734 min.: 2e162969.d\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	869	50.00	16362	64.05	296	76.05	4106
37.10	4137	51.05	5230	65.00	101	76.95	699
38.05	3551	52.05	276	66.80	65	78.00	418
39.10	1440	55.00	254	67.10	167	78.95	2015
39.95	171	56.05	1180	68.00	9094	80.00	694
44.00	432	57.00	2424	69.00	8830	80.90	2027
45.00	726	58.10	33	70.00	711	81.90	463
46.10	36	60.00	874	72.00	516	82.90	24
47.05	1290	61.00	4383	72.95	3798	85.95	136
47.95	515	62.05	4024	74.00	14375	87.00	4251
49.00	3544	63.00	2970	75.00	45477	88.00	4146

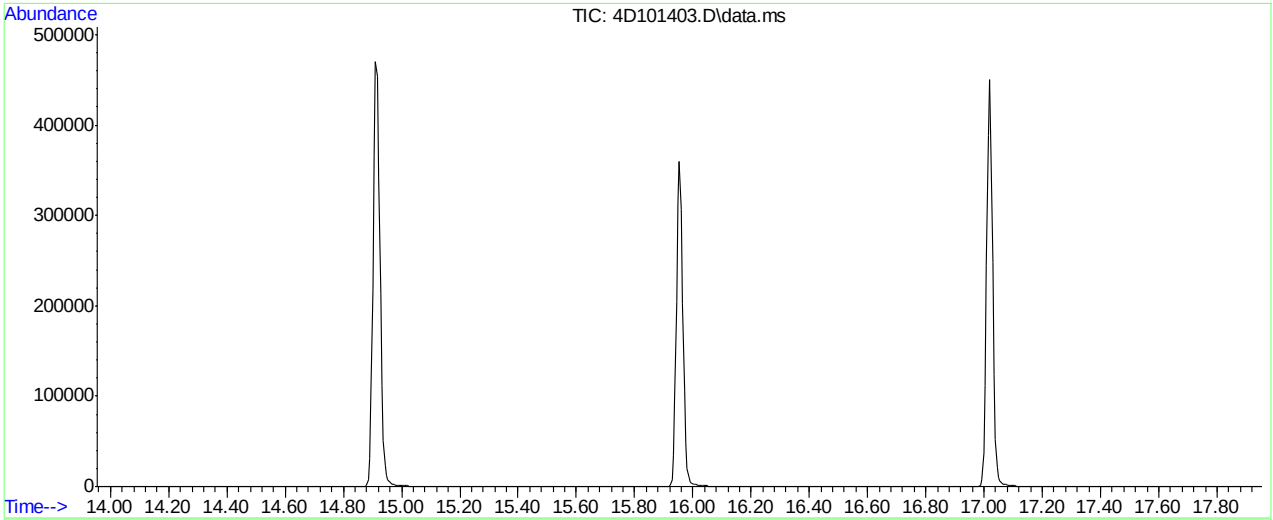
Average of 14.724 to 14.734 min.: 2e162969.d\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
90.95	242	114.95	80	136.95	141	158.90	68
92.00	2322	115.90	294	140.90	791	160.85	75
93.00	3698	116.90	501	141.95	101	172.00	151
94.00	10371	117.95	337	142.90	776	173.00	338
95.00	97384	118.90	434	145.00	108	173.95	77029
96.05	6706	126.90	24	145.75	90	174.95	5527
97.00	179	127.90	297	146.90	77	175.95	73595
103.85	364	128.95	190	147.90	197	176.95	4930
104.95	152	129.95	318	152.90	31	177.95	137
105.90	326	130.95	90	154.95	224	191.00	26
110.80	26	134.95	170	156.95	169		

SW-846 Method 8260

Data File : C:\msdchem\1\data\V4D4496\4D101403.D Vial: 2
Acq On : 16 Apr 2020 3:37 pm Operator: ROBERTS
Sample : BFB Inst : MS4D
Misc : MS42511,V4D4496,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M4D4496.M (RTE Integrator)
Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um



AutoFind: Scans 2396, 2397, 2398; Background Corrected with Scan 2388

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.9	11366	PASS
75	95	30	60	46.4	31219	PASS
95	95	100	100	100.0	67261	PASS
96	95	5	9	6.8	4551	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	91.2	61328	PASS
175	174	5	9	8.0	4897	PASS
176	174	95	101	97.0	59496	PASS
177	176	5	9	6.7	3966	PASS

4D101403.D M4D4496.M Fri Apr 17 16:12:04 2020 RPT1

Average of 15.949 to 15.960 min.: 4D101403.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	510	52.05	106	69.00	6376	80.90	1746
37.00	2785	55.00	119	70.00	444	81.90	355
38.05	2496	56.00	864	72.00	346	87.00	3182
39.05	1007	57.00	1569	73.00	2672	88.00	2873
43.95	441	60.00	559	74.00	10225	90.95	266
45.00	480	61.00	2837	75.00	31219	92.00	1702
47.05	848	62.00	2700	76.00	2692	93.00	2637
48.00	365	63.00	2018	76.95	400	94.00	7472
49.05	2438	64.00	175	78.00	298	95.00	67261
50.00	11366	67.05	175	78.90	1791	96.00	4551
51.05	3471	68.00	6272	79.95	464	103.90	260

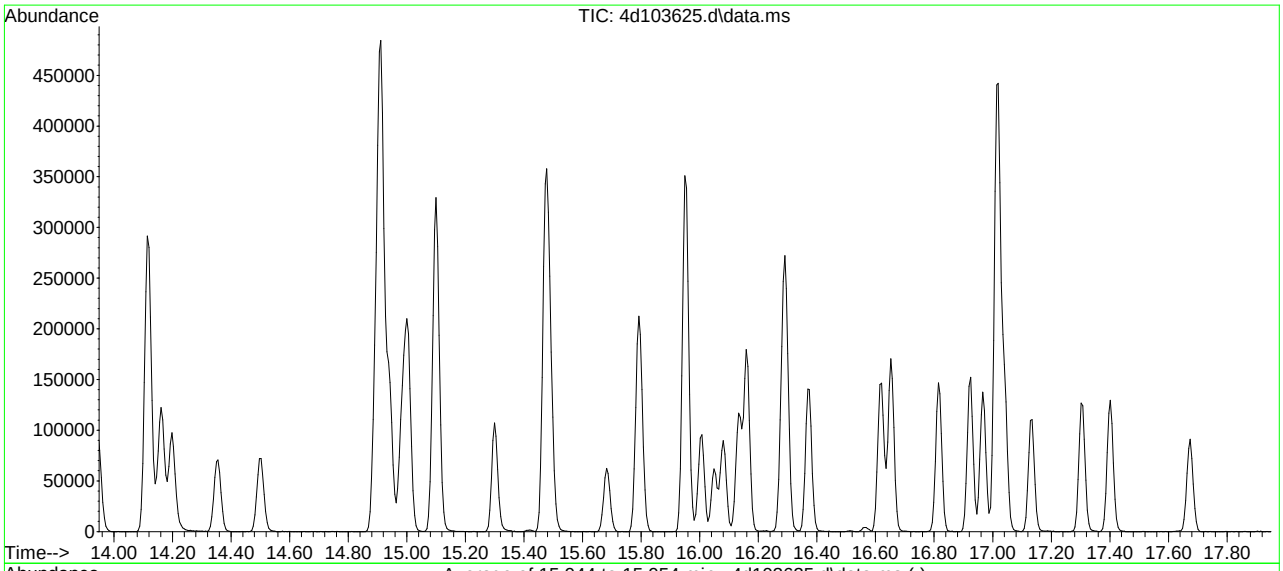
Average of 15.949 to 15.960 min.: 4D101403.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
105.85	275	154.90	68				
115.95	203	173.90	61328				
116.90	405	174.95	4897				
117.90	241	175.90	59496				
118.90	322	176.90	3966				
127.90	233						
129.00	51						
129.85	243						
140.90	666						
142.95	607						
147.90	113						

SW-846 Method 8260

Data File : C:\msdchem\1\data\ja...20\v4d4597\4d103625.d Vial: 2
Acq On : 27 Jul 2020 8:27 am Operator: mariceld
Sample : BFB Inst : MS4D
Misc : MS44684,V4D4597,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M4D4496.M (RTE Integrator)
Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um



AutoFind: Scans 2395, 2396, 2397; Background Corrected with Scan 2388

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.0	10266	PASS
75	95	30	60	42.6	29096	PASS
95	95	100	100	100.0	68379	PASS
96	95	5	9	6.6	4516	PASS
173	174	0.00	2	0.8	483	PASS
174	95	50	120	92.1	62989	PASS
175	174	5	9	7.6	4779	PASS
176	174	95	101	96.1	60512	PASS
177	176	5	9	6.8	4122	PASS

4d103625.d M4D4496.M Mon Jul 27 22:06:23 2020

Average of 15.944 to 15.954 min.: 4d103625.d\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.10	424	51.10	3248	68.10	5760	80.00	444
37.15	2416	52.10	60	69.10	5821	81.00	1502
38.10	2127	55.10	55	70.10	431	82.00	324
39.10	882	56.10	760	72.05	273	87.10	3177
40.10	108	57.10	1485	73.10	2453	88.10	3186
44.10	368	60.10	441	74.10	9275	91.05	211
45.10	476	61.10	2465	75.10	29096	92.10	1589
47.15	746	62.10	2377	76.10	2526	93.10	2503
48.10	277	63.10	1757	77.10	378	94.10	7196
49.10	2218	64.10	68	78.05	331	95.10	68379
50.10	10266	67.05	107	79.00	1444	96.10	4516

Average of 15.944 to 15.954 min.: 4d103625.d\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
97.05	106	148.00	68				
104.00	244	155.00	117				
105.95	232	157.00	54				
116.00	196	173.15	483				
117.00	355	174.00	62989				
117.95	152	175.10	4779				
119.00	302	176.00	60512				
128.00	250	177.00	4122				
129.95	219						
141.00	563						
143.00	640						

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162816.D
Acq On : 14 Jul 2020 6:33 pm
Operator : brittank
Sample : ic8157-0.2
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 15 11:41:35 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 10:49:37 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	7.294	65	143732	500.00	ug/L		0.00
5) pentafluorobenzene	9.528	168	271812	50.00	ug/L		0.00
53) 1,4-difluorobenzene	10.440	114	409243	50.00	ug/L		0.00
74) chlorobenzene-d5	13.586	117	337842	50.00	ug/L		0.00
97) 1,4-dichlorobenzene-d4	15.882	152	164601	50.00	ug/L		0.00
System Monitoring Compounds							
47) dibromofluoromethane (s)	9.575	113	135978	50.28	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.56%				
54) 1,2-dichloroethane-d4 (s)	9.995	65	156194	50.45	ug/L		0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 100.90%				
75) toluene-d8 (s)	12.081	98	533145	49.93	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.86%				
98) 4-bromofluorobenzene (s)	14.729	95	187749	51.19	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 102.38%				
Target Compounds							Qvalue
3) tertiary butyl alcohol	7.415	59	511	1.20	ug/L		62
6) chlorodifluoromethane	4.007	51	1205	0.21	ug/L		84
9) vinyl chloride	4.610	62	1051	0.18	ug/L		88
11) chloroethane	5.370	64	750	0.23	ug/L		74
13) 1,3-butadiene	4.631	54	887	0.20	ug/L	#	58
14) vinyl bromide	5.732	106	445	0.20	ug/L	#	66
18) 1,1-dichloroethene	6.644	61	998	0.18	ug/L		96
21) iodomethane	6.912	142	1145	0.20	ug/L		71
22) carbon disulfide	7.048	76	2069	0.21	ug/L		92
23) methylene chloride	7.347	84	771	0.20	ug/L		88
25) methyl tert butyl ether	7.682	73	2097	0.21	ug/L		91
26) trans-1,2-dichloroethene	7.724	61	1045	0.19	ug/L		85
27) hexane	8.023	56	500	0.17	ug/L	#	40
28) di-isopropyl ether	8.270	45	2548	0.19	ug/L	#	41
29) ethyl tert-butyl ether	8.726	59	2326	0.19	ug/L		81
31) 1,1-dichloroethane	8.280	63	1298	0.20	ug/L		95
36) 2,2-dichloropropane	9.019	77	1225	0.25	ug/L		93
37) cis-1,2-dichloroethene	9.025	96	760	0.20	ug/L		82
40) bromochloromethane	9.329	128	371	0.21	ug/L	#	58
42) chloroform	9.376	83	1454	0.25	ug/L		92
44) 1,1-dichloropropene	9.816	75	953	0.19	ug/L		92
45) carbon tetrachloride	9.848	117	861	0.19	ug/L	#	82
49) 1,1,1-trichloroethane	9.638	97	952	0.18	ug/L	#	58
50) cyclohexane	9.706	84	1067	0.18	ug/L		92
55) 2,2,4-trimethylpentane	10.068	57	2496	0.18	ug/L		86
57) benzene	10.073	78	3226	0.22	ug/L		96
58) tert-amyl methyl ether	10.105	73	2333	0.20	ug/L		86
59) heptane	10.246	57	458	0.17	ug/L	#	79
62) trichloroethene	10.802	95	635	0.18	ug/L	#	65
64) 2-chloroethyl vinyl ether	11.594	63	1541	0.77	ug/L		92
66) 1,2-dichloropropane	11.059	63	786	0.20	ug/L		94
68) dibromomethane	11.227	93	404	0.20	ug/L	#	64
69) bromodichloromethane	11.342	83	966	0.22	ug/L		91
71) cis-1,3-dichloropropene	11.803	75	1094	0.19	ug/L		86
72) 4-methyl-2-pentanone	11.893	58	832	0.64	ug/L	#	66
76) toluene	12.165	92	1682	0.20	ug/L		88
79) 1,1,2-trichloroethane	12.564	83	460	0.19	ug/L	#	87
82) 1,3-dichloropropane	12.752	76	985	0.20	ug/L		86
84) dibromochloromethane	13.009	129	613	0.20	ug/L		84
87) chlorobenzene	13.617	112	1752	0.20	ug/L		88

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162816.D
Acq On : 14 Jul 2020 6:33 pm
Operator : brittank
Sample : ic8157-0.2
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 15 11:41:35 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 10:49:37 2020
Response via : Initial Calibration

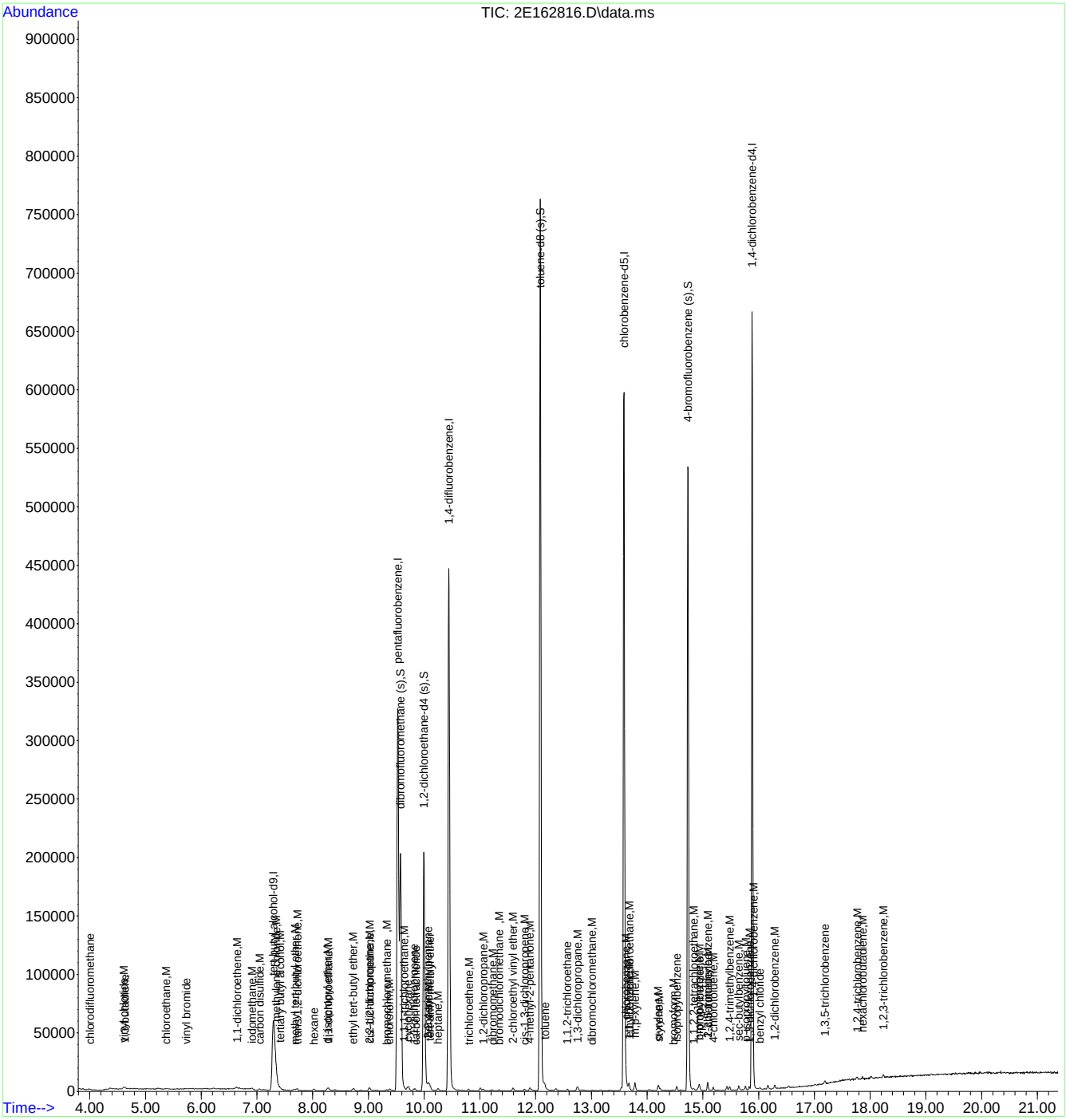
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
88) 1,1,1,2-tetrachloroethane	13.680	131	574	0.18	ug/L		71
89) ethylbenzene	13.675	91	2834	0.19	ug/L		89
90) m,p-xylene	13.780	106	2095	0.36	ug/L	#	80
91) o-xylene	14.194	91	2283	0.18	ug/L		92
92) styrene	14.210	104	1569	0.17	ug/L		86
94) bromoform	14.472	173	323	0.17	ug/L		80
95) isopropylbenzene	14.530	105	2632	0.18	ug/L		96
99) bromobenzene	14.928	156	716	0.21	ug/L	#	83
100) 1,1,2,2-tetrachloroethane	14.834	83	714	0.21	ug/L		93
103) n-propylbenzene	14.939	91	3209	0.19	ug/L		91
104) 2-chlorotoluene	15.086	126	593	0.18	ug/L	#	78
105) 4-chlorotoluene	15.185	91	2052	0.21	ug/L		88
106) 1,3,5-trimethylbenzene	15.086	105	2111	0.18	ug/L		94
108) 1,2,4-trimethylbenzene	15.479	105	2049	0.17	ug/L		93
109) sec-butylbenzene	15.641	105	2688	0.18	ug/L		98
110) 1,3-dichlorobenzene	15.835	146	1241	0.20	ug/L		96
111) p-isopropyltoluene	15.767	119	2255	0.18	ug/L		88
112) 1,4-dichlorobenzene	15.909	146	1379	0.22	ug/L		92
113) 1,2-dichlorobenzene	16.286	146	1323	0.21	ug/L		97
116) 1,3,5-trichlorobenzene	17.188	180	1078	0.20	ug/L		96
117) 1,2,4-trichlorobenzene	17.770	180	820	0.18	ug/L		79
119) hexachlorobutadiene	17.864	225	431	0.18	ug/L		89
121) 1,2,3-trichlorobenzene	18.237	180	753	0.18	ug/L		98
123) benzyl chloride	16.019	91	1166	0.19	ug/L		96

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162816.D
Acq On : 14 Jul 2020 6:33 pm
Operator : brittank
Sample : ic8157-0.2
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 15 11:41:35 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 10:49:37 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162817.D
Acq On : 14 Jul 2020 7:03 pm
Operator : brittank
Sample : ic8157-0.5
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 15 11:45:37 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 10:49:37 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	7.289	65	142416	500.00	ug/L		-0.01
5) pentafluorobenzene	9.528	168	274128	50.00	ug/L		0.00
53) 1,4-difluorobenzene	10.440	114	409125	50.00	ug/L		0.00
74) chlorobenzene-d5	13.586	117	337531	50.00	ug/L		0.00
97) 1,4-dichlorobenzene-d4	15.882	152	166007	50.00	ug/L		0.00
System Monitoring Compounds							
47) dibromofluoromethane (s)	9.575	113	136095	49.89	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.78%				
54) 1,2-dichloroethane-d4 (s)	9.995	65	155141	50.13	ug/L		0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 100.26%				
75) toluene-d8 (s)	12.081	98	529150	49.60	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.20%				
98) 4-bromofluorobenzene (s)	14.729	95	188832	51.05	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 102.10%				
Target Compounds							Qvalue
3) tertiary butyl alcohol	7.410	59	1237	2.94	ug/L		66
6) chlorodifluoromethane	3.986	51	2722	0.48	ug/L		90
7) dichlorodifluoromethane	3.965	85	2785	0.44	ug/L		92
9) vinyl chloride	4.594	62	2757	0.46	ug/L		92
11) chloroethane	5.365	64	1771	0.55	ug/L		91
12) trichlorofluoromethane	5.821	101	2813	0.48	ug/L		78
13) 1,3-butadiene	4.626	54	2066	0.47	ug/L		95
14) vinyl bromide	5.727	106	1109	0.49	ug/L	#	70
15) ethyl ether	6.225	74	1106	0.53	ug/L	#	61
17) freon 113	6.608	151	1236	0.45	ug/L	#	70
18) 1,1-dichloroethene	6.634	61	2620	0.47	ug/L		98
20) acetonitrile	7.121	41	2876	6.08	ug/L		81
21) iodomethane	6.912	142	2934	0.51	ug/L		92
22) carbon disulfide	7.043	76	4647	0.47	ug/L		93
23) methylene chloride	7.342	84	2022	0.53	ug/L		92
24) methyl acetate	7.163	43	1458	0.55	ug/L		87
25) methyl tert butyl ether	7.672	73	4699	0.47	ug/L		99
26) trans-1,2-dichloroethene	7.719	61	2554	0.47	ug/L		96
27) hexane	8.023	56	1457	0.50	ug/L	#	76
28) di-isopropyl ether	8.264	45	6215	0.47	ug/L	#	51
29) ethyl tert-butyl ether	8.726	59	5741	0.47	ug/L		97
31) 1,1-dichloroethane	8.280	63	3373	0.50	ug/L		98
32) chloroprene	8.390	53	2518	0.47	ug/L		88
33) acrylonitrile	7.714	53	598	0.45	ug/L	#	57
36) 2,2-dichloropropane	9.019	77	2688	0.55	ug/L		85
37) cis-1,2-dichloroethene	9.014	96	1993	0.52	ug/L		87
40) bromochloromethane	9.323	128	850	0.48	ug/L		89
42) chloroform	9.376	83	3317	0.56	ug/L		77
43) t-butyl formate	9.413	59	977	0.32	ug/L		82
44) 1,1-dichloropropene	9.816	75	2228	0.45	ug/L		96
45) carbon tetrachloride	9.842	117	2068	0.46	ug/L		94
48) methacrylonitrile	9.287	67	472	0.35	ug/L	#	42
49) 1,1,1-trichloroethane	9.633	97	2576	0.49	ug/L		96
50) cyclohexane	9.711	84	2706	0.45	ug/L		92
51) iso-butyl alcohol	9.832	43	790	5.67	ug/L		89
55) 2,2,4-trimethylpentane	10.068	57	6459	0.46	ug/L		93
57) benzene	10.073	78	7714	0.53	ug/L		93
58) tert-amyl methyl ether	10.105	73	5475	0.48	ug/L		98
59) heptane	10.246	57	1123	0.41	ug/L		85
60) 1,2-dichloroethane	10.094	62	2424	0.55	ug/L		94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162817.D
Acq On : 14 Jul 2020 7:03 pm
Operator : brittank
Sample : ic8157-0.5
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 15 11:45:37 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 10:49:37 2020
Response via : Initial Calibration

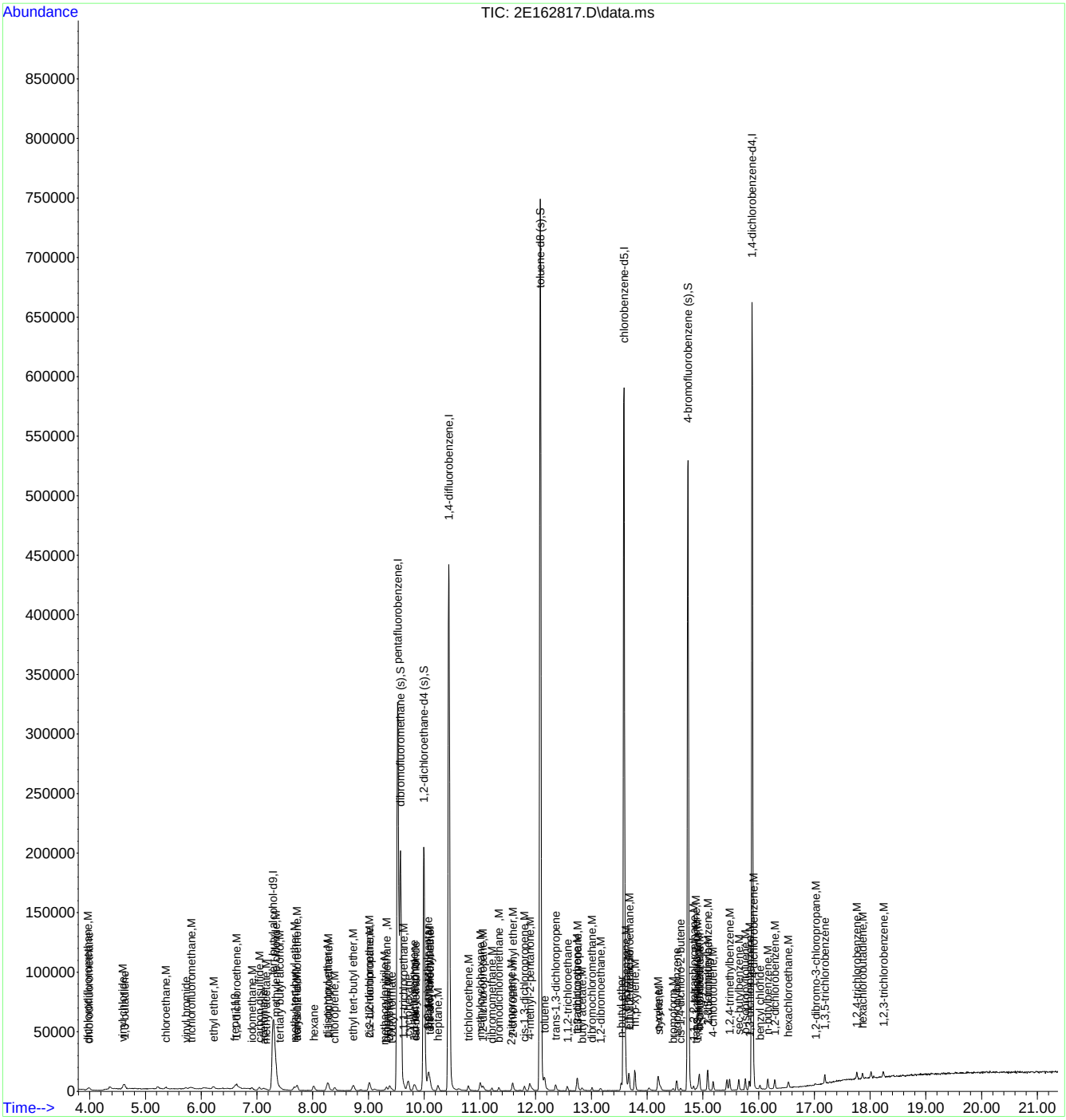
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
62) trichloroethene	10.797	95	1580	0.46 ug/L	89
63) 2-nitropropane	11.562	41	457	0.44 ug/L #	25
64) 2-chloroethyl vinyl ether	11.588	63	3781	1.88 ug/L	90
66) 1,2-dichloropropane	11.054	63	1784	0.46 ug/L	92
67) methylcyclohexane	11.006	83	3218	0.46 ug/L	92
68) dibromomethane	11.211	93	913	0.46 ug/L	86
69) bromodichloromethane	11.337	83	2185	0.49 ug/L	94
71) cis-1,3-dichloropropene	11.798	75	2600	0.44 ug/L	90
72) 4-methyl-2-pentanone	11.898	58	2187	1.70 ug/L #	83
76) toluene	12.160	92	3789	0.45 ug/L	95
78) trans-1,3-dichloropropene	12.359	75	2135	0.43 ug/L	93
79) 1,1,2-trichloroethane	12.574	83	1174	0.49 ug/L #	85
80) tetrachloroethene	12.742	164	1279	0.47 ug/L	87
82) 1,3-dichloropropane	12.747	76	2468	0.49 ug/L	90
83) butyl acetate	12.831	56	873	0.38 ug/L #	50
84) dibromochloromethane	13.009	129	1614	0.52 ug/L	94
85) 1,2-dibromoethane	13.167	107	1796	0.48 ug/L	91
86) n-butyl ether	13.534	57	6451	0.40 ug/L	99
87) chlorobenzene	13.617	112	4307	0.49 ug/L	93
88) 1,1,1,2-tetrachloroethane	13.680	131	1481	0.48 ug/L	84
89) ethylbenzene	13.675	91	6979	0.46 ug/L	96
90) m,p-xylene	13.780	106	5467	0.94 ug/L	90
91) o-xylene	14.194	91	5590	0.45 ug/L	99
92) styrene	14.210	104	3835	0.40 ug/L	93
94) bromoform	14.467	173	846	0.44 ug/L	82
95) isopropylbenzene	14.530	105	6219	0.41 ug/L	96
96) cis-1,4-dichloro-2-butene	14.598	75	616	0.49 ug/L #	73
99) bromobenzene	14.928	156	1827	0.52 ug/L	90
100) 1,1,2,2-tetrachloroethane	14.834	83	1857	0.54 ug/L	98
101) trans-1,4-dichloro-2-b...	14.876	53	414	0.44 ug/L #	55
102) 1,2,3-trichloropropane	14.902	110	436	0.47 ug/L	82
103) n-propylbenzene	14.939	91	7932	0.48 ug/L	98
104) 2-chlorotoluene	15.086	126	1549	0.46 ug/L	98
105) 4-chlorotoluene	15.180	91	5163	0.52 ug/L	98
106) 1,3,5-trimethylbenzene	15.086	105	5242	0.44 ug/L	91
108) 1,2,4-trimethylbenzene	15.479	105	5296	0.44 ug/L	95
109) sec-butylbenzene	15.647	105	6314	0.42 ug/L	98
110) 1,3-dichlorobenzene	15.835	146	3238	0.51 ug/L	93
111) p-isopropyltoluene	15.762	119	5283	0.42 ug/L	95
112) 1,4-dichlorobenzene	15.909	146	3253	0.50 ug/L	85
113) 1,2-dichlorobenzene	16.291	146	3149	0.50 ug/L	87
114) n-butylbenzene	16.160	92	2523	0.40 ug/L	81
115) 1,2-dibromo-3-chloropr...	17.025	157	316	0.43 ug/L #	77
116) 1,3,5-trichlorobenzene	17.188	180	2496	0.46 ug/L	92
117) 1,2,4-trichlorobenzene	17.759	180	1940	0.42 ug/L	93
119) hexachlorobutadiene	17.864	225	1031	0.43 ug/L	92
121) 1,2,3-trichlorobenzene	18.242	180	1710	0.40 ug/L	83
122) hexachloroethane	16.533	201	789	0.38 ug/L	95
123) benzyl chloride	16.024	91	2753	0.45 ug/L	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162817.D
Acq On : 14 Jul 2020 7:03 pm
Operator : brittank
Sample : ic8157-0.5
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 15 11:45:37 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 10:49:37 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162818.D
Acq On : 14 Jul 2020 7:33 pm
Operator : brittank
Sample : ic8157-1
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 15 11:49:12 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 10:49:37 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	7.300	65	143821	500.00	ug/L		0.00
5) pentafluorobenzene	9.528	168	267553	50.00	ug/L		0.00
53) 1,4-difluorobenzene	10.446	114	400143	50.00	ug/L		0.00
74) chlorobenzene-d5	13.586	117	332850	50.00	ug/L		0.00
97) 1,4-dichlorobenzene-d4	15.883	152	163283	50.00	ug/L		0.00
System Monitoring Compounds							
47) dibromofluoromethane (s)	9.575	113	133713	50.23	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.46%				
54) 1,2-dichloroethane-d4 (s)	9.995	65	153068	50.57	ug/L		0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 101.14%				
75) toluene-d8 (s)	12.081	98	526907	50.09	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.18%				
98) 4-bromofluorobenzene (s)	14.729	95	186938	51.38	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 102.76%				
Target Compounds							Qvalue
2) ethanol	6.052	45	4777	123.26	ug/L		93
3) tertiary butyl alcohol	7.420	59	2792	6.56	ug/L		80
6) chlorodifluoromethane	3.986	51	5852	1.05	ug/L		93
7) dichlorodifluoromethane	3.965	85	5952	0.97	ug/L		99
8) chloromethane	4.364	50	7604	1.23	ug/L		98
9) vinyl chloride	4.600	62	6099	1.05	ug/L		97
10) bromomethane	5.223	94	3806	1.17	ug/L		91
11) chloroethane	5.370	64	3512	1.11	ug/L		90
12) trichlorofluoromethane	5.826	101	6095	1.07	ug/L		81
13) 1,3-butadiene	4.626	54	4501	1.05	ug/L		92
14) vinyl bromide	5.722	106	2510	1.12	ug/L		96
15) ethyl ether	6.214	74	2122	1.05	ug/L	#	76
16) acrolein	6.466	56	701	1.02	ug/L		74
17) freon 113	6.608	151	2847	1.06	ug/L	#	79
18) 1,1-dichloroethene	6.634	61	5658	1.04	ug/L		95
19) acetone	6.681	43	4182	4.90	ug/L		74
21) iodomethane	6.912	142	5740	1.02	ug/L		98
22) carbon disulfide	7.043	76	9957	1.03	ug/L		97
23) methylene chloride	7.352	84	3997	1.08	ug/L		81
24) methyl acetate	7.148	43	2908	1.11	ug/L		92
25) methyl tert butyl ether	7.672	73	9787	1.01	ug/L		97
26) trans-1,2-dichloroethene	7.714	61	5291	1.00	ug/L		89
27) hexane	8.018	56	2961	1.04	ug/L	#	70
28) di-isopropyl ether	8.270	45	12466	0.96	ug/L	#	56
29) ethyl tert-butyl ether	8.726	59	12044	1.00	ug/L		96
30) 2-butanone	9.014	72	1066	3.07	ug/L		96
31) 1,1-dichloroethane	8.285	63	6732	1.03	ug/L		95
32) chloroprene	8.390	53	4866	0.92	ug/L		95
33) acrylonitrile	7.693	53	1362	1.05	ug/L		81
35) ethyl acetate	9.030	45	480	0.87	ug/L	#	83
36) 2,2-dichloropropane	9.014	77	5388	1.12	ug/L		94
37) cis-1,2-dichloroethene	9.014	96	3980	1.07	ug/L	#	78
38) propionitrile	9.098	54	5103	10.91	ug/L		66
40) bromochloromethane	9.329	128	1758	1.01	ug/L		91
41) tetrahydrofuran	9.376	72	401	0.99	ug/L	#	59
42) chloroform	9.381	83	6501	1.13	ug/L		96
44) 1,1-dichloropropene	9.811	75	5056	1.05	ug/L		95
45) carbon tetrachloride	9.837	117	4471	1.01	ug/L		94
46) isopropyl acetate	10.000	87	575	0.77	ug/L	#	33
48) methacrylonitrile	9.282	67	1206	0.92	ug/L	#	70

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162818.D
Acq On : 14 Jul 2020 7:33 pm
Operator : brittank
Sample : ic8157-1
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 15 11:49:12 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 10:49:37 2020
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49)	1,1,1-trichloroethane	9.628	97	5114	0.99	ug/L		97
50)	cyclohexane	9.711	84	6079	1.03	ug/L		96
51)	iso-butyl alcohol	9.832	43	1489	10.95	ug/L		83
52)	tert amyl alcohol	9.958	73	925	5.79	ug/L	#	36
55)	2,2,4-trimethylpentane	10.068	57	13249	0.96	ug/L		92
56)	n-butyl alcohol	10.613	56	3743	39.93	ug/L		89
57)	benzene	10.079	78	15299	1.08	ug/L		94
58)	tert-amyl methyl ether	10.110	73	11342	1.01	ug/L		97
59)	heptane	10.246	57	2703	1.01	ug/L		91
60)	1,2-dichloroethane	10.089	62	4875	1.13	ug/L		93
61)	ethyl acrylate	10.823	55	3619	0.90	ug/L		85
62)	trichloroethene	10.792	95	3454	1.02	ug/L		87
63)	2-nitropropane	11.557	41	1169	1.16	ug/L	#	17
64)	2-chloroethyl vinyl ether	11.583	63	8620	4.39	ug/L		92
66)	1,2-dichloropropane	11.054	63	3666	0.96	ug/L		88
67)	methylcyclohexane	11.007	83	6462	0.94	ug/L		98
68)	dibromomethane	11.216	93	1935	0.99	ug/L		98
69)	bromodichloromethane	11.337	83	4527	1.04	ug/L		99
70)	epichlorohydrin	11.704	57	1499	4.77	ug/L		81
71)	cis-1,3-dichloropropene	11.798	75	5416	0.94	ug/L		92
72)	4-methyl-2-pentanone	11.887	58	4656	3.69	ug/L		90
73)	3-methyl-1-butanol	11.924	70	1414	15.87	ug/L	#	81
76)	toluene	12.160	92	8358	1.00	ug/L		95
77)	ethyl methacrylate	12.354	69	3345	0.81	ug/L		91
78)	trans-1,3-dichloropropene	12.354	75	4508	0.91	ug/L		97
79)	1,1,2-trichloroethane	12.569	83	2537	1.06	ug/L		98
80)	tetrachloroethene	12.742	164	2791	1.04	ug/L		82
81)	2-hexanone	12.747	58	3520	3.03	ug/L		97
82)	1,3-dichloropropane	12.752	76	5155	1.04	ug/L		90
83)	butyl acetate	12.826	56	1851	0.82	ug/L		98
84)	dibromochloromethane	13.009	129	2956	0.97	ug/L		96
85)	1,2-dibromoethane	13.161	107	3538	0.96	ug/L		90
86)	n-butyl ether	13.534	57	13920	0.89	ug/L		97
87)	chlorobenzene	13.618	112	8764	1.01	ug/L		89
88)	1,1,1,2-tetrachloroethane	13.675	131	2907	0.95	ug/L		92
89)	ethylbenzene	13.670	91	15173	1.01	ug/L		95
90)	m,p-xylene	13.780	106	10856	1.89	ug/L		93
91)	o-xylene	14.194	91	11851	0.97	ug/L		92
92)	styrene	14.205	104	8117	0.87	ug/L		95
94)	bromoform	14.467	173	1616	0.85	ug/L		95
95)	isopropylbenzene	14.530	105	13534	0.92	ug/L		99
96)	cis-1,4-dichloro-2-butene	14.598	75	1064	0.86	ug/L		93
99)	bromobenzene	14.928	156	3694	1.08	ug/L		90
100)	1,1,2,2-tetrachloroethane	14.834	83	3457	1.02	ug/L		96
101)	trans-1,4-dichloro-2-b...	14.876	53	780	0.84	ug/L	#	59
102)	1,2,3-trichloropropane	14.907	110	982	1.07	ug/L		87
103)	n-propylbenzene	14.939	91	16295	0.99	ug/L		100
104)	2-chlorotoluene	15.086	126	3471	1.05	ug/L	#	78
105)	4-chlorotoluene	15.185	91	9946	1.01	ug/L		93
106)	1,3,5-trimethylbenzene	15.091	105	11399	0.96	ug/L		95
107)	tert-butylbenzene	15.432	119	9634	0.93	ug/L		98
108)	1,2,4-trimethylbenzene	15.479	105	10757	0.92	ug/L		93
109)	sec-butylbenzene	15.641	105	14402	0.97	ug/L		96
110)	1,3-dichlorobenzene	15.830	146	6324	1.01	ug/L		98
111)	p-isopropyltoluene	15.762	119	11153	0.90	ug/L		93
112)	1,4-dichlorobenzene	15.909	146	6829	1.07	ug/L		92
113)	1,2-dichlorobenzene	16.291	146	6118	0.98	ug/L		95
114)	n-butylbenzene	16.166	92	5484	0.88	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162818.D
Acq On : 14 Jul 2020 7:33 pm
Operator : brittank
Sample : ic8157-1
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 15 11:49:12 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 10:49:37 2020
Response via : Initial Calibration

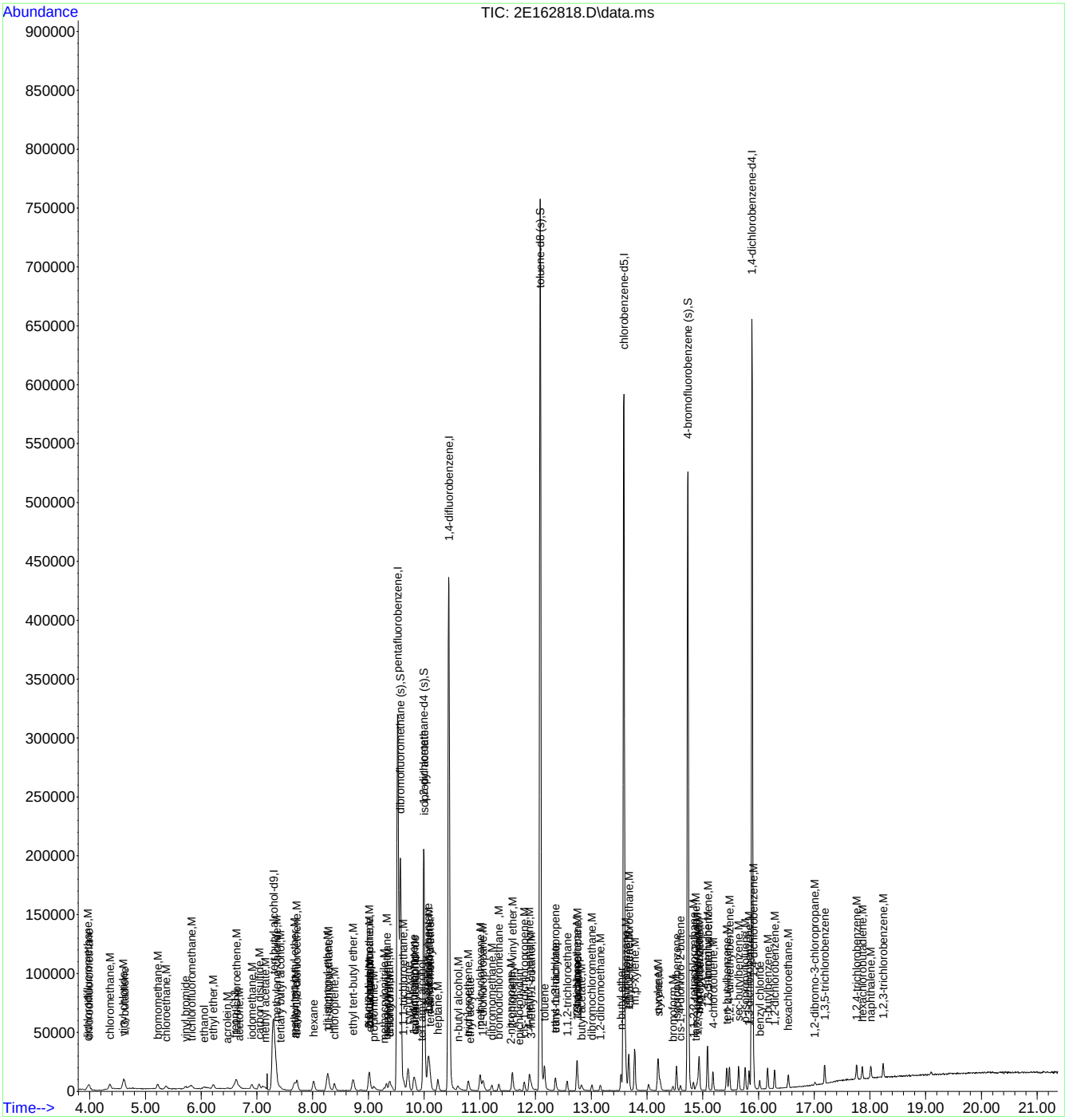
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
115) 1,2-dibromo-3-chloropr...	17.010	157	650	0.91	ug/L	85
116) 1,3,5-trichlorobenzene	17.188	180	5056	0.94	ug/L	96
117) 1,2,4-trichlorobenzene	17.760	180	3647	0.80	ug/L	97
119) hexachlorobutadiene	17.864	225	2322	0.99	ug/L	95
120) naphthalene	18.011	128	7821	0.76	ug/L	92
121) 1,2,3-trichlorobenzene	18.237	180	3731	0.89	ug/L	88
122) hexachloroethane	16.533	201	1748	0.86	ug/L	88
123) benzyl chloride	16.024	91	5354	0.89	ug/L	97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162818.D
Acq On : 14 Jul 2020 7:33 pm
Operator : brittank
Sample : ic8157-1
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 15 11:49:12 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 10:49:37 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162819.D
Acq On : 14 Jul 2020 8:03 pm
Operator : brittank
Sample : ic8157-2
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 15 11:49:56 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 10:49:37 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.300	65	147585	500.00	ug/L	0.00
5) pentafluorobenzene	9.528	168	271193	50.00	ug/L	0.00
53) 1,4-difluorobenzene	10.446	114	408207	50.00	ug/L	0.00
74) chlorobenzene-d5	13.586	117	333437	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	15.883	152	166048	50.00	ug/L	0.00
System Monitoring Compounds						
47) dibromofluoromethane (s)	9.575	113	135341	50.15	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.30%			
54) 1,2-dichloroethane-d4 (s)	9.995	65	156821	50.78	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 101.56%			
75) toluene-d8 (s)	12.081	98	529462	50.24	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.48%			
98) 4-bromofluorobenzene (s)	14.734	95	188129	50.85	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 101.70%			
Target Compounds						Qvalue
2) ethanol	6.062	45	9658	242.86	ug/L	87
3) tertiary butyl alcohol	7.410	59	5433	12.44	ug/L	82
4) 1,4-dioxane	11.174	88	1876	57.71	ug/L	84
6) chlorodifluoromethane	3.997	51	12142	2.15	ug/L	97
7) dichlorodifluoromethane	3.970	85	11866	1.91	ug/L	96
8) chloromethane	4.364	50	13194	2.10	ug/L	93
9) vinyl chloride	4.605	62	11545	1.95	ug/L	94
10) bromomethane	5.223	94	7187	2.18	ug/L	96
11) chloroethane	5.370	64	6569	2.05	ug/L	97
12) trichlorofluoromethane	5.821	101	11549	2.01	ug/L	99
13) 1,3-butadiene	4.631	54	9186	2.11	ug/L	90
14) vinyl bromide	5.722	106	4430	1.96	ug/L	84
15) ethyl ether	6.220	74	4416	2.15	ug/L	93
16) acrolein	6.466	56	1371	1.97	ug/L	67
17) freon 113	6.597	151	5756	2.12	ug/L	90
18) 1,1-dichloroethene	6.639	61	11947	2.16	ug/L	99
19) acetone	6.681	43	8435	9.75	ug/L	93
21) iodomethane	6.912	142	11758	2.05	ug/L	97
22) carbon disulfide	7.038	76	20704	2.11	ug/L	93
23) methylene chloride	7.347	84	8216	2.18	ug/L	99
24) methyl acetate	7.148	43	6261	2.37	ug/L	97
25) methyl tert butyl ether	7.672	73	20043	2.04	ug/L	96
26) trans-1,2-dichloroethene	7.719	61	11391	2.13	ug/L	96
27) hexane	8.018	56	6032	2.10	ug/L	90
28) di-isopropyl ether	8.264	45	26937	2.05	ug/L #	55
29) ethyl tert-butyl ether	8.726	59	25131	2.07	ug/L	99
30) 2-butanone	9.004	72	2685	7.62	ug/L #	73
31) 1,1-dichloroethane	8.280	63	14469	2.18	ug/L	99
32) chloroprene	8.396	53	10338	1.93	ug/L	92
33) acrylonitrile	7.677	53	2777	2.12	ug/L	74
34) vinyl acetate	8.301	86	1135	1.49	ug/L #	1
35) ethyl acetate	9.019	45	962	1.72	ug/L #	19
36) 2,2-dichloropropane	9.014	77	10803	2.22	ug/L	94
37) cis-1,2-dichloroethene	9.014	96	8569	2.26	ug/L	88
38) propionitrile	9.088	54	10394	21.93	ug/L	62
39) methyl acrylate	9.103	85	662	1.38	ug/L #	47
40) bromochloromethane	9.329	128	3812	2.16	ug/L	85
41) tetrahydrofuran	9.376	72	923	2.25	ug/L #	74
42) chloroform	9.376	83	13200	2.26	ug/L	94
43) t-butyl formate	9.418	59	5394	1.78	ug/L	90

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162819.D
Acq On : 14 Jul 2020 8:03 pm
Operator : brittank
Sample : ic8157-2
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 15 11:49:56 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 10:49:37 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 1,1-dichloropropene	9.816	75	10641	2.18	ug/L		97
45) carbon tetrachloride	9.837	117	9315	2.07	ug/L		97
46) isopropyl acetate	10.000	87	1545	2.04	ug/L	#	43
48) methacrylonitrile	9.287	67	2590	1.95	ug/L		92
49) 1,1,1-trichloroethane	9.633	97	10947	2.09	ug/L		97
50) cyclohexane	9.706	84	11355	1.89	ug/L	#	81
51) iso-butyl alcohol	9.837	43	3231	23.44	ug/L		75
52) tert amyl alcohol	9.947	73	1945	12.00	ug/L	#	73
55) 2,2,4-trimethylpentane	10.073	57	27990	1.99	ug/L		97
56) n-butyl alcohol	10.592	56	9029	94.43	ug/L		95
57) benzene	10.079	78	31387	2.17	ug/L		99
58) tert-amyl methyl ether	10.110	73	24354	2.13	ug/L		98
59) heptane	10.246	57	5227	1.91	ug/L		93
60) 1,2-dichloroethane	10.089	62	9897	2.26	ug/L		97
61) ethyl acrylate	10.813	55	7618	1.85	ug/L		91
62) trichloroethene	10.792	95	7283	2.11	ug/L		96
63) 2-nitropropane	11.557	41	2197	2.14	ug/L	#	39
64) 2-chloroethyl vinyl ether	11.583	63	18546	9.26	ug/L		95
65) methyl methacrylate	11.075	100	1428	1.70	ug/L	#	32
66) 1,2-dichloropropane	11.054	63	8225	2.12	ug/L		100
67) methylcyclohexane	11.007	83	14186	2.02	ug/L		99
68) dibromomethane	11.216	93	4221	2.12	ug/L		96
69) bromodichloromethane	11.342	83	9142	2.05	ug/L		99
70) epichlorohydrin	11.709	57	3270	10.21	ug/L		89
71) cis-1,3-dichloropropene	11.798	75	11849	2.01	ug/L		100
72) 4-methyl-2-pentanone	11.887	58	10173	7.90	ug/L		97
73) 3-methyl-1-butanol	11.914	70	3378	37.16	ug/L	#	83
76) toluene	12.160	92	17674	2.11	ug/L		98
77) ethyl methacrylate	12.349	69	7387	1.78	ug/L		93
78) trans-1,3-dichloropropene	12.354	75	9857	1.99	ug/L		99
79) 1,1,2-trichloroethane	12.564	83	5390	2.26	ug/L		92
80) tetrachloroethene	12.742	164	5952	2.22	ug/L		99
81) 2-hexanone	12.742	58	8352	7.17	ug/L		98
82) 1,3-dichloropropane	12.747	76	10630	2.14	ug/L		99
83) butyl acetate	12.821	56	4410	1.94	ug/L		91
84) dibromochloromethane	13.009	129	6168	2.01	ug/L		92
85) 1,2-dibromoethane	13.156	107	7532	2.05	ug/L		94
86) n-butyl ether	13.528	57	29657	1.88	ug/L		97
87) chlorobenzene	13.612	112	18734	2.15	ug/L		95
88) 1,1,1,2-tetrachloroethane	13.675	131	6319	2.06	ug/L		98
89) ethylbenzene	13.670	91	31290	2.07	ug/L		97
90) m,p-xylene	13.775	106	23443	4.06	ug/L		99
91) o-xylene	14.194	91	24814	2.03	ug/L		99
92) styrene	14.205	104	17170	1.83	ug/L		98
93) butyl acrylate	14.021	55	10550	1.67	ug/L		98
94) bromoform	14.462	173	3575	1.87	ug/L		83
95) isopropylbenzene	14.530	105	29318	1.98	ug/L		96
96) cis-1,4-dichloro-2-butene	14.603	75	2064	1.66	ug/L		93
99) bromobenzene	14.928	156	7508	2.16	ug/L		90
100) 1,1,2,2-tetrachloroethane	14.834	83	7539	2.18	ug/L		100
101) trans-1,4-dichloro-2-b...	14.881	53	1937	2.06	ug/L		91
102) 1,2,3-trichloropropane	14.907	110	1982	2.13	ug/L		98
103) n-propylbenzene	14.939	91	35122	2.10	ug/L		97
104) 2-chlorotoluene	15.080	126	7506	2.24	ug/L		89
105) 4-chlorotoluene	15.180	91	21517	2.15	ug/L		93
106) 1,3,5-trimethylbenzene	15.086	105	24794	2.06	ug/L		99
107) tert-butylbenzene	15.432	119	20732	1.96	ug/L		99
108) 1,2,4-trimethylbenzene	15.479	105	23660	1.98	ug/L		95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162819.D
Acq On : 14 Jul 2020 8:03 pm
Operator : brittank
Sample : ic8157-2
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 15 11:49:56 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 10:49:37 2020
Response via : Initial Calibration

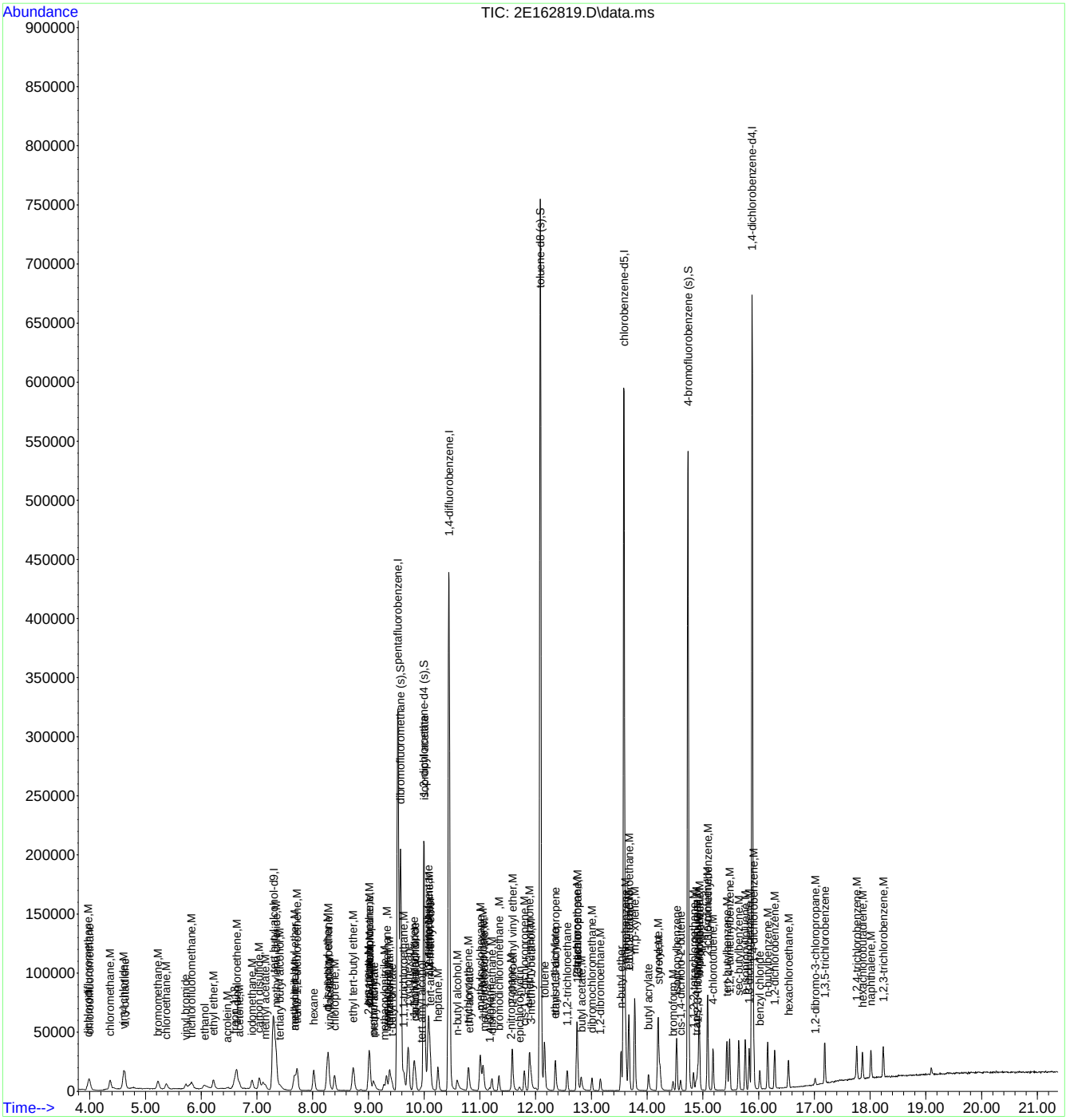
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
109) sec-butylbenzene	15.641	105	30405	2.01	ug/L	97
110) 1,3-dichlorobenzene	15.830	146	13622	2.14	ug/L	98
111) p-isopropyltoluene	15.762	119	24629	1.95	ug/L	97
112) 1,4-dichlorobenzene	15.909	146	14309	2.21	ug/L	97
113) 1,2-dichlorobenzene	16.286	146	13168	2.07	ug/L	98
114) n-butylbenzene	16.160	92	12036	1.90	ug/L	99
115) 1,2-dibromo-3-chloropr...	17.015	157	1409	1.93	ug/L	90
116) 1,3,5-trichlorobenzene	17.188	180	10591	1.94	ug/L	99
117) 1,2,4-trichlorobenzene	17.760	180	8278	1.78	ug/L	96
119) hexachlorobutadiene	17.864	225	4858	2.03	ug/L	95
120) naphthalene	18.016	128	17634	1.68	ug/L	99
121) 1,2,3-trichlorobenzene	18.237	180	7831	1.84	ug/L	94
122) hexachloroethane	16.538	201	4029	1.94	ug/L	91
123) benzyl chloride	16.019	91	11567	1.90	ug/L	97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162819.D
Acq On : 14 Jul 2020 8:03 pm
Operator : brittank
Sample : ic8157-2
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 15 11:49:56 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 10:49:37 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162820.D
Acq On : 14 Jul 2020 8:32 pm
Operator : brittank
Sample : ic8157-4
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 15 11:50:32 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 10:49:37 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.289	65	147503	500.00	ug/L	-0.01
5) pentafluorobenzene	9.528	168	278741	50.00	ug/L	0.00
53) 1,4-difluorobenzene	10.440	114	416261	50.00	ug/L	0.00
74) chlorobenzene-d5	13.586	117	344596	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	15.882	152	172299	50.00	ug/L	0.00
System Monitoring Compounds						
47) dibromofluoromethane (s)	9.575	113	138785	50.04	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.08%			
54) 1,2-dichloroethane-d4 (s)	9.995	65	157260	49.94	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 99.88%			
75) toluene-d8 (s)	12.081	98	547715	50.29	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.58%			
98) 4-bromofluorobenzene (s)	14.729	95	193629	50.43	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.86%			
Target Compounds						Qvalue
2) ethanol	6.046	45	17166	431.89	ug/L	91
3) tertiary butyl alcohol	7.415	59	9669	22.16	ug/L	89
4) 1,4-dioxane	11.174	88	3094	95.24	ug/L	100
6) chlorodifluoromethane	3.996	51	23396	4.04	ug/L	98
7) dichlorodifluoromethane	3.970	85	23574	3.69	ug/L	97
8) chloromethane	4.363	50	25669	3.97	ug/L	94
9) vinyl chloride	4.594	62	23135	3.81	ug/L	99
10) bromomethane	5.218	94	13764	4.05	ug/L	94
11) chloroethane	5.370	64	12476	3.79	ug/L	94
12) trichlorofluoromethane	5.821	101	22405	3.79	ug/L	99
13) 1,3-butadiene	4.620	54	17326	3.88	ug/L	97
14) vinyl bromide	5.716	106	8684	3.74	ug/L	97
15) ethyl ether	6.209	74	8347	3.95	ug/L	84
16) acrolein	6.471	56	2796	3.91	ug/L	98
17) freon 113	6.602	151	10884	3.90	ug/L	91
18) 1,1-dichloroethene	6.634	61	22805	4.02	ug/L	99
19) acetone	6.676	43	14323	16.11	ug/L	94
20) acetonitrile	7.100	41	21043	43.78	ug/L	94
21) iodomethane	6.906	142	21620	3.67	ug/L	95
22) carbon disulfide	7.037	76	39789	3.94	ug/L	97
23) methylene chloride	7.347	84	15809	4.09	ug/L	94
24) methyl acetate	7.142	43	11188	4.11	ug/L	96
25) methyl tert butyl ether	7.667	73	39418	3.91	ug/L	97
26) trans-1,2-dichloroethene	7.719	61	22143	4.03	ug/L	96
27) hexane	8.013	56	11596	3.92	ug/L	91
28) di-isopropyl ether	8.259	45	50856	3.77	ug/L #	58
29) ethyl tert-butyl ether	8.720	59	47880	3.83	ug/L	97
30) 2-butanone	8.993	72	5109	14.11	ug/L	99
31) 1,1-dichloroethane	8.280	63	27783	4.07	ug/L	96
32) chloroprene	8.385	53	20383	3.71	ug/L	97
33) acrylonitrile	7.682	53	5403	4.01	ug/L	92
34) vinyl acetate	8.280	86	2459	3.14	ug/L	100
35) ethyl acetate	9.019	45	1920	3.35	ug/L #	25
36) 2,2-dichloropropane	9.009	77	20157	4.04	ug/L	100
37) cis-1,2-dichloroethene	9.014	96	15695	4.03	ug/L	98
38) propionitrile	9.077	54	19585	40.20	ug/L	68
39) methyl acrylate	9.103	85	1653	3.36	ug/L #	89
40) bromochloromethane	9.323	128	7084	3.91	ug/L	90
41) tetrahydrofuran	9.376	72	1762	4.18	ug/L #	71
42) chloroform	9.381	83	25022	4.16	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162820.D
Acq On : 14 Jul 2020 8:32 pm
Operator : brittank
Sample : ic8157-4
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 15 11:50:32 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 10:49:37 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
43) t-butyl formate	9.407	59	10275	3.30	ug/L		95
44) 1,1-dichloropropene	9.811	75	20041	3.99	ug/L		99
45) carbon tetrachloride	9.837	117	17886	3.87	ug/L		96
46) isopropyl acetate	10.000	87	3020	3.89	ug/L	#	85
48) methacrylonitrile	9.271	67	5252	3.85	ug/L		95
49) 1,1,1-trichloroethane	9.638	97	21519	3.99	ug/L		94
50) cyclohexane	9.706	84	22362	3.62	ug/L		96
51) iso-butyl alcohol	9.827	43	5642	39.83	ug/L		89
52) tert amyl alcohol	9.947	73	3302	19.83	ug/L		92
55) 2,2,4-trimethylpentane	10.073	57	53132	3.70	ug/L		97
56) n-butyl alcohol	10.582	56	17030	174.66	ug/L		89
57) benzene	10.073	78	59716	4.04	ug/L		98
58) tert-amyl methyl ether	10.105	73	46142	3.97	ug/L		97
59) heptane	10.241	57	10601	3.80	ug/L		96
60) 1,2-dichloroethane	10.089	62	18437	4.12	ug/L		96
61) ethyl acrylate	10.802	55	15053	3.58	ug/L		96
62) trichloroethene	10.791	95	14073	4.01	ug/L		99
63) 2-nitropropane	11.567	41	4220	4.04	ug/L	#	1
64) 2-chloroethyl vinyl ether	11.578	63	37960	18.59	ug/L		99
65) methyl methacrylate	11.064	100	2839	3.31	ug/L	#	87
66) 1,2-dichloropropane	11.054	63	16204	4.09	ug/L		98
67) methylcyclohexane	11.001	83	27004	3.77	ug/L		98
68) dibromomethane	11.216	93	8074	3.97	ug/L		92
69) bromodichloromethane	11.337	83	17090	3.76	ug/L		97
70) epichlorohydrin	11.704	57	6527	19.98	ug/L		96
71) cis-1,3-dichloropropene	11.798	75	22554	3.76	ug/L		96
72) 4-methyl-2-pentanone	11.892	58	20335	15.50	ug/L		86
73) 3-methyl-1-butanol	11.913	70	6602	71.22	ug/L		98
76) toluene	12.160	92	34488	3.99	ug/L		93
77) ethyl methacrylate	12.349	69	14795	3.45	ug/L		96
78) trans-1,3-dichloropropene	12.354	75	18507	3.61	ug/L		93
79) 1,1,2-trichloroethane	12.564	83	9996	4.05	ug/L		97
80) tetrachloroethene	12.742	164	11358	4.09	ug/L		98
81) 2-hexanone	12.737	58	16915	14.05	ug/L		95
82) 1,3-dichloropropane	12.747	76	20895	4.08	ug/L		98
83) butyl acetate	12.815	56	9055	3.85	ug/L		93
84) dibromochloromethane	13.009	129	11447	3.61	ug/L		97
85) 1,2-dibromoethane	13.161	107	14554	3.83	ug/L		98
86) n-butyl ether	13.528	57	58754	3.61	ug/L		99
87) chlorobenzene	13.617	112	36178	4.02	ug/L		99
88) 1,1,1,2-tetrachloroethane	13.675	131	12208	3.85	ug/L		96
89) ethylbenzene	13.670	91	62280	3.99	ug/L		98
90) m,p-xylene	13.775	106	47191	7.92	ug/L		99
91) o-xylene	14.189	91	49447	3.91	ug/L		98
92) styrene	14.205	104	34855	3.60	ug/L		100
93) butyl acrylate	14.021	55	21177	3.24	ug/L		98
94) bromoform	14.467	173	6983	3.54	ug/L		99
95) isopropylbenzene	14.530	105	58566	3.83	ug/L		100
96) cis-1,4-dichloro-2-butene	14.598	75	4372	3.39	ug/L		92
99) bromobenzene	14.928	156	14634	4.05	ug/L		95
100) 1,1,2,2-tetrachloroethane	14.834	83	14158	3.94	ug/L		98
101) trans-1,4-dichloro-2-b...	14.876	53	3376	3.46	ug/L		86
102) 1,2,3-trichloropropane	14.902	110	3809	3.94	ug/L		98
103) n-propylbenzene	14.939	91	68493	3.95	ug/L		99
104) 2-chlorotoluene	15.080	126	14188	4.08	ug/L		99
105) 4-chlorotoluene	15.180	91	41738	4.01	ug/L		99
106) 1,3,5-trimethylbenzene	15.085	105	48115	3.85	ug/L		99
107) tert-butylbenzene	15.432	119	40907	3.73	ug/L		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162820.D
Acq On : 14 Jul 2020 8:32 pm
Operator : brittank
Sample : ic8157-4
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 15 11:50:32 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 10:49:37 2020
Response via : Initial Calibration

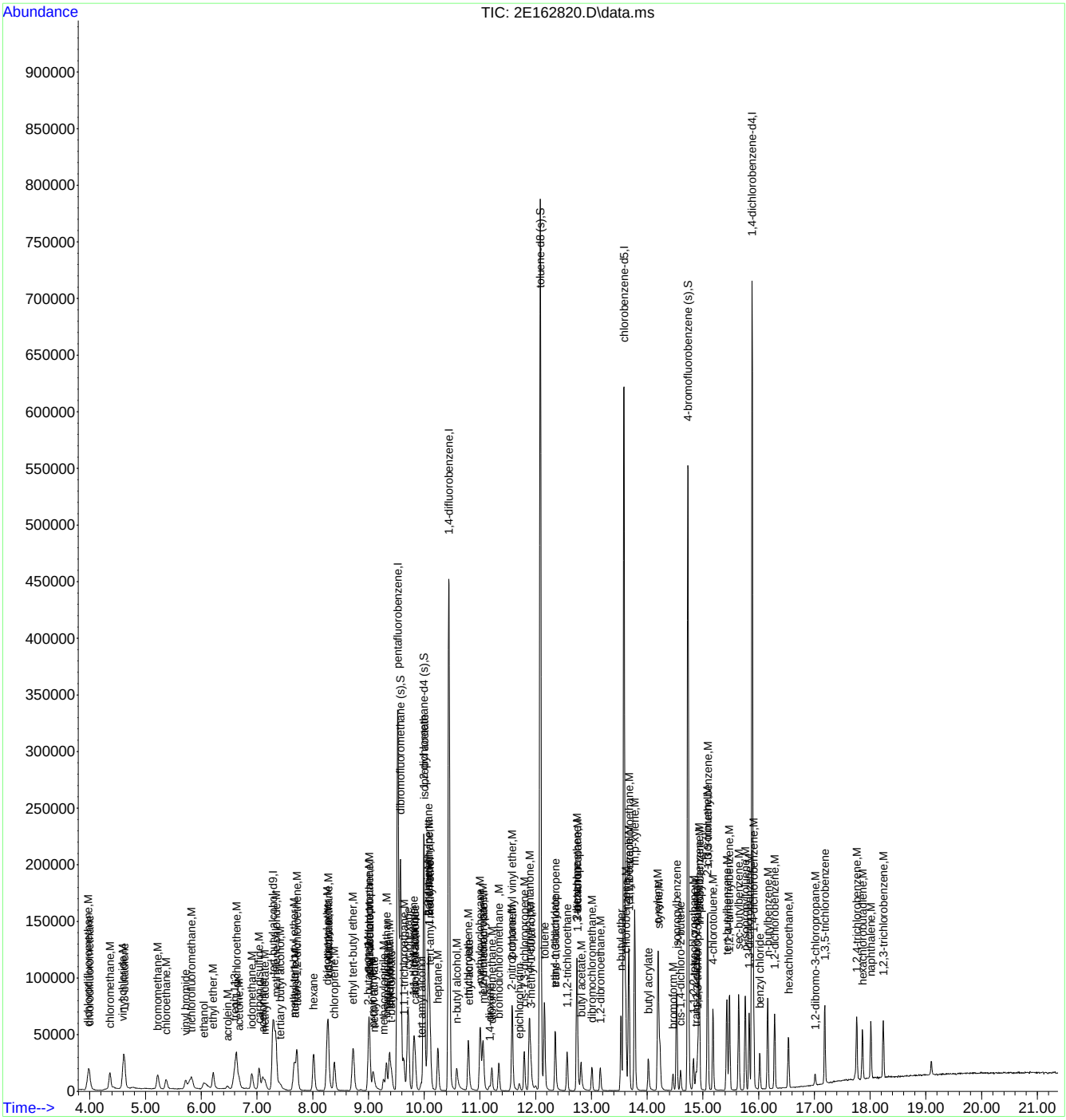
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
108) 1,2,4-trimethylbenzene	15.473	105	47334	3.82	ug/L	99
109) sec-butylbenzene	15.641	105	59265	3.77	ug/L	99
110) 1,3-dichlorobenzene	15.830	146	26525	4.01	ug/L	97
111) p-isopropyltoluene	15.762	119	48647	3.71	ug/L	99
112) 1,4-dichlorobenzene	15.909	146	26572	3.96	ug/L	97
113) 1,2-dichlorobenzene	16.286	146	25846	3.92	ug/L	98
114) n-butylbenzene	16.166	92	23856	3.63	ug/L	98
115) 1,2-dibromo-3-chloropr...	17.015	157	2607	3.45	ug/L	88
116) 1,3,5-trichlorobenzene	17.188	180	20587	3.64	ug/L	97
117) 1,2,4-trichlorobenzene	17.759	180	16263	3.37	ug/L	96
119) hexachlorobutadiene	17.864	225	9407	3.80	ug/L	98
120) naphthalene	18.011	128	36292	3.33	ug/L	98
121) 1,2,3-trichlorobenzene	18.237	180	15119	3.42	ug/L	95
122) hexachloroethane	16.538	201	7486	3.47	ug/L	93
123) benzyl chloride	16.019	91	21708	3.43	ug/L	97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162820.D
Acq On : 14 Jul 2020 8:32 pm
Operator : brittank
Sample : ic8157-4
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 15 11:50:32 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 10:49:37 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162821.D
Acq On : 14 Jul 2020 9:03 pm
Operator : brittank
Sample : ic8157-8
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 15 10:52:32 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 10:49:37 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.300	65	143210	500.00	ug/L	0.00
5) pentafluorobenzene	9.528	168	277211	50.00	ug/L	0.00
53) 1,4-difluorobenzene	10.446	114	411972	50.00	ug/L	0.00
74) chlorobenzene-d5	13.586	117	340042	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	15.883	152	169793	50.00	ug/L	0.00
System Monitoring Compounds						
47) dibromofluoromethane (s)	9.575	113	137669	49.91	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.82%			
54) 1,2-dichloroethane-d4 (s)	9.995	65	156253	50.14	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 100.28%			
75) toluene-d8 (s)	12.081	98	534570	49.74	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.48%			
98) 4-bromofluorobenzene (s)	14.729	95	191117	50.51	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 101.02%			
Target Compounds						Qvalue
2) ethanol	6.052	45	31778	823.49	ug/L	97
3) tertiary butyl alcohol	7.415	59	18455	43.56	ug/L	93
4) 1,4-dioxane	11.169	88	6490	205.76	ug/L	97
6) chlorodifluoromethane	4.002	51	45307	7.86	ug/L	99
7) dichlorodifluoromethane	3.976	85	47701	7.50	ug/L	98
8) chloromethane	4.369	50	50327	7.83	ug/L	99
9) vinyl chloride	4.605	62	46958	7.78	ug/L	98
10) bromomethane	5.223	94	27058	8.02	ug/L	99
11) chloroethane	5.381	64	25616	7.82	ug/L	96
12) trichlorofluoromethane	5.837	101	45511	7.74	ug/L	99
13) 1,3-butadiene	4.631	54	33557	7.55	ug/L	98
14) vinyl bromide	5.722	106	17520	7.58	ug/L	99
15) ethyl ether	6.225	74	16460	7.84	ug/L	88
16) acrolein	6.471	56	5552	7.81	ug/L	98
17) freon 113	6.602	151	21497	7.74	ug/L	99
18) 1,1-dichloroethene	6.639	61	43204	7.66	ug/L	99
19) acetone	6.681	43	28189	31.88	ug/L	98
20) acetonitrile	7.111	41	38824	81.21	ug/L	98
21) iodomethane	6.912	142	44436	7.59	ug/L	99
22) carbon disulfide	7.048	76	76213	7.59	ug/L	98
23) methylene chloride	7.347	84	29881	7.77	ug/L	99
24) methyl acetate	7.148	43	21593	7.99	ug/L	99
25) methyl tert butyl ether	7.672	73	74825	7.46	ug/L	98
26) trans-1,2-dichloroethene	7.724	61	42469	7.77	ug/L	98
27) hexane	8.023	56	22668	7.71	ug/L	97
28) di-isopropyl ether	8.259	45	101671	7.58	ug/L #	62
29) ethyl tert-butyl ether	8.726	59	93850	7.55	ug/L	97
30) 2-butanone	8.988	72	10940	30.39	ug/L	96
31) 1,1-dichloroethane	8.280	63	53103	7.82	ug/L	98
32) chloroprene	8.390	53	40224	7.36	ug/L	99
33) acrylonitrile	7.672	53	10160	7.58	ug/L	90
34) vinyl acetate	8.285	86	5005	6.43	ug/L #	37
35) ethyl acetate	9.009	45	4455	7.81	ug/L #	39
36) 2,2-dichloropropane	9.014	77	39193	7.90	ug/L	95
37) cis-1,2-dichloroethene	9.014	96	29689	7.67	ug/L	97
38) propionitrile	9.082	54	38654	79.78	ug/L	94
39) methyl acrylate	9.103	85	3258	6.67	ug/L #	61
40) bromochloromethane	9.329	128	13754	7.64	ug/L	99
41) tetrahydrofuran	9.371	72	3318	7.91	ug/L #	82
42) chloroform	9.381	83	46859	7.84	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162821.D
Acq On : 14 Jul 2020 9:03 pm
Operator : brittank
Sample : ic8157-8
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 15 10:52:32 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 10:49:37 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
43) t-butyl formate	9.418	59	20382	6.58	ug/L		93
44) 1,1-dichloropropene	9.811	75	38821	7.77	ug/L		98
45) carbon tetrachloride	9.843	117	35415	7.71	ug/L		96
46) isopropyl acetate	9.995	87	5713	7.39	ug/L	#	82
48) methacrylonitrile	9.271	67	10535	7.77	ug/L		92
49) 1,1,1-trichloroethane	9.638	97	41255	7.69	ug/L		96
50) cyclohexane	9.711	84	45265	7.38	ug/L	#	86
51) iso-butyl alcohol	9.822	43	10363	73.55	ug/L		97
52) tert amyl alcohol	9.947	73	6622	39.98	ug/L		95
55) 2,2,4-trimethylpentane	10.073	57	107325	7.56	ug/L		98
56) n-butyl alcohol	10.577	56	34508	357.59	ug/L		98
57) benzene	10.073	78	115371	7.89	ug/L		99
58) tert-amyl methyl ether	10.105	73	88998	7.73	ug/L		98
59) heptane	10.246	57	21022	7.62	ug/L		94
60) 1,2-dichloroethane	10.089	62	35224	7.95	ug/L		98
61) ethyl acrylate	10.797	55	29816	7.17	ug/L		93
62) trichloroethene	10.792	95	27318	7.86	ug/L		97
63) 2-nitropropane	11.568	41	8179	7.90	ug/L	#	1
64) 2-chloroethyl vinyl ether	11.578	63	75980	37.60	ug/L		98
65) methyl methacrylate	11.064	100	6034	7.11	ug/L	#	75
66) 1,2-dichloropropane	11.048	63	30915	7.88	ug/L		100
67) methylcyclohexane	11.007	83	52346	7.38	ug/L		99
68) dibromomethane	11.211	93	15606	7.76	ug/L		96
69) bromodichloromethane	11.337	83	34644	7.69	ug/L		98
70) epichlorohydrin	11.699	57	12833	39.70	ug/L		98
71) cis-1,3-dichloropropene	11.793	75	44326	7.47	ug/L		98
72) 4-methyl-2-pentanone	11.882	58	40236	30.98	ug/L		97
73) 3-methyl-1-butanol	11.914	70	13168	143.53	ug/L		98
76) toluene	12.155	92	66925	7.84	ug/L		99
77) ethyl methacrylate	12.349	69	29656	7.00	ug/L		98
78) trans-1,3-dichloropropene	12.354	75	37555	7.42	ug/L		96
79) 1,1,2-trichloroethane	12.564	83	19201	7.89	ug/L		99
80) tetrachloroethene	12.737	164	21507	7.85	ug/L		97
81) 2-hexanone	12.737	58	33968	28.59	ug/L		98
82) 1,3-dichloropropane	12.747	76	40148	7.94	ug/L		98
83) butyl acetate	12.810	56	17114	7.38	ug/L		92
84) dibromochloromethane	13.009	129	22421	7.17	ug/L		98
85) 1,2-dibromoethane	13.156	107	29217	7.79	ug/L		96
86) n-butyl ether	13.528	57	117513	7.32	ug/L		99
87) chlorobenzene	13.618	112	69339	7.81	ug/L		98
88) 1,1,1,2-tetrachloroethane	13.670	131	24280	7.76	ug/L		95
89) ethylbenzene	13.670	91	120277	7.81	ug/L		100
90) m,p-xylene	13.775	106	91153	15.50	ug/L		98
91) o-xylene	14.189	91	97113	7.78	ug/L		99
92) styrene	14.205	104	70131	7.35	ug/L		96
93) butyl acrylate	14.016	55	43318	6.71	ug/L		97
94) bromoform	14.462	173	13852	7.11	ug/L		99
95) isopropylbenzene	14.530	105	114455	7.58	ug/L		99
96) cis-1,4-dichloro-2-butene	14.598	75	8719	6.86	ug/L		95
99) bromobenzene	14.928	156	28038	7.87	ug/L		93
100) 1,1,2,2-tetrachloroethane	14.834	83	28093	7.94	ug/L		98
101) trans-1,4-dichloro-2-b...	14.876	53	6937	7.21	ug/L		96
102) 1,2,3-trichloropropane	14.902	110	7626	8.01	ug/L		99
103) n-propylbenzene	14.934	91	135263	7.92	ug/L		99
104) 2-chlorotoluene	15.080	126	27555	8.05	ug/L		95
105) 4-chlorotoluene	15.180	91	81939	8.00	ug/L		97
106) 1,3,5-trimethylbenzene	15.086	105	95681	7.77	ug/L		99
107) tert-butylbenzene	15.432	119	81036	7.50	ug/L		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162821.D
Acq On : 14 Jul 2020 9:03 pm
Operator : brittank
Sample : ic8157-8
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 15 10:52:32 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 10:49:37 2020
Response via : Initial Calibration

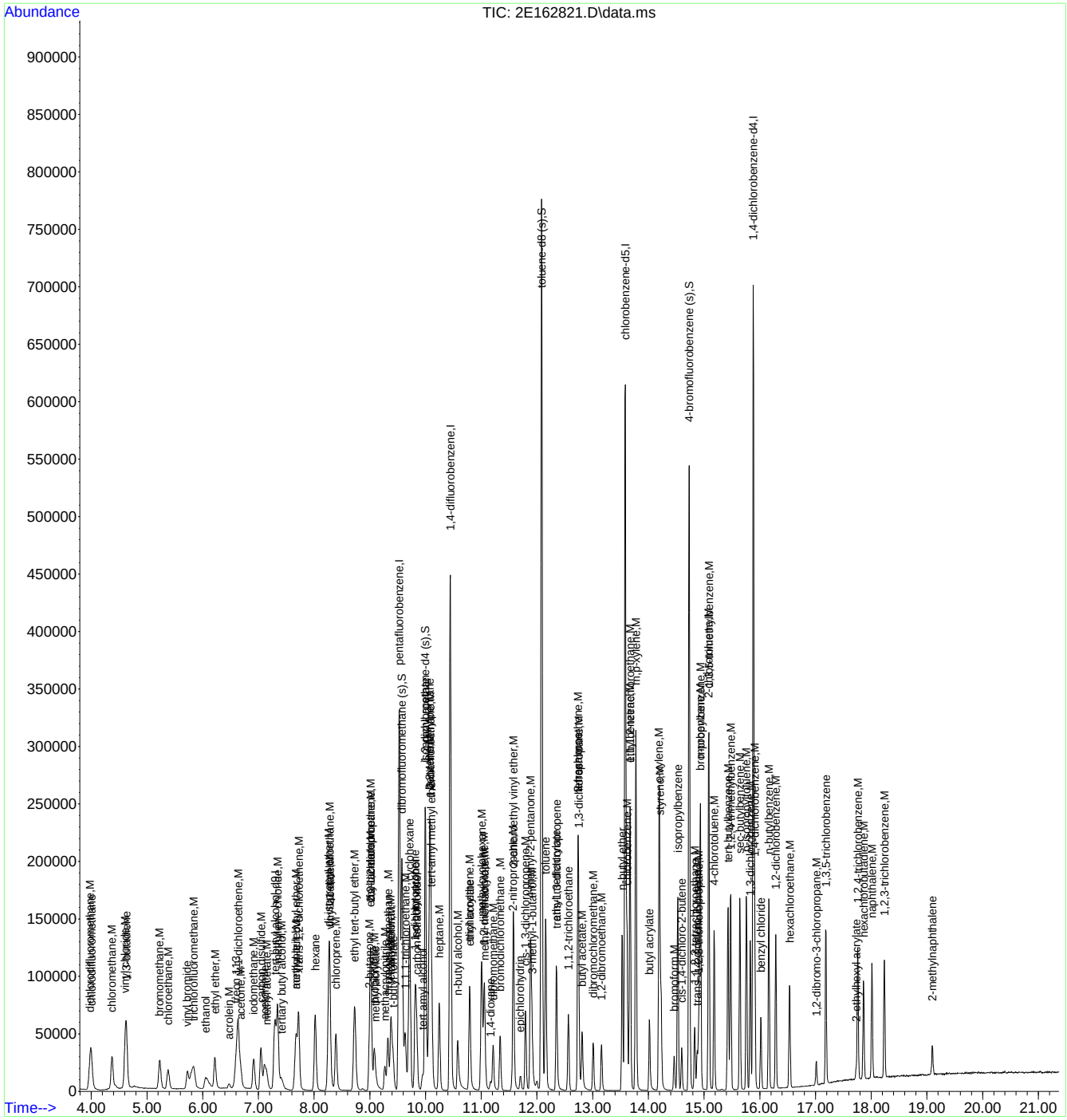
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
108) 1,2,4-trimethylbenzene	15.479	105	95182	7.79	ug/L		97
109) sec-butylbenzene	15.641	105	119517	7.71	ug/L		99
110) 1,3-dichlorobenzene	15.830	146	52017	7.99	ug/L		98
111) p-isopropyltoluene	15.757	119	97517	7.55	ug/L		99
112) 1,4-dichlorobenzene	15.909	146	51392	7.78	ug/L		98
113) 1,2-dichlorobenzene	16.286	146	50736	7.82	ug/L		98
114) n-butylbenzene	16.160	92	48185	7.44	ug/L		99
115) 1,2-dibromo-3-chloropr...	17.015	157	5440	7.30	ug/L		93
116) 1,3,5-trichlorobenzene	17.188	180	41182	7.39	ug/L		100
117) 1,2,4-trichlorobenzene	17.760	180	32994	6.93	ug/L		99
118) 2-ethylhexyl acrylate	17.728	70	2483	0.94	ug/L	#	75
119) hexachlorobutadiene	17.864	225	18551	7.60	ug/L		98
120) naphthalene	18.011	128	74190	6.90	ug/L		98
121) 1,2,3-trichlorobenzene	18.237	180	31574	7.24	ug/L		98
122) hexachloroethane	16.538	201	15282	7.19	ug/L		94
123) benzyl chloride	16.019	91	44200	7.09	ug/L		98
124) 2-methylnaphthalene	19.097	142	12694	2.65	ug/L		99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162821.D
Acq On : 14 Jul 2020 9:03 pm
Operator : brittank
Sample : ic8157-8
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 15 10:52:32 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 10:49:37 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162822.D
Acq On : 14 Jul 2020 9:33 pm
Operator : brittank
Sample : ic8157-20
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 15 10:52:35 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 10:49:37 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.294	65	139633	500.00	ug/L	0.00
5) pentafluorobenzene	9.528	168	274282	50.00	ug/L	0.00
53) 1,4-difluorobenzene	10.445	114	407950	50.00	ug/L	0.00
74) chlorobenzene-d5	13.586	117	333756	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	15.883	152	167645	50.00	ug/L	0.00
System Monitoring Compounds						
47) dibromofluoromethane (s)	9.575	113	137130	50.25	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.50%			
54) 1,2-dichloroethane-d4 (s)	9.995	65	155306	50.32	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 100.64%			
75) toluene-d8 (s)	12.081	98	535737	50.79	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 101.58%			
98) 4-bromofluorobenzene (s)	14.729	95	190540	51.01	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 102.02%			
Target Compounds						Qvalue
2) ethanol	6.052	45	75141	1997.06	ug/L	99
3) tertiary butyl alcohol	7.410	59	43609	105.57	ug/L	93
4) 1,4-dioxane	11.164	88	15474	503.15	ug/L	94
6) chlorodifluoromethane	3.997	51	115177	20.19	ug/L	97
7) dichlorodifluoromethane	3.976	85	120568	19.16	ug/L	96
8) chloromethane	4.374	50	124758	19.61	ug/L	98
9) vinyl chloride	4.605	62	116022	19.42	ug/L	99
10) bromomethane	5.229	94	65757	19.69	ug/L	98
11) chloroethane	5.381	64	62330	19.22	ug/L	99
12) trichlorofluoromethane	5.832	101	112272	19.30	ug/L	99
13) 1,3-butadiene	4.620	54	85975	19.54	ug/L	97
14) vinyl bromide	5.722	106	43632	19.07	ug/L	93
15) ethyl ether	6.220	74	41348	19.89	ug/L	97
16) acrolein	6.466	56	13602	19.33	ug/L	93
17) freon 113	6.608	151	53922	19.62	ug/L	94
18) 1,1-dichloroethene	6.639	61	109697	19.65	ug/L	98
19) acetone	6.676	43	70586	80.67	ug/L	98
20) acetonitrile	7.106	41	95339	201.56	ug/L	99
21) iodomethane	6.912	142	113443	19.58	ug/L	97
22) carbon disulfide	7.043	76	193815	19.51	ug/L	100
23) methylene chloride	7.342	84	75991	19.98	ug/L	97
24) methyl acetate	7.148	43	53577	20.02	ug/L	99
25) methyl tert butyl ether	7.672	73	192874	19.43	ug/L	98
26) trans-1,2-dichloroethene	7.719	61	106806	19.75	ug/L	98
27) hexane	8.023	56	57010	19.61	ug/L	94
28) di-isopropyl ether	8.264	45	259543	19.55	ug/L	95
29) ethyl tert-butyl ether	8.726	59	239953	19.52	ug/L	99
30) 2-butanone	8.983	72	28008	78.62	ug/L	99
31) 1,1-dichloroethane	8.280	63	136279	20.29	ug/L	99
32) chloroprene	8.385	53	104900	19.41	ug/L	98
33) acrylonitrile	7.672	53	26297	19.84	ug/L	98
34) vinyl acetate	8.270	86	14281	18.54	ug/L	98
35) ethyl acetate	8.998	45	11231	19.89	ug/L #	85
36) 2,2-dichloropropane	9.014	77	98078	19.97	ug/L	98
37) cis-1,2-dichloroethene	9.014	96	76932	20.10	ug/L	98
38) propionitrile	9.072	54	94375	196.86	ug/L	92
39) methyl acrylate	9.082	85	8942	18.49	ug/L #	90
40) bromochloromethane	9.323	128	34181	19.19	ug/L	90
41) tetrahydrofuran	9.371	72	8282	19.97	ug/L	91
42) chloroform	9.381	83	118166	19.97	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162822.D
Acq On : 14 Jul 2020 9:33 pm
Operator : brittank
Sample : ic8157-20
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 15 10:52:35 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 10:49:37 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
43) t-butyl formate	9.413	59	56104	18.30	ug/L		93
44) 1,1-dichloropropene	9.811	75	97309	19.69	ug/L		97
45) carbon tetrachloride	9.843	117	88713	19.51	ug/L		98
46) isopropyl acetate	9.995	87	15156	19.81	ug/L	#	89
48) methacrylonitrile	9.261	67	25881	19.30	ug/L		98
49) 1,1,1-trichloroethane	9.633	97	104103	19.62	ug/L		97
50) cyclohexane	9.711	84	114302	18.82	ug/L		91
51) iso-butyl alcohol	9.816	43	27780	199.28	ug/L		98
52) tert amyl alcohol	9.947	73	16811	102.58	ug/L		88
55) 2,2,4-trimethylpentane	10.073	57	267548	19.04	ug/L		99
56) n-butyl alcohol	10.571	56	90404	946.05	ug/L		98
57) benzene	10.073	78	288662	19.93	ug/L		99
58) tert-amyl methyl ether	10.105	73	226706	19.89	ug/L		98
59) heptane	10.246	57	52383	19.17	ug/L		98
60) 1,2-dichloroethane	10.089	62	87763	20.01	ug/L		99
61) ethyl acrylate	10.792	55	77950	18.93	ug/L		98
62) trichloroethene	10.792	95	68292	19.84	ug/L		98
63) 2-nitropropane	11.562	41	20436	19.95	ug/L	#	1
64) 2-chloroethyl vinyl ether	11.573	63	194357	97.13	ug/L		99
65) methyl methacrylate	11.054	100	15841	18.85	ug/L	#	89
66) 1,2-dichloropropane	11.048	63	77358	19.91	ug/L		99
67) methylcyclohexane	11.007	83	134848	19.19	ug/L		98
68) dibromomethane	11.211	93	39892	20.02	ug/L		96
69) bromodichloromethane	11.337	83	87457	19.62	ug/L		99
70) epichlorohydrin	11.699	57	31845	99.48	ug/L		94
71) cis-1,3-dichloropropene	11.793	75	112995	19.23	ug/L		99
72) 4-methyl-2-pentanone	11.882	58	100649	78.26	ug/L		99
73) 3-methyl-1-butanol	11.908	70	35526	391.06	ug/L		90
76) toluene	12.155	92	167032	19.94	ug/L		99
77) ethyl methacrylate	12.343	69	78603	18.90	ug/L		100
78) trans-1,3-dichloropropene	12.354	75	96171	19.36	ug/L		99
79) 1,1,2-trichloroethane	12.564	83	47512	19.88	ug/L		97
80) tetrachloroethene	12.742	164	54385	20.22	ug/L		96
81) 2-hexanone	12.731	58	90194	77.34	ug/L		98
82) 1,3-dichloropropane	12.742	76	99377	20.01	ug/L		99
83) butyl acetate	12.810	56	44488	19.54	ug/L		96
84) dibromochloromethane	13.009	129	59399	19.35	ug/L		98
85) 1,2-dibromoethane	13.156	107	71439	19.40	ug/L		97
86) n-butyl ether	13.528	57	305389	19.38	ug/L		100
87) chlorobenzene	13.612	112	174175	20.00	ug/L		98
88) 1,1,1,2-tetrachloroethane	13.675	131	61126	19.90	ug/L		97
89) ethylbenzene	13.670	91	301968	19.98	ug/L		100
90) m,p-xylene	13.775	106	231365	40.08	ug/L		99
91) o-xylene	14.189	91	244568	19.96	ug/L		98
92) styrene	14.200	104	185175	19.77	ug/L		100
93) butyl acrylate	14.016	55	117346	18.51	ug/L		99
94) bromoform	14.462	173	35900	18.78	ug/L		99
95) isopropylbenzene	14.530	105	293135	19.78	ug/L		99
96) cis-1,4-dichloro-2-butene	14.598	75	23425	18.78	ug/L		95
99) bromobenzene	14.928	156	70982	20.18	ug/L		94
100) 1,1,2,2-tetrachloroethane	14.829	83	69648	19.94	ug/L		99
101) trans-1,4-dichloro-2-b...	14.871	53	17976	18.92	ug/L		96
102) 1,2,3-trichloropropane	14.902	110	18575	19.76	ug/L		98
103) n-propylbenzene	14.934	91	340024	20.17	ug/L		99
104) 2-chlorotoluene	15.080	126	68460	20.25	ug/L		99
105) 4-chlorotoluene	15.180	91	202041	19.97	ug/L		99
106) 1,3,5-trimethylbenzene	15.086	105	244006	20.08	ug/L		100
107) tert-butylbenzene	15.432	119	208592	19.56	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162822.D
Acq On : 14 Jul 2020 9:33 pm
Operator : brittank
Sample : ic8157-20
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 15 10:52:35 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 10:49:37 2020
Response via : Initial Calibration

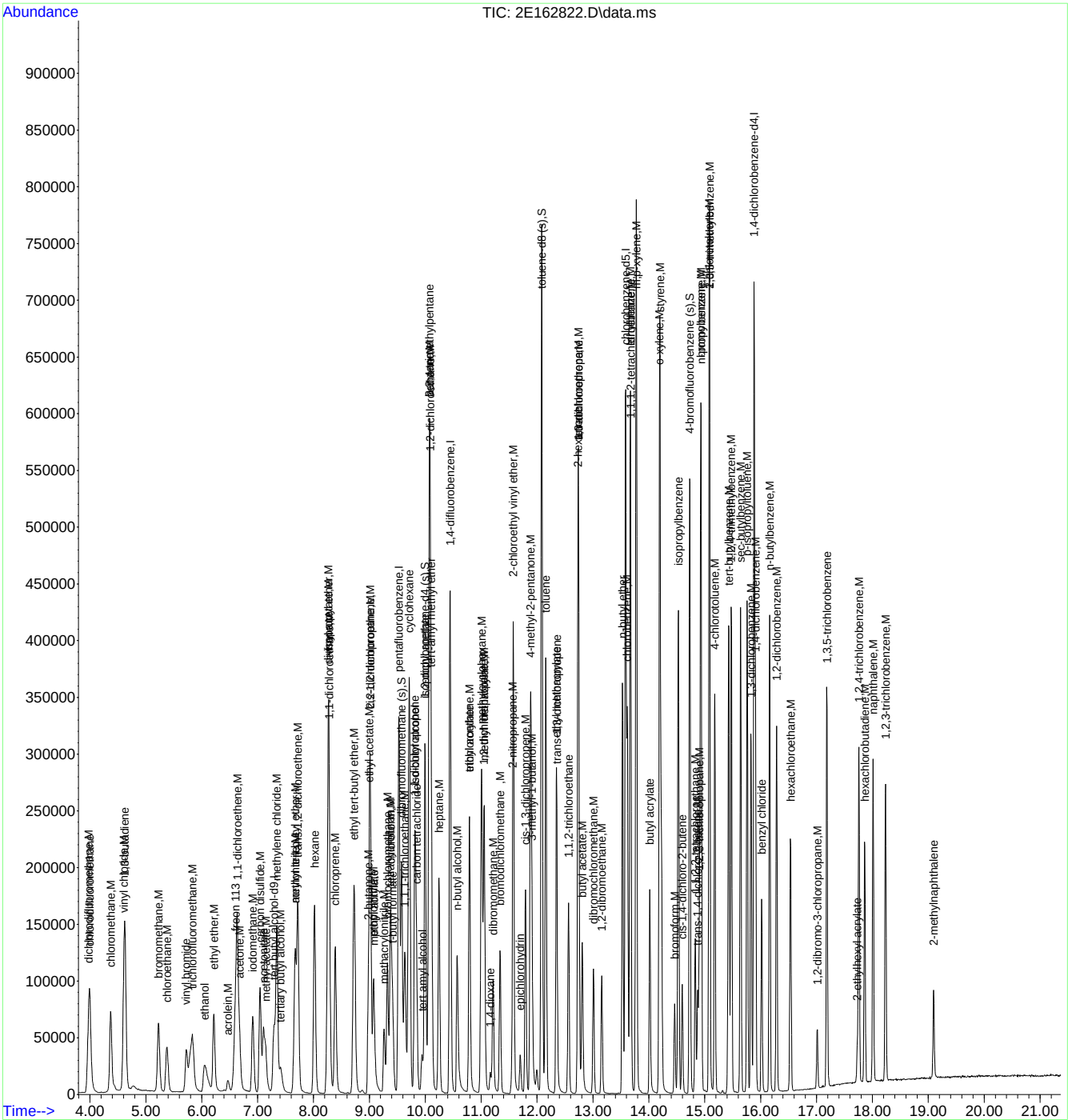
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
108) 1,2,4-trimethylbenzene	15.474	105	241075	19.99	ug/L	99
109) sec-butylbenzene	15.641	105	301065	19.68	ug/L	100
110) 1,3-dichlorobenzene	15.830	146	128257	19.95	ug/L	97
111) p-isopropyltoluene	15.757	119	250504	19.63	ug/L	99
112) 1,4-dichlorobenzene	15.909	146	128905	19.76	ug/L	98
113) 1,2-dichlorobenzene	16.286	146	127236	19.85	ug/L	100
114) n-butylbenzene	16.160	92	124611	19.50	ug/L	96
115) 1,2-dibromo-3-chloropr...	17.015	157	14160	19.25	ug/L	94
116) 1,3,5-trichlorobenzene	17.188	180	105646	19.21	ug/L	97
117) 1,2,4-trichlorobenzene	17.760	180	87632	18.64	ug/L	97
118) 2-ethylhexyl acrylate	17.728	70	7359	2.84	ug/L	97
119) hexachlorobutadiene	17.864	225	46726	19.38	ug/L	98
120) naphthalene	18.011	128	200413	18.88	ug/L	98
121) 1,2,3-trichlorobenzene	18.237	180	81264	18.88	ug/L	99
122) hexachloroethane	16.538	201	38889	18.53	ug/L	96
123) benzyl chloride	16.019	91	116749	18.97	ug/L	99
124) 2-methylnaphthalene	19.096	142	39012	8.25	ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162822.D
Acq On : 14 Jul 2020 9:33 pm
Operator : brittank
Sample : ic8157-20
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 15 10:52:35 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 10:49:37 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162823.D
Acq On : 14 Jul 2020 10:03 pm
Operator : brittank
Sample : icc8157-50
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 15 10:52:38 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 10:49:37 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.300	65	136898	500.00	ug/L	0.00
5) pentafluorobenzene	9.528	168	271726	50.00	ug/L	0.00
53) 1,4-difluorobenzene	10.445	114	404639	50.00	ug/L	0.00
74) chlorobenzene-d5	13.586	117	333201	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	15.883	152	169378	50.00	ug/L	0.00
System Monitoring Compounds						
47) dibromofluoromethane (s)	9.575	113	135189	50.00	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.00%			
54) 1,2-dichloroethane-d4 (s)	9.995	65	153052	50.00	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 100.00%			
75) toluene-d8 (s)	12.081	98	526556	50.00	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.00%			
98) 4-bromofluorobenzene (s)	14.729	95	188712	50.00	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.00%			
Target Compounds						Qvalue
2) ethanol	6.052	45	184700	5006.94	ug/L	100
3) tertiary butyl alcohol	7.415	59	101041	249.48	ug/L	95
4) 1,4-dioxane	11.164	88	37742	1251.73	ug/L	100
6) chlorodifluoromethane	3.997	51	282520	50.00	ug/L	100
7) dichlorodifluoromethane	3.970	85	311661	50.00	ug/L	100
8) chloromethane	4.374	50	315971	50.13	ug/L	100
9) vinyl chloride	4.599	62	295907	50.00	ug/L	100
10) bromomethane	5.229	94	165456	50.00	ug/L	100
11) chloroethane	5.375	64	160632	50.00	ug/L	100
12) trichlorofluoromethane	5.832	101	288147	50.00	ug/L	100
13) 1,3-butadiene	4.626	54	217933	50.00	ug/L	100
14) vinyl bromide	5.721	106	113320	50.00	ug/L	100
15) ethyl ether	6.214	74	102950	50.00	ug/L	100
16) acrolein	6.466	56	34860	50.00	ug/L	100
17) freon 113	6.608	151	136162	50.00	ug/L	100
18) 1,1-dichloroethene	6.634	61	276518	50.00	ug/L	100
19) acetone	6.670	43	173210	199.82	ug/L	100
20) acetonitrile	7.106	41	234301	500.00	ug/L	100
21) iodomethane	6.912	142	286986	50.00	ug/L	100
22) carbon disulfide	7.043	76	492199	50.00	ug/L	100
23) methylene chloride	7.342	84	188439	50.00	ug/L	100
24) methyl acetate	7.137	43	132531	50.00	ug/L	100
25) methyl tert butyl ether	7.672	73	491781	50.00	ug/L	100
26) trans-1,2-dichloroethene	7.719	61	267882	50.00	ug/L	100
27) hexane	8.018	56	144027	50.00	ug/L	100
28) di-isopropyl ether	8.259	45	657652	50.00	ug/L	100
29) ethyl tert-butyl ether	8.726	59	608893	50.00	ug/L	100
30) 2-butanone	8.972	72	70583	200.00	ug/L	100
31) 1,1-dichloroethane	8.280	63	332636	50.00	ug/L	100
32) chloroprene	8.385	53	267699	50.00	ug/L	100
33) acrylonitrile	7.667	53	65670	50.00	ug/L	100
34) vinyl acetate	8.264	86	38160	50.00	ug/L	100
35) ethyl acetate	8.998	45	27965	50.00	ug/L	100
36) 2,2-dichloropropane	9.014	77	243243	50.00	ug/L	100
37) cis-1,2-dichloroethene	9.009	96	189608	50.00	ug/L	100
38) propionitrile	9.067	54	237125	499.29	ug/L	100
39) methyl acrylate	9.082	85	23955	50.00	ug/L	100
40) bromochloromethane	9.323	128	88237	50.00	ug/L	100
41) tetrahydrofuran	9.365	72	20548	50.00	ug/L	100
42) chloroform	9.376	83	293066	50.00	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162823.D
Acq On : 14 Jul 2020 10:03 pm
Operator : brittank
Sample : icc8157-50
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 15 10:52:38 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 10:49:37 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) t-butyl formate	9.413	59	151859	50.00	ug/L	100
44) 1,1-dichloropropene	9.811	75	244841	50.00	ug/L	100
45) carbon tetrachloride	9.837	117	225258	50.00	ug/L	100
46) isopropyl acetate	9.989	87	37888	50.00	ug/L	100
48) methacrylonitrile	9.255	67	66438	50.00	ug/L	100
49) 1,1,1-trichloroethane	9.633	97	262806	50.00	ug/L	100
50) cyclohexane	9.706	84	299074	49.72	ug/L	100
51) iso-butyl alcohol	9.811	43	69051	500.00	ug/L	100
52) tert amyl alcohol	9.942	73	41400	255.00	ug/L	100
55) 2,2,4-trimethylpentane	10.073	57	697072	50.00	ug/L	100
56) n-butyl alcohol	10.566	56	236960	2500.00	ug/L	100
57) benzene	10.073	78	718158	50.00	ug/L	100
58) tert-amyl methyl ether	10.105	73	565386	50.00	ug/L	100
59) heptane	10.241	57	135220	49.88	ug/L	100
60) 1,2-dichloroethane	10.084	62	217495	50.00	ug/L	100
61) ethyl acrylate	10.786	55	204200	50.00	ug/L	100
62) trichloroethene	10.786	95	170687	50.00	ug/L	100
63) 2-nitropropane	11.552	41	50814	50.00	ug/L	100
64) 2-chloroethyl vinyl ether	11.573	63	496166	250.00	ug/L	100
65) methyl methacrylate	11.054	100	41687	50.00	ug/L	100
66) 1,2-dichloropropane	11.048	63	192692	50.00	ug/L	100
67) methylcyclohexane	11.006	83	348467	50.00	ug/L	100
68) dibromomethane	11.211	93	98800	50.00	ug/L	100
69) bromodichloromethane	11.337	83	221122	50.00	ug/L	100
70) epichlorohydrin	11.693	57	79139	249.24	ug/L	100
71) cis-1,3-dichloropropene	11.793	75	291463	50.00	ug/L	100
72) 4-methyl-2-pentanone	11.882	58	255135	200.00	ug/L	100
73) 3-methyl-1-butanol	11.903	70	90108	1000.00	ug/L	100
76) toluene	12.155	92	418244	50.00	ug/L	100
77) ethyl methacrylate	12.343	69	207603	50.00	ug/L	100
78) trans-1,3-dichloropropene	12.349	75	247905	50.00	ug/L	100
79) 1,1,2-trichloroethane	12.564	83	119304	50.00	ug/L	100
80) tetrachloroethene	12.737	164	134256	50.00	ug/L	100
81) 2-hexanone	12.726	58	232847	200.00	ug/L	100
82) 1,3-dichloropropane	12.742	76	247854	50.00	ug/L	100
83) butyl acetate	12.805	56	113673	50.00	ug/L	100
84) dibromochloromethane	13.009	129	153264	50.00	ug/L	100
85) 1,2-dibromoethane	13.156	107	183795	50.00	ug/L	100
86) n-butyl ether	13.528	57	786732	50.00	ug/L	100
87) chlorobenzene	13.618	112	434770	50.00	ug/L	100
88) 1,1,1,2-tetrachloroethane	13.675	131	153291	50.00	ug/L	100
89) ethylbenzene	13.670	91	754557	50.00	ug/L	100
90) m,p-xylene	13.775	106	576320	100.00	ug/L	100
91) o-xylene	14.189	91	611712	50.00	ug/L	100
92) styrene	14.200	104	467634	50.00	ug/L	100
93) butyl acrylate	14.016	55	316433	50.00	ug/L	100
94) bromoform	14.462	173	95412	50.00	ug/L	100
95) isopropylbenzene	14.530	105	739840	50.00	ug/L	100
96) cis-1,4-dichloro-2-butene	14.598	75	62276	50.00	ug/L	100
99) bromobenzene	14.923	156	177677	50.00	ug/L	100
100) 1,1,2,2-tetrachloroethane	14.829	83	176466	50.00	ug/L	100
101) trans-1,4-dichloro-2-b...	14.871	53	47995	50.00	ug/L	100
102) 1,2,3-trichloropropane	14.902	110	47489	50.00	ug/L	100
103) n-propylbenzene	14.934	91	854265	50.16	ug/L	100
104) 2-chlorotoluene	15.080	126	170759	50.00	ug/L	100
105) 4-chlorotoluene	15.180	91	510995	50.00	ug/L	100
106) 1,3,5-trimethylbenzene	15.086	105	613895	50.00	ug/L	100
107) tert-butylbenzene	15.426	119	538792	50.00	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162823.D
Acq On : 14 Jul 2020 10:03 pm
Operator : brittank
Sample : icc8157-50
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 15 10:52:38 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 10:49:37 2020
Response via : Initial Calibration

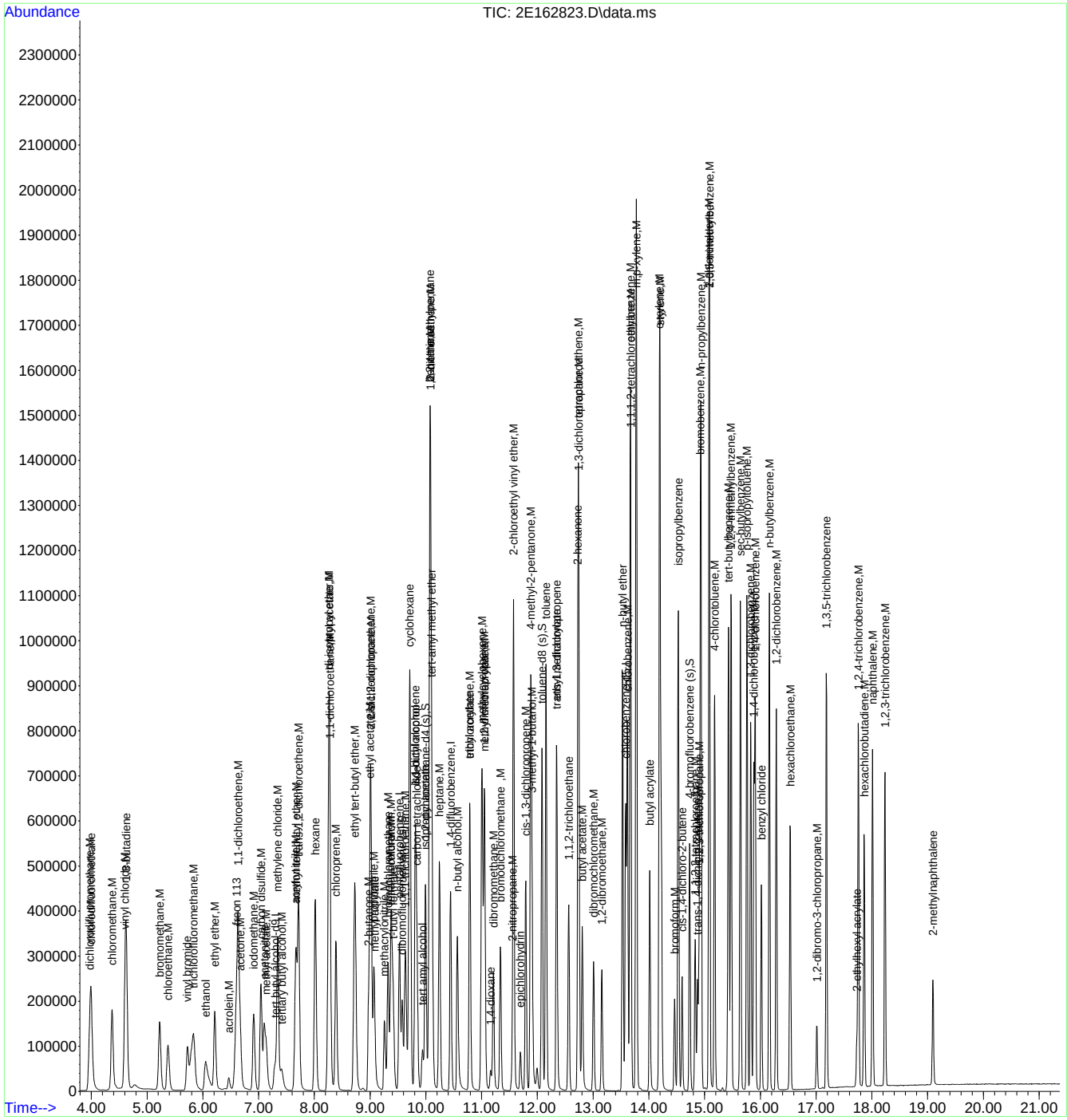
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
108) 1,2,4-trimethylbenzene	15.474	105	609110	50.00	ug/L	100
109) sec-butylbenzene	15.641	105	772965	50.00	ug/L	100
110) 1,3-dichlorobenzene	15.825	146	324765	50.00	ug/L	100
111) p-isopropyltoluene	15.757	119	644582	50.00	ug/L	100
112) 1,4-dichlorobenzene	15.909	146	329630	50.00	ug/L	100
113) 1,2-dichlorobenzene	16.286	146	323778	50.00	ug/L	100
114) n-butylbenzene	16.160	92	322840	50.00	ug/L	100
115) 1,2-dibromo-3-chloropr...	17.015	157	37151	50.00	ug/L	100
116) 1,3,5-trichlorobenzene	17.183	180	277812	50.00	ug/L	100
117) 1,2,4-trichlorobenzene	17.760	180	237520	50.00	ug/L	100
118) 2-ethylhexyl acrylate	17.728	70	26212	10.00	ug/L	100
119) hexachlorobutadiene	17.864	225	121788	50.00	ug/L	100
120) naphthalene	18.011	128	536367	50.00	ug/L	100
121) 1,2,3-trichlorobenzene	18.237	180	217393	50.00	ug/L	100
122) hexachloroethane	16.538	201	106027	50.00	ug/L	100
123) benzyl chloride	16.019	91	310963	50.00	ug/L	100
124) 2-methylnaphthalene	19.096	142	119400	25.00	ug/L	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162823.D
Acq On : 14 Jul 2020 10:03 pm
Operator : brittank
Sample : icc8157-50
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 15 10:52:38 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 10:49:37 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162824.D
Acq On : 14 Jul 2020 10:33 pm
Operator : brittank
Sample : ic8157-100
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 15 10:52:41 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 10:49:37 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.300	65	127176	500.00	ug/L	0.00
5) pentafluorobenzene	9.528	168	270122	50.00	ug/L	0.00
53) 1,4-difluorobenzene	10.445	114	408201	50.00	ug/L	0.00
74) chlorobenzene-d5	13.586	117	332746	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	15.882	152	172922	50.00	ug/L	0.00
System Monitoring Compounds						
47) dibromofluoromethane (s)	9.575	113	136248	50.69	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 101.38%			
54) 1,2-dichloroethane-d4 (s)	9.995	65	152210	49.29	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 98.58%			
75) toluene-d8 (s)	12.081	98	528339	50.24	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.48%			
98) 4-bromofluorobenzene (s)	14.729	95	192551	49.97	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.94%			
Target Compounds						Qvalue
2) ethanol	6.052	45	341078	9952.93	ug/L	97
3) tertiary butyl alcohol	7.410	59	184656	490.79	ug/L	98
4) 1,4-dioxane	11.158	88	72439	2586.14	ug/L	100
6) chlorodifluoromethane	3.996	51	557897	99.32	ug/L	99
7) dichlorodifluoromethane	3.975	85	581030	93.77	ug/L	99
8) chloromethane	4.374	50	604941	96.54	ug/L	100
9) vinyl chloride	4.605	62	569956	96.88	ug/L	100
10) bromomethane	5.223	94	311643	94.74	ug/L	98
11) chloroethane	5.375	64	304006	95.19	ug/L	99
12) trichlorofluoromethane	5.826	101	558971	97.57	ug/L	98
13) 1,3-butadiene	4.626	54	428983	99.01	ug/L	98
14) vinyl bromide	5.721	106	220823	98.01	ug/L	97
15) ethyl ether	6.214	74	203457	99.40	ug/L	99
16) acrolein	6.466	56	65680	94.76	ug/L	90
17) freon 113	6.602	151	267961	98.98	ug/L	97
18) 1,1-dichloroethene	6.634	61	548641	99.79	ug/L	99
19) acetone	6.670	43	330895	384.01	ug/L	100
20) acetonitrile	7.100	41	444138	953.42	ug/L	97
21) iodomethane	6.912	142	551041	96.57	ug/L	98
22) carbon disulfide	7.043	76	975407	99.68	ug/L	99
23) methylene chloride	7.342	84	368158	98.27	ug/L	99
24) methyl acetate	7.137	43	256346	97.29	ug/L	98
25) methyl tert butyl ether	7.672	73	975263	99.75	ug/L	99
26) trans-1,2-dichloroethene	7.719	61	528429	99.22	ug/L	99
27) hexane	8.018	56	286858	100.18	ug/L	97
28) di-isopropyl ether	8.259	45	1294555	99.01	ug/L	95
29) ethyl tert-butyl ether	8.726	59	1203053	99.38	ug/L	99
30) 2-butanone	8.972	72	138104	393.65	ug/L	99
31) 1,1-dichloroethane	8.280	63	656035	99.20	ug/L	99
32) chloroprene	8.385	53	539120	101.29	ug/L	99
33) acrylonitrile	7.661	53	128966	98.78	ug/L	98
34) vinyl acetate	8.259	86	75059	98.93	ug/L	99
35) ethyl acetate	8.993	45	54220	97.52	ug/L #	44
36) 2,2-dichloropropane	9.014	77	470718	97.33	ug/L	99
37) cis-1,2-dichloroethene	9.014	96	372513	98.82	ug/L	96
38) propionitrile	9.066	54	449496	952.07	ug/L	88
39) methyl acrylate	9.077	85	44894	94.26	ug/L #	69
40) bromochloromethane	9.323	128	173003	98.62	ug/L	100
41) tetrahydrofuran	9.365	72	41710	102.10	ug/L	91
42) chloroform	9.376	83	576285	98.90	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162824.D
Acq On : 14 Jul 2020 10:33 pm
Operator : brittank
Sample : ic8157-100
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 15 10:52:41 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 10:49:37 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) t-butyl formate	9.407	59	312108	103.37	ug/L	97
44) 1,1-dichloropropene	9.811	75	485718	99.78	ug/L	98
45) carbon tetrachloride	9.837	117	449884	100.45	ug/L	99
46) isopropyl acetate	9.995	87	75882	100.73	ug/L	94
48) methacrylonitrile	9.255	67	130798	99.02	ug/L	96
49) 1,1,1-trichloroethane	9.633	97	523459	100.18	ug/L	98
50) cyclohexane	9.706	84	578372	96.71	ug/L	95
51) iso-butyl alcohol	9.811	43	131991	961.43	ug/L	98
52) tert amyl alcohol	9.937	73	78483	486.27	ug/L	98
55) 2,2,4-trimethylpentane	10.073	57	1360816	96.76	ug/L	100
56) n-butyl alcohol	10.566	56	453313	4740.86	ug/L	98
57) benzene	10.073	78	1401570	96.73	ug/L	99
58) tert-amyl methyl ether	10.105	73	1105919	96.95	ug/L	99
59) heptane	10.241	57	269345	98.50	ug/L	100
60) 1,2-dichloroethane	10.084	62	429723	97.93	ug/L	100
61) ethyl acrylate	10.786	55	410095	99.54	ug/L	99
62) trichloroethene	10.786	95	339596	98.61	ug/L	99
63) 2-nitropropane	11.552	41	102778	100.25	ug/L	91
64) 2-chloroethyl vinyl ether	11.573	63	973190	486.08	ug/L	100
65) methyl methacrylate	11.054	100	82101	97.61	ug/L	98
66) 1,2-dichloropropane	11.048	63	381640	98.16	ug/L	99
67) methylcyclohexane	11.006	83	683906	97.27	ug/L	99
68) dibromomethane	11.211	93	193452	97.05	ug/L	99
69) bromodichloromethane	11.337	83	445765	99.92	ug/L	99
70) epichlorohydrin	11.693	57	156481	488.52	ug/L	97
71) cis-1,3-dichloropropene	11.793	75	580321	98.68	ug/L	100
72) 4-methyl-2-pentanone	11.882	58	494789	384.48	ug/L	99
73) 3-methyl-1-butanol	11.903	70	169522	1864.90	ug/L	98
76) toluene	12.155	92	828406	99.17	ug/L	99
77) ethyl methacrylate	12.338	69	419132	101.08	ug/L	99
78) trans-1,3-dichloropropene	12.349	75	489119	98.79	ug/L	98
79) 1,1,2-trichloroethane	12.564	83	235573	98.86	ug/L	99
80) tetrachloroethene	12.737	164	264928	98.80	ug/L	100
81) 2-hexanone	12.731	58	449998	387.05	ug/L	99
82) 1,3-dichloropropane	12.742	76	478577	96.68	ug/L	99
83) butyl acetate	12.805	56	223826	98.59	ug/L	97
84) dibromochloromethane	13.004	129	310894	101.56	ug/L	98
85) 1,2-dibromoethane	13.156	107	362868	98.85	ug/L	99
86) n-butyl ether	13.528	57	1560375	99.30	ug/L	99
87) chlorobenzene	13.612	112	857087	98.70	ug/L	98
88) 1,1,1,2-tetrachloroethane	13.675	131	305656	99.83	ug/L	98
89) ethylbenzene	13.670	91	1493440	99.10	ug/L	100
90) m,p-xylene	13.775	106	1136373	197.45	ug/L	99
91) o-xylene	14.189	91	1201581	98.35	ug/L	99
92) styrene	14.199	104	931839	99.77	ug/L	99
93) butyl acrylate	14.016	55	652718	103.28	ug/L	99
94) bromoform	14.462	173	195384	102.53	ug/L	99
95) isopropylbenzene	14.530	105	1469963	99.48	ug/L	99
96) cis-1,4-dichloro-2-butene	14.598	75	127845	102.78	ug/L	99
99) bromobenzene	14.923	156	354998	97.85	ug/L	97
100) 1,1,2,2-tetrachloroethane	14.829	83	347729	96.51	ug/L	98
101) trans-1,4-dichloro-2-b...	14.871	53	97813	99.81	ug/L	98
102) 1,2,3-trichloropropane	14.902	110	93020	95.93	ug/L	100
103) n-propylbenzene	14.933	91	1696951	97.59	ug/L	100
104) 2-chlorotoluene	15.080	126	340242	97.58	ug/L	100
105) 4-chlorotoluene	15.180	91	1028296	98.55	ug/L	100
106) 1,3,5-trimethylbenzene	15.086	105	1220718	97.39	ug/L	99
107) tert-butylbenzene	15.432	119	1072175	97.46	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162824.D
Acq On : 14 Jul 2020 10:33 pm
Operator : brittank
Sample : ic8157-100
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 15 10:52:41 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 10:49:37 2020
Response via : Initial Calibration

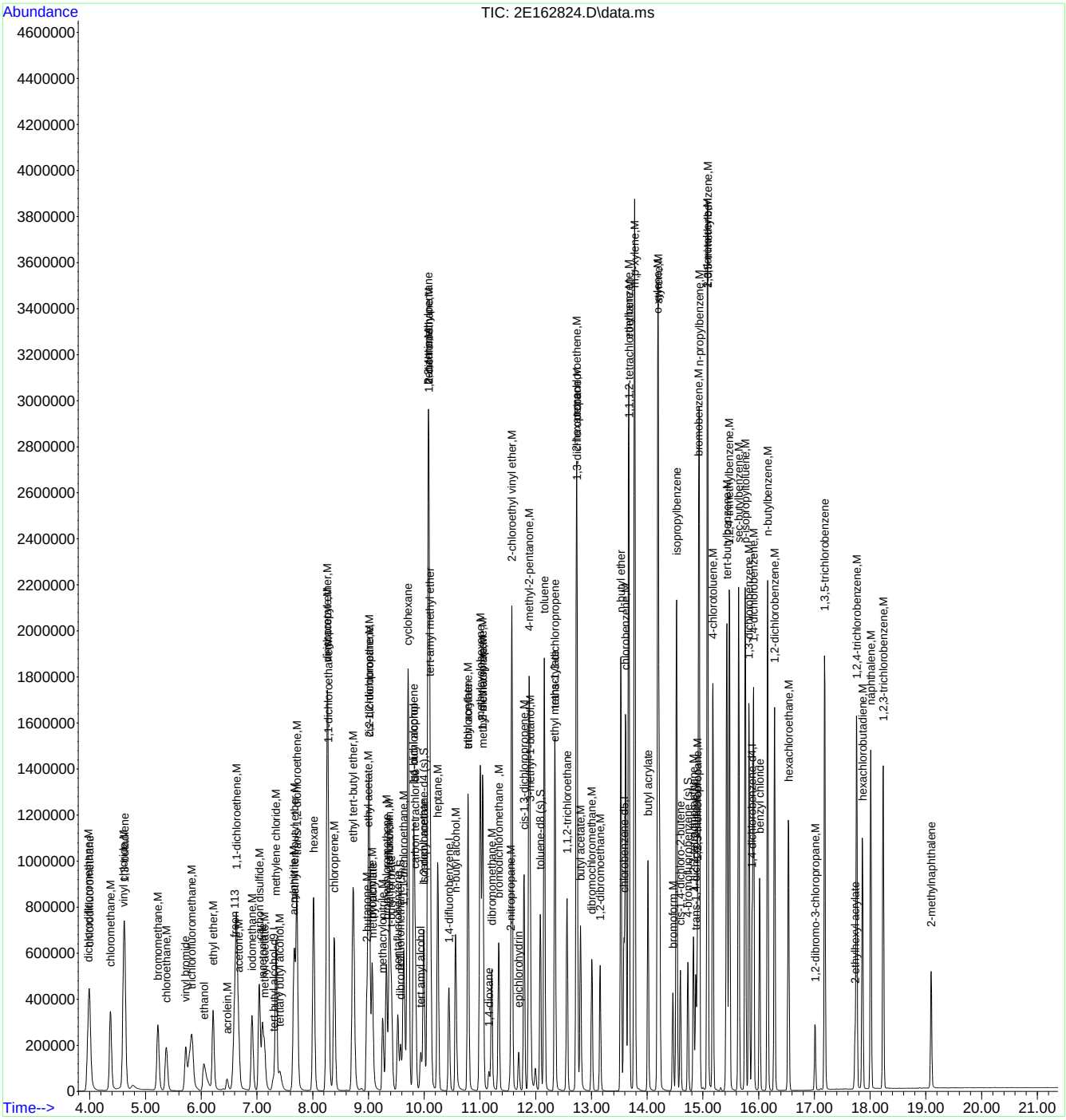
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
108) 1,2,4-trimethylbenzene	15.473	105	1222801	98.32	ug/L	99
109) sec-butylbenzene	15.641	105	1525493	96.66	ug/L	99
110) 1,3-dichlorobenzene	15.825	146	659860	99.51	ug/L	99
111) p-isopropyltoluene	15.762	119	1287735	97.84	ug/L	99
112) 1,4-dichlorobenzene	15.909	146	665777	98.92	ug/L	99
113) 1,2-dichlorobenzene	16.286	146	648883	98.15	ug/L	100
114) n-butylbenzene	16.160	92	651919	98.90	ug/L	98
115) 1,2-dibromo-3-chloropr...	17.015	157	76048	100.25	ug/L	97
116) 1,3,5-trichlorobenzene	17.183	180	559499	98.63	ug/L	98
117) 1,2,4-trichlorobenzene	17.759	180	483390	99.67	ug/L	99
118) 2-ethylhexyl acrylate	17.728	70	59598	22.27	ug/L	99
119) hexachlorobutadiene	17.864	225	243934	98.09	ug/L	99
120) naphthalene	18.011	128	1071857	97.87	ug/L	99
121) 1,2,3-trichlorobenzene	18.237	180	431656	97.25	ug/L	98
122) hexachloroethane	16.538	201	219456	101.37	ug/L	96
123) benzyl chloride	16.019	91	635545	100.10	ug/L	98
124) 2-methylnaphthalene	19.096	142	257659	52.84	ug/L	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162824.D
Acq On : 14 Jul 2020 10:33 pm
Operator : brittank
Sample : ic8157-100
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 15 10:52:41 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 10:49:37 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162825.D
Acq On : 14 Jul 2020 11:03 pm
Operator : brittank
Sample : ic8157-200
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 15 10:52:44 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 10:49:37 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.305	65	121812	500.00	ug/L	0.00
5) pentafluorobenzene	9.528	168	276940	50.00	ug/L	0.00
53) 1,4-difluorobenzene	10.445	114	414492	50.00	ug/L	0.00
74) chlorobenzene-d5	13.586	117	337190	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	15.882	152	177353	50.00	ug/L	0.00
System Monitoring Compounds						
47) dibromofluoromethane (s)	9.575	113	137271	49.81	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.62%			
54) 1,2-dichloroethane-d4 (s)	9.995	65	155153	49.48	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 98.96%			
75) toluene-d8 (s)	12.081	98	538480	50.53	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 101.06%			
98) 4-bromofluorobenzene (s)	14.729	95	199183	50.40	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.80%			
Target Compounds						Qvalue
2) ethanol	6.052	45	613183	18681.11	ug/L	98
3) tertiary butyl alcohol	7.415	59	342185	949.53	ug/L	99
4) 1,4-dioxane	11.164	88	133305	4968.68	ug/L	100
6) chlorodifluoromethane	3.996	51	1016418	176.50	ug/L	99
7) dichlorodifluoromethane	3.976	85	1149534	180.95	ug/L	99
8) chloromethane	4.374	50	1209242	188.23	ug/L	100
9) vinyl chloride	4.599	62	1128885	187.16	ug/L	99
10) bromomethane	5.218	94	588583	174.52	ug/L	96
11) chloroethane	5.370	64	588428	179.71	ug/L	98
12) trichlorofluoromethane	5.826	101	1114698	189.78	ug/L	100
13) 1,3-butadiene	4.626	54	766189	172.48	ug/L	99
14) vinyl bromide	5.721	106	436088	188.79	ug/L	100
15) ethyl ether	6.214	74	399246	190.25	ug/L	97
16) acrolein	6.461	56	128282	180.53	ug/L	94
17) freon 113	6.608	151	523961	188.78	ug/L	97
18) 1,1-dichloroethene	6.634	61	1067866	189.46	ug/L	98
19) acetone	6.670	43	650666	736.51	ug/L	99
20) acetonitrile	7.100	41	862024	1804.93	ug/L	98
21) iodomethane	6.912	142	1055358	180.41	ug/L	98
22) carbon disulfide	7.043	76	1879142	187.30	ug/L	100
23) methylene chloride	7.342	84	723890	188.46	ug/L	99
24) methyl acetate	7.137	43	515509	190.82	ug/L	99
25) methyl tert butyl ether	7.677	73	1925269	192.06	ug/L	99
26) trans-1,2-dichloroethene	7.719	61	1043710	191.14	ug/L	99
27) hexane	8.018	56	561525	191.27	ug/L	99
28) di-isopropyl ether	8.259	45	2527635	188.55	ug/L	92
29) ethyl tert-butyl ether	8.726	59	2351728	189.48	ug/L	99
30) 2-butanone	8.972	72	275255	765.26	ug/L	99
31) 1,1-dichloroethane	8.275	63	1254140	184.97	ug/L	99
32) chloroprene	8.385	53	1073899	196.80	ug/L	99
33) acrylonitrile	7.661	53	254205	189.90	ug/L	97
34) vinyl acetate	8.264	86	145962	187.65	ug/L #	86
35) ethyl acetate	8.998	45	107340	188.31	ug/L	99
36) 2,2-dichloropropane	9.014	77	913620	184.26	ug/L	99
37) cis-1,2-dichloroethene	9.009	96	726037	187.85	ug/L	99
38) propionitrile	9.066	54	873266	1804.12	ug/L	84
39) methyl acrylate	9.072	85	90872	186.10	ug/L #	72
40) bromochloromethane	9.323	128	341260	189.74	ug/L	100
41) tetrahydrofuran	9.365	72	79569	189.97	ug/L	96
42) chloroform	9.376	83	1138340	190.56	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162825.D
Acq On : 14 Jul 2020 11:03 pm
Operator : brittank
Sample : ic8157-200
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 15 10:52:44 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 10:49:37 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
43) t-butyl formate	9.407	59	633263	204.58	ug/L		94
44) 1,1-dichloropropene	9.811	75	961020	192.56	ug/L		97
45) carbon tetrachloride	9.837	117	894440	194.80	ug/L		98
46) isopropyl acetate	9.995	87	151560	196.24	ug/L		98
48) methacrylonitrile	9.255	67	262249	193.65	ug/L		98
49) 1,1,1-trichloroethane	9.633	97	1043480	194.79	ug/L		99
50) cyclohexane	9.711	84	1158881	189.02	ug/L	#	86
51) iso-butyl alcohol	9.811	43	257943	1832.61	ug/L		97
52) tert amyl alcohol	9.942	73	151001	912.55	ug/L		94
55) 2,2,4-trimethylpentane	10.073	57	2642135	185.01	ug/L		99
56) n-butyl alcohol	10.566	56	848529	8739.43	ug/L		100
57) benzene	10.073	78	2695358	183.20	ug/L		99
58) tert-amyl methyl ether	10.105	73	2130757	183.95	ug/L		99
59) heptane	10.241	57	538130	193.80	ug/L		99
60) 1,2-dichloroethane	10.084	62	843913	189.40	ug/L		99
61) ethyl acrylate	10.786	55	820099	196.03	ug/L		98
62) trichloroethene	10.786	95	671518	192.03	ug/L		99
63) 2-nitropropane	11.552	41	206643	198.50	ug/L		99
64) 2-chloroethyl vinyl ether	11.573	63	1888330	928.84	ug/L		99
65) methyl methacrylate	11.054	100	165397	193.66	ug/L		95
66) 1,2-dichloropropane	11.048	63	745499	188.84	ug/L		99
67) methylcyclohexane	11.006	83	1343239	188.15	ug/L		99
68) dibromomethane	11.211	93	383452	189.44	ug/L		99
69) bromodichloromethane	11.337	83	894793	197.52	ug/L		99
70) epichlorohydrin	11.693	57	310401	954.33	ug/L		98
71) cis-1,3-dichloropropene	11.793	75	1156998	193.76	ug/L		99
72) 4-methyl-2-pentanone	11.882	58	956819	732.22	ug/L		99
73) 3-methyl-1-butanol	11.903	70	308172	3338.73	ug/L		96
76) toluene	12.155	92	1637191	193.41	ug/L		98
77) ethyl methacrylate	12.338	69	831226	197.83	ug/L		97
78) trans-1,3-dichloropropene	12.349	75	966121	192.55	ug/L		97
79) 1,1,2-trichloroethane	12.564	83	471521	195.28	ug/L		98
80) tetrachloroethene	12.742	164	516568	190.11	ug/L		98
81) 2-hexanone	12.726	58	854658	725.41	ug/L		97
82) 1,3-dichloropropane	12.742	76	919349	183.27	ug/L		99
83) butyl acetate	12.805	56	438222	190.48	ug/L		98
84) dibromochloromethane	13.009	129	630032	203.11	ug/L		100
85) 1,2-dibromoethane	13.156	107	723748	194.56	ug/L		100
86) n-butyl ether	13.528	57	3049341	191.51	ug/L		99
87) chlorobenzene	13.612	112	1688174	191.85	ug/L		96
88) 1,1,1,2-tetrachloroethane	13.675	131	600114	193.43	ug/L		98
89) ethylbenzene	13.670	91	2879960	188.58	ug/L		99
90) m,p-xylene	13.775	106	2170369	372.14	ug/L		99
91) o-xylene	14.189	91	2316911	187.14	ug/L		99
92) styrene	14.199	104	1787451	188.86	ug/L		99
93) butyl acrylate	14.016	55	1315709	205.44	ug/L		99
94) bromoform	14.462	173	398673	206.45	ug/L		99
95) isopropylbenzene	14.530	105	2877034	192.14	ug/L		99
96) cis-1,4-dichloro-2-butene	14.598	75	259623	205.98	ug/L		99
99) bromobenzene	14.923	156	698656	187.77	ug/L		96
100) 1,1,2,2-tetrachloroethane	14.829	83	694190	187.85	ug/L		98
101) trans-1,4-dichloro-2-b...	14.871	53	198539	197.53	ug/L		97
102) 1,2,3-trichloropropane	14.902	110	182020	183.03	ug/L		99
103) n-propylbenzene	14.933	91	3246820	182.06	ug/L		99
104) 2-chlorotoluene	15.080	126	651672	182.24	ug/L		99
105) 4-chlorotoluene	15.180	91	2031247	189.82	ug/L		99
106) 1,3,5-trimethylbenzene	15.086	105	2362536	183.77	ug/L		100
107) tert-butylbenzene	15.432	119	2101460	186.25	ug/L		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162825.D
Acq On : 14 Jul 2020 11:03 pm
Operator : brittank
Sample : ic8157-200
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 15 10:52:44 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 10:49:37 2020
Response via : Initial Calibration

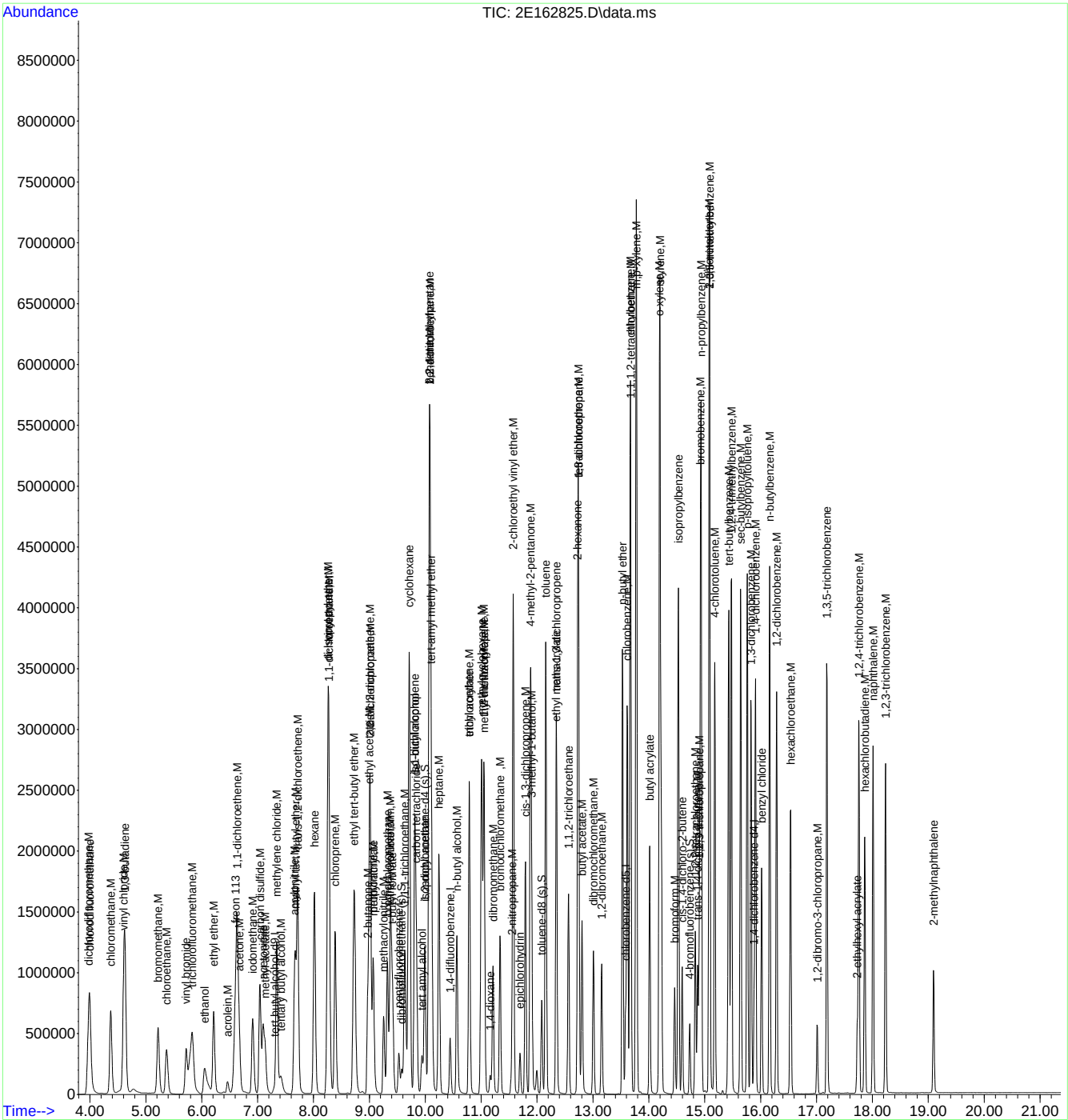
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
108) 1,2,4-trimethylbenzene	15.479	105	2386942	187.13	ug/L	97
109) sec-butylbenzene	15.641	105	2979344	184.06	ug/L	99
110) 1,3-dichlorobenzene	15.830	146	1307733	192.28	ug/L	97
111) p-isopropyltoluene	15.762	119	2528970	187.35	ug/L	99
112) 1,4-dichlorobenzene	15.909	146	1327748	192.34	ug/L	100
113) 1,2-dichlorobenzene	16.286	146	1287760	189.92	ug/L	99
114) n-butylbenzene	16.160	92	1277245	188.92	ug/L	97
115) 1,2-dibromo-3-chloropr...	17.015	157	151527	194.76	ug/L	97
116) 1,3,5-trichlorobenzene	17.183	180	1086662	186.78	ug/L	98
117) 1,2,4-trichlorobenzene	17.759	180	934064	187.79	ug/L	99
118) 2-ethylhexyl acrylate	17.728	70	134370	48.96	ug/L	95
119) hexachlorobutadiene	17.864	225	479039	187.83	ug/L	99
120) naphthalene	18.011	128	2058560	183.27	ug/L	100
121) 1,2,3-trichlorobenzene	18.237	180	842375	185.03	ug/L	98
122) hexachloroethane	16.538	201	448924	202.18	ug/L	95
123) benzyl chloride	16.019	91	1272514	195.41	ug/L	98
124) 2-methylnaphthalene	19.096	142	521523	104.29	ug/L	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162825.D
Acq On : 14 Jul 2020 11:03 pm
Operator : brittank
Sample : ic8157-200
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 15 10:52:44 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 10:49:37 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162828.D
Acq On : 15 Jul 2020 12:33 am
Operator : brittank
Sample : icv8157-50
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 15 11:51:40 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 11:31:23 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.294	65	137557	500.00	ug/L	0.00
5) pentafluorobenzene	9.523	168	283117	50.00	ug/L	0.00
53) 1,4-difluorobenzene	10.440	114	420678	50.00	ug/L	0.00
74) chlorobenzene-d5	13.581	117	340973	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	15.882	152	177607	50.00	ug/L	0.00
System Monitoring Compounds						
47) dibromofluoromethane (s)	9.575	113	138265	48.96	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 97.92%			
54) 1,2-dichloroethane-d4 (s)	9.995	65	157738	49.46	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 98.92%			
75) toluene-d8 (s)	12.081	98	542626	50.21	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.42%			
98) 4-bromofluorobenzene (s)	14.729	95	196885	49.08	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 98.16%			
Target Compounds						Qvalue
2) ethanol	6.041	45	166974	4247.11	ug/L	100
3) tertiary butyl alcohol	7.404	59	93732	207.23	ug/L	97
4) 1,4-dioxane	11.164	88	33836	1090.14	ug/L	98
7) dichlorodifluoromethane	3.965	85	214525	35.10	ug/L	98
8) chloromethane	4.358	50	267016	39.99	ug/L	98
9) vinyl chloride	4.589	62	260688	43.87	ug/L	99
10) bromomethane	5.218	94	152996	43.96	ug/L	99
11) chloroethane	5.370	64	148378	43.76	ug/L	99
12) trichlorofluoromethane	5.816	101	269537	45.65	ug/L	98
13) 1,3-butadiene	4.615	54	211134	47.43	ug/L	99
14) vinyl bromide	5.711	106	116124	50.11	ug/L	99
15) ethyl ether	6.209	74	101405	46.78	ug/L	99
16) acrolein	6.455	56	32827	46.49	ug/L	100
17) freon 113	6.597	151	133457	47.69	ug/L	95
18) 1,1-dichloroethene	6.629	61	248318	43.74	ug/L	99
19) acetone	6.665	43	166105	176.53	ug/L	96
20) acetonitrile	7.095	41	199500	395.86	ug/L	99
21) iodomethane	6.906	142	255445	43.74	ug/L	100
22) carbon disulfide	7.032	76	562146	55.31	ug/L	100
23) methylene chloride	7.336	84	181886	45.53	ug/L	99
24) methyl acetate	7.132	43	123176	42.96	ug/L	97
25) methyl tert butyl ether	7.667	73	977598	96.53	ug/L	98
26) trans-1,2-dichloroethene	7.714	61	257802	46.64	ug/L	99
27) hexane	8.013	56	154559	52.30	ug/L	99
28) di-isopropyl ether	8.254	45	614375	46.25	ug/L	95
29) ethyl tert-butyl ether	8.720	59	563421	45.56	ug/L	99
30) 2-butanone	8.972	72	73105	212.78	ug/L	100
31) 1,1-dichloroethane	8.275	63	330768	47.60	ug/L	99
32) chloroprene	8.385	53	272115	50.82	ug/L	99
33) acrylonitrile	7.661	53	70471	52.11	ug/L	98
34) vinyl acetate	8.264	86	34819	49.53	ug/L #	92
35) ethyl acetate	8.998	45	26885	49.49	ug/L #	49
36) 2,2-dichloropropane	9.014	77	223660	42.10	ug/L	98
37) cis-1,2-dichloroethene	9.009	96	182811	45.62	ug/L	100
38) propionitrile	9.067	54	238389	480.14	ug/L	88
39) methyl acrylate	9.072	85	23240	52.87	ug/L #	76
40) bromochloromethane	9.318	128	88449	48.46	ug/L	95
41) tetrahydrofuran	9.365	72	21092	48.53	ug/L	94
42) chloroform	9.376	83	288712	44.70	ug/L	99
43) t-butyl formate	9.407	59	124593	42.35	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162828.D
Acq On : 15 Jul 2020 12:33 am
Operator : brittank
Sample : icv8157-50
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 15 11:51:40 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 11:31:23 2020
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44)	1,1-dichloropropene	9.806	75	242084	47.80	ug/L		99
45)	carbon tetrachloride	9.837	117	220926	48.06	ug/L		97
46)	isopropyl acetate	9.989	87	36085	47.69	ug/L		99
48)	methacrylonitrile	9.255	67	68489	52.62	ug/L		99
49)	1,1,1-trichloroethane	9.633	97	254990	47.39	ug/L		99
50)	cyclohexane	9.706	84	304454	51.53	ug/L		98
51)	iso-butyl alcohol	9.811	43	66723	454.10	ug/L		95
52)	tert amyl alcohol	9.937	73	41309	235.96	ug/L		91
55)	2,2,4-trimethylpentane	10.073	57	657996	47.92	ug/L		99
56)	n-butyl alcohol	10.566	56	215546	2404.25	ug/L		100
57)	benzene	10.073	78	707732	46.42	ug/L		99
58)	tert-amyl methyl ether	10.105	73	513898	44.15	ug/L		97
59)	heptane	10.241	57	133788	50.34	ug/L		99
60)	1,2-dichloroethane	10.084	62	218230	46.63	ug/L		99
61)	ethyl acrylate	10.786	55	199179	49.81	ug/L		99
62)	trichloroethene	10.786	95	172069	49.28	ug/L		97
63)	2-nitropropane	11.552	41	52424	49.00	ug/L		98
64)	2-chloroethyl vinyl ether	11.573	63	480716	256.92	ug/L		100
65)	methyl methacrylate	11.054	100	42463	53.15	ug/L	#	92
66)	1,2-dichloropropane	11.048	63	189285	47.86	ug/L		99
67)	methylcyclohexane	11.006	83	337526	48.77	ug/L		100
68)	dibromomethane	11.206	93	95731	47.28	ug/L		99
69)	bromodichloromethane	11.337	83	213410	46.48	ug/L		99
70)	epichlorohydrin	11.693	57	79610	244.52	ug/L		98
71)	cis-1,3-dichloropropene	11.788	75	281808	48.70	ug/L		100
72)	4-methyl-2-pentanone	11.882	58	253199	204.06	ug/L		99
73)	3-methyl-1-butanol	11.903	70	89245	1050.55	ug/L		98
76)	toluene	12.155	92	415357	49.14	ug/L		99
77)	ethyl methacrylate	12.343	69	211616	54.01	ug/L		98
78)	trans-1,3-dichloropropene	12.349	75	246698	51.47	ug/L		99
79)	1,1,2-trichloroethane	12.564	83	118533	48.20	ug/L		98
80)	tetrachloroethene	12.737	164	136782	49.55	ug/L		98
81)	2-hexanone	12.726	58	226887	209.70	ug/L		96
82)	1,3-dichloropropane	12.742	76	243670	48.18	ug/L		99
83)	butyl acetate	12.805	56	111301	51.61	ug/L		96
84)	dibromochloromethane	13.009	129	157970	51.42	ug/L		100
85)	1,2-dibromoethane	13.156	107	188992	51.30	ug/L		99
86)	n-butyl ether	13.528	57	773775	51.65	ug/L		99
87)	chlorobenzene	13.612	112	432576	48.68	ug/L		97
88)	1,1,1,2-tetrachloroethane	13.670	131	152667	49.91	ug/L		98
89)	ethylbenzene	13.670	91	748591	49.52	ug/L		100
90)	m,p-xylene	13.775	106	573304	100.53	ug/L		99
91)	o-xylene	14.189	91	605030	49.97	ug/L		99
92)	styrene	14.199	104	467201	53.22	ug/L		99
93)	butyl acrylate	14.016	55	311983	52.15	ug/L		99
94)	bromoform	14.462	173	100731	55.68	ug/L		98
95)	isopropylbenzene	14.530	105	727600	50.79	ug/L		99
96)	cis-1,4-dichloro-2-butene	14.598	75	64383	54.37	ug/L		100
99)	bromobenzene	14.923	156	178252	47.07	ug/L		99
100)	1,1,2,2-tetrachloroethane	14.829	83	173118	46.32	ug/L		98
101)	trans-1,4-dichloro-2-b...	14.871	53	48805	51.65	ug/L		98
102)	1,2,3-trichloropropane	14.902	110	46671	47.27	ug/L		97
103)	n-propylbenzene	14.934	91	847390	48.22	ug/L		100
104)	2-chlorotoluene	15.080	126	165077	46.46	ug/L		99
105)	4-chlorotoluene	15.180	91	518149	47.95	ug/L		99
106)	1,3,5-trimethylbenzene	15.086	105	602216	48.83	ug/L		100
107)	tert-butylbenzene	15.432	119	528312	48.81	ug/L		98
108)	1,2,4-trimethylbenzene	15.474	105	612834	50.46	ug/L		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162828.D
Acq On : 15 Jul 2020 12:33 am
Operator : brittank
Sample : icv8157-50
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 15 11:51:40 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 11:31:23 2020
Response via : Initial Calibration

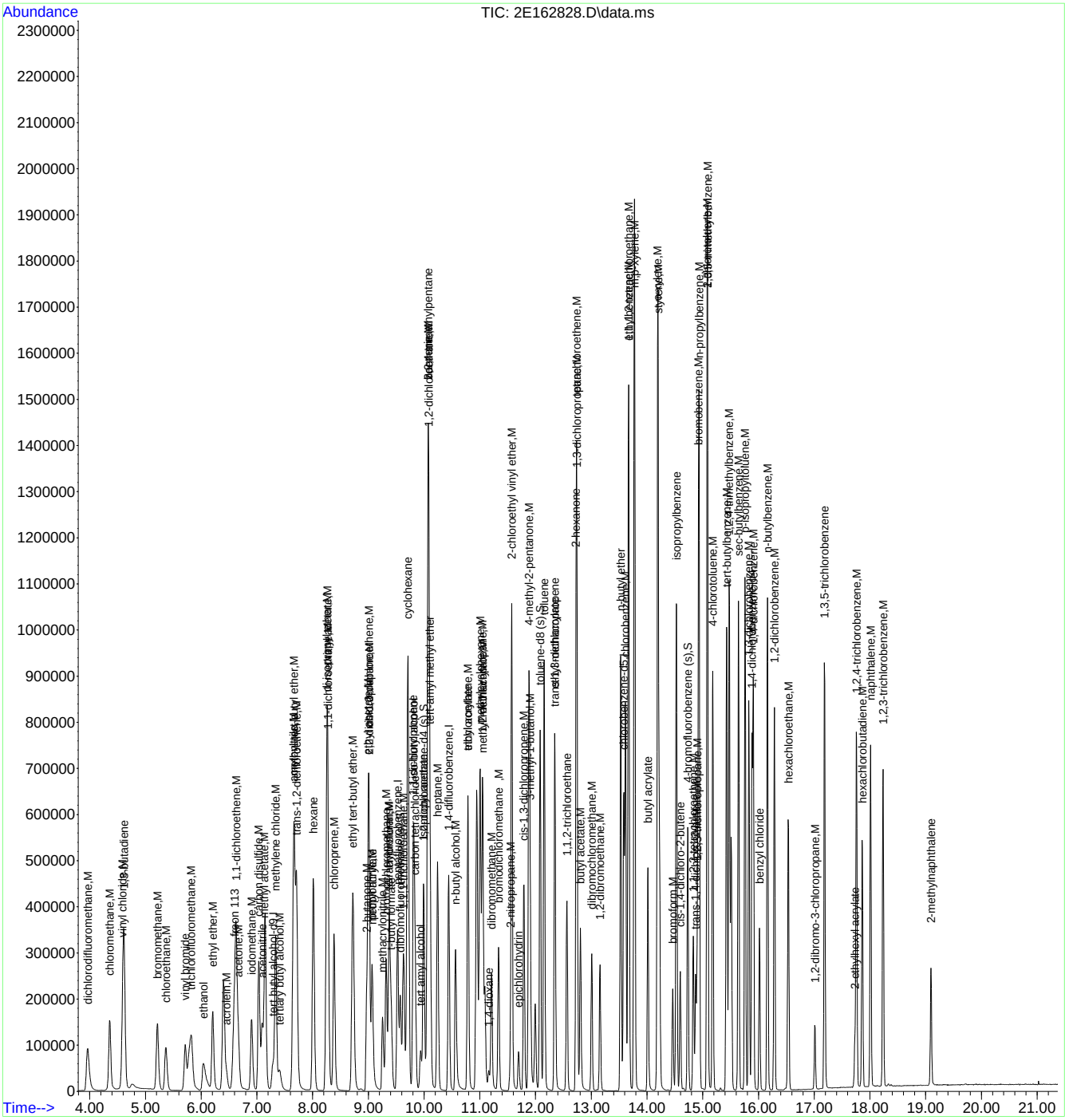
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
109) sec-butylbenzene	15.641	105	754728	49.14	ug/L	99
110) 1,3-dichlorobenzene	15.825	146	333065	48.73	ug/L	99
111) p-isopropyltoluene	15.757	119	638607	50.39	ug/L	100
112) 1,4-dichlorobenzene	15.909	146	334452	47.59	ug/L	99
113) 1,2-dichlorobenzene	16.286	146	325742	48.25	ug/L	99
114) n-butylbenzene	16.160	92	317266	50.35	ug/L	98
115) 1,2-dibromo-3-chloropr...	17.015	157	36451	49.79	ug/L	96
116) 1,3,5-trichlorobenzene	17.183	180	279884	50.32	ug/L	99
117) 1,2,4-trichlorobenzene	17.759	180	234525	52.42	ug/L	99
118) 2-ethylhexyl acrylate	17.728	70	27240	9.28	ug/L	99
119) hexachlorobutadiene	17.864	225	117610	48.13	ug/L	100
120) naphthalene	18.011	128	536238	53.51	ug/L	100
121) 1,2,3-trichlorobenzene	18.237	180	212744	51.25	ug/L	99
122) hexachloroethane	16.538	201	107070	52.21	ug/L	98
123) benzyl chloride	16.019	91	241157	39.42	ug/L	98
124) 2-methylnaphthalene	19.096	142	127398	27.72	ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162828.D
Acq On : 15 Jul 2020 12:33 am
Operator : brittank
Sample : icv8157-50
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 15 11:51:40 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 11:31:23 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162829.D
Acq On : 15 Jul 2020 1:03 am
Operator : brittank
Sample : icv8157-50
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 15 11:52:41 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 11:31:23 2020
Response via : Initial Calibration

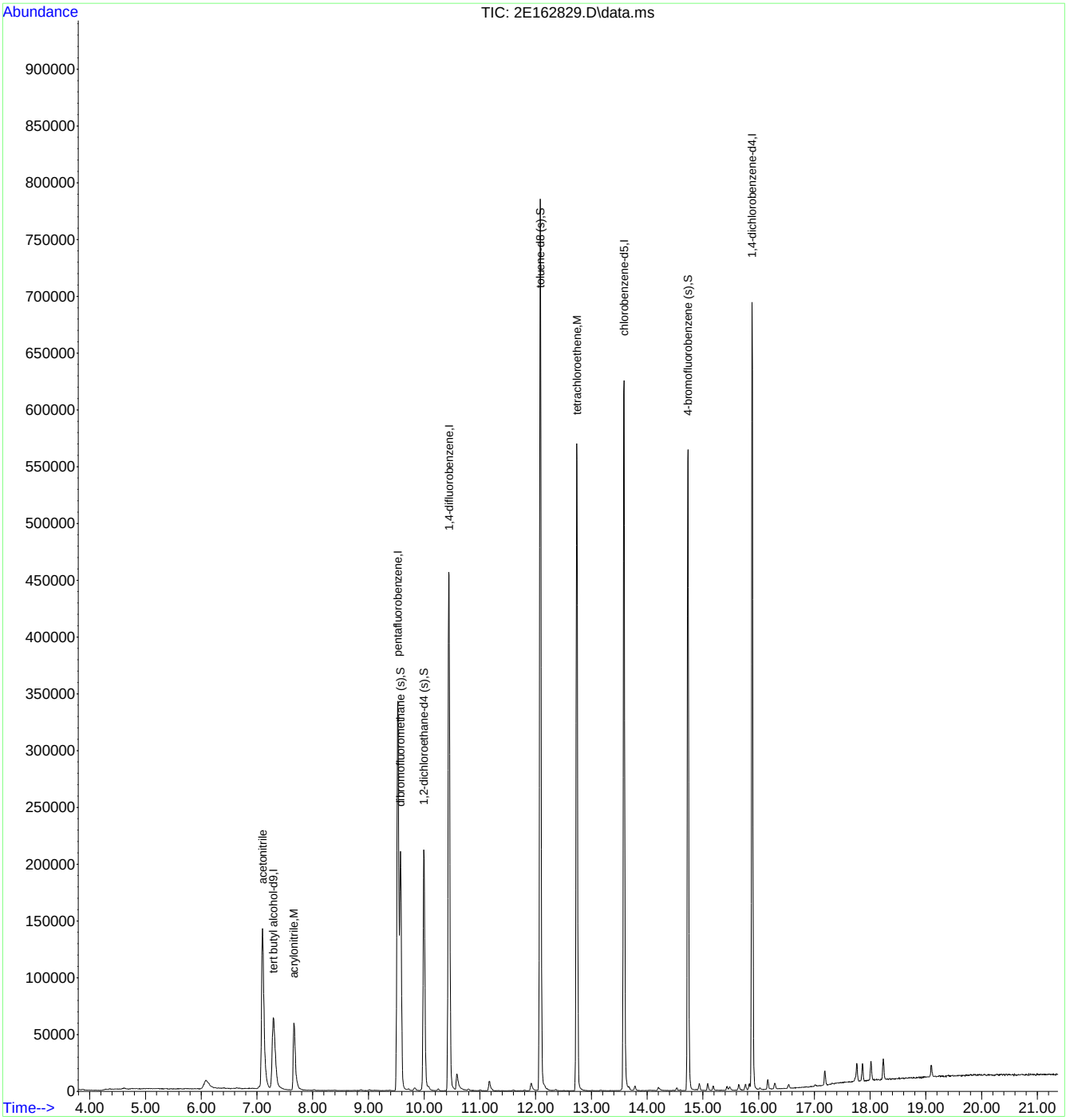
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.294	65	147962	500.00	ug/L	0.00
5) pentafluorobenzene	9.528	168	291283	50.00	ug/L	0.00
53) 1,4-difluorobenzene	10.446	114	429525	50.00	ug/L	0.00
74) chlorobenzene-d5	13.586	117	351236	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	15.883	152	173888	50.00	ug/L	0.00
System Monitoring Compounds						
47) dibromofluoromethane (s)	9.575	113	142544	49.06	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 98.12%			
54) 1,2-dichloroethane-d4 (s)	9.995	65	164534	50.53	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 101.06%			
75) toluene-d8 (s)	12.081	98	551242	49.51	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.02%			
98) 4-bromofluorobenzene (s)	14.729	95	199652	50.84	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 101.68%			
Target Compounds						Qvalue
20) acetonitrile	7.100	41	244574	471.70	ug/L	98
33) acrylonitrile	7.661	53	69456	49.92	ug/L	98
80) tetrachloroethene	12.742	164	140660	49.47	ug/L	96

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162829.D
Acq On : 15 Jul 2020 1:03 am
Operator : brittank
Sample : icv8157-50
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 15 11:52:41 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 11:31:23 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162834.D
Acq On : 15 Jul 2020 12:22 pm
Operator : brittank
Sample : icv8157-50
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jul 15 13:41:09 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 11:11:41 2020
Response via : Initial Calibration

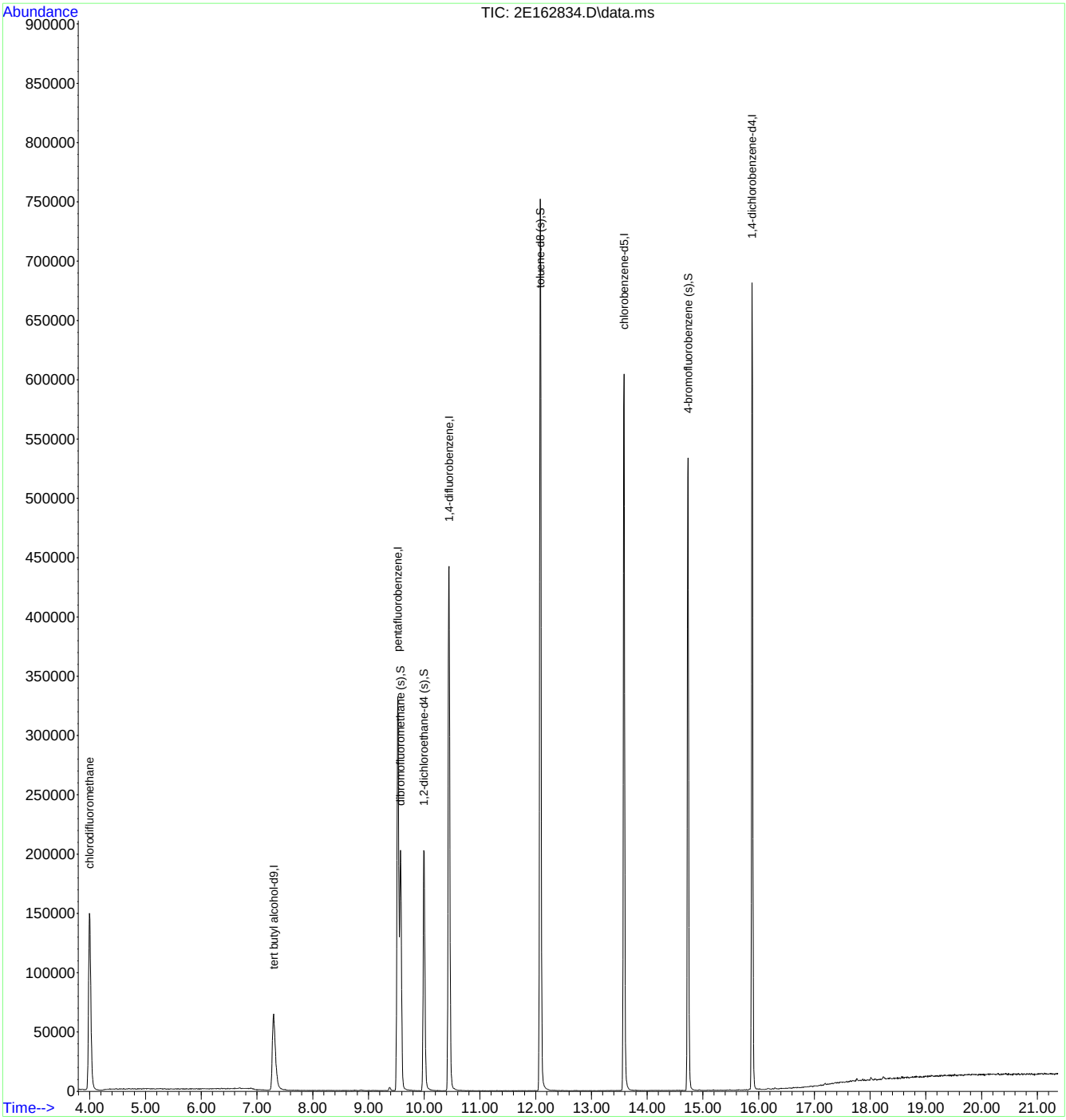
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.300	65	146425	500.00	ug/L	0.00
5) pentafluorobenzene	9.528	168	275352	50.00	ug/L	0.00
53) 1,4-difluorobenzene	10.445	114	411125	50.00	ug/L	0.00
74) chlorobenzene-d5	13.586	117	338036	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	15.882	152	164572	50.00	ug/L	0.00
System Monitoring Compounds						
47) dibromofluoromethane (s)	9.575	113	136802	49.81	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.62%			
54) 1,2-dichloroethane-d4 (s)	9.994	65	158386	50.81	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 101.62%			
75) toluene-d8 (s)	12.081	98	536993	50.12	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.24%			
98) 4-bromofluorobenzene (s)	14.734	95	190682	51.30	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 102.60%			
Target Compounds						Qvalue
6) chlorodifluoromethane	3.996	51	307318	53.53	ug/L	94

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V2E8157\
Data File : 2E162834.D
Acq On : 15 Jul 2020 12:22 pm
Operator : brittank
Sample : icv8157-50
Misc : MS44041,V2E8157,5,,,,1
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jul 15 13:41:09 2020
Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Wed Jul 15 11:11:41 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\July-2020\7-21\v2e8165-rush\
Data File : 2e162969.d
Acq On : 20 Jul 2020 11:05 am
Operator : krizhkac
Sample : CC8157-20 Inst : VOAMS2E
Misc : MS44525,V2E8165,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 21 00:15:46 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Jul 16 11:01:59 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.300	65	129757	500.00	ug/L	0.00
5) pentafluorobenzene	9.528	168	239256	50.00	ug/L	0.00
53) 1,4-difluorobenzene	10.440	114	356773	50.00	ug/L	0.00
74) chlorobenzene-d5	13.586	117	292613	50.00	ug/L	0.00
97) 1,4-dichlorobenzene-d4	15.883	152	148260	50.00	ug/L	0.00
127) pentafluorobenzene(a)	9.528	168	239256	50.00	ug/L	0.00
130) 1,4-dichlorobenzene-d4(a)	15.883	152	148260	50.00	ug/L	0.00
System Monitoring Compounds						
47) dibromofluoromethane (s)	9.575	113	120163	50.35	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.70%			
54) 1,2-dichloroethane-d4 (s)	9.995	65	134082	49.57	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 99.14%			
75) toluene-d8 (s)	12.081	98	456571	49.23	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 98.46%			
98) 4-bromofluorobenzene (s)	14.729	95	164692	49.18	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 98.36%			
Target Compounds						Qvalue
2) ethanol	6.052	45	65276	1760.15	ug/L	96
3) tertiary butyl alcohol	7.415	59	37614	88.16	ug/L	99
4) 1,4-dioxane	11.164	88	14054	480.01	ug/L	96
6) chlorodifluoromethane	3.997	51	91371	18.32	ug/L	98
7) dichlorodifluoromethane	3.970	85	86707	16.79	ug/L	99
8) chloromethane	4.374	50	98785	17.51	ug/L	99
9) vinyl chloride	4.605	62	90240	17.97	ug/L	99
10) bromomethane	5.229	94	55773	18.96	ug/L	99
11) chloroethane	5.376	64	51128	17.84	ug/L	95
12) trichlorofluoromethane	5.837	101	89852	18.01	ug/L	96
13) 1,3-butadiene	4.626	54	67030	17.82	ug/L	97
14) vinyl bromide	5.727	106	33461	17.09	ug/L	99
15) ethyl ether	6.214	74	35259	19.25	ug/L	100
16) acrolein	6.466	56	11258	18.87	ug/L	87
17) freon 113	6.613	151	42986	18.18	ug/L	91
18) 1,1-dichloroethene	6.639	61	89175	18.59	ug/L	99
19) acetone	6.676	43	62061	78.05	ug/L	99
20) acetonitrile	7.106	41	86190	202.38	ug/L	96
21) iodomethane	6.917	142	99787	20.22	ug/L	99
22) carbon disulfide	7.048	76	160912	18.73	ug/L	99
23) methylene chloride	7.342	84	66303	19.64	ug/L	92
24) methyl acetate	7.142	43	47540	19.62	ug/L	98
25) methyl tert butyl ether	7.677	73	168109	19.64	ug/L	99
26) trans-1,2-dichloroethene	7.719	61	89396	19.14	ug/L	100
27) hexane	8.018	56	45105	18.06	ug/L	97
28) di-isopropyl ether	8.259	45	218719	19.48	ug/L	89
29) ethyl tert-butyl ether	8.726	59	203579	19.48	ug/L	99
30) 2-butanone	8.983	72	24942	85.90	ug/L	96
31) 1,1-dichloroethane	8.280	63	112656	19.18	ug/L	97
32) chloroprene	8.385	53	84842	18.75	ug/L	99
33) acrylonitrile	7.672	53	23612	20.66	ug/L	97
34) vinyl acetate	8.264	86	12429	20.92	ug/L #	89
35) ethyl acetate	9.004	45	9706	21.14	ug/L #	59
36) 2,2-dichloropropane	9.014	77	79835	17.78	ug/L	99
37) cis-1,2-dichloroethene	9.009	96	64418	19.02	ug/L	99
38) propionitrile	9.072	54	84367	201.07	ug/L	99
39) methyl acrylate	9.088	85	7977	21.47	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\July-2020\7-21\v2e8165-rush\
Data File : 2e162969.d
Acq On : 20 Jul 2020 11:05 am
Operator : krizhkac
Sample : CC8157-20 Inst : VOAMS2E
Misc : MS44525,V2E8165,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 21 00:15:46 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Jul 16 11:01:59 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
40) bromochloromethane	9.324	128	30117	19.52	ug/L		97
41) tetrahydrofuran	9.371	72	7444	20.27	ug/L		97
42) chloroform	9.381	83	103278	18.92	ug/L		98
43) t-butyl formate	9.407	59	41328	16.62	ug/L		93
44) 1,1-dichloropropene	9.811	75	80701	18.86	ug/L		100
45) carbon tetrachloride	9.837	117	73021	18.80	ug/L		99
46) isopropyl acetate	9.995	87	13274	20.76	ug/L		92
48) methacrylonitrile	9.266	67	22861	20.79	ug/L		90
49) 1,1,1-trichloroethane	9.633	97	86346	18.99	ug/L		98
50) cyclohexane	9.711	84	91769	18.38	ug/L	#	84
51) iso-butyl alcohol	9.816	43	24880	200.37	ug/L		94
52) tert amyl alcohol	9.942	73	14844	100.33	ug/L		93
55) 2,2,4-trimethylpentane	10.073	57	212451	18.24	ug/L		100
56) n-butyl alcohol	10.571	56	85227	1120.92	ug/L		97
57) benzene	10.073	78	242667	18.77	ug/L		99
58) tert-amyl methyl ether	10.105	73	193599	19.61	ug/L		98
59) heptane	10.246	57	41434	18.38	ug/L		99
60) 1,2-dichloroethane	10.084	62	76453	19.26	ug/L		98
61) ethyl acrylate	10.792	55	67780	19.99	ug/L		99
62) trichloroethene	10.792	95	57520	19.42	ug/L		98
63) 2-nitropropane	11.557	41	18277	20.14	ug/L	#	34
64) 2-chloroethyl vinyl ether	11.573	63	171050	107.79	ug/L		99
65) methyl methacrylate	11.059	100	14004	20.67	ug/L	#	79
66) 1,2-dichloropropane	11.048	63	65487	19.52	ug/L		100
67) methylcyclohexane	11.007	83	103853	17.69	ug/L		100
68) dibromomethane	11.211	93	34787	20.26	ug/L		95
69) bromodichloromethane	11.337	83	74532	19.14	ug/L		98
70) epichlorohydrin	11.699	57	27887	101.00	ug/L		94
71) cis-1,3-dichloropropene	11.793	75	95594	19.48	ug/L		99
72) 4-methyl-2-pentanone	11.882	58	88056	83.68	ug/L		96
73) 3-methyl-1-butanol	11.903	70	32505	451.17	ug/L		97
76) toluene	12.155	92	139605	19.25	ug/L		99
77) ethyl methacrylate	12.344	69	67996	20.22	ug/L		98
78) trans-1,3-dichloropropene	12.349	75	82719	20.11	ug/L		99
79) 1,1,2-trichloroethane	12.564	83	40709	19.29	ug/L		96
80) tetrachloroethene	12.737	164	44144	18.63	ug/L		97
81) 2-hexanone	12.731	58	76723	82.63	ug/L		99
82) 1,3-dichloropropane	12.742	76	84475	19.46	ug/L		99
83) butyl acetate	12.805	56	38595	20.86	ug/L		95
84) dibromochloromethane	13.009	129	50936	19.32	ug/L		97
85) 1,2-dibromoethane	13.156	107	63440	20.07	ug/L		98
86) n-butyl ether	13.528	57	241792	18.81	ug/L		100
87) chlorobenzene	13.618	112	146407	19.20	ug/L		100
88) 1,1,1,2-tetrachloroethane	13.675	131	50966	19.42	ug/L		98
89) ethylbenzene	13.670	91	247592	19.09	ug/L		98
90) m,p-xylene	13.775	106	189638	38.75	ug/L		98
91) o-xylene	14.189	91	201807	19.42	ug/L		99
92) styrene	14.200	104	155908	20.69	ug/L		99
93) butyl acrylate	14.016	55	99974	19.47	ug/L		99
94) bromoform	14.462	173	31982	20.60	ug/L		98
95) isopropylbenzene	14.530	105	236844	19.26	ug/L		99
96) cis-1,4-dichloro-2-butene	14.598	75	19667	19.35	ug/L		95
99) bromobenzene	14.923	156	60630	19.18	ug/L		96
100) 1,1,2,2-tetrachloroethane	14.829	83	60565	19.41	ug/L		98
101) trans-1,4-dichloro-2-b...	14.871	53	15551	19.71	ug/L		95
102) 1,2,3-trichloropropane	14.902	110	16695	20.26	ug/L		97
103) n-propylbenzene	14.934	91	278983	19.02	ug/L		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\July-2020\7-21\v2e8165-rush\
Data File : 2e162969.d
Acq On : 20 Jul 2020 11:05 am
Operator : krizhkac
Sample : CC8157-20 Inst : VOAMS2E
Misc : MS44525,V2E8165,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 21 00:15:46 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Jul 16 11:01:59 2020
Response via : Initial Calibration

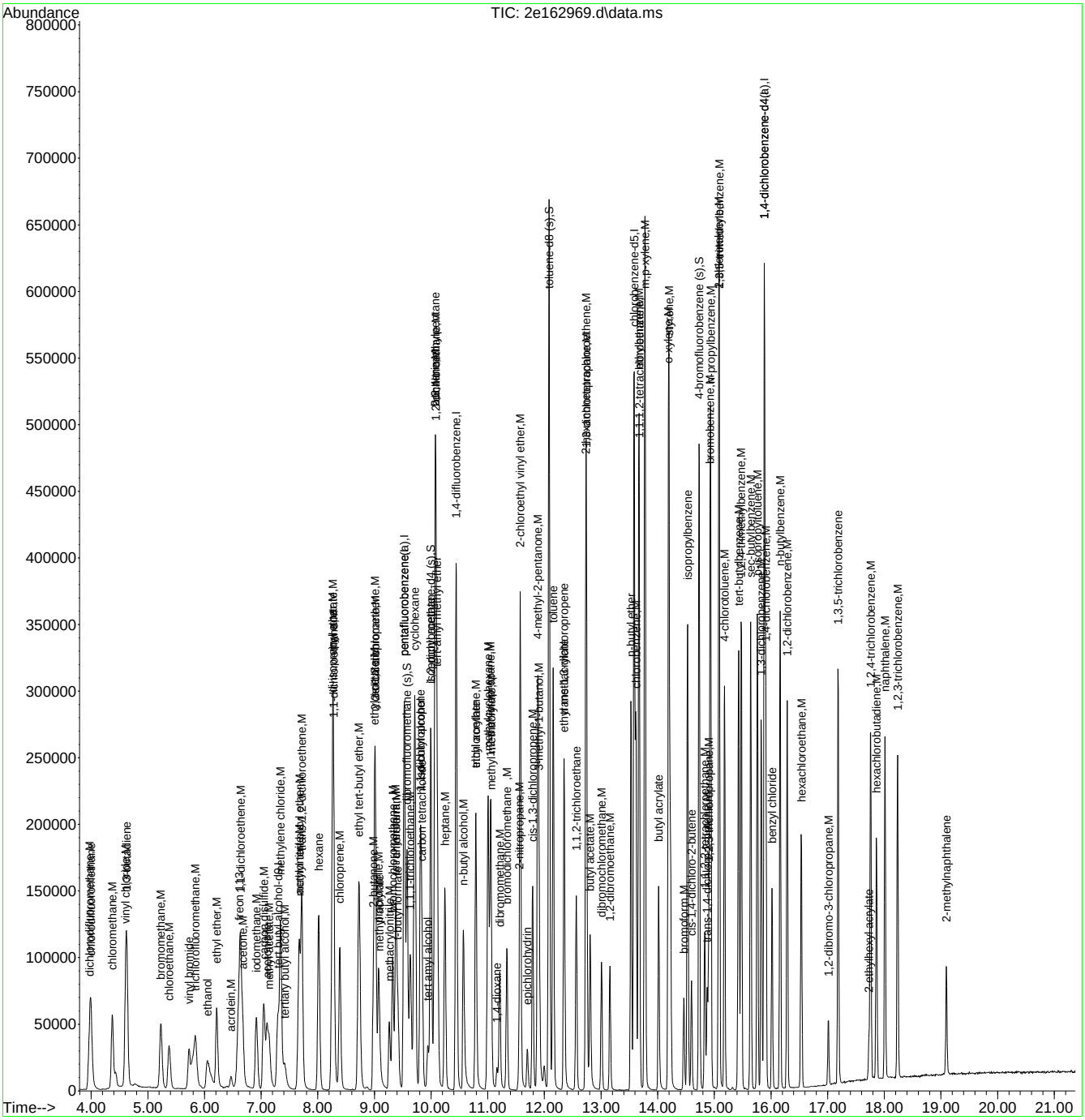
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 2-chlorotoluene	15.080	126	57136	19.27	ug/L	99
105) 4-chlorotoluene	15.180	91	171123	18.97	ug/L	98
106) 1,3,5-trimethylbenzene	15.086	105	199866	19.41	ug/L	99
107) tert-butylbenzene	15.432	119	171499	18.98	ug/L	98
108) 1,2,4-trimethylbenzene	15.474	105	200367	19.77	ug/L	100
109) sec-butylbenzene	15.641	105	243358	18.98	ug/L	100
110) 1,3-dichlorobenzene	15.825	146	110490	19.36	ug/L	98
111) p-isopropyltoluene	15.762	119	206420	19.51	ug/L	99
112) 1,4-dichlorobenzene	15.909	146	111225	18.96	ug/L	99
113) 1,2-dichlorobenzene	16.286	146	109376	19.41	ug/L	99
114) n-butylbenzene	16.160	92	102308	19.45	ug/L	99
115) 1,2-dibromo-3-chloropr...	17.015	157	12364	20.23	ug/L	96
116) 1,3,5-trichlorobenzene	17.183	180	90958	19.59	ug/L	97
117) 1,2,4-trichlorobenzene	17.760	180	78721	21.08	ug/L	94
118) 2-ethylhexyl acrylate	17.728	70	7142	3.69	ug/L	88
119) hexachlorobutadiene	17.859	225	38813	19.03	ug/L	98
120) naphthalene	18.011	128	182245	21.79	ug/L	99
121) 1,2,3-trichlorobenzene	18.237	180	73902	21.33	ug/L	97
122) hexachloroethane	16.538	201	32449	18.95	ug/L	97
123) benzyl chloride	16.019	91	103398	20.25	ug/L	98
124) 2-methylnaphthalene	19.097	142	39033	10.18	ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\lotusa\VOA-SVOA\July-2020\7-21\v2e8165-rush\
Data File : 2e162969.d
Acq On : 20 Jul 2020 11:05 am
Operator : krizhkac
Sample : CC8157-20 Inst : VOAMS2E
Misc : MS44525,V2E8165,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2E8157.M
Quant Results File: M2E8157.RES
Quant Time: Jul 21 00:15:46 2020
Quant Title : SW-846 Method V8260C / EPA 624 , ZB624 60Mx0.25MMx1.4UM
QLast Update : Thu Jul 16 11:01:59 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4496\
Data File : 4D101404.D
Acq On : 16 Apr 2020 4:32 pm
Operator : ROBERTS
Sample : IC4496-0.2
Misc : MS42511,V4D4496,5,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 17 16:28:42 2020
Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 08:29:10 2020
Response via : Initial Calibration

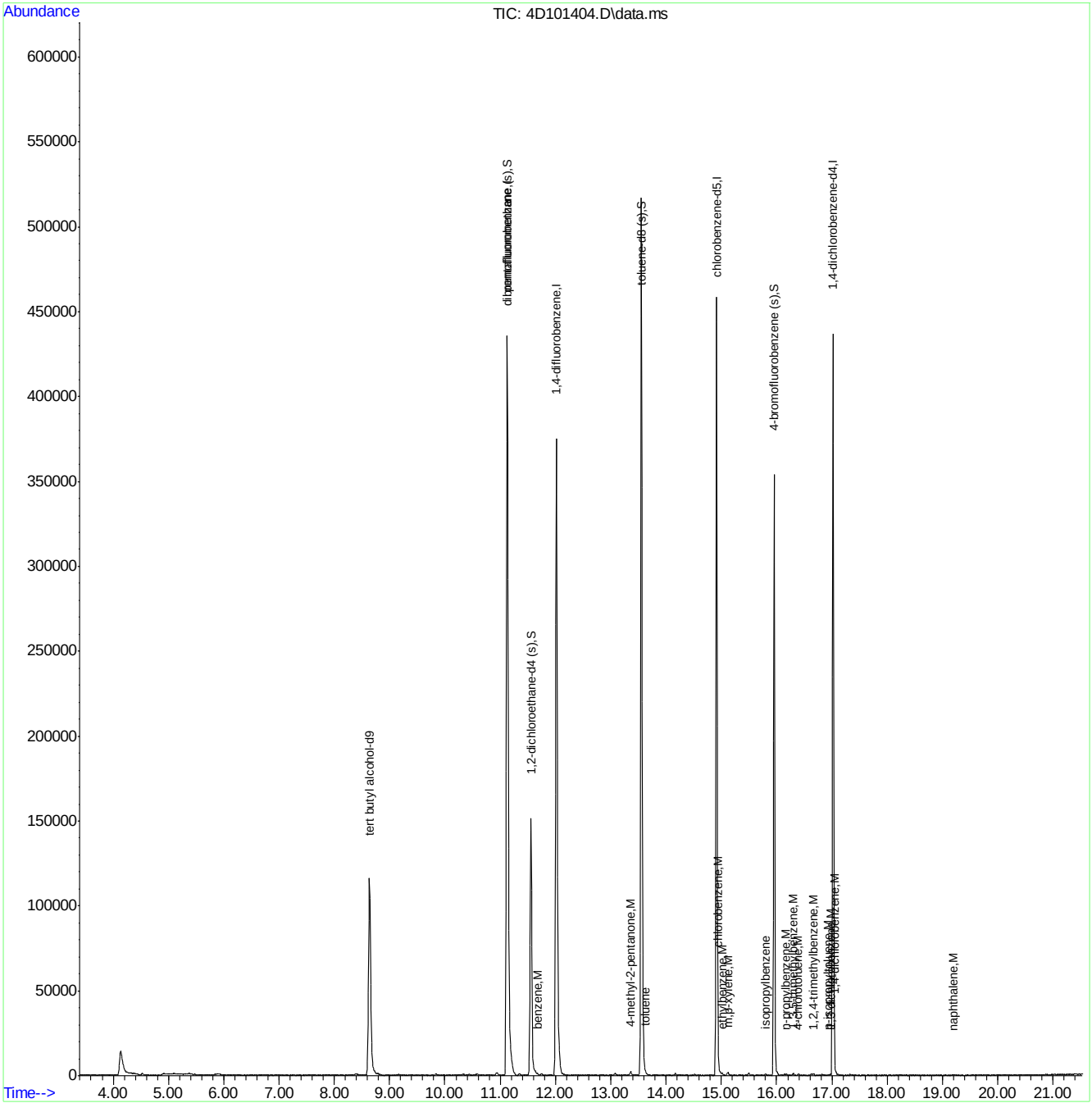
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	8.640	65	203780	500.00	ug/L	0.00
5) pentafluorobenzene	11.126	168	243960	50.00	ug/L	0.00
51) 1,4-difluorobenzene	12.017	114	350539	50.00	ug/L	0.00
73) chlorobenzene-d5	14.916	117	259035	50.00	ug/L	0.00
96) 1,4-dichlorobenzene-d4	17.019	152	108858	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	11.131	113	115917	49.04	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 98.08%			
52) 1,2-dichloroethane-d4 (s)	11.556	65	119359	48.99	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 97.98%			
74) toluene-d8 (s)	13.553	98	354762	51.46	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 102.92%			
97) 4-bromofluorobenzene (s)	15.954	95	110503	51.44	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 102.88%			
Target Compounds						Qvalue
55) benzene	11.676	78	1293	0.19	ug/L	99
71) 4-methyl-2-pentanone	13.354	58	640	0.63	ug/L #	66
75) toluene	13.621	92	747	0.20	ug/L	92
86) chlorobenzene	14.937	112	768	0.19	ug/L #	68
88) ethylbenzene	15.016	91	1308	0.20	ug/L	88
89) m,p-xylene	15.121	106	830	0.32	ug/L	97
94) isopropylbenzene	15.802	105	1058	0.18	ug/L	81
102) n-propylbenzene	16.175	91	1260	0.19	ug/L	58
104) 4-chlorotoluene	16.390	91	699	0.17	ug/L	86
105) 1,3,5-trimethylbenzene	16.306	105	779	0.17	ug/L	91
107) 1,2,4-trimethylbenzene	16.662	105	870	0.19	ug/L	91
109) 1,3-dichlorobenzene	16.977	146	541	0.20	ug/L	98
110) p-isopropyltoluene	16.935	119	733	0.17	ug/L	51
111) 1,4-dichlorobenzene	17.045	146	557	0.20	ug/L	71
120) naphthalene	19.200	128	811	0.21	ug/L	70

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4496\
Data File : 4D101404.D
Acq On : 16 Apr 2020 4:32 pm
Operator : ROBERTS
Sample : IC4496-0.2
Misc : MS42511,V4D4496,5,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 17 16:28:42 2020
Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 08:29:10 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4496\
Data File : 4D101405.D
Acq On : 16 Apr 2020 5:01 pm
Operator : ROBERTS
Sample : IC4496-0.5
Misc : MS42511,V4D4496,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 17 16:17:01 2020
Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 08:29:10 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	8.640	65	200716	500.00	ug/L		0.00
5) pentafluorobenzene	11.131	168	233488	50.00	ug/L		0.00
51) 1,4-difluorobenzene	12.017	114	334117	50.00	ug/L		0.00
73) chlorobenzene-d5	14.911	117	248969	50.00	ug/L		0.00
96) 1,4-dichlorobenzene-d4	17.019	152	106968	50.00	ug/L		0.00
System Monitoring Compounds							
43) dibromofluoromethane (s)	11.131	113	110568	48.87	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 97.74%				
52) 1,2-dichloroethane-d4 (s)	11.556	65	116581	50.21	ug/L		0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 100.42%				
74) toluene-d8 (s)	13.553	98	337711	50.96	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 101.92%				
97) 4-bromofluorobenzene (s)	15.954	95	107109	50.74	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 101.48%				
Target Compounds							Qvalue
9) vinyl chloride	5.364	62	867	0.42	ug/L	#	51
17) 1,1-dichloroethene	7.948	96	684	0.40	ug/L		86
24) methyl tert butyl ether	9.154	73	2541	0.45	ug/L		94
26) di-isopropyl ether	9.831	45	2616	0.43	ug/L		80
28) 1,1-dichloroethane	9.773	63	1421	0.43	ug/L		78
33) ethyl tert-butyl ether	10.329	59	2491	0.42	ug/L		97
35) 2,2-dichloropropane	10.586	77	1016	0.39	ug/L		84
36) cis-1,2-dichloroethene	10.565	96	800	0.40	ug/L	#	77
38) propionitrile	10.586	54	1747	3.70	ug/L		52
45) 1,1,1-trichloroethane	11.246	97	1062	0.39	ug/L	#	69
47) 1,1-dichloropropene	11.430	75	1093	0.46	ug/L		98
53) n-butyl alcohol	12.106	56	2129	17.62	ug/L		89
55) benzene	11.676	78	3476	0.53	ug/L		94
59) 1,2-dichloroethane	11.645	62	1413	0.57	ug/L		83
60) trichloroethene	12.353	130	707	0.41	ug/L		90
63) 2-chloroethyl vinyl ether	13.066	63	2777	2.13	ug/L		98
65) 1,2-dichloropropane	12.583	63	681	0.40	ug/L	#	48
68) bromodichloromethane	12.824	83	1009	0.43	ug/L		93
70) cis-1,3-dichloropropene	13.265	75	1075	0.39	ug/L		88
71) 4-methyl-2-pentanone	13.359	58	1738	1.78	ug/L	#	73
75) toluene	13.621	92	1663	0.46	ug/L		100
76) trans-1,3-dichloropropene	13.768	75	927	0.38	ug/L	#	73
78) 1,1,2-trichloroethane	13.957	83	506	0.40	ug/L		95
79) tetrachloroethene	14.172	164	560	0.42	ug/L		95
80) 1,3-dichloropropane	14.130	76	1089	0.46	ug/L	#	72
81) 2-hexanone	14.146	58	1504	1.51	ug/L		92
83) dibromochloromethane	14.361	129	709	0.40	ug/L		81
84) 1,2-dibromoethane	14.507	107	777	0.40	ug/L		95
85) n-butyl ether	14.911	57	2712	0.45	ug/L	#	1
86) chlorobenzene	14.937	112	1865	0.48	ug/L		87
88) ethylbenzene	15.016	91	2953	0.46	ug/L		91
89) m,p-xylene	15.110	106	2196	0.89	ug/L		94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4496\
Data File : 4D101405.D
Acq On : 16 Apr 2020 5:01 pm
Operator : ROBERTS
Sample : IC4496-0.5
Misc : MS42511,V4D4496,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 17 16:17:01 2020
Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 08:29:10 2020
Response via : Initial Calibration

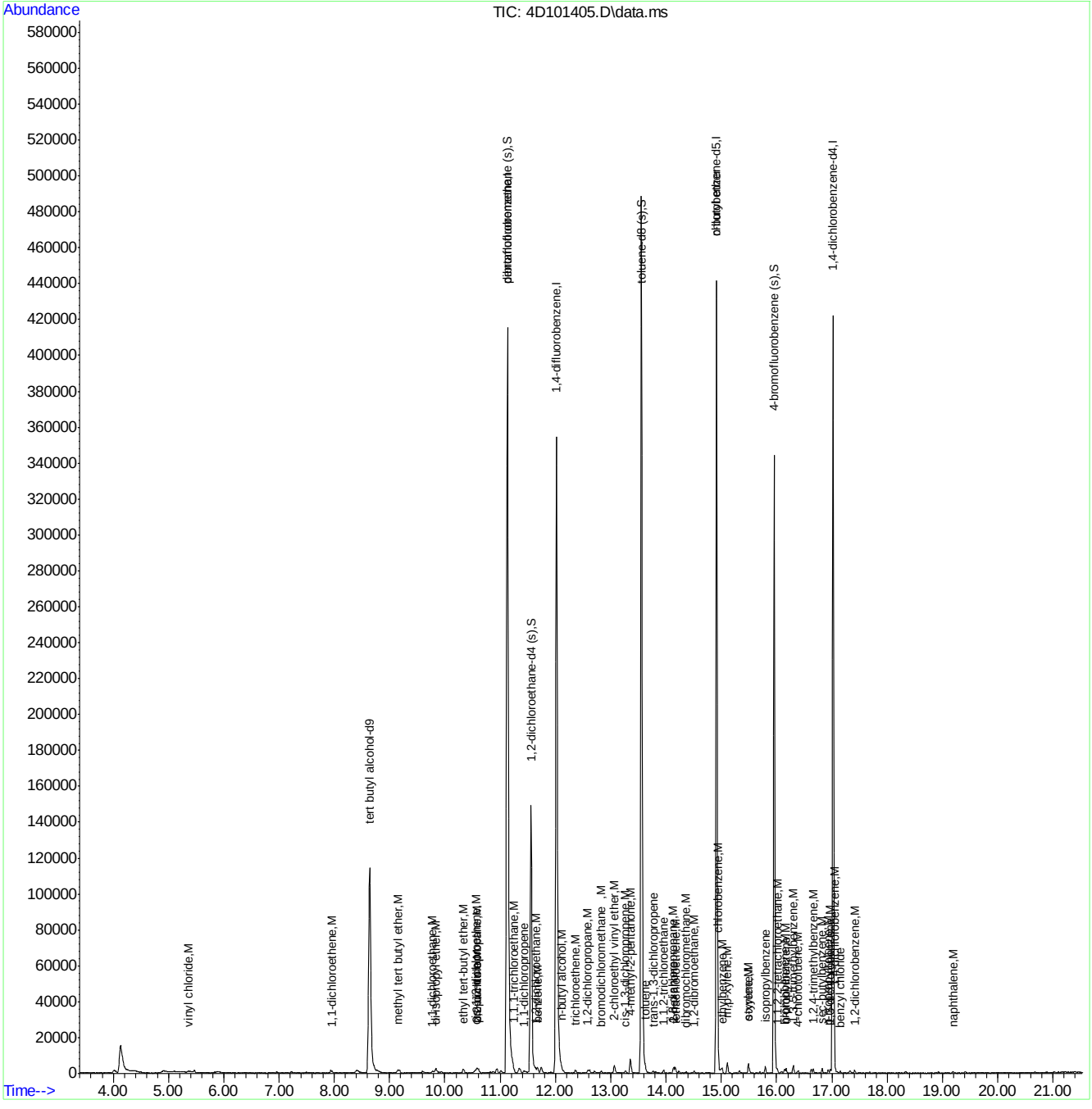
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
90) o-xylene	15.483	106	1035	0.44	ug/L	94
91) styrene	15.493	104	1683	0.42	ug/L	97
94) isopropylbenzene	15.797	105	2654	0.46	ug/L	97
98) bromobenzene	16.143	156	727	0.45	ug/L	94
99) 1,1,2,2-tetrachloroethane	16.012	83	1064	0.49	ug/L	91
102) n-propylbenzene	16.169	91	2978	0.46	ug/L	98
104) 4-chlorotoluene	16.384	91	1880	0.47	ug/L	79
105) 1,3,5-trimethylbenzene	16.306	105	2047	0.46	ug/L	95
107) 1,2,4-trimethylbenzene	16.662	105	2031	0.46	ug/L	85
108) sec-butylbenzene	16.820	105	2310	0.46	ug/L	94
109) 1,3-dichlorobenzene	16.972	146	1241	0.47	ug/L	94
110) p-isopropyltoluene	16.930	119	1885	0.44	ug/L	98
111) 1,4-dichlorobenzene	17.045	146	1276	0.47	ug/L	86
112) benzyl chloride	17.145	91	1427	0.41	ug/L	61
113) 1,2-dichlorobenzene	17.412	146	1076	0.42	ug/L	91
120) naphthalene	19.189	128	1699	0.44	ug/L	70

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4496\
Data File : 4D101405.D
Acq On : 16 Apr 2020 5:01 pm
Operator : ROBERTS
Sample : IC4496-0.5
Misc : MS42511,V4D4496,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 17 16:17:01 2020
Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 08:29:10 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4496\
Data File : 4D101406.D
Acq On : 16 Apr 2020 5:29 pm
Operator : ROBERTS
Sample : IC4496-1
Misc : MS42511,V4D4496,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 17 16:19:41 2020
Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 08:29:10 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	8.640	65	198887	500.00	ug/L		0.00
5) pentafluorobenzene	11.131	168	224992	50.00	ug/L		0.00
51) 1,4-difluorobenzene	12.022	114	323245	50.00	ug/L		0.00
73) chlorobenzene-d5	14.916	117	241161	50.00	ug/L		0.00
96) 1,4-dichlorobenzene-d4	17.019	152	102761	50.00	ug/L		0.00
System Monitoring Compounds							
43) dibromofluoromethane (s)	11.131	113	106906	49.04	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 98.08%				
52) 1,2-dichloroethane-d4 (s)	11.556	65	112647	50.14	ug/L		0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 100.28%				
74) toluene-d8 (s)	13.553	98	327377	51.00	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 102.00%				
97) 4-bromofluorobenzene (s)	15.954	95	103949	51.26	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 102.52%				
Target Compounds							Qvalue
2) tertiary butyl alcohol	8.777	59	2286	5.02	ug/L		72
3) ethanol	7.214	45	4277	88.41	ug/L		92
4) 1,4-dioxane	12.683	88	795	21.14	ug/L		95
8) chloromethane	5.107	50	1777	0.92	ug/L		84
9) vinyl chloride	5.358	62	1671	0.84	ug/L		89
11) chloroethane	6.391	64	904	0.73	ug/L	#	45
13) vinyl bromide	6.805	106	959	0.70	ug/L		90
17) 1,1-dichloroethene	7.943	96	1441	0.87	ug/L		86
18) acetone	7.969	43	3159	3.61	ug/L		91
19) acetonitrile	8.415	41	3947	9.48	ug/L		98
21) carbon disulfide	8.394	76	4374	1.07	ug/L		97
22) methylene chloride	8.714	84	1612	0.89	ug/L		95
24) methyl tert butyl ether	9.149	73	5005	0.92	ug/L		96
25) trans-1,2-dichloroethene	9.180	96	1506	0.88	ug/L		97
26) di-isopropyl ether	9.836	45	5348	0.91	ug/L		90
28) 1,1-dichloroethane	9.773	63	2852	0.89	ug/L		96
29) chloroprene	9.930	53	1983	0.77	ug/L		88
33) ethyl tert-butyl ether	10.329	59	5308	0.92	ug/L		94
35) 2,2-dichloropropane	10.596	77	2343	0.92	ug/L		96
36) cis-1,2-dichloroethene	10.565	96	1890	0.98	ug/L		85
38) propionitrile	10.580	54	4083	8.98	ug/L		93
39) bromochloromethane	10.874	128	829	0.90	ug/L		98
41) chloroform	10.937	85	2509	1.23	ug/L		99
42) t-butyl formate	11.021	59	1951	0.91	ug/L		88
45) 1,1,1-trichloroethane	11.241	97	2411	0.91	ug/L	#	73
46) cyclohexane	11.356	84	1507	0.72	ug/L	#	65
47) 1,1-dichloropropene	11.430	75	2008	0.88	ug/L		93
49) carbon tetrachloride	11.461	117	1958	0.85	ug/L		94
53) n-butyl alcohol	12.101	56	4851	41.50	ug/L		98
54) 2,2,4-trimethylpentane	11.755	57	2755	0.70	ug/L		87
55) benzene	11.681	78	6340	0.99	ug/L		96
56) tert-amyl methyl ether	11.739	87	1099	0.88	ug/L	#	79

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4496\
Data File : 4D101406.D
Acq On : 16 Apr 2020 5:29 pm
Operator : ROBERTS
Sample : IC4496-1
Misc : MS42511,V4D4496,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 17 16:19:41 2020
Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 08:29:10 2020
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
59)	1,2-dichloroethane	11.650	62	2695	1.13	ug/L		90
60)	trichloroethene	12.352	130	1533	0.91	ug/L		95
61)	ethyl acrylate	12.363	55	2469	0.81	ug/L		84
63)	2-chloroethyl vinyl ether	13.060	63	5716	4.53	ug/L		96
65)	1,2-dichloropropane	12.583	63	1562	0.94	ug/L		96
66)	dibromomethane	12.704	93	984	0.87	ug/L		88
68)	bromodichloromethane	12.830	83	2106	0.93	ug/L		89
69)	epichlorohydrin	13.149	57	1344	4.46	ug/L		80
70)	cis-1,3-dichloropropene	13.265	75	2482	0.94	ug/L		98
71)	4-methyl-2-pentanone	13.354	58	3664	3.88	ug/L		96
75)	toluene	13.627	92	3497	0.99	ug/L		99
76)	trans-1,3-dichloropropene	13.763	75	2203	0.93	ug/L		95
77)	ethyl methacrylate	13.794	69	2109	0.93	ug/L		86
78)	1,1,2-trichloroethane	13.952	83	1093	0.89	ug/L		86
79)	tetrachloroethene	14.167	164	1313	1.01	ug/L		93
80)	1,3-dichloropropane	14.125	76	2338	1.02	ug/L		88
81)	2-hexanone	14.130	58	3458	3.59	ug/L		90
83)	dibromochloromethane	14.361	129	1519	0.89	ug/L		87
84)	1,2-dibromoethane	14.507	107	1747	0.94	ug/L		95
85)	n-butyl ether	14.906	57	5643	0.96	ug/L	#	25
86)	chlorobenzene	14.943	112	3664	0.97	ug/L		98
87)	1,1,1,2-tetrachloroethane	14.990	131	1211	0.85	ug/L		89
88)	ethylbenzene	15.016	91	6013	0.97	ug/L		99
89)	m,p-xylene	15.110	106	4481	1.88	ug/L		94
90)	o-xylene	15.477	106	2143	0.94	ug/L		84
91)	styrene	15.488	104	3376	0.87	ug/L		93
92)	bromoform	15.692	173	1031	0.80	ug/L		88
93)	butyl acrylate	15.320	55	2793	0.82	ug/L	#	94
94)	isopropylbenzene	15.797	105	5051	0.90	ug/L		99
98)	bromobenzene	16.138	156	1452	0.94	ug/L		93
99)	1,1,2,2-tetrachloroethane	16.012	83	2061	0.99	ug/L		94
101)	1,2,3-trichloropropane	16.091	110	488	0.86	ug/L		85
102)	n-propylbenzene	16.169	91	5967	0.97	ug/L		98
103)	2-chlorotoluene	16.290	126	1157	0.86	ug/L		88
104)	4-chlorotoluene	16.379	91	3721	0.98	ug/L		93
105)	1,3,5-trimethylbenzene	16.300	105	4019	0.93	ug/L		99
107)	1,2,4-trimethylbenzene	16.662	105	4070	0.96	ug/L		96
108)	sec-butylbenzene	16.820	105	4492	0.92	ug/L		95
109)	1,3-dichlorobenzene	16.972	146	2427	0.95	ug/L		99
110)	p-isopropyltoluene	16.930	119	3680	0.89	ug/L		96
111)	1,4-dichlorobenzene	17.045	146	2452	0.95	ug/L		93
112)	benzyl chloride	17.145	91	2925	0.87	ug/L		96
113)	1,2-dichlorobenzene	17.412	146	2348	0.96	ug/L		93
114)	n-butylbenzene	17.318	92	1561	0.83	ug/L		95
116)	1,3,5-trichlorobenzene	18.330	180	1356	0.86	ug/L		93
118)	1,2,4-trichlorobenzene	18.922	180	1134	0.86	ug/L		98
119)	hexachlorobutadiene	19.053	225	522	0.89	ug/L		94
120)	naphthalene	19.184	128	3676	0.99	ug/L		97
121)	1,2,3-trichlorobenzene	19.410	180	1022	0.84	ug/L		92

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4496\
Data File : 4D101406.D
Acq On : 16 Apr 2020 5:29 pm
Operator : ROBERTS
Sample : IC4496-1
Misc : MS42511,V4D4496,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 17 16:19:41 2020
Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 08:29:10 2020
Response via : Initial Calibration

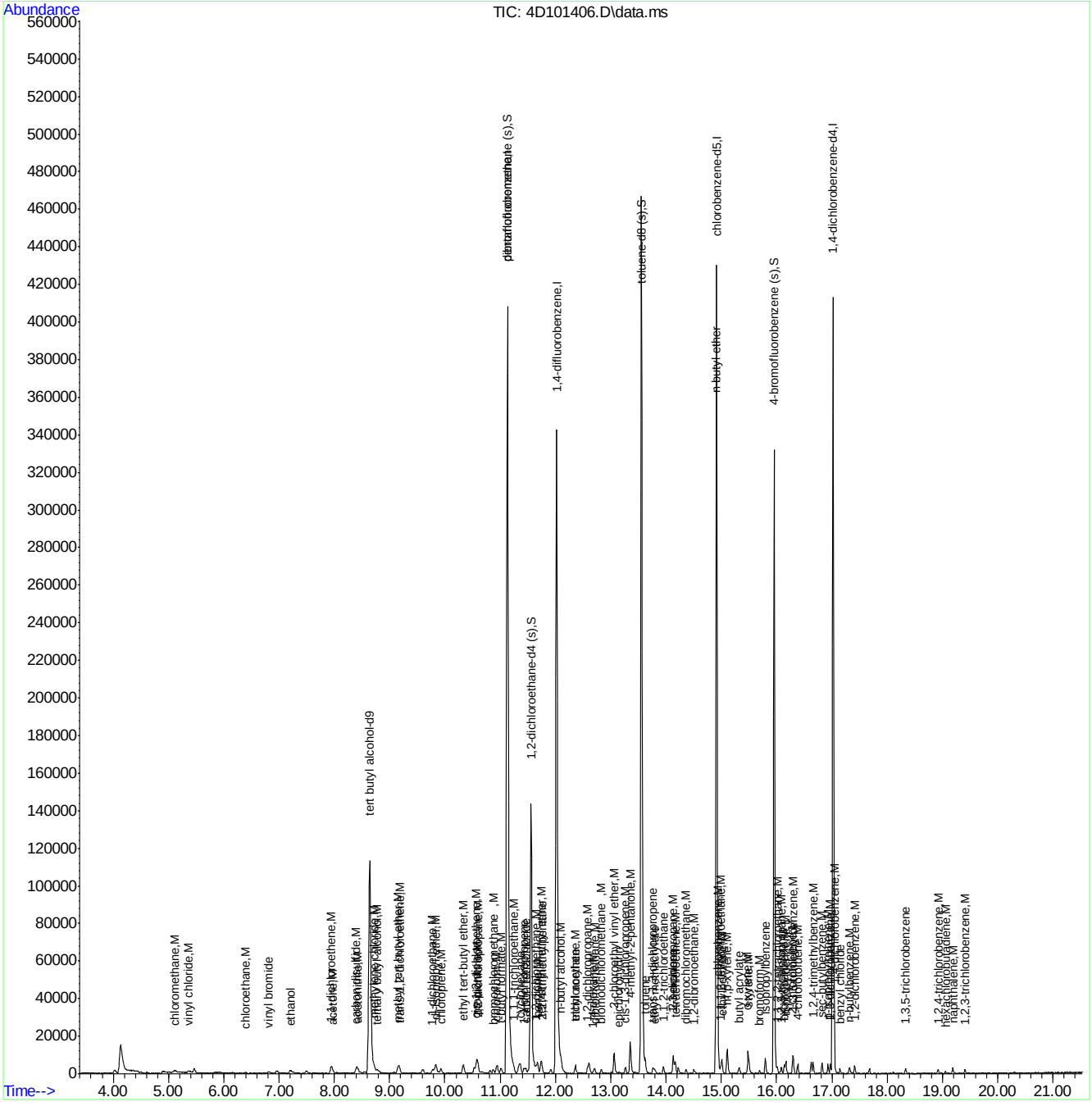
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4496\
Data File : 4D101406.D
Acq On : 16 Apr 2020 5:29 pm
Operator : ROBERTS
Sample : IC4496-1
Misc : MS42511,V4D4496,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 17 16:19:41 2020
Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 08:29:10 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4496\
Data File : 4D101407.D
Acq On : 16 Apr 2020 5:58 pm
Operator : ROBERTS
Sample : IC4496-2
Misc : MS42511,V4D4496,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 17 16:21:53 2020
Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 08:35:27 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	8.640	65	198173	500.00	ug/L		0.00
5) pentafluorobenzene	11.131	168	225971	50.00	ug/L		0.00
51) 1,4-difluorobenzene	12.017	114	323854	50.00	ug/L		0.00
73) chlorobenzene-d5	14.911	117	239925	50.00	ug/L		0.00
96) 1,4-dichlorobenzene-d4	17.019	152	103454	50.00	ug/L		0.00
System Monitoring Compounds							
43) dibromofluoromethane (s)	11.131	113	107847	49.71	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.42%				
52) 1,2-dichloroethane-d4 (s)	11.555	65	113400	50.29	ug/L		0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 100.58%				
74) toluene-d8 (s)	13.553	98	328491	50.71	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 101.42%				
97) 4-bromofluorobenzene (s)	15.954	95	104747	50.18	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.36%				
Target Compounds							Qvalue
2) tertiary butyl alcohol	8.782	59	4347	10.45	ug/L		96
3) ethanol	7.193	45	8571	208.73	ug/L		97
4) 1,4-dioxane	12.683	88	1758	50.65	ug/L		96
7) dichlorodifluoromethane	4.598	85	3662	2.14	ug/L		89
8) chloromethane	5.106	50	3796	2.17	ug/L		91
9) vinyl chloride	5.369	62	3608	1.98	ug/L		94
10) bromomethane	6.160	94	847	2.16	ug/L		85
11) chloroethane	6.386	64	2217	2.08	ug/L		90
12) trichlorofluoromethane	6.952	101	5002	2.11	ug/L		89
13) vinyl bromide	6.805	106	2387	2.03	ug/L		91
14) ethyl ether	7.492	74	1568	1.67	ug/L		94
16) freon 113	7.938	151	2055	1.83	ug/L	#	87
17) 1,1-dichloroethene	7.948	96	3062	1.95	ug/L		83
18) acetone	7.959	43	6057	7.77	ug/L		94
19) acetonitrile	8.410	41	7864	20.59	ug/L		93
21) carbon disulfide	8.394	76	8213	1.77	ug/L		97
22) methylene chloride	8.708	84	3373	1.97	ug/L		95
24) methyl tert butyl ether	9.149	73	10311	1.98	ug/L		100
25) trans-1,2-dichloroethene	9.180	96	3265	2.00	ug/L		85
26) di-isopropyl ether	9.836	45	11311	2.03	ug/L		89
27) 2-butanone	10.528	72	2528	7.94	ug/L	#	71
28) 1,1-dichloroethane	9.773	63	5995	2.01	ug/L		96
29) chloroprene	9.930	53	4365	1.86	ug/L		98
30) acrylonitrile	9.065	53	1400	1.67	ug/L		81
31) hexane	9.600	56	1631	1.62	ug/L		91
33) ethyl tert-butyl ether	10.329	59	10783	1.98	ug/L		96
35) 2,2-dichloropropane	10.591	77	4777	2.08	ug/L		92
36) cis-1,2-dichloroethene	10.559	96	3827	2.03	ug/L		88
37) methyl acrylate	10.669	55	4031	1.92	ug/L		91
38) propionitrile	10.575	54	8662	21.27	ug/L		97
39) bromochloromethane	10.874	128	1764	2.00	ug/L		94
40) tetrahydrofuran	10.947	72	678	1.83	ug/L	#	66

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4496\
Data File : 4D101407.D
Acq On : 16 Apr 2020 5:58 pm
Operator : ROBERTS
Sample : IC4496-2
Misc : MS42511,V4D4496,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 17 16:21:53 2020
Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 08:35:27 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) chloroform	10.937	85	4476	1.78	ug/L		98
42) t-butyl formate	11.015	59	3774	1.85	ug/L		97
44) methacrylonitrile	10.806	67	1743	1.82	ug/L		96
45) 1,1,1-trichloroethane	11.241	97	4897	2.00	ug/L		80
46) cyclohexane	11.356	84	3993	2.23	ug/L		94
47) 1,1-dichloropropene	11.430	75	4445	2.09	ug/L		99
49) carbon tetrachloride	11.461	117	4205	2.06	ug/L		89
50) tert amyl alcohol	11.508	55	1290	9.74	ug/L		90
53) n-butyl alcohol	12.095	56	10271	102.93	ug/L		98
54) 2,2,4-trimethylpentane	11.749	57	6672	2.06	ug/L		83
55) benzene	11.676	78	12846	2.00	ug/L		99
56) tert-amyl methyl ether	11.734	87	2267	0.96	ug/L		98
57) heptane	11.912	71	1500	1.81	ug/L		97
59) 1,2-dichloroethane	11.645	62	4986	1.91	ug/L		97
60) trichloroethene	12.358	130	3280	2.11	ug/L		96
61) ethyl acrylate	12.358	55	5613	2.04	ug/L		94
63) 2-chloroethyl vinyl ether	13.055	63	11944	10.08	ug/L		95
65) 1,2-dichloropropane	12.583	63	3159	2.04	ug/L		99
66) dibromomethane	12.704	93	2183	2.00	ug/L		97
67) methylcyclohexane	12.604	83	3608	1.89	ug/L		98
68) bromodichloromethane	12.824	83	4195	1.95	ug/L		99
69) epichlorohydrin	13.144	57	2801	10.04	ug/L		89
70) cis-1,3-dichloropropene	13.265	75	4886	1.97	ug/L		98
71) 4-methyl-2-pentanone	13.354	58	7453	8.22	ug/L		96
72) 3-methyl-1-butanol	13.343	70	3127	3.24	ug/L	#	74
75) toluene	13.621	92	6965	2.00	ug/L		96
76) trans-1,3-dichloropropene	13.757	75	4352	1.99	ug/L		95
77) ethyl methacrylate	13.789	69	4280	1.85	ug/L		97
78) 1,1,2-trichloroethane	13.951	83	2422	2.03	ug/L		94
79) tetrachloroethene	14.166	164	2595	2.02	ug/L		96
80) 1,3-dichloropropane	14.124	76	4473	2.05	ug/L		90
81) 2-hexanone	14.124	58	7347	8.48	ug/L		93
82) butyl acetate	14.208	56	2426	1.95	ug/L	#	78
83) dibromochloromethane	14.360	129	3054	1.99	ug/L		99
84) 1,2-dibromoethane	14.507	107	3583	2.04	ug/L		91
85) n-butyl ether	14.900	57	11328	2.01	ug/L		76
86) chlorobenzene	14.942	112	7364	1.98	ug/L		97
87) 1,1,1,2-tetrachloroethane	14.990	131	2464	1.87	ug/L		91
88) ethylbenzene	15.011	91	11896	1.96	ug/L		97
89) m,p-xylene	15.105	106	9129	4.03	ug/L		98
90) o-xylene	15.482	106	4385	2.05	ug/L		100
91) styrene	15.482	104	7111	1.97	ug/L		97
92) bromoform	15.687	173	2263	1.91	ug/L		94
93) butyl acrylate	15.309	55	5681	1.84	ug/L	#	96
94) isopropylbenzene	15.797	105	10465	1.96	ug/L		98
98) bromobenzene	16.138	156	3156	2.09	ug/L		95
99) 1,1,2,2-tetrachloroethane	16.012	83	4199	2.08	ug/L		100
101) 1,2,3-trichloropropane	16.091	110	1152	2.09	ug/L		87
102) n-propylbenzene	16.169	91	11811	1.92	ug/L		97
103) 2-chlorotoluene	16.290	126	2616	2.01	ug/L		90

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4496\
Data File : 4D101407.D
Acq On : 16 Apr 2020 5:58 pm
Operator : ROBERTS
Sample : IC4496-2
Misc : MS42511,V4D4496,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 17 16:21:53 2020
Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 08:35:27 2020
Response via : Initial Calibration

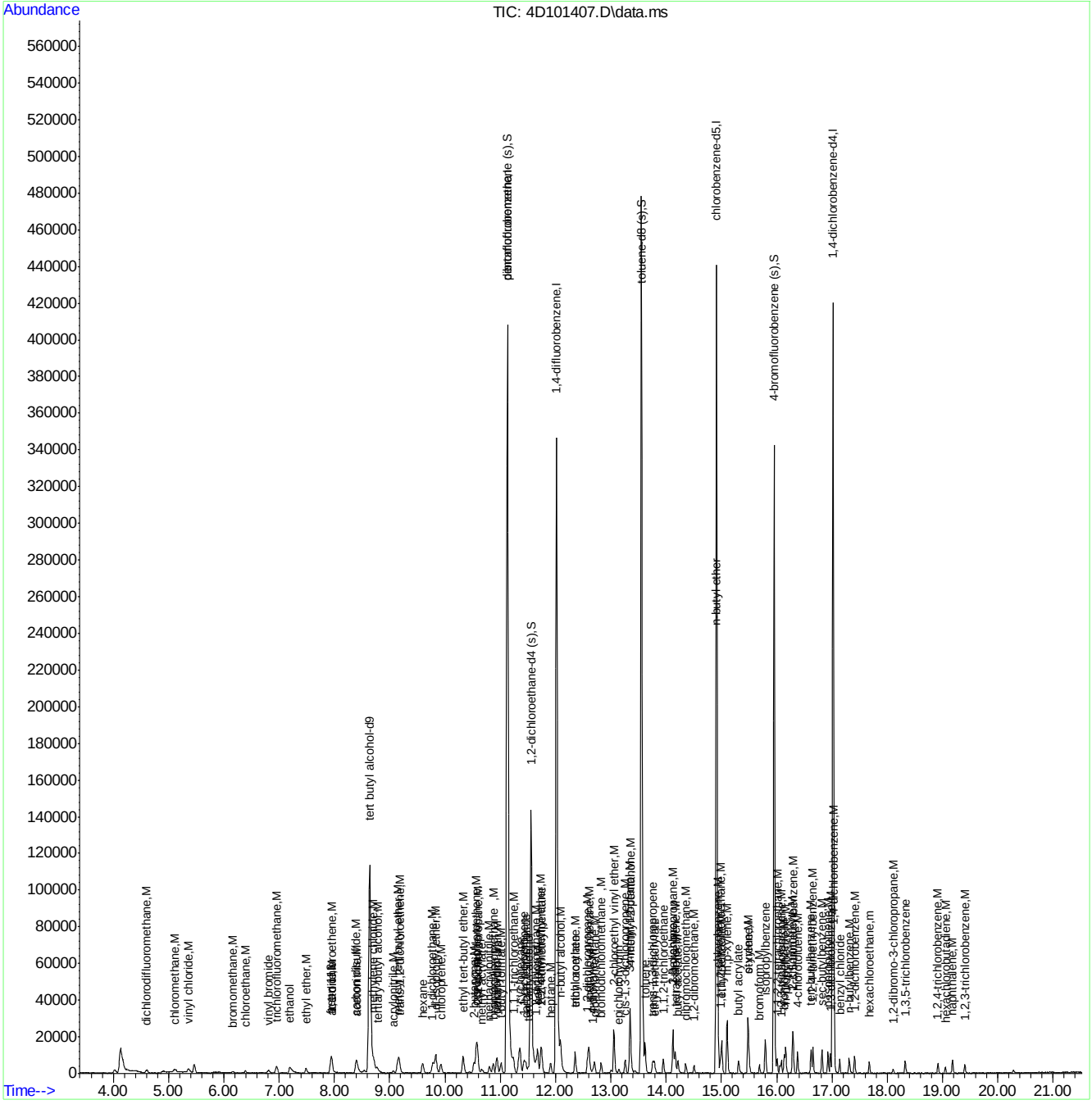
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 4-chlorotoluene	16.379	91	7596	2.01	ug/L	97
105) 1,3,5-trimethylbenzene	16.300	105	8230	1.97	ug/L	96
106) tert-butylbenzene	16.620	134	1469	2.02	ug/L	93
107) 1,2,4-trimethylbenzene	16.657	105	8176	1.93	ug/L	96
108) sec-butylbenzene	16.819	105	9193	1.92	ug/L	98
109) 1,3-dichlorobenzene	16.977	146	4941	1.94	ug/L	97
110) p-isopropyltoluene	16.930	119	7718	1.94	ug/L	98
111) 1,4-dichlorobenzene	17.040	146	5041	1.95	ug/L	97
112) benzyl chloride	17.139	91	5983	1.94	ug/L	98
113) 1,2-dichlorobenzene	17.407	146	4651	1.91	ug/L	94
114) n-butylbenzene	17.312	92	3193	1.90	ug/L	97
115) 1,2-dibromo-3-chloropr...	18.104	157	926	1.75	ug/L	90
116) 1,3,5-trichlorobenzene	18.329	180	2861	1.89	ug/L	95
118) 1,2,4-trichlorobenzene	18.917	180	2373	1.89	ug/L	97
119) hexachlorobutadiene	19.053	225	1115	1.98	ug/L	98
120) naphthalene	19.179	128	7247	1.94	ug/L	96
121) 1,2,3-trichlorobenzene	19.404	180	2138	1.87	ug/L	95
122) hexachloroethane	17.679	201	1173	1.76	ug/L	97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4496\
Data File : 4D101407.D
Acq On : 16 Apr 2020 5:58 pm
Operator : ROBERTS
Sample : IC4496-2
Misc : MS42511,V4D4496,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 17 16:21:53 2020
Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 08:35:27 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4496\
Data File : 4D101408.D
Acq On : 16 Apr 2020 6:27 pm
Operator : ROBERTS
Sample : IC4496-4
Misc : MS42511,V4D4496,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 17 16:24:47 2020
Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 08:44:05 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	8.640	65	194413	500.00	ug/L		0.00
5) pentafluorobenzene	11.131	168	221524	50.00	ug/L		0.00
51) 1,4-difluorobenzene	12.017	114	317853	50.00	ug/L		0.00
73) chlorobenzene-d5	14.911	117	234290	50.00	ug/L		0.00
96) 1,4-dichlorobenzene-d4	17.019	152	100872	50.00	ug/L		0.00
System Monitoring Compounds							
43) dibromofluoromethane (s)	11.131	113	105805	49.75	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.50%				
52) 1,2-dichloroethane-d4 (s)	11.556	65	112498	50.83	ug/L		0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 101.66%				
74) toluene-d8 (s)	13.553	98	320852	50.73	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 101.46%				
97) 4-bromofluorobenzene (s)	15.954	95	103668	50.94	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 101.88%				
Target Compounds							Qvalue
2) tertiary butyl alcohol	8.777	59	8645	19.73	ug/L		96
3) ethanol	7.183	45	18031	398.39	ug/L		96
4) 1,4-dioxane	12.678	88	3793	105.79	ug/L		93
7) dichlorodifluoromethane	4.609	85	6713	3.59	ug/L		98
8) chloromethane	5.112	50	6897	3.75	ug/L		100
9) vinyl chloride	5.364	62	7120	3.85	ug/L		95
10) bromomethane	6.155	94	1837	4.01	ug/L		93
11) chloroethane	6.396	64	4404	3.89	ug/L		95
12) trichlorofluoromethane	6.952	101	9653	3.66	ug/L		94
13) vinyl bromide	6.805	106	4784	3.82	ug/L		95
14) ethyl ether	7.482	74	3553	3.69	ug/L		94
16) freon 113	7.943	151	4255	3.66	ug/L		94
17) 1,1-dichloroethene	7.948	96	5987	3.89	ug/L		99
18) acetone	7.954	43	12760	15.61	ug/L		97
19) acetonitrile	8.399	41	15652	39.31	ug/L		95
20) iodomethane	8.226	142	471	0.51	ug/L	#	41
21) carbon disulfide	8.394	76	15999	3.90	ug/L		97
22) methylene chloride	8.714	84	6716	3.88	ug/L		97
23) methyl acetate	8.525	43	7589	3.65	ug/L		98
24) methyl tert butyl ether	9.144	73	20694	3.95	ug/L		97
25) trans-1,2-dichloroethene	9.175	96	6387	3.88	ug/L		94
26) di-isopropyl ether	9.836	45	22742	4.05	ug/L		97
27) 2-butanone	10.517	72	5334	15.30	ug/L		97
28) 1,1-dichloroethane	9.778	63	12086	3.98	ug/L		99
29) chloroprene	9.925	53	9113	3.84	ug/L		97
30) acrylonitrile	9.055	53	3213	3.61	ug/L		93
31) hexane	9.595	56	3624	3.51	ug/L		91
33) ethyl tert-butyl ether	10.329	59	21732	3.98	ug/L		97
34) ethyl acetate	10.580	70	1060	3.49	ug/L	#	29
35) 2,2-dichloropropane	10.591	77	9745	4.11	ug/L		97
36) cis-1,2-dichloroethene	10.559	96	7371	3.98	ug/L		88
37) methyl acrylate	10.659	55	8838	3.92	ug/L		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4496\
Data File : 4D101408.D
Acq On : 16 Apr 2020 6:27 pm
Operator : ROBERTS
Sample : IC4496-4
Misc : MS42511,V4D4496,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 17 16:24:47 2020
Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 08:44:05 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
38) propionitrile	10.570	54	17403	41.33	ug/L		98
39) bromochloromethane	10.874	128	3540	3.98	ug/L		96
40) tetrahydrofuran	10.953	72	1456	3.86	ug/L	#	77
41) chloroform	10.932	85	8313	3.95	ug/L		95
42) t-butyl formate	11.016	59	7565	3.75	ug/L		95
44) methacrylonitrile	10.801	67	3724	3.81	ug/L		98
45) 1,1,1-trichloroethane	11.241	97	9848	3.98	ug/L		95
46) cyclohexane	11.356	84	7696	3.96	ug/L		93
47) 1,1-dichloropropene	11.430	75	8701	3.97	ug/L		95
48) isobutyl alcohol	11.367	74	422	26.08	ug/L	#	4
49) carbon tetrachloride	11.461	117	8424	3.86	ug/L		97
50) tert amyl alcohol	11.503	55	2629	19.53	ug/L		96
53) n-butyl alcohol	12.090	56	21476	205.66	ug/L		98
54) 2,2,4-trimethylpentane	11.755	57	13912	3.90	ug/L		97
55) benzene	11.676	78	25483	4.04	ug/L		98
56) tert-amyl methyl ether	11.739	87	4783	4.00	ug/L		93
57) heptane	11.912	71	3234	3.71	ug/L		95
58) isopropyl acetate	11.598	87	1772	3.55	ug/L	#	77
59) 1,2-dichloroethane	11.645	62	9709	3.95	ug/L		96
60) trichloroethene	12.352	130	6485	4.04	ug/L		99
61) ethyl acrylate	12.352	55	11203	3.91	ug/L		97
62) 2-nitropropane	13.008	43	2574	3.85	ug/L		91
63) 2-chloroethyl vinyl ether	13.055	63	24446	20.36	ug/L		99
64) methyl methacrylate	12.599	100	1918	3.46	ug/L	#	80
65) 1,2-dichloropropane	12.578	63	6392	4.03	ug/L		99
66) dibromomethane	12.704	93	4343	3.95	ug/L		94
67) methylcyclohexane	12.609	83	7828	3.81	ug/L		98
68) bromodichloromethane	12.824	83	8302	3.86	ug/L		96
69) epichlorohydrin	13.144	57	5654	19.80	ug/L		92
70) cis-1,3-dichloropropene	13.260	75	9841	3.96	ug/L		99
71) 4-methyl-2-pentanone	13.354	58	14890	16.72	ug/L		96
72) 3-methyl-1-butanol	13.338	70	6798	76.09	ug/L		83
75) toluene	13.621	92	13772	4.05	ug/L		96
76) trans-1,3-dichloropropene	13.758	75	8669	3.96	ug/L		98
77) ethyl methacrylate	13.784	69	8568	3.97	ug/L		97
78) 1,1,2-trichloroethane	13.952	83	4742	4.08	ug/L		96
79) tetrachloroethene	14.167	164	5456	4.34	ug/L		98
80) 1,3-dichloropropane	14.119	76	9232	4.33	ug/L		94
81) 2-hexanone	14.125	58	15446	17.30	ug/L		98
82) butyl acetate	14.203	56	5273	4.05	ug/L		91
83) dibromochloromethane	14.355	129	6237	3.94	ug/L		99
84) 1,2-dibromoethane	14.502	107	7193	4.08	ug/L		99
85) n-butyl ether	14.895	57	22053	3.93	ug/L		97
86) chlorobenzene	14.943	112	14389	3.97	ug/L		97
87) 1,1,1,2-tetrachloroethane	14.985	131	5100	3.87	ug/L		94
88) ethylbenzene	15.011	91	23824	4.01	ug/L		98
89) m,p-xylene	15.105	106	18075	8.17	ug/L		97
90) o-xylene	15.477	106	8662	4.01	ug/L		97
91) styrene	15.477	104	14535	4.03	ug/L		97
92) bromoform	15.687	173	4548	3.81	ug/L		95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4496\
Data File : 4D101408.D
Acq On : 16 Apr 2020 6:27 pm
Operator : ROBERTS
Sample : IC4496-4
Misc : MS42511,V4D4496,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 17 16:24:47 2020
Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 08:44:05 2020
Response via : Initial Calibration

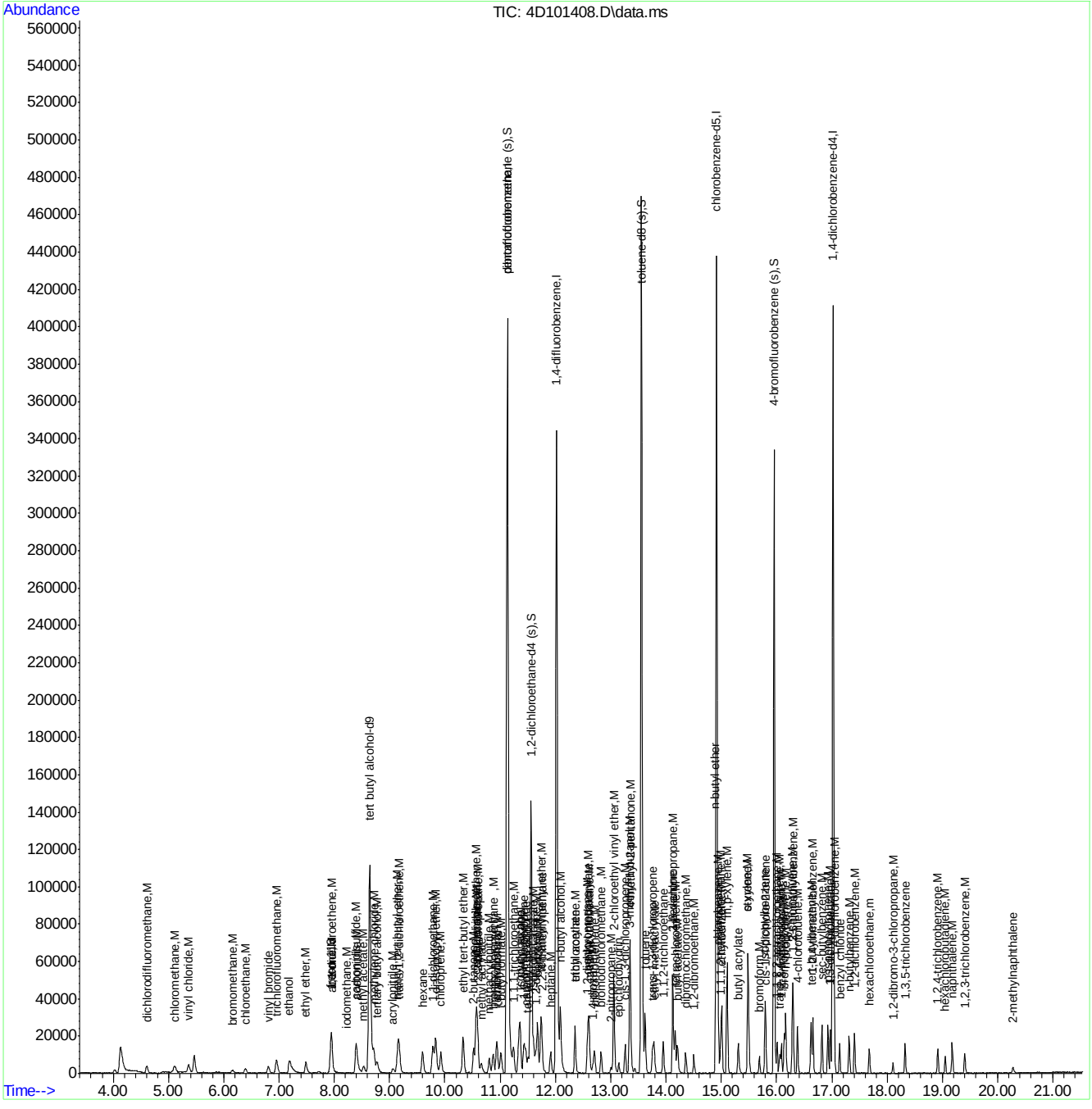
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
93) butyl acrylate	15.304	55	12218	3.94	ug/L	#	97
94) isopropylbenzene	15.792	105	20855	3.99	ug/L		99
95) cis-1,4-dichloro-2-butene	15.808	88	2745	3.58	ug/L		93
98) bromobenzene	16.138	156	5965	3.95	ug/L		99
99) 1,1,2,2-tetrachloroethane	16.007	83	8061	3.92	ug/L		99
100) trans-1,4-dichloro-2-b...	16.054	53	1983	3.63	ug/L		97
101) 1,2,3-trichloropropane	16.086	110	2326	4.12	ug/L		94
102) n-propylbenzene	16.164	91	24288	4.06	ug/L		99
103) 2-chlorotoluene	16.290	126	5119	3.93	ug/L		95
104) 4-chlorotoluene	16.379	91	14913	4.04	ug/L		98
105) 1,3,5-trimethylbenzene	16.301	105	16006	3.92	ug/L		99
106) tert-butylbenzene	16.626	134	2887	3.83	ug/L	#	82
107) 1,2,4-trimethylbenzene	16.657	105	16286	3.95	ug/L		99
108) sec-butylbenzene	16.820	105	18066	3.87	ug/L		99
109) 1,3-dichlorobenzene	16.972	146	9824	3.96	ug/L		98
110) p-isopropyltoluene	16.930	119	15390	3.97	ug/L		98
111) 1,4-dichlorobenzene	17.045	146	9935	3.94	ug/L		97
112) benzyl chloride	17.139	91	11999	3.85	ug/L		99
113) 1,2-dichlorobenzene	17.407	146	9345	3.94	ug/L		98
114) n-butylbenzene	17.307	92	6687	3.79	ug/L		98
115) 1,2-dibromo-3-chloropr...	18.109	157	1930	3.56	ug/L		95
116) 1,3,5-trichlorobenzene	18.324	180	5869	3.85	ug/L		99
118) 1,2,4-trichlorobenzene	18.917	180	4687	3.70	ug/L		92
119) hexachlorobutadiene	19.048	225	2261	3.93	ug/L		99
120) naphthalene	19.174	128	14301	3.93	ug/L		97
121) 1,2,3-trichlorobenzene	19.404	180	4383	3.79	ug/L		93
122) hexachloroethane	17.679	201	2424	3.58	ug/L		92
123) 2-methylnaphthalene	20.275	142	2416	1.67	ug/L		95

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4496\
Data File : 4D101408.D
Acq On : 16 Apr 2020 6:27 pm
Operator : ROBERTS
Sample : IC4496-4
Misc : MS42511,V4D4496,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 17 16:24:47 2020
Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 08:44:05 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4496\
Data File : 4D101409.D
Acq On : 16 Apr 2020 6:55 pm
Operator : ROBERTS
Sample : IC4496-8
Misc : MS42511,V4D4496,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 17 08:29:52 2020
Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 08:29:10 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	8.640	65	185193	500.00	ug/L		0.00
5) pentafluorobenzene	11.131	168	218344	50.00	ug/L		0.00
51) 1,4-difluorobenzene	12.017	114	312617	50.00	ug/L		0.00
73) chlorobenzene-d5	14.916	117	231464	50.00	ug/L		0.00
96) 1,4-dichlorobenzene-d4	17.019	152	98424	50.00	ug/L		0.00
System Monitoring Compounds							
43) dibromofluoromethane (s)	11.131	113	104910	49.59	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.18%				
52) 1,2-dichloroethane-d4 (s)	11.555	65	111214	51.19	ug/L		0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 102.38%				
74) toluene-d8 (s)	13.553	98	316815	51.42	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 102.84%				
97) 4-bromofluorobenzene (s)	15.954	95	100948	51.97	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 103.94%				
Target Compounds							Qvalue
2) tertiary butyl alcohol	8.771	59	16664	39.34	ug/L		97
3) ethanol	7.177	45	35345	784.67	ug/L		100
4) 1,4-dioxane	12.677	88	7191	205.36	ug/L		95
7) dichlorodifluoromethane	4.603	85	13242	6.80	ug/L		97
8) chloromethane	5.112	50	13628	7.30	ug/L		95
9) vinyl chloride	5.363	62	14257	7.41	ug/L		97
10) bromomethane	6.160	94	3990	6.11	ug/L		98
11) chloroethane	6.391	64	8918	7.45	ug/L		99
12) trichlorofluoromethane	6.952	101	19346	7.08	ug/L		96
13) vinyl bromide	6.805	106	9742	7.36	ug/L		97
14) ethyl ether	7.487	74	7395	7.32	ug/L		94
15) acrolein	7.707	56	2676	6.35	ug/L		92
16) freon 113	7.932	151	8512	6.94	ug/L		94
17) 1,1-dichloroethene	7.943	96	12290	7.68	ug/L		95
18) acetone	7.948	43	25387	29.89	ug/L		99
19) acetonitrile	8.394	41	31049	76.86	ug/L		96
20) iodomethane	8.231	142	2278	1.84	ug/L		83
21) carbon disulfide	8.394	76	31515	7.95	ug/L		98
22) methylene chloride	8.714	84	13481	7.66	ug/L		95
23) methyl acetate	8.520	43	15381	7.06	ug/L		99
24) methyl tert butyl ether	9.149	73	41326	7.79	ug/L		98
25) trans-1,2-dichloroethene	9.175	96	12955	7.78	ug/L		95
26) di-isopropyl ether	9.830	45	45154	7.90	ug/L		96
27) 2-butanone	10.512	72	10855	30.42	ug/L		98
28) 1,1-dichloroethane	9.773	63	24192	7.77	ug/L		99
29) chloroprene	9.925	53	19217	7.70	ug/L		96
30) acrylonitrile	9.049	53	6683	7.06	ug/L		94
31) hexane	9.594	56	7777	6.90	ug/L		96
32) vinyl acetate	9.783	86	2912	6.62	ug/L	#	86
33) ethyl tert-butyl ether	10.329	59	43109	7.73	ug/L		99
34) ethyl acetate	10.575	70	2210	7.11	ug/L	#	42
35) 2,2-dichloropropane	10.591	77	18831	7.64	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4496\
Data File : 4D101409.D
Acq On : 16 Apr 2020 6:55 pm
Operator : ROBERTS
Sample : IC4496-8
Misc : MS42511,V4D4496,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 17 08:29:52 2020
Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 08:29:10 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) cis-1,2-dichloroethene	10.559	96	14968	8.02	ug/L		94
37) methyl acrylate	10.654	55	17813	7.75	ug/L		98
38) propionitrile	10.564	54	34159	77.45	ug/L		99
39) bromochloromethane	10.869	128	7105	7.98	ug/L		98
40) tetrahydrofuran	10.942	72	2857	7.29	ug/L		96
41) chloroform	10.937	85	15901	8.06	ug/L		96
42) t-butyl formate	11.015	59	15479	7.45	ug/L		95
44) methacrylonitrile	10.800	67	7481	7.43	ug/L		99
45) 1,1,1-trichloroethane	11.241	97	19467	7.58	ug/L		97
46) cyclohexane	11.356	84	15265	7.51	ug/L		94
47) 1,1-dichloropropene	11.430	75	17631	7.93	ug/L		97
48) isobutyl alcohol	11.356	74	1179	65.05	ug/L	#	84
49) carbon tetrachloride	11.461	117	16977	7.58	ug/L		96
50) tert amyl alcohol	11.508	55	5209	37.55	ug/L		98
53) n-butyl alcohol	12.090	56	41971	371.30	ug/L		99
54) 2,2,4-trimethylpentane	11.749	57	27960	7.33	ug/L		89
55) benzene	11.676	78	50096	8.12	ug/L		98
56) tert-amyl methyl ether	11.734	87	9532	7.91	ug/L		99
57) heptane	11.912	71	6685	7.42	ug/L		98
58) isopropyl acetate	11.597	87	3753	7.49	ug/L	#	80
59) 1,2-dichloroethane	11.645	62	18858	8.17	ug/L		99
60) trichloroethene	12.352	130	12932	7.93	ug/L		98
61) ethyl acrylate	12.347	55	22582	7.68	ug/L		97
62) 2-nitropropane	13.002	43	4809	7.15	ug/L		93
63) 2-chloroethyl vinyl ether	13.055	63	48132	39.43	ug/L		98
64) methyl methacrylate	12.594	100	4251	7.61	ug/L		92
65) 1,2-dichloropropane	12.578	63	12802	7.95	ug/L		99
66) dibromomethane	12.704	93	8761	7.97	ug/L		96
67) methylcyclohexane	12.609	83	15747	7.45	ug/L		99
68) bromodichloromethane	12.824	83	16692	7.60	ug/L		97
69) epichlorohydrin	13.144	57	11261	38.61	ug/L		96
70) cis-1,3-dichloropropene	13.259	75	19316	7.55	ug/L		96
71) 4-methyl-2-pentanone	13.349	58	28792	31.53	ug/L		98
72) 3-methyl-1-butanol	13.338	70	13533	141.95	ug/L		98
75) toluene	13.621	92	27235	8.05	ug/L		98
76) trans-1,3-dichloropropene	13.757	75	17687	7.78	ug/L		98
77) ethyl methacrylate	13.778	69	16946	7.82	ug/L		97
78) 1,1,2-trichloroethane	13.946	83	9636	8.16	ug/L		96
79) tetrachloroethene	14.166	164	10225	8.19	ug/L		98
80) 1,3-dichloropropane	14.119	76	17902	8.14	ug/L		98
81) 2-hexanone	14.119	58	29781	32.20	ug/L		93
82) butyl acetate	14.203	56	10232	7.80	ug/L		96
83) dibromochloromethane	14.355	129	12558	7.70	ug/L		99
84) 1,2-dibromoethane	14.502	107	14062	7.85	ug/L		95
85) n-butyl ether	14.895	57	44192	7.81	ug/L		98
86) chlorobenzene	14.942	112	28887	7.96	ug/L		95
87) 1,1,1,2-tetrachloroethane	14.990	131	10125	7.40	ug/L		97
88) ethylbenzene	15.005	91	46910	7.88	ug/L		96
89) m,p-xylene	15.105	106	35942	15.72	ug/L		95
90) o-xylene	15.477	106	17135	7.82	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4496\
Data File : 4D101409.D
Acq On : 16 Apr 2020 6:55 pm
Operator : ROBERTS
Sample : IC4496-8
Misc : MS42511,V4D4496,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 17 08:29:52 2020
Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 08:29:10 2020
Response via : Initial Calibration

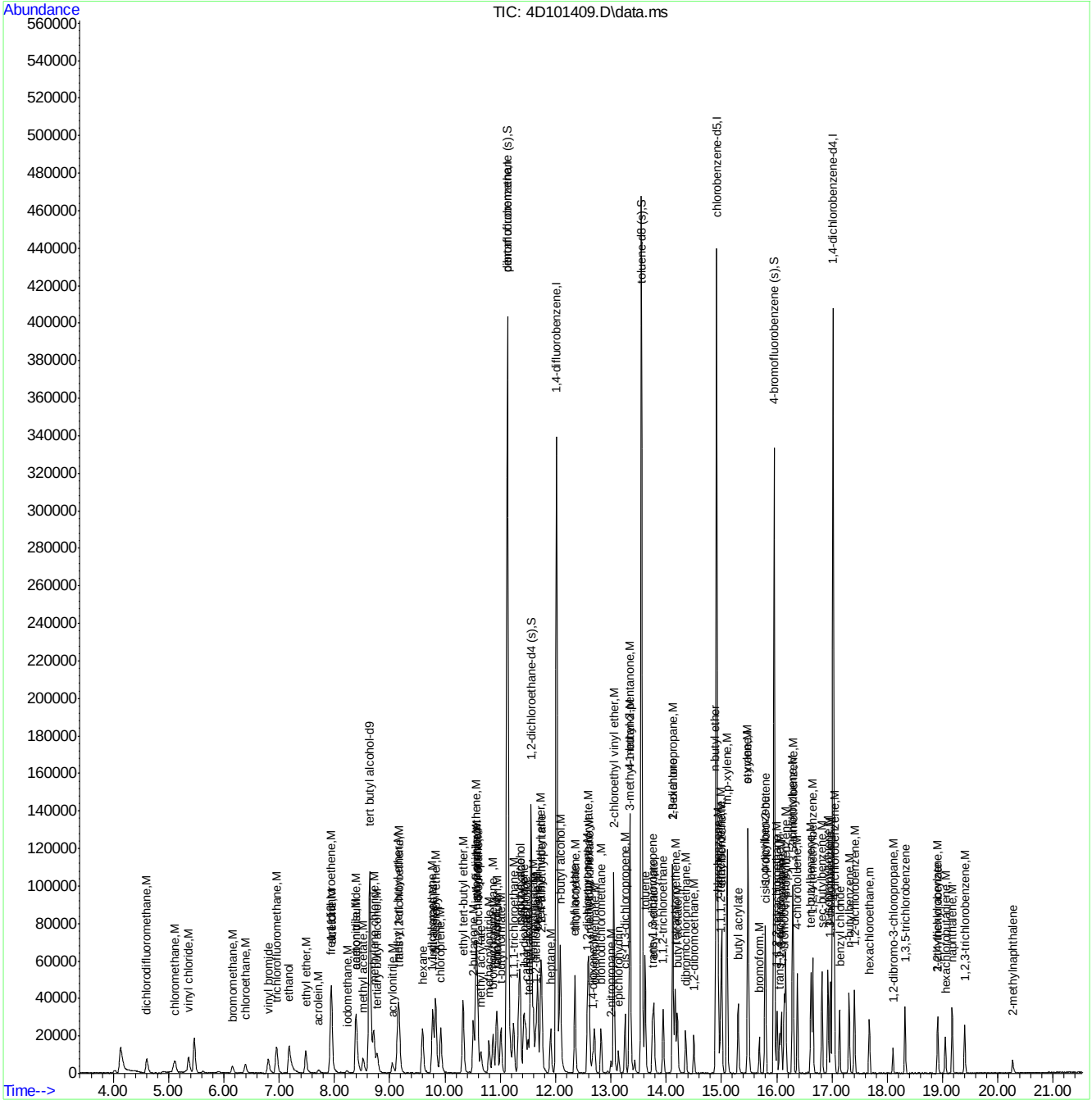
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
91) styrene	15.477	104	28663	7.69	ug/L		94
92) bromoform	15.687	173	9243	7.46	ug/L		96
93) butyl acrylate	15.304	55	24572	7.54	ug/L		99
94) isopropylbenzene	15.792	105	41113	7.63	ug/L		100
95) cis-1,4-dichloro-2-butene	15.802	88	5642	7.22	ug/L		95
98) bromobenzene	16.138	156	12073	8.14	ug/L		96
99) 1,1,2,2-tetrachloroethane	16.007	83	15969	8.03	ug/L		100
100) trans-1,4-dichloro-2-b...	16.054	53	4009	7.39	ug/L		93
101) 1,2,3-trichloropropane	16.085	110	4600	8.42	ug/L		97
102) n-propylbenzene	16.164	91	47145	7.99	ug/L		98
103) 2-chlorotoluene	16.290	126	10220	7.89	ug/L		97
104) 4-chlorotoluene	16.374	91	29733	8.13	ug/L		99
105) 1,3,5-trimethylbenzene	16.300	105	32635	7.92	ug/L		99
106) tert-butylbenzene	16.620	134	5713	7.79	ug/L		93
107) 1,2,4-trimethylbenzene	16.657	105	32514	8.04	ug/L		99
108) sec-butylbenzene	16.819	105	36106	7.76	ug/L		98
109) 1,3-dichlorobenzene	16.971	146	19788	8.09	ug/L		99
110) p-isopropyltoluene	16.924	119	30469	7.71	ug/L		99
111) 1,4-dichlorobenzene	17.045	146	19742	7.96	ug/L		98
112) benzyl chloride	17.139	91	24556	7.59	ug/L		99
113) 1,2-dichlorobenzene	17.407	146	18846	8.07	ug/L		96
114) n-butylbenzene	17.307	92	13840	7.71	ug/L		98
115) 1,2-dibromo-3-chloropr...	18.104	157	3967	7.09	ug/L		86
116) 1,3,5-trichlorobenzene	18.324	180	11748	7.74	ug/L		98
117) 2-ethylhexyl acrylate	18.911	70	718	0.98	ug/L	#	94
118) 1,2,4-trichlorobenzene	18.917	180	9461	7.45	ug/L		99
119) hexachlorobutadiene	19.053	225	4607	8.17	ug/L		99
120) naphthalene	19.174	128	28292	7.98	ug/L		99
121) 1,2,3-trichlorobenzene	19.404	180	8646	7.44	ug/L		97
122) hexachloroethane	17.674	201	4802	6.92	ug/L		97
123) 2-methylnaphthalene	20.269	142	5040	3.26	ug/L		95

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4496\
Data File : 4D101409.D
Acq On : 16 Apr 2020 6:55 pm
Operator : ROBERTS
Sample : IC4496-8
Misc : MS42511,V4D4496,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 17 08:29:52 2020
Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 08:29:10 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4496\
Data File : 4D101410.D
Acq On : 16 Apr 2020 7:23 pm
Operator : ROBERTS
Sample : IC4496-20
Misc : MS42511,V4D4496,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 17 08:29:54 2020
Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 08:29:10 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	8.640	65	190978	500.00	ug/L		0.00
5) pentafluorobenzene	11.126	168	216215	50.00	ug/L		0.00
51) 1,4-difluorobenzene	12.017	114	310240	50.00	ug/L		0.00
73) chlorobenzene-d5	14.911	117	231925	50.00	ug/L		0.00
96) 1,4-dichlorobenzene-d4	17.019	152	100139	50.00	ug/L		0.00
System Monitoring Compounds							
43) dibromofluoromethane (s)	11.131	113	104454	49.86	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.72%				
52) 1,2-dichloroethane-d4 (s)	11.556	65	110857	51.42	ug/L		0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 102.84%				
74) toluene-d8 (s)	13.553	98	314445	50.94	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 101.88%				
97) 4-bromofluorobenzene (s)	15.954	95	100151	50.68	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 101.36%				
Target Compounds							Qvalue
2) tertiary butyl alcohol	8.772	59	42744	97.84	ug/L		99
3) ethanol	7.178	45	89482	1926.35	ug/L		99
4) 1,4-dioxane	12.672	88	18024	499.13	ug/L		99
7) dichlorodifluoromethane	4.603	85	36447	18.91	ug/L		97
8) chloromethane	5.107	50	34576	18.70	ug/L		98
9) vinyl chloride	5.364	62	36006	18.89	ug/L		96
10) bromomethane	6.155	94	10951	16.94	ug/L		94
11) chloroethane	6.391	64	23207	19.58	ug/L		98
12) trichlorofluoromethane	6.952	101	51456	19.01	ug/L		97
13) vinyl bromide	6.805	106	25110	19.15	ug/L		97
14) ethyl ether	7.477	74	18898	18.89	ug/L		98
15) acrolein	7.697	56	7748	18.57	ug/L		98
16) freon 113	7.938	151	22866	18.83	ug/L		97
17) 1,1-dichloroethene	7.943	96	31799	20.06	ug/L		94
18) acetone	7.943	43	65183	77.51	ug/L		100
19) acetonitrile	8.389	41	77369	193.41	ug/L		99
20) iodomethane	8.226	142	15559	12.70	ug/L		99
21) carbon disulfide	8.389	76	77670	19.79	ug/L		100
22) methylene chloride	8.714	84	33696	19.32	ug/L		98
23) methyl acetate	8.515	43	42528	19.71	ug/L		98
24) methyl tert butyl ether	9.144	73	104373	19.86	ug/L		100
25) trans-1,2-dichloroethene	9.175	96	32474	19.69	ug/L		98
26) di-isopropyl ether	9.831	45	113102	19.97	ug/L		98
27) 2-butanone	10.507	72	27307	77.27	ug/L		98
28) 1,1-dichloroethane	9.773	63	60792	19.73	ug/L		99
29) chloroprene	9.920	53	48933	19.80	ug/L		98
30) acrylonitrile	9.039	53	17901	19.09	ug/L		100
31) hexane	9.595	56	21145	18.95	ug/L		97
32) vinyl acetate	9.778	86	8324	19.11	ug/L		95
33) ethyl tert-butyl ether	10.329	59	109726	19.87	ug/L		100
34) ethyl acetate	10.570	70	5850	19.02	ug/L	#	72
35) 2,2-dichloropropane	10.586	77	48267	19.78	ug/L		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4496\
Data File : 4D101410.D
Acq On : 16 Apr 2020 7:23 pm
Operator : ROBERTS
Sample : IC4496-20
Misc : MS42511,V4D4496,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 17 08:29:54 2020
Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 08:29:10 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) cis-1,2-dichloroethene	10.559	96	37100	20.07	ug/L		98
37) methyl acrylate	10.643	55	44946	19.75	ug/L		98
38) propionitrile	10.565	54	84849	194.28	ug/L		99
39) bromochloromethane	10.869	128	17986	20.39	ug/L		98
40) tetrahydrofuran	10.942	72	7506	19.34	ug/L		90
41) chloroform	10.937	85	39545	20.23	ug/L		100
42) t-butyl formate	11.010	59	40129	19.52	ug/L		97
44) methacrylonitrile	10.795	67	19362	19.41	ug/L		98
45) 1,1,1-trichloroethane	11.241	97	49973	19.65	ug/L		96
46) cyclohexane	11.356	84	39691	19.73	ug/L		98
47) 1,1-dichloropropene	11.425	75	43988	19.99	ug/L		99
48) isobutyl alcohol	11.356	74	3242	180.63	ug/L	#	88
49) carbon tetrachloride	11.461	117	43528	19.62	ug/L		97
50) tert amyl alcohol	11.503	55	13362	97.27	ug/L		93
53) n-butyl alcohol	12.085	56	107535	958.60	ug/L		100
54) 2,2,4-trimethylpentane	11.750	57	73253	19.35	ug/L		97
55) benzene	11.676	78	122988	20.09	ug/L		99
56) tert-amyl methyl ether	11.734	87	23704	19.81	ug/L		96
57) heptane	11.907	71	17457	19.54	ug/L		97
58) isopropyl acetate	11.598	87	9789	19.68	ug/L	#	85
59) 1,2-dichloroethane	11.645	62	46670	20.37	ug/L		98
60) trichloroethene	12.353	130	31598	19.51	ug/L		98
61) ethyl acrylate	12.342	55	56935	19.51	ug/L		100
62) 2-nitropropane	13.008	43	12593	18.86	ug/L		97
63) 2-chloroethyl vinyl ether	13.055	63	119865	98.95	ug/L		99
64) methyl methacrylate	12.594	100	10741	19.36	ug/L	#	92
65) 1,2-dichloropropane	12.578	63	32137	20.11	ug/L		97
66) dibromomethane	12.704	93	21730	19.91	ug/L		98
67) methylcyclohexane	12.604	83	40638	19.38	ug/L		99
68) bromodichloromethane	12.824	83	43146	19.80	ug/L		100
69) epichlorohydrin	13.139	57	27979	96.67	ug/L		96
70) cis-1,3-dichloropropene	13.260	75	49038	19.31	ug/L		99
71) 4-methyl-2-pentanone	13.349	58	71925	79.37	ug/L		99
72) 3-methyl-1-butanol	13.333	70	35478	374.98	ug/L		97
75) toluene	13.621	92	68110	20.08	ug/L		100
76) trans-1,3-dichloropropene	13.752	75	44498	19.54	ug/L		98
77) ethyl methacrylate	13.779	69	43582	20.07	ug/L		98
78) 1,1,2-trichloroethane	13.946	83	23792	20.11	ug/L		98
79) tetrachloroethene	14.167	164	25334	20.26	ug/L		97
80) 1,3-dichloropropane	14.119	76	44435	20.16	ug/L		99
81) 2-hexanone	14.119	58	72758	78.52	ug/L		94
82) butyl acetate	14.198	56	25944	19.74	ug/L		98
83) dibromochloromethane	14.355	129	32065	19.61	ug/L		99
84) 1,2-dibromoethane	14.502	107	35969	20.04	ug/L		99
85) n-butyl ether	14.895	57	112949	19.92	ug/L		99
86) chlorobenzene	14.943	112	72074	19.83	ug/L		97
87) 1,1,1,2-tetrachloroethane	14.990	131	25979	18.94	ug/L		98
88) ethylbenzene	15.006	91	119130	19.96	ug/L		99
89) m,p-xylene	15.100	106	89569	39.11	ug/L		99
90) o-xylene	15.477	106	43577	19.84	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4496\
Data File : 4D101410.D
Acq On : 16 Apr 2020 7:23 pm
Operator : ROBERTS
Sample : IC4496-20
Misc : MS42511,V4D4496,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 17 08:29:54 2020
Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 08:29:10 2020
Response via : Initial Calibration

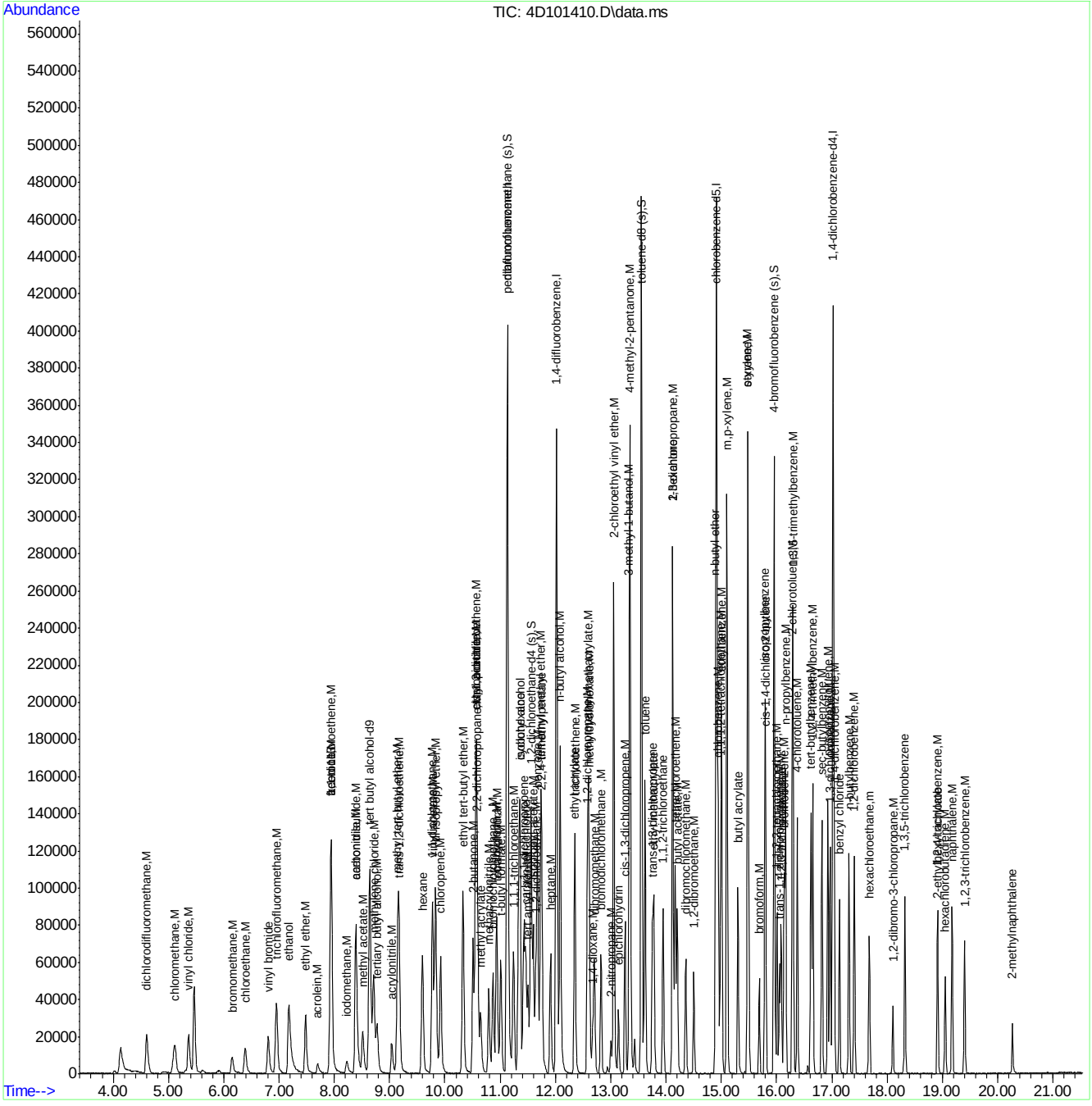
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91)	styrene	15.477	104	73272	19.61	ug/L	97
92)	bromoform	15.687	173	23611	19.01	ug/L	100
93)	butyl acrylate	15.299	55	63173	19.34	ug/L	98
94)	isopropylbenzene	15.792	105	104535	19.35	ug/L	99
95)	cis-1,4-dichloro-2-butene	15.802	88	14599	18.65	ug/L	97
98)	bromobenzene	16.138	156	30580	20.27	ug/L	98
99)	1,1,2,2-tetrachloroethane	16.007	83	40644	20.10	ug/L	100
100)	trans-1,4-dichloro-2-b...	16.054	53	10709	19.40	ug/L	99
101)	1,2,3-trichloropropane	16.086	110	11294	20.32	ug/L	96
102)	n-propylbenzene	16.164	91	119768	19.95	ug/L	99
103)	2-chlorotoluene	16.285	126	26596	20.18	ug/L	98
104)	4-chlorotoluene	16.374	91	74762	20.10	ug/L	99
105)	1,3,5-trimethylbenzene	16.295	105	82520	19.69	ug/L	99
106)	tert-butylbenzene	16.620	134	14416	19.33	ug/L	100
107)	1,2,4-trimethylbenzene	16.657	105	82639	20.09	ug/L	99
108)	sec-butylbenzene	16.820	105	92100	19.44	ug/L	99
109)	1,3-dichlorobenzene	16.972	146	49224	19.78	ug/L	100
110)	p-isopropyltoluene	16.924	119	78376	19.49	ug/L	99
111)	1,4-dichlorobenzene	17.045	146	50057	19.85	ug/L	98
112)	benzyl chloride	17.134	91	63260	19.21	ug/L	98
113)	1,2-dichlorobenzene	17.402	146	47004	19.78	ug/L	100
114)	n-butylbenzene	17.307	92	35020	19.17	ug/L	99
115)	1,2-dibromo-3-chloropr...	18.104	157	10758	18.90	ug/L	96
116)	1,3,5-trichlorobenzene	18.319	180	30043	19.45	ug/L	99
117)	2-ethylhexyl acrylate	18.906	70	2514	3.37	ug/L	94
118)	1,2,4-trichlorobenzene	18.912	180	24330	18.83	ug/L	97
119)	hexachlorobutadiene	19.048	225	11246	19.61	ug/L	99
120)	naphthalene	19.174	128	69280	19.20	ug/L	98
121)	1,2,3-trichlorobenzene	19.404	180	22447	18.98	ug/L	99
122)	hexachloroethane	17.679	201	12912	18.28	ug/L	98
123)	2-methylnaphthalene	20.264	142	14102	8.97	ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4496\
Data File : 4D101410.D
Acq On : 16 Apr 2020 7:23 pm
Operator : ROBERTS
Sample : IC4496-20
Misc : MS42511,V4D4496,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 17 08:29:54 2020
Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 08:29:10 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4496\
Data File : 4D101411.D
Acq On : 16 Apr 2020 7:52 pm
Operator : ROBERTS
Sample : ICC4496-50
Misc : MS42511,V4D4496,5,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 17 08:35:44 2020
Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 08:35:27 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	8.646	65	186464	500.00	ug/L	0.00
5) pentafluorobenzene	11.126	168	209051	50.00	ug/L	0.00
51) 1,4-difluorobenzene	12.017	114	300681	50.00	ug/L	0.00
73) chlorobenzene-d5	14.911	117	228667	50.00	ug/L	0.00
96) 1,4-dichlorobenzene-d4	17.019	152	102164	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	11.131	113	101276	50.46	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.92%			
52) 1,2-dichloroethane-d4 (s)	11.555	65	104484	49.90	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 99.80%			
74) toluene-d8 (s)	13.553	98	304314	49.29	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 98.58%			
97) 4-bromofluorobenzene (s)	15.954	95	100807	48.90	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 97.80%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	8.777	59	106636	272.47	ug/L	100
3) ethanol	7.183	45	226768	5869.21	ug/L	100
4) 1,4-dioxane	12.672	88	44072	1349.52	ug/L	100
7) dichlorodifluoromethane	4.603	85	93194	58.95	ug/L	100
8) chloromethane	5.117	50	89383	55.35	ug/L	100
9) vinyl chloride	5.363	62	92140	54.61	ug/L	100
10) bromomethane	6.139	94	31256	50.11	ug/L	100
11) chloroethane	6.381	64	57297	58.14	ug/L	100
12) trichlorofluoromethane	6.952	101	130883	59.61	ug/L	100
13) vinyl bromide	6.800	106	63403	58.30	ug/L	100
14) ethyl ether	7.482	74	48366	55.60	ug/L	100
15) acrolein	7.691	56	20169	55.74	ug/L	100
16) freon 113	7.933	151	58710	56.56	ug/L	100
17) 1,1-dichloroethene	7.938	96	76623	52.73	ug/L	100
18) acetone	7.938	43	162629	225.53	ug/L	100
19) acetonitrile	8.383	41	193076	546.46	ug/L	100
20) iodomethane	8.226	142	59235	67.48	ug/L	100
21) carbon disulfide	8.389	76	189771	44.29	ug/L	100
22) methylene chloride	8.708	84	84294	53.30	ug/L	100
23) methyl acetate	8.509	43	104326	52.54	ug/L	100
24) methyl tert butyl ether	9.144	73	254107	52.70	ug/L	100
25) trans-1,2-dichloroethene	9.170	96	79739	52.71	ug/L	100
26) di-isopropyl ether	9.831	45	273794	53.00	ug/L	100
27) 2-butanone	10.507	72	68336	232.00	ug/L	100
28) 1,1-dichloroethane	9.773	63	148990	54.04	ug/L	100
29) chloroprene	9.920	53	119478	54.93	ug/L	100
30) acrylonitrile	9.034	53	45342	58.32	ug/L	100
31) hexane	9.589	56	53938	57.79	ug/L	100
32) vinyl acetate	9.773	86	21061	56.45	ug/L	100
33) ethyl tert-butyl ether	10.329	59	266948	53.01	ug/L	100
34) ethyl acetate	10.565	70	14872	54.91	ug/L	100
35) 2,2-dichloropropane	10.591	77	117991	55.45	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4496\
Data File : 4D101411.D
Acq On : 16 Apr 2020 7:52 pm
Operator : ROBERTS
Sample : ICC4496-50
Misc : MS42511,V4D4496,5,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 17 08:35:44 2020
Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 08:35:27 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) cis-1,2-dichloroethene	10.559	96	89362	51.15	ug/L	100
37) methyl acrylate	10.643	55	110032	56.60	ug/L	100
38) propionitrile	10.565	54	211132	560.37	ug/L	100
39) bromochloromethane	10.869	128	42649	52.29	ug/L	100
40) tetrahydrofuran	10.942	72	18760	54.60	ug/L	100
41) chloroform	10.932	85	94483	40.56	ug/L	100
42) t-butyl formate	11.010	59	99401	52.68	ug/L	100
44) methacrylonitrile	10.790	67	48226	54.34	ug/L	100
45) 1,1,1-trichloroethane	11.241	97	122965	54.17	ug/L	100
46) cyclohexane	11.356	84	96721	58.43	ug/L	100
47) 1,1-dichloropropene	11.424	75	106387	54.00	ug/L	100
48) isobutyl alcohol	11.356	74	8677	17.36	ug/L	100
49) carbon tetrachloride	11.461	117	107279	56.92	ug/L	100
50) tert amyl alcohol	11.503	55	33203	271.08	ug/L	100
53) n-butyl alcohol	12.085	56	271807	2933.88	ug/L	100
54) 2,2,4-trimethylpentane	11.749	57	183443	61.02	ug/L	100
55) benzene	11.676	78	296601	49.70	ug/L	100
56) tert-amyl methyl ether	11.734	87	57985	26.51	ug/L	100
57) heptane	11.912	71	43299	56.26	ug/L	100
58) isopropyl acetate	11.597	87	24102	50.07	ug/L	100
59) 1,2-dichloroethane	11.645	62	111005	45.71	ug/L	100
60) trichloroethene	12.352	130	78474	54.32	ug/L	100
61) ethyl acrylate	12.342	55	141408	55.31	ug/L	100
62) 2-nitropropane	13.003	43	32359	52.87	ug/L	100
63) 2-chloroethyl vinyl ether	13.055	63	293522	266.85	ug/L	100
64) methyl methacrylate	12.588	100	26880	56.30	ug/L	100
65) 1,2-dichloropropane	12.578	63	77459	53.75	ug/L	100
66) dibromomethane	12.698	93	52886	52.11	ug/L	100
67) methylcyclohexane	12.604	83	101640	57.41	ug/L	100
68) bromodichloromethane	12.824	83	105592	52.98	ug/L	100
69) epichlorohydrin	13.139	57	70126	270.75	ug/L	100
70) cis-1,3-dichloropropene	13.254	75	123044	53.44	ug/L	100
71) 4-methyl-2-pentanone	13.349	58	175660	208.57	ug/L	100
72) 3-methyl-1-butanol	13.338	70	91698	102.49	ug/L	100
75) toluene	13.621	92	167185	50.42	ug/L	100
76) trans-1,3-dichloropropene	13.752	75	112291	53.82	ug/L	100
77) ethyl methacrylate	13.778	69	107035	48.42	ug/L	100
78) 1,1,2-trichloroethane	13.946	83	58319	51.40	ug/L	100
79) tetrachloroethene	14.166	164	61641	50.27	ug/L	100
80) 1,3-dichloropropane	14.119	76	108683	52.23	ug/L	100
81) 2-hexanone	14.119	58	182726	221.29	ug/L	100
82) butyl acetate	14.198	56	64778	54.75	ug/L	100
83) dibromochloromethane	14.355	129	80599	55.04	ug/L	100
84) 1,2-dibromoethane	14.502	107	88495	52.89	ug/L	100
85) n-butyl ether	14.895	57	279593	52.18	ug/L	100
86) chlorobenzene	14.942	112	179216	50.65	ug/L	100
87) 1,1,1,2-tetrachloroethane	14.990	131	67617	53.87	ug/L	100
88) ethylbenzene	15.005	91	294195	50.78	ug/L	100
89) m,p-xylene	15.100	106	225819	104.58	ug/L	100
90) o-xylene	15.477	106	108261	53.23	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4496\
Data File : 4D101411.D
Acq On : 16 Apr 2020 7:52 pm
Operator : ROBERTS
Sample : ICC4496-50
Misc : MS42511,V4D4496,5,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 17 08:35:44 2020
Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 08:35:27 2020
Response via : Initial Calibration

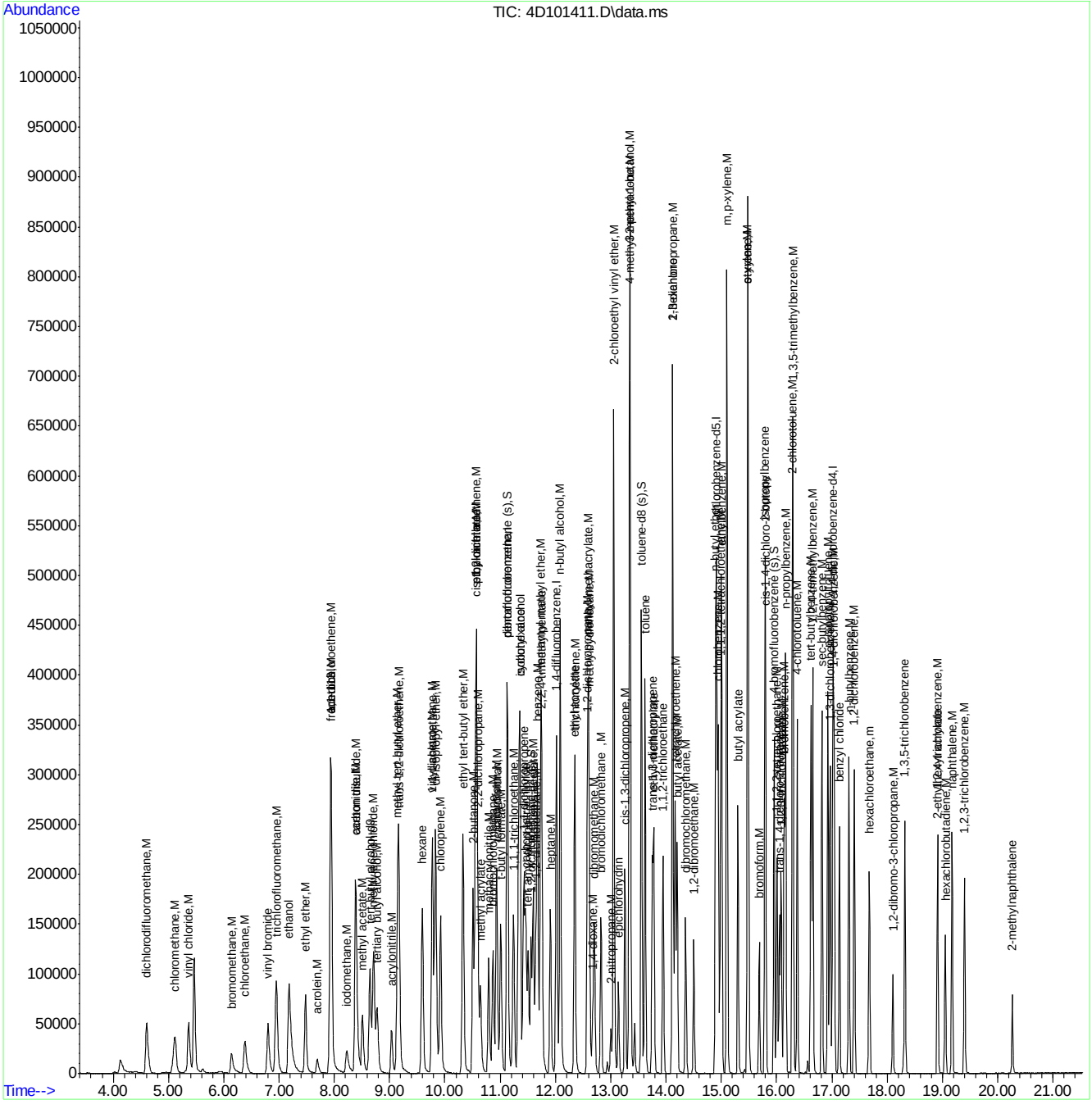
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91)	styrene	15.477	104	184159	53.45	ug/L	100
92)	bromoform	15.687	173	61221	54.21	ug/L	100
93)	butyl acrylate	15.299	55	161023	54.74	ug/L	100
94)	isopropylbenzene	15.792	105	266321	52.21	ug/L	100
95)	cis-1,4-dichloro-2-butene	15.802	88	38595	14.30	ug/L	100
98)	bromobenzene	16.138	156	76965	51.57	ug/L	100
99)	1,1,2,2-tetrachloroethane	16.007	83	103155	51.64	ug/L	100
100)	trans-1,4-dichloro-2-b...	16.049	53	28156	54.67	ug/L	100
101)	1,2,3-trichloropropane	16.080	110	28357	51.97	ug/L	100
102)	n-propylbenzene	16.164	91	306307	50.54	ug/L	100
103)	2-chlorotoluene	16.285	126	67223	52.22	ug/L	100
104)	4-chlorotoluene	16.374	91	189694	50.78	ug/L	100
105)	1,3,5-trimethylbenzene	16.295	105	213830	51.74	ug/L	100
106)	tert-butylbenzene	16.620	134	38047	52.92	ug/L	100
107)	1,2,4-trimethylbenzene	16.657	105	209791	50.27	ug/L	100
108)	sec-butylbenzene	16.819	105	241617	51.06	ug/L	100
109)	1,3-dichlorobenzene	16.972	146	126972	50.54	ug/L	100
110)	p-isopropyltoluene	16.924	119	205137	52.31	ug/L	100
111)	1,4-dichlorobenzene	17.040	146	128643	50.36	ug/L	100
112)	benzyl chloride	17.134	91	167984	55.29	ug/L	100
113)	1,2-dichlorobenzene	17.401	146	121234	50.52	ug/L	100
114)	n-butylbenzene	17.307	92	93212	56.21	ug/L	100
115)	1,2-dibromo-3-chloropr...	18.104	157	29030	55.50	ug/L	100
116)	1,3,5-trichlorobenzene	18.319	180	78782	52.56	ug/L	100
117)	2-ethylhexyl acrylate	18.906	70	7610	11.94	ug/L	100
118)	1,2,4-trichlorobenzene	18.911	180	65922	53.23	ug/L	100
119)	hexachlorobutadiene	19.053	225	29255	52.68	ug/L	100
120)	naphthalene	19.174	128	184023	49.92	ug/L	100
121)	1,2,3-trichlorobenzene	19.399	180	60342	53.49	ug/L	100
122)	hexachloroethane	17.679	201	36037	54.80	ug/L	100
123)	2-methylnaphthalene	20.264	142	40115	30.98	ug/L	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4496\
Data File : 4D101411.D
Acq On : 16 Apr 2020 7:52 pm
Operator : ROBERTS
Sample : ICC4496-50
Misc : MS42511,V4D4496,5,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 17 08:35:44 2020
Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 08:35:27 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4496\
Data File : 4D101412.D
Acq On : 16 Apr 2020 8:21 pm
Operator : ROBERTS
Sample : IC4496-100
Misc : MS42511,V4D4496,5,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 17 08:29:58 2020
Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 08:29:10 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	8.651	65	188016	500.00	ug/L	0.00
5) pentafluorobenzene	11.131	168	208531	50.00	ug/L	0.00
51) 1,4-difluorobenzene	12.017	114	298801	50.00	ug/L	0.00
73) chlorobenzene-d5	14.911	117	231362	50.00	ug/L	0.00
96) 1,4-dichlorobenzene-d4	17.019	152	103022	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	11.131	113	101612	50.29	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.58%			
52) 1,2-dichloroethane-d4 (s)	11.556	65	102857	49.53	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 99.06%			
74) toluene-d8 (s)	13.553	98	304654	49.47	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 98.94%			
97) 4-bromofluorobenzene (s)	15.954	95	102520	50.43	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.86%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	8.782	59	211522	491.80	ug/L	99
3) ethanol	7.188	45	450522	9851.55	ug/L	99
4) 1,4-dioxane	12.672	88	87136	2451.01	ug/L	98
7) dichlorodifluoromethane	4.603	85	188613	101.45	ug/L	99
8) chloromethane	5.117	50	179009	100.39	ug/L	98
9) vinyl chloride	5.364	62	191467	104.16	ug/L	97
10) bromomethane	6.124	94	75556	121.17	ug/L	98
11) chloroethane	6.370	64	115025	100.63	ug/L	99
12) trichlorofluoromethane	6.947	101	265237	101.58	ug/L	97
13) vinyl bromide	6.795	106	131274	103.78	ug/L	99
14) ethyl ether	7.476	74	101953	105.66	ug/L	98
15) acrolein	7.686	56	42282	105.08	ug/L	98
16) freon 113	7.933	151	121504	103.74	ug/L	95
17) 1,1-dichloroethene	7.938	96	157938	103.32	ug/L	98
18) acetone	7.938	43	329759	406.55	ug/L	99
19) acetonitrile	8.384	41	391454	1014.62	ug/L	99
20) iodomethane	8.221	142	145104	122.79	ug/L	99
21) carbon disulfide	8.389	76	400986	105.91	ug/L	100
22) methylene chloride	8.709	84	175130	104.14	ug/L	99
23) methyl acetate	8.504	43	215341	103.46	ug/L	100
24) methyl tert butyl ether	9.144	73	530450	104.64	ug/L	100
25) trans-1,2-dichloroethene	9.170	96	164872	103.64	ug/L	98
26) di-isopropyl ether	9.831	45	558024	102.16	ug/L	98
27) 2-butanone	10.507	72	140439	412.05	ug/L	98
28) 1,1-dichloroethane	9.768	63	310000	104.29	ug/L	100
29) chloroprene	9.920	53	245733	103.09	ug/L	97
30) acrylonitrile	9.028	53	94878	104.89	ug/L	99
31) hexane	9.589	56	108497	100.83	ug/L	99
32) vinyl acetate	9.773	86	45922	109.29	ug/L	95
33) ethyl tert-butyl ether	10.329	59	557269	104.64	ug/L	100
34) ethyl acetate	10.565	70	31518	106.23	ug/L #	87
35) 2,2-dichloropropane	10.586	77	238354	101.26	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4496\
Data File : 4D101412.D
Acq On : 16 Apr 2020 8:21 pm
Operator : ROBERTS
Sample : IC4496-100
Misc : MS42511,V4D4496,5,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 17 08:29:58 2020
Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 08:29:10 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) cis-1,2-dichloroethene	10.554	96	184613	103.55	ug/L		98
37) methyl acrylate	10.638	55	223608	101.86	ug/L		99
38) propionitrile	10.565	54	422872	1003.94	ug/L		100
39) bromochloromethane	10.869	128	86419	101.57	ug/L		99
40) tetrahydrofuran	10.942	72	37896	101.25	ug/L		97
41) chloroform	10.932	85	192854	102.31	ug/L		100
42) t-butyl formate	11.010	59	207287	104.53	ug/L		99
44) methacrylonitrile	10.790	67	99258	103.17	ug/L		98
45) 1,1,1-trichloroethane	11.241	97	253465	103.32	ug/L		99
46) cyclohexane	11.356	84	193680	99.80	ug/L		96
47) 1,1-dichloropropene	11.425	75	217141	102.31	ug/L		98
48) isobutyl alcohol	11.356	74	17346	1002.03	ug/L		97
49) carbon tetrachloride	11.461	117	221349	103.42	ug/L		100
50) tert amyl alcohol	11.508	55	65974	497.99	ug/L		97
53) n-butyl alcohol	12.090	56	533751	4940.17	ug/L		98
54) 2,2,4-trimethylpentane	11.750	57	370803	101.70	ug/L		99
55) benzene	11.671	78	607348	103.03	ug/L		99
56) tert-amyl methyl ether	11.734	87	120456	104.52	ug/L		97
57) heptane	11.907	71	88025	102.29	ug/L		99
58) isopropyl acetate	11.598	87	50310	105.03	ug/L	#	87
59) 1,2-dichloroethane	11.645	62	228017	103.35	ug/L		100
60) trichloroethene	12.353	130	162079	103.92	ug/L		100
61) ethyl acrylate	12.337	55	292342	104.02	ug/L		98
62) 2-nitropropane	13.003	43	67375	104.76	ug/L		99
63) 2-chloroethyl vinyl ether	13.055	63	605239	518.74	ug/L		99
64) methyl methacrylate	12.588	100	56607	105.96	ug/L		98
65) 1,2-dichloropropane	12.578	63	160045	103.96	ug/L		98
66) dibromomethane	12.699	93	111049	105.65	ug/L		99
67) methylcyclohexane	12.604	83	207464	102.70	ug/L		98
68) bromodichloromethane	12.824	83	219641	104.66	ug/L		100
69) epichlorohydrin	13.139	57	141175	506.46	ug/L		99
70) cis-1,3-dichloropropene	13.254	75	256446	104.86	ug/L		98
71) 4-methyl-2-pentanone	13.349	58	354601	406.28	ug/L		100
72) 3-methyl-1-butanol	13.338	70	181939	1996.59	ug/L		98
75) toluene	13.621	92	345046	101.99	ug/L		98
76) trans-1,3-dichloropropene	13.752	75	236068	103.89	ug/L		100
77) ethyl methacrylate	13.779	69	225051	103.91	ug/L		98
78) 1,1,2-trichloroethane	13.946	83	123309	104.49	ug/L		99
79) tetrachloroethene	14.161	164	126119	101.11	ug/L		98
80) 1,3-dichloropropane	14.119	76	226038	102.78	ug/L		98
81) 2-hexanone	14.119	58	371131	401.48	ug/L		95
82) butyl acetate	14.198	56	134679	102.74	ug/L		97
83) dibromochloromethane	14.355	129	174223	106.82	ug/L		98
84) 1,2-dibromoethane	14.502	107	186504	104.15	ug/L		99
85) n-butyl ether	14.895	57	587876	103.91	ug/L		100
86) chlorobenzene	14.943	112	374476	103.26	ug/L		99
87) 1,1,1,2-tetrachloroethane	14.985	131	144264	105.43	ug/L		98
88) ethylbenzene	15.006	91	614510	103.22	ug/L		99
89) m,p-xylene	15.100	106	468558	205.08	ug/L		100
90) o-xylene	15.477	106	226678	103.47	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4496\
Data File : 4D101412.D
Acq On : 16 Apr 2020 8:21 pm
Operator : ROBERTS
Sample : IC4496-100
Misc : MS42511,V4D4496,5,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 17 08:29:58 2020
Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 08:29:10 2020
Response via : Initial Calibration

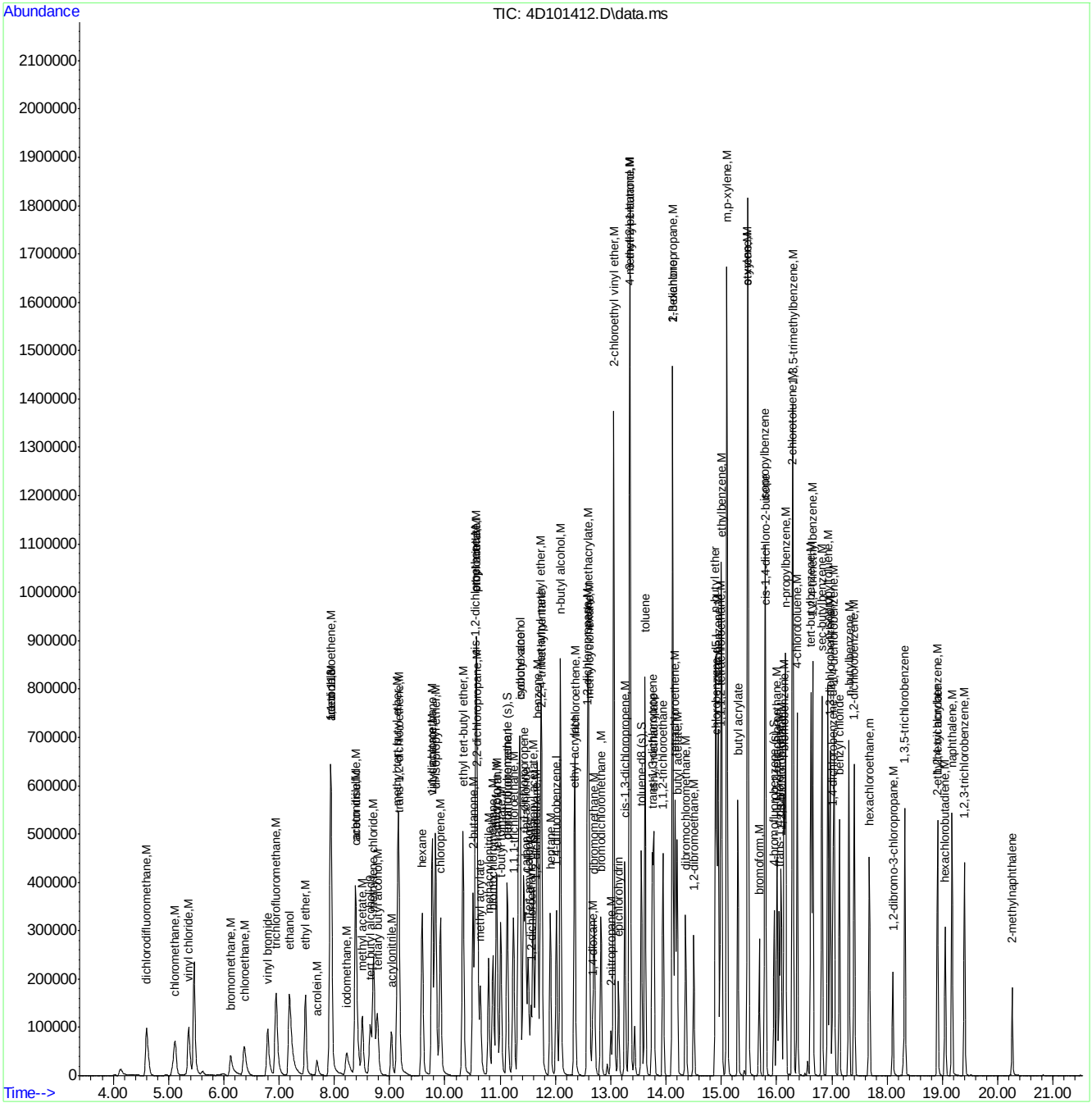
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91)	styrene	15.477	104	389297	104.46	ug/L	99
92)	bromoform	15.687	173	132659	107.08	ug/L	100
93)	butyl acrylate	15.299	55	336580	103.30	ug/L	99
94)	isopropylbenzene	15.792	105	565085	104.86	ug/L	100
95)	cis-1,4-dichloro-2-butene	15.802	88	83508	106.92	ug/L	100
98)	bromobenzene	16.138	156	161618	104.12	ug/L	99
99)	1,1,2,2-tetrachloroethane	16.007	83	217865	104.72	ug/L	99
100)	trans-1,4-dichloro-2-b...	16.049	53	59692	105.12	ug/L	97
101)	1,2,3-trichloropropane	16.086	110	60226	105.31	ug/L	100
102)	n-propylbenzene	16.164	91	642987	104.08	ug/L	99
103)	2-chlorotoluene	16.285	126	139886	103.18	ug/L	99
104)	4-chlorotoluene	16.374	91	396364	103.60	ug/L	100
105)	1,3,5-trimethylbenzene	16.295	105	449260	104.18	ug/L	99
106)	tert-butylbenzene	16.620	134	82525	107.55	ug/L	97
107)	1,2,4-trimethylbenzene	16.652	105	450365	106.44	ug/L	98
108)	sec-butylbenzene	16.820	105	519372	106.58	ug/L	100
109)	1,3-dichlorobenzene	16.972	146	265165	103.55	ug/L	99
110)	p-isopropyltoluene	16.924	119	438415	105.97	ug/L	100
111)	1,4-dichlorobenzene	17.040	146	270686	104.33	ug/L	100
112)	benzyl chloride	17.134	91	352439	104.03	ug/L	100
113)	1,2-dichlorobenzene	17.402	146	256217	104.79	ug/L	99
114)	n-butylbenzene	17.307	92	200795	106.81	ug/L	99
115)	1,2-dibromo-3-chloropr...	18.104	157	62433	106.64	ug/L	96
116)	1,3,5-trichlorobenzene	18.319	180	171368	107.86	ug/L	100
117)	2-ethylhexyl acrylate	18.906	70	17063	22.24	ug/L	94
118)	1,2,4-trichlorobenzene	18.912	180	147327	110.81	ug/L	98
119)	hexachlorobutadiene	19.048	225	63169	107.06	ug/L	96
120)	naphthalene	19.168	128	399714	107.70	ug/L	99
121)	1,2,3-trichlorobenzene	19.399	180	133613	109.79	ug/L	99
122)	hexachloroethane	17.679	201	78894	108.55	ug/L	99
123)	2-methylnaphthalene	20.259	142	86591	53.51	ug/L	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4496\
Data File : 4D101412.D
Acq On : 16 Apr 2020 8:21 pm
Operator : ROBERTS
Sample : IC4496-100
Misc : MS42511,V4D4496,5,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 17 08:29:58 2020
Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 08:29:10 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4496\
Data File : 4D101413.D
Acq On : 16 Apr 2020 8:49 pm
Operator : ROBERTS
Sample : IC4496-200
Misc : MS42511,V4D4496,5,,,,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 17 16:25:56 2020
Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 08:29:10 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	8.661	65	174184	500.00	ug/L	0.02
5) pentafluorobenzene	11.126	168	201497	50.00	ug/L	0.00
51) 1,4-difluorobenzene	12.017	114	290055	50.00	ug/L	0.00
73) chlorobenzene-d5	14.911	117	228292	50.00	ug/L	0.00
96) 1,4-dichlorobenzene-d4	17.019	152	98232	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	11.131	113	98001	50.20	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.40%			
52) 1,2-dichloroethane-d4 (s)	11.556	65	97128	48.18	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 96.36%			
74) toluene-d8 (s)	13.553	98	297843	49.02	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 98.04%			
97) 4-bromofluorobenzene (s)	15.954	95	99441	51.30	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 102.60%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	8.792	59	398354	999.75	ug/L	99
3) ethanol	7.214	45	848459	20026.54	ug/L	99
4) 1,4-dioxane	12.683	88	161689	4909.24	ug/L	100
7) dichlorodifluoromethane	4.603	85	379709	211.36	ug/L	99
8) chloromethane	5.117	50	375572	217.97	ug/L	98
9) vinyl chloride	5.369	62	397392	223.73	ug/L	96
11) chloroethane	6.354	64	224340	203.11	ug/L	99
12) trichlorofluoromethane	6.936	101	531775	210.76	ug/L	99
13) vinyl bromide	6.784	106	264297	216.24	ug/L	99
14) ethyl ether	7.476	74	192891	206.88	ug/L	98
15) acrolein	7.686	56	80026	205.83	ug/L	97
16) freon 113	7.927	151	233514	206.33	ug/L	98
17) 1,1-dichloroethene	7.933	96	300910	203.72	ug/L	99
18) acetone	7.943	43	614727	784.33	ug/L	98
19) acetonitrile	8.389	41	736706	1976.15	ug/L	99
20) iodomethane	8.226	142	287573	251.84	ug/L	96
21) carbon disulfide	8.383	76	766462	209.51	ug/L	100
22) methylene chloride	8.709	84	335587	206.52	ug/L	100
23) methyl acetate	8.509	43	405652	201.70	ug/L	100
24) methyl tert butyl ether	9.149	73	1008438	205.87	ug/L	100
25) trans-1,2-dichloroethene	9.165	96	315519	205.26	ug/L	99
26) di-isopropyl ether	9.831	45	1049828	198.91	ug/L	98
27) 2-butanone	10.512	72	267716	812.90	ug/L	95
28) 1,1-dichloroethane	9.768	63	590761	205.69	ug/L	99
29) chloroprene	9.920	53	463625	201.29	ug/L	97
30) acrylonitrile	9.028	53	182240	208.50	ug/L	99
31) hexane	9.584	56	212229	204.11	ug/L	98
32) vinyl acetate	9.773	86	88287	217.46	ug/L #	84
33) ethyl tert-butyl ether	10.329	59	1063850	206.73	ug/L	100
34) ethyl acetate	10.565	70	59485	207.49	ug/L #	81
35) 2,2-dichloropropane	10.586	77	447105	196.57	ug/L	96
36) cis-1,2-dichloroethene	10.554	96	347684	201.83	ug/L	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4496\
Data File : 4D101413.D
Acq On : 16 Apr 2020 8:49 pm
Operator : ROBERTS
Sample : IC4496-200
Misc : MS42511,V4D4496,5,,,,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 17 16:25:56 2020
Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 08:29:10 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) methyl acrylate	10.643	55	422621	199.24	ug/L		99
38) propionitrile	10.570	54	786499	1932.40	ug/L		99
39) bromochloromethane	10.869	128	164724	200.36	ug/L		97
40) tetrahydrofuran	10.942	72	71942	198.93	ug/L		96
41) chloroform	10.932	85	366957	201.47	ug/L		98
42) t-butyl formate	11.010	59	394359	205.80	ug/L		99
44) methacrylonitrile	10.790	67	188558	202.82	ug/L		99
45) 1,1,1-trichloroethane	11.241	97	487501	205.66	ug/L		98
46) cyclohexane	11.351	84	383531	204.53	ug/L	#	85
47) 1,1-dichloropropene	11.424	75	414752	202.23	ug/L		99
48) isobutyl alcohol	11.367	74	33021	1974.12	ug/L	#	53
49) carbon tetrachloride	11.461	117	426241	206.11	ug/L		99
50) tert amyl alcohol	11.514	55	122127	954.02	ug/L		95
53) n-butyl alcohol	12.101	56	1002568	9559.14	ug/L		98
54) 2,2,4-trimethylpentane	11.750	57	714310	201.83	ug/L		99
55) benzene	11.676	78	1150905	201.12	ug/L		99
56) tert-amyl methyl ether	11.734	87	227609	203.46	ug/L		97
57) heptane	11.907	71	174252	208.59	ug/L		99
58) isopropyl acetate	11.597	87	96450	207.42	ug/L	#	89
59) 1,2-dichloroethane	11.645	62	427499	199.61	ug/L		100
60) trichloroethene	12.352	130	311636	205.83	ug/L		99
61) ethyl acrylate	12.342	55	557181	204.23	ug/L		99
62) 2-nitropropane	13.003	43	129407	207.28	ug/L		99
63) 2-chloroethyl vinyl ether	13.055	63	1141112	1007.52	ug/L		100
64) methyl methacrylate	12.588	100	107203	206.72	ug/L		96
65) 1,2-dichloropropane	12.578	63	305095	204.15	ug/L		99
66) dibromomethane	12.698	93	209979	205.79	ug/L		99
67) methylcyclohexane	12.604	83	401845	204.92	ug/L		97
68) bromodichloromethane	12.824	83	425207	208.72	ug/L		99
69) epichlorohydrin	13.144	57	267438	988.35	ug/L		99
70) cis-1,3-dichloropropene	13.254	75	495820	208.86	ug/L		100
71) 4-methyl-2-pentanone	13.354	58	655437	773.60	ug/L		98
72) 3-methyl-1-butanol	13.343	70	339768	3841.03	ug/L		99
75) toluene	13.621	92	666211	199.57	ug/L		98
76) trans-1,3-dichloropropene	13.752	75	455458	203.14	ug/L		100
77) ethyl methacrylate	13.779	69	425761	199.22	ug/L		99
78) 1,1,2-trichloroethane	13.946	83	236884	203.43	ug/L		98
79) tetrachloroethene	14.167	164	240309	195.25	ug/L		99
80) 1,3-dichloropropane	14.119	76	429131	197.75	ug/L		97
81) 2-hexanone	14.119	58	692931	759.68	ug/L		99
82) butyl acetate	14.198	56	254239	196.56	ug/L		94
83) dibromochloromethane	14.355	129	340064	211.31	ug/L		100
84) 1,2-dibromoethane	14.502	107	365507	206.85	ug/L		99
85) n-butyl ether	14.895	57	1137435	203.74	ug/L		100
86) chlorobenzene	14.943	112	732336	204.65	ug/L		100
87) 1,1,1,2-tetrachloroethane	14.984	131	283130	209.71	ug/L		99
88) ethylbenzene	15.005	91	1183813	201.53	ug/L		99
89) m,p-xylene	15.100	106	893955	396.52	ug/L		99
90) o-xylene	15.477	106	431022	199.39	ug/L		99
91) styrene	15.477	104	745176	202.65	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4496\
Data File : 4D101413.D
Acq On : 16 Apr 2020 8:49 pm
Operator : ROBERTS
Sample : IC4496-200
Misc : MS42511,V4D4496,5,,,,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 17 16:25:56 2020
Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 08:29:10 2020
Response via : Initial Calibration

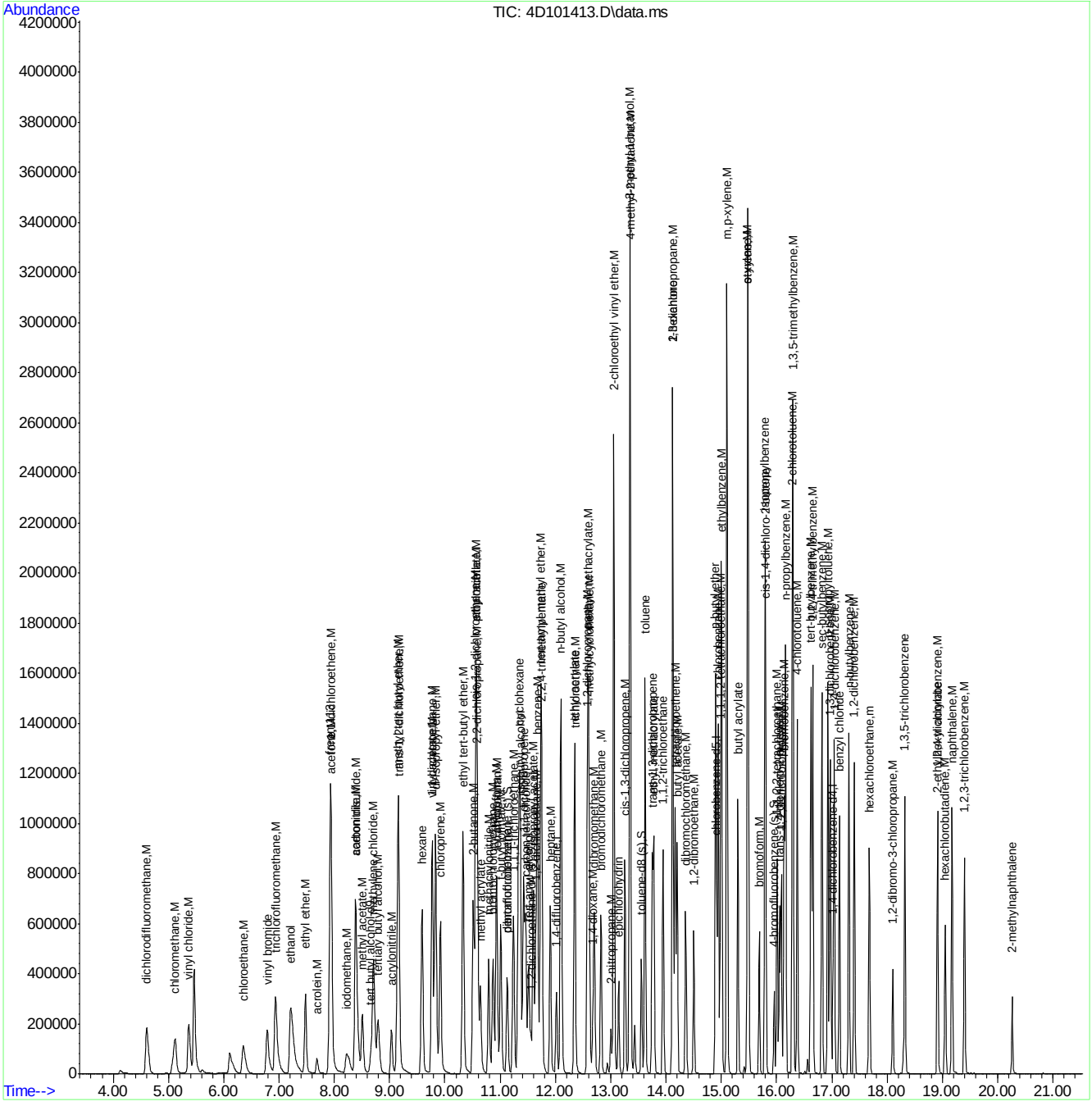
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
92) bromoform	15.687	173	260009	212.70	ug/L	100
93) butyl acrylate	15.299	55	639965	199.04	ug/L	99
94) isopropylbenzene	15.792	105	1088829	204.76	ug/L	100
95) cis-1,4-dichloro-2-butene	15.802	88	162161	210.43	ug/L	99
98) bromobenzene	16.138	156	309873	209.37	ug/L	99
99) 1,1,2,2-tetrachloroethane	16.007	83	415830	209.62	ug/L	99
100) trans-1,4-dichloro-2-b...	16.054	53	114387	211.26	ug/L	94
101) 1,2,3-trichloropropane	16.086	110	114258	209.53	ug/L	99
102) n-propylbenzene	16.164	91	1224575	207.89	ug/L	99
103) 2-chlorotoluene	16.285	126	267024	206.56	ug/L	99
104) 4-chlorotoluene	16.374	91	742904	203.65	ug/L	100
105) 1,3,5-trimethylbenzene	16.295	105	860595	209.29	ug/L	99
106) tert-butylbenzene	16.620	134	159802	218.41	ug/L	98
107) 1,2,4-trimethylbenzene	16.657	105	859621	213.08	ug/L	99
108) sec-butylbenzene	16.820	105	1000980	215.43	ug/L	99
109) 1,3-dichlorobenzene	16.972	146	505082	206.86	ug/L	99
110) p-isopropyltoluene	16.924	119	847000	214.71	ug/L	99
111) 1,4-dichlorobenzene	17.045	146	515325	208.31	ug/L	99
112) benzyl chloride	17.134	91	674223	208.71	ug/L	100
113) 1,2-dichlorobenzene	17.402	146	484676	207.89	ug/L	100
114) n-butylbenzene	17.307	92	394071	219.85	ug/L	99
115) 1,2-dibromo-3-chloropr...	18.099	157	121094	216.92	ug/L	97
116) 1,3,5-trichlorobenzene	18.319	180	338921	223.71	ug/L	99
117) 2-ethylhexyl acrylate	18.906	70	31938	43.65	ug/L	97
118) 1,2,4-trichlorobenzene	18.912	180	292611	230.82	ug/L	99
119) hexachlorobutadiene	19.048	225	122784	218.25	ug/L	96
120) naphthalene	19.168	128	789765	223.17	ug/L	99
121) 1,2,3-trichlorobenzene	19.399	180	266067	229.29	ug/L	99
122) hexachloroethane	17.679	201	159411	230.03	ug/L	98
123) 2-methylnaphthalene	20.259	142	145114	94.06	ug/L	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4496\
Data File : 4D101413.D
Acq On : 16 Apr 2020 8:49 pm
Operator : ROBERTS
Sample : IC4496-200
Misc : MS42511,V4D4496,5,,,,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 17 16:25:56 2020
Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 08:29:10 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4496\
Data File : 4D101416.D
Acq On : 16 Apr 2020 10:15 pm
Operator : ROBERTS
Sample : ICV4496-50
Misc : MS42511,V4D4496,5,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Apr 17 16:32:18 2020
Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 16:29:00 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) tert butyl alcohol-d9	8.645	65	197961	500.00	ug/L		0.00
5) pentafluorobenzene	11.131	168	230712	50.00	ug/L		0.00
51) 1,4-difluorobenzene	12.017	114	332319	50.00	ug/L		0.00
73) chlorobenzene-d5	14.911	117	253759	50.00	ug/L		0.00
96) 1,4-dichlorobenzene-d4	17.019	152	109753	50.00	ug/L		0.00
System Monitoring Compounds							
43) dibromofluoromethane (s)	11.131	113	111553	50.36	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.72%				
52) 1,2-dichloroethane-d4 (s)	11.555	65	109340	47.25	ug/L		0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 94.50%				
74) toluene-d8 (s)	13.553	98	335393	48.96	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 97.92%				
97) 4-bromofluorobenzene (s)	15.954	95	110227	49.78	ug/L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.56%				
Target Compounds							Qvalue
2) tertiary butyl alcohol	8.777	59	115784	259.54	ug/L		99
3) ethanol	7.183	45	249540	5414.73	ug/L		100
4) 1,4-dioxane	12.672	88	48987	1341.75	ug/L		97
7) dichlorodifluoromethane	4.603	85	105011	53.94	ug/L		99
8) chloromethane	5.106	50	98574	51.53	ug/L		98
9) vinyl chloride	5.363	62	106168	55.06	ug/L		99
10) bromomethane	6.139	94	42495	59.34	ug/L		96
11) chloroethane	6.380	64	55772	47.25	ug/L		97
12) trichlorofluoromethane	6.952	101	136616	49.72	ug/L		97
13) vinyl bromide	6.800	106	76910	58.94	ug/L		99
14) ethyl ether	7.476	74	54150	54.07	ug/L		98
15) acrolein	7.686	56	21093	49.33	ug/L		93
16) freon 113	7.938	151	68889	56.88	ug/L		97
17) 1,1-dichloroethene	7.938	96	80109	49.96	ug/L		97
18) acetone	7.938	43	171005	200.87	ug/L		98
20) iodomethane	8.231	142	32864	33.92	ug/L		95
21) carbon disulfide	8.389	76	247538	57.97	ug/L		99
22) methylene chloride	8.708	84	93748	52.01	ug/L		99
23) methyl acetate	8.509	43	106869	48.27	ug/L		99
24) methyl tert butyl ether	9.144	73	553482	101.49	ug/L		100
25) trans-1,2-dichloroethene	9.170	96	87451	51.04	ug/L		97
26) di-isopropyl ether	9.830	45	284359	48.68	ug/L		99
27) 2-butanone	10.507	72	75243	207.27	ug/L		92
28) 1,1-dichloroethane	9.773	63	168579	53.27	ug/L		99
29) chloroprene	9.920	53	133918	54.13	ug/L		95
31) hexane	9.589	56	59727	55.47	ug/L		99
32) vinyl acetate	9.778	86	22984	49.81	ug/L	#	84
33) ethyl tert-butyl ether	10.328	59	273764	48.10	ug/L		100
34) ethyl acetate	10.564	70	16017	50.65	ug/L	#	93
35) 2,2-dichloropropane	10.585	77	120620	48.79	ug/L		97
36) cis-1,2-dichloroethene	10.559	96	98610	51.14	ug/L		96
37) methyl acrylate	10.643	55	122695	52.27	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4496\
Data File : 4D101416.D
Acq On : 16 Apr 2020 10:15 pm
Operator : ROBERTS
Sample : ICV4496-50
Misc : MS42511,V4D4496,5,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Apr 17 16:32:18 2020
Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 16:29:00 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
38) propionitrile	10.564	54	232223	529.49	ug/L		99
39) bromochloromethane	10.869	128	49285	53.20	ug/L		99
40) tetrahydrofuran	10.942	72	20888	53.20	ug/L		96
41) chloroform	10.937	85	104771	47.75	ug/L		96
42) t-butyl formate	11.010	59	83890	39.88	ug/L		99
44) methacrylonitrile	10.790	67	54461	53.52	ug/L		96
45) 1,1,1-trichloroethane	11.241	97	131988	51.24	ug/L		99
46) cyclohexane	11.356	84	107069	52.89	ug/L		97
47) 1,1-dichloropropene	11.424	75	116949	51.21	ug/L		98
48) isobutyl alcohol	11.356	74	9307	552.32	ug/L		97
49) carbon tetrachloride	11.461	117	117072	51.55	ug/L		98
50) tert amyl alcohol	11.503	55	36261	258.70	ug/L		95
53) n-butyl alcohol	12.085	56	286910	2627.95	ug/L		99
54) 2,2,4-trimethylpentane	11.749	57	202290	54.30	ug/L		97
55) benzene	11.676	78	332870	50.46	ug/L		100
56) tert-amyl methyl ether	11.734	87	59115	47.27	ug/L		98
57) heptane	11.907	71	49140	53.98	ug/L		99
58) isopropyl acetate	11.597	87	25900	49.63	ug/L	#	84
59) 1,2-dichloroethane	11.644	62	120155	46.77	ug/L		100
60) trichloroethene	12.352	130	91632	54.64	ug/L		99
61) ethyl acrylate	12.342	55	153007	51.08	ug/L		99
62) 2-nitropropane	13.002	43	36183	51.79	ug/L		99
63) 2-chloroethyl vinyl ether	13.055	63	326712	260.26	ug/L		100
64) methyl methacrylate	12.588	100	31053	53.55	ug/L		95
65) 1,2-dichloropropane	12.578	63	86994	52.50	ug/L		99
66) dibromomethane	12.704	93	57909	50.35	ug/L		95
67) methylcyclohexane	12.604	83	115251	53.70	ug/L		98
68) bromodichloromethane	12.824	83	112260	49.93	ug/L		98
69) epichlorohydrin	13.139	57	74603	249.85	ug/L		98
70) cis-1,3-dichloropropene	13.254	75	134491	51.78	ug/L		99
71) 4-methyl-2-pentanone	13.348	58	192311	206.60	ug/L		98
72) 3-methyl-1-butanol	13.333	70	100834	1079.56	ug/L		96
75) toluene	13.621	92	186515	50.69	ug/L		99
76) trans-1,3-dichloropropene	13.752	75	125331	52.89	ug/L		99
77) ethyl methacrylate	13.778	69	121982	52.13	ug/L		98
78) 1,1,2-trichloroethane	13.946	83	66516	52.83	ug/L		98
80) 1,3-dichloropropane	14.114	76	122611	50.84	ug/L		96
81) 2-hexanone	14.119	58	197383	204.12	ug/L		99
82) butyl acetate	14.198	56	71877	51.03	ug/L		96
83) dibromochloromethane	14.355	129	92872	54.23	ug/L		99
84) 1,2-dibromoethane	14.502	107	100017	52.33	ug/L		100
85) n-butyl ether	14.895	57	308791	50.86	ug/L		99
86) chlorobenzene	14.942	112	203185	51.75	ug/L		100
87) 1,1,1,2-tetrachloroethane	14.984	131	76451	53.54	ug/L		99
88) ethylbenzene	15.005	91	329414	51.24	ug/L		99
89) m,p-xylene	15.100	106	253402	105.75	ug/L		98
90) o-xylene	15.477	106	121037	51.76	ug/L		99
91) styrene	15.477	104	208576	53.46	ug/L		99
92) bromoform	15.687	173	72935	56.48	ug/L		99
93) butyl acrylate	15.299	55	172438	51.29	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4496\
Data File : 4D101416.D
Acq On : 16 Apr 2020 10:15 pm
Operator : ROBERTS
Sample : ICV4496-50
Misc : MS42511,V4D4496,5,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Apr 17 16:32:18 2020
Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 16:29:00 2020
Response via : Initial Calibration

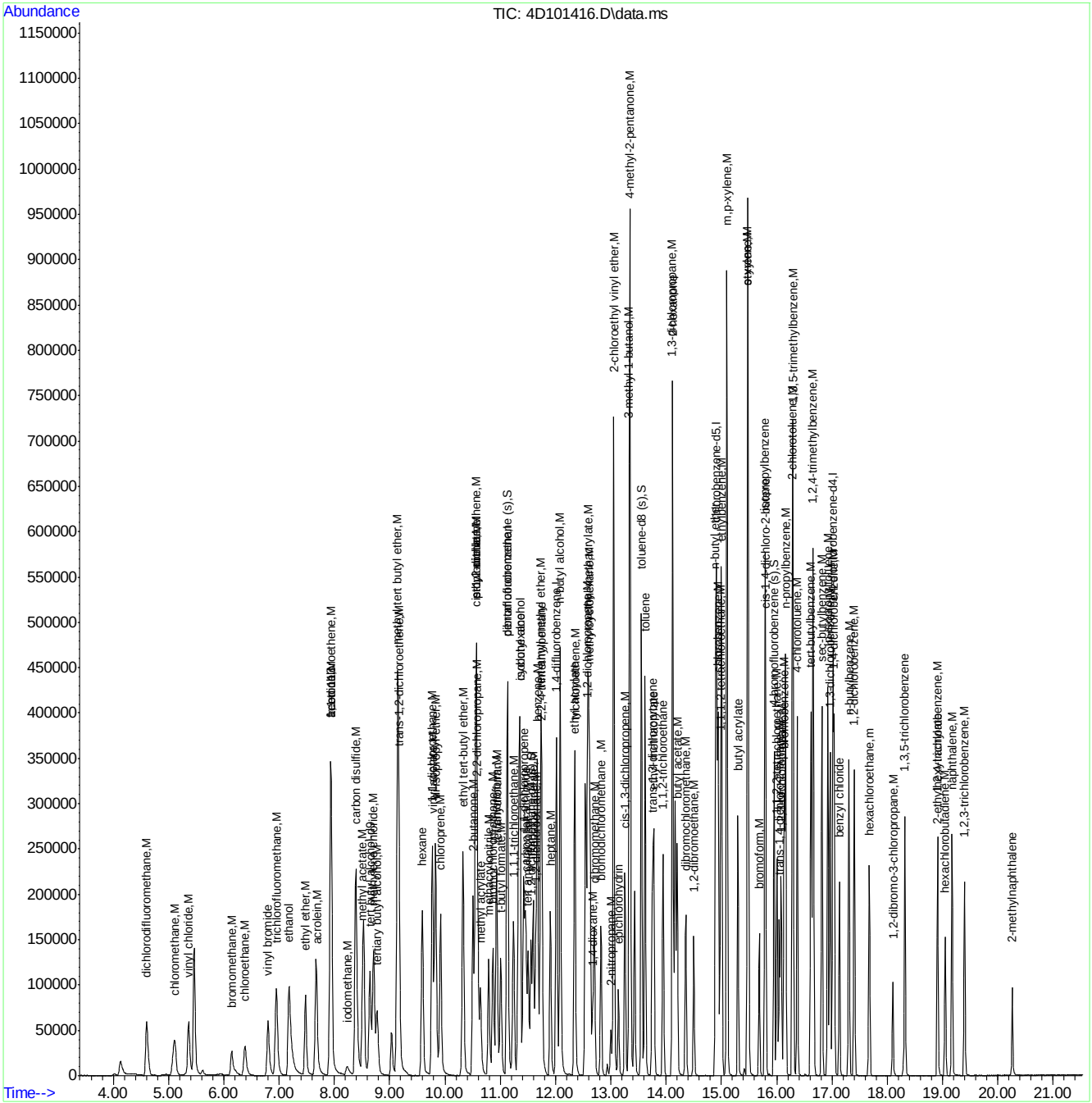
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) isopropylbenzene	15.792	105	298223	52.69	ug/L	99
95) cis-1,4-dichloro-2-butene	15.802	88	42750	51.41	ug/L	98
98) bromobenzene	16.138	156	87145	52.98	ug/L	98
99) 1,1,2,2-tetrachloroethane	16.007	83	114647	51.29	ug/L	99
100) trans-1,4-dichloro-2-b...	16.049	53	30941	52.08	ug/L	98
101) 1,2,3-trichloropropane	16.080	110	31137	50.69	ug/L	96
102) n-propylbenzene	16.164	91	344126	52.85	ug/L	99
103) 2-chlorotoluene	16.285	126	73601	52.00	ug/L	98
104) 4-chlorotoluene	16.374	91	214022	53.33	ug/L	100
105) 1,3,5-trimethylbenzene	16.295	105	235840	53.12	ug/L	99
106) tert-butylbenzene	16.620	134	43256	52.75	ug/L	96
107) 1,2,4-trimethylbenzene	16.657	105	238285	53.15	ug/L	99
108) sec-butylbenzene	16.819	105	272263	53.59	ug/L	99
109) 1,3-dichlorobenzene	16.966	146	143532	53.18	ug/L	99
110) p-isopropyltoluene	16.924	119	230329	54.68	ug/L	99
111) 1,4-dichlorobenzene	17.040	146	145373	52.97	ug/L	99
112) benzyl chloride	17.134	91	142763	42.11	ug/L	99
113) 1,2-dichlorobenzene	17.401	146	135388	53.05	ug/L	100
114) n-butylbenzene	17.307	92	102972	53.59	ug/L	99
115) 1,2-dibromo-3-chloropr...	18.104	157	31131	52.84	ug/L	97
116) 1,3,5-trichlorobenzene	18.319	180	89596	54.06	ug/L	99
117) 2-ethylhexyl acrylate	18.906	70	8827	10.44	ug/L	98
118) 1,2,4-trichlorobenzene	18.911	180	72339	52.53	ug/L	98
119) hexachlorobutadiene	19.048	225	31557	50.39	ug/L	97
120) naphthalene	19.168	128	202804	51.21	ug/L	99
121) 1,2,3-trichlorobenzene	19.399	180	66450	52.85	ug/L	100
122) hexachloroethane	17.679	201	39915	54.11	ug/L	98
123) 2-methylnaphthalene	20.264	142	48344	30.68	ug/L	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4496\
Data File : 4D101416.D
Acq On : 16 Apr 2020 10:15 pm
Operator : ROBERTS
Sample : ICV4496-50
Misc : MS42511,V4D4496,5,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Apr 17 16:32:18 2020
Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 16:29:00 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4496\
Data File : 4D101417.D
Acq On : 16 Apr 2020 10:44 pm
Operator : ROBERTS
Sample : ICV4496-50
Misc : MS42511,V4D4496,5,,,,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Apr 17 16:32:47 2020
Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 16:29:00 2020
Response via : Initial Calibration

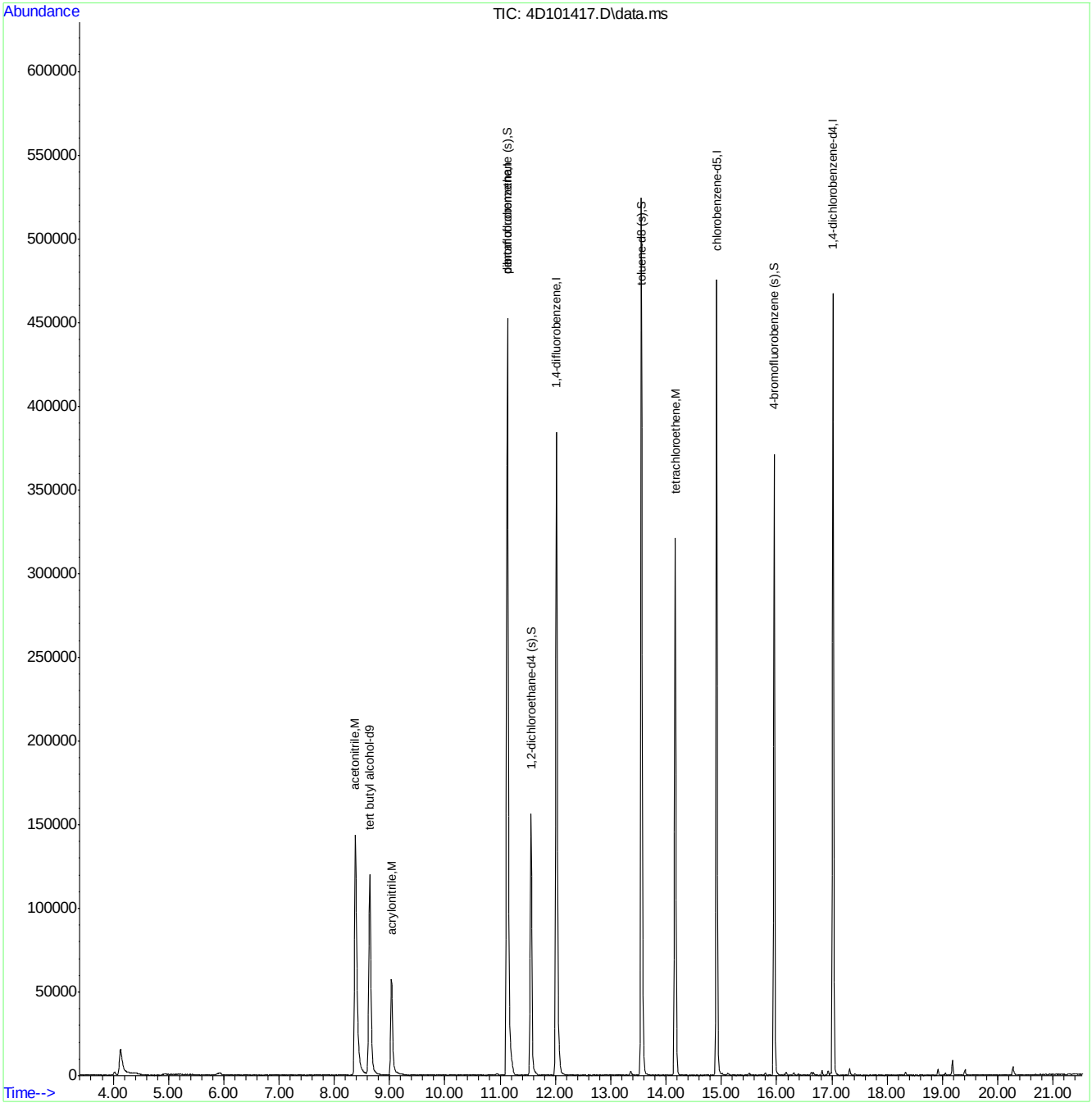
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	8.640	65	210648	500.00	ug/L	0.00
5) pentafluorobenzene	11.131	168	254295	50.00	ug/L	0.00
51) 1,4-difluorobenzene	12.017	114	365391	50.00	ug/L	0.00
73) chlorobenzene-d5	14.916	117	274539	50.00	ug/L	0.00
96) 1,4-dichlorobenzene-d4	17.019	152	117675	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	11.131	113	119837	49.08	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 98.16%			
52) 1,2-dichloroethane-d4 (s)	11.555	65	121411	47.72	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 95.44%			
74) toluene-d8 (s)	13.553	98	371337	50.10	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.20%			
97) 4-bromofluorobenzene (s)	15.954	95	117257	49.39	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 98.78%			
Target Compounds						Qvalue
19) acetonitrile	8.378	41	247268	540.96	ug/L	100
30) acrylonitrile	9.034	53	60237	59.01	ug/L	97
79) tetrachloroethene	14.166	164	79553	54.04	ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\V4D4496\
Data File : 4D101417.D
Acq On : 16 Apr 2020 10:44 pm
Operator : ROBERTS
Sample : ICV4496-50
Misc : MS42511,V4D4496,5,,,,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Apr 17 16:32:47 2020
Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 16:29:00 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\janellac\07-28-2020\v4d4597\
Data File : 4d103625.d
Acq On : 27 Jul 2020 8:27 am
Operator : mariceld
Sample : CC4496-20 Inst : MS4D
Misc : MS44684,V4D4597,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Results File: M4D4496.RES
Quant Time: Jul 27 22:07:02 2020
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 16:28:05 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	8.640	65	196595	500.00	ug/L	0.00
5) pentafluorobenzene	11.126	168	241013	50.00	ug/L	0.00
51) 1,4-difluorobenzene	12.017	114	339426	50.00	ug/L	0.00
73) chlorobenzene-d5	14.911	117	258033	50.00	ug/L	0.00
96) 1,4-dichlorobenzene-d4	17.019	152	116909	50.00	ug/L	0.00
System Monitoring Compounds						
43) dibromofluoromethane (s)	11.126	113	116626	50.40	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.80%			
52) 1,2-dichloroethane-d4 (s)	11.550	65	106544	45.08	ug/L	0.00
Spiked Amount 50.000	Range 81 - 124		Recovery = 90.16%			
74) toluene-d8 (s)	13.553	98	346189	49.69	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.38%			
97) 4-bromofluorobenzene (s)	15.949	95	111978	47.47	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 94.94%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	8.772	59	44782	101.08	ug/L	98
3) ethanol	7.178	45	94619	2067.39	ug/L	100
4) 1,4-dioxane	12.672	88	20468	564.51	ug/L	95
7) dichlorodifluoromethane	4.603	85	42261	20.78	ug/L	98
8) chloromethane	5.112	50	33586	16.81	ug/L	99
9) vinyl chloride	5.364	62	38031	18.88	ug/L	98
10) bromomethane	6.150	94	7318	12.52	ug/L	95
11) chloroethane	6.381	64	24759	20.08	ug/L	97
12) trichlorofluoromethane	6.952	101	53937	18.79	ug/L	98
13) vinyl bromide	6.800	106	18531	13.59	ug/L	96
14) ethyl ether	7.477	74	20825	19.91	ug/L	91
15) acrolein	7.697	56	7113	15.92	ug/L	96
16) freon 113	7.933	151	26748	21.14	ug/L	96
17) 1,1-dichloroethene	7.943	96	33056	19.73	ug/L	85
18) acetone	7.938	43	62034	69.76	ug/L	93
19) acetonitrile	8.384	41	78189	180.48	ug/L	98
20) iodomethane	8.221	142	7965	7.87	ug/L	90
21) carbon disulfide	8.389	76	81266	18.22	ug/L	98
22) methylene chloride	8.703	84	37985	20.17	ug/L	95
23) methyl acetate	8.509	43	42652	18.44	ug/L	97
24) methyl tert butyl ether	9.144	73	108430	19.03	ug/L	100
25) trans-1,2-dichloroethene	9.170	96	35821	20.01	ug/L	92
26) di-isopropyl ether	9.831	45	115981	19.01	ug/L	96
27) 2-butanone	10.507	72	29278	77.20	ug/L #	86
28) 1,1-dichloroethane	9.768	63	63911	19.33	ug/L	97
29) chloroprene	9.920	53	45572	17.63	ug/L	90
30) acrylonitrile	9.034	53	18014	18.62	ug/L	98
31) hexane	9.589	56	22890	20.35	ug/L	97
32) vinyl acetate	9.778	86	9581	19.88	ug/L #	59
33) ethyl tert-butyl ether	10.323	59	71225	11.98	ug/L	98
34) ethyl acetate	10.565	70	6584	19.93	ug/L #	72
35) 2,2-dichloropropane	10.586	77	51610	19.98	ug/L	95
36) cis-1,2-dichloroethene	10.554	96	42399	21.05	ug/L	87
37) methyl acrylate	10.643	55	46889	19.12	ug/L	98
38) propionitrile	10.559	54	87194	190.31	ug/L	99
39) bromochloromethane	10.864	128	21851	22.58	ug/L	92
40) tetrahydrofuran	10.942	72	8219	20.04	ug/L #	84
41) chloroform	10.932	85	42631	18.60	ug/L	95
42) t-butyl formate	11.010	59	26343	11.99	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\janellac\07-28-2020\v4d4597\
Data File : 4d103625.d
Acq On : 27 Jul 2020 8:27 am
Operator : mariceld
Sample : CC4496-20 Inst : MS4D
Misc : MS44684,V4D4597,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Results File: M4D4496.RES
Quant Time: Jul 27 22:07:02 2020
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 16:28:05 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) methacrylonitrile	10.790	67	21363	20.10	ug/L		90
45) 1,1,1-trichloroethane	11.236	97	51753	19.23	ug/L		97
46) cyclohexane	11.351	84	45802	21.66	ug/L	#	91
47) 1,1-dichloropropene	11.425	75	45032	18.88	ug/L		96
48) isobutyl alcohol	11.356	74	3771	214.22	ug/L	#	68
49) carbon tetrachloride	11.456	117	46206	19.47	ug/L		96
50) tert amyl alcohol	11.503	55	13689	93.49	ug/L		94
53) n-butyl alcohol	12.080	56	118916	1066.40	ug/L		95
54) 2,2,4-trimethylpentane	11.750	57	21322	5.60	ug/L	#	75
55) benzene	11.671	78	131980	19.59	ug/L		99
56) tert-amyl methyl ether	11.734	87	17424	13.64	ug/L		99
57) heptane	11.907	71	20739	22.30	ug/L		98
58) isopropyl acetate	11.598	87	11501	21.58	ug/L	#	69
59) 1,2-dichloroethane	11.639	62	45560	17.36	ug/L		97
60) trichloroethene	12.353	130	37434	21.85	ug/L		96
61) ethyl acrylate	12.342	55	57888	18.92	ug/L		97
62) 2-nitropropane	13.003	43	12229	17.14	ug/L		94
63) 2-chloroethyl vinyl ether	13.050	63	88184	68.78	ug/L		98
64) methyl methacrylate	12.588	100	12474	21.06	ug/L	#	81
65) 1,2-dichloropropane	12.573	63	34729	20.52	ug/L		99
66) dibromomethane	12.699	93	24975	21.26	ug/L		95
67) methylcyclohexane	12.604	83	45719	20.86	ug/L		94
68) bromodichloromethane	12.819	83	47145	20.53	ug/L		99
69) epichlorohydrin	13.139	57	22829	74.85	ug/L		92
70) cis-1,3-dichloropropene	13.254	75	55073	20.76	ug/L		92
71) 4-methyl-2-pentanone	13.349	58	78506	82.57	ug/L		92
72) 3-methyl-1-butanol	13.333	70	42644	447.00	ug/L		94
75) toluene	13.616	92	73911	19.75	ug/L		100
76) trans-1,3-dichloropropene	13.752	75	49863	20.69	ug/L		98
77) ethyl methacrylate	13.779	69	47247	19.86	ug/L		93
78) 1,1,2-trichloroethane	13.946	83	27552	21.52	ug/L		96
79) tetrachloroethene	14.161	164	28562	20.64	ug/L		97
80) 1,3-dichloropropane	14.114	76	49626	20.24	ug/L		89
81) 2-hexanone	14.114	58	79609	80.96	ug/L		98
82) butyl acetate	14.198	56	29272	20.44	ug/L		91
83) dibromochloromethane	14.355	129	39442	22.65	ug/L		99
84) 1,2-dibromoethane	14.502	107	50124	25.79	ug/L		100
85) n-butyl ether	14.895	57	107948	17.49	ug/L		97
86) chlorobenzene	14.943	112	82011	20.54	ug/L		95
87) 1,1,1,2-tetrachloroethane	14.985	131	32012	22.05	ug/L		98
88) ethylbenzene	15.006	91	125715	19.23	ug/L		99
89) m,p-xylene	15.100	106	99697	40.92	ug/L		96
90) o-xylene	15.477	106	48201	20.27	ug/L		92
91) styrene	15.472	104	81886	20.64	ug/L		97
92) bromoform	15.682	173	29624	22.56	ug/L		99
93) butyl acrylate	15.299	55	65592	19.19	ug/L		97
94) isopropylbenzene	15.792	105	112171	19.49	ug/L		99
95) cis-1,4-dichloro-2-butene	15.802	88	14673	17.35	ug/L		96
98) bromobenzene	16.133	156	35538	20.28	ug/L		96
99) 1,1,2,2-tetrachloroethane	16.007	83	47145	19.80	ug/L		99
100) trans-1,4-dichloro-2-b...	16.049	53	10414	16.45	ug/L		88
101) 1,2,3-trichloropropane	16.080	110	12677	19.37	ug/L		98
102) n-propylbenzene	16.159	91	128775	18.57	ug/L		99
103) 2-chlorotoluene	16.285	126	30168	20.01	ug/L		88
104) 4-chlorotoluene	16.374	91	81181	18.99	ug/L		98
105) 1,3,5-trimethylbenzene	16.295	105	89886	19.01	ug/L		100
106) tert-butylbenzene	16.620	134	17138	19.62	ug/L	#	79

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\janellac\07-28-2020\v4d4597\
Data File : 4d103625.d
Acq On : 27 Jul 2020 8:27 am
Operator : mariceld
Sample : CC4496-20 Inst : MS4D
Misc : MS44684,V4D4597,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Results File: M4D4496.RES
Quant Time: Jul 27 22:07:02 2020
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 16:28:05 2020
Response via : Initial Calibration

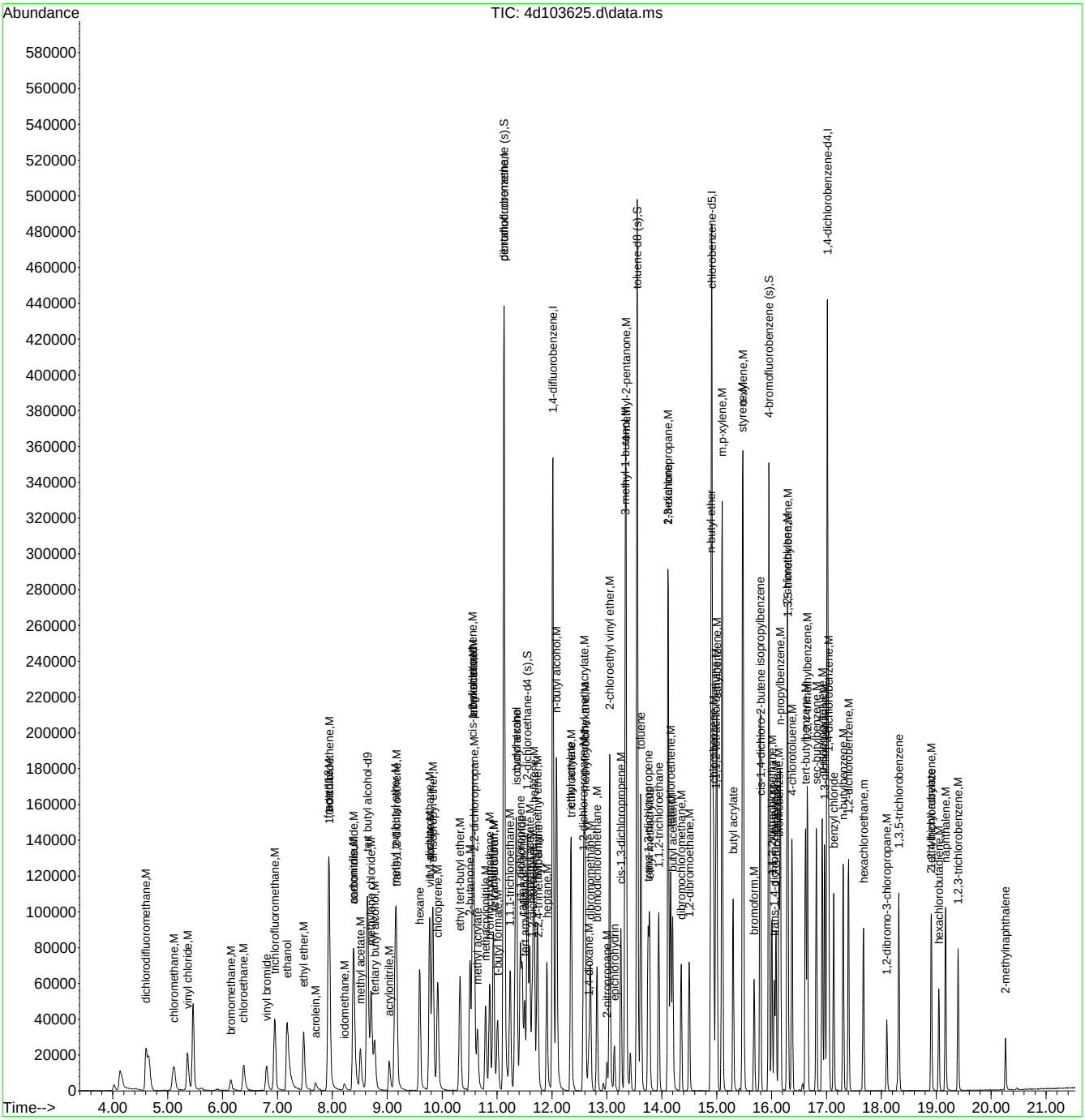
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
107) 1,2,4-trimethylbenzene	16.652	105	90040	18.85	ug/L	98
108) sec-butylbenzene	16.814	105	101180	18.70	ug/L	99
109) 1,3-dichlorobenzene	16.966	146	57003	19.83	ug/L	97
110) p-isopropyltoluene	16.924	119	85500	19.05	ug/L	97
111) 1,4-dichlorobenzene	17.040	146	57843	19.79	ug/L	99
112) benzyl chloride	17.134	91	79259	21.95	ug/L	96
113) 1,2-dichlorobenzene	17.402	146	54099	19.90	ug/L	97
114) n-butylbenzene	17.302	92	39729	19.41	ug/L	96
115) 1,2-dibromo-3-chloropr...	18.099	157	12640	20.14	ug/L	94
116) 1,3,5-trichlorobenzene	18.319	180	35922	20.35	ug/L	99
117) 2-ethylhexyl acrylate	18.906	70	3101	3.98	ug/L	92
118) 1,2,4-trichlorobenzene	18.912	180	29307	19.98	ug/L	98
119) hexachlorobutadiene	19.048	225	12036	18.04	ug/L	98
120) naphthalene	19.168	128	80096	18.99	ug/L	99
121) 1,2,3-trichlorobenzene	19.399	180	25956	19.38	ug/L	97
122) hexachloroethane	17.674	201	15644	19.91	ug/L	99
123) 2-methylnaphthalene	20.259	142	15609	9.30	ug/L	97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\janellac\07-28-2020\v4d4597\
Data File : 4d103625.d
Acq On : 27 Jul 2020 8:27 am
Operator : mariceld
Sample : CC4496-20 Inst : MS4D
Misc : MS44684,V4D4597,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M4D4496.M
Quant Results File: M4D4496.RES
Quant Time: Jul 27 22:07:02 2020
Quant Title : SW846 8260C/ EPA 624, DB-624 60 m x 0.25 mm x 1.4 um
QLast Update : Fri Apr 17 16:28:05 2020
Response via : Initial Calibration



GCMS Volatile Run Log

Standard / Reagents	Lot #					
Standards	ABK: V020-2701-136.40	EC: V020-2703-13.9	Acrolein: V020-2703-9.25	EXT Chlorodifluoromethane	Column	ZB-624(60mx0.25mmx1.4um)
Standard Concentration	100-10,000 ppm	100 ppm	100ppm	100ppm	Method	V8260C
Expiration Date	7/24/2020	7/17/2020	8/6/2020	7/30/2020	Init Calib Date	7/14/2020
Standards	Ext. ABK: V020-2703-6.4	Ext. EC: V020-2703-17.1	Ext. Acrolein: V020-2703-7.2	Ext. PA: V020-2703-8.1		
Standard Concentration	100-10,000 ppm	100 ppm	100 ppm	100-1,000 ppm	Analysis Date	7/14/2020
Expiration Date	8/6/2020	7/21/2020	8/6/2020	8/6/2020	Sequence loaded by	Brittany Klimek
Internal Surrogate	V020-2703-15				Data processed by	Bridget Kelly
Internal Surrogate Concentration	250/2,500 ppm				Batch ID	V2E8157
Expiration Date	8/13/2020				Matrix	AQ
					Approved By:	KANYAV
			Initial Calibration Method	M2E8157	Approved Date:	7/16/2020 3:01:19 AM

Data File		Sample ID	Bot #	Dil	Workgroup #	Test	Purge Vol (ml)	CL	pH	ALS #	Status	Comments
2E	162814	IB		NA			5			1	ok	
2E	162815	BFB		NA			5			2	ok	7/14/2020; 5:48PM.
2E	162816	IC8157-0.2		NA		IC 8206 AQ	5			3	ok	0.2uL ABK, EC, Acrolein/100mL DI H2O.
2E	162817	IC8157-0.5		NA		IC 8206 AQ	5			4	ok	0.5uL ABK, EC, Acrolein/100mL DI H2O.
2E	162818	IC8157-1		NA		IC 8206 AQ	5			5	ok	1uL ABK, EC, Acrolein/100mL DI H2O.
2E	162819	IC8157-2		NA		IC 8206 AQ	5			6	ok	2uL ABK, EC, Acrolein/100mL DI H2O.
2E	162820	IC8157-4		NA		IC 8206 AQ	5			7	ok	4uL ABK, EC, Acrolein/100mL DI H2O.
2E	162821	IC8157-8		NA		IC 8206 AQ	5			8	ok	8uL ABK, EC, Acrolein/100mL DI H2O.
2E	162822	IC8157-20		NA		IC 8206 AQ	5			9	ok	20uL ABK, EC, Acrolein/100mL DI H2O.
2E	162823	ICC8157-50		NA		ICC 8206 AQ	5			10	ok	50uL ABK, EC, Acrolein/100mL DI H2O.
2E	162824	IC8157-100		NA		IC 8206 AQ	5			11	ok	100uL ABK, EC, Acrolein/100mL DI H2O.

Data File		Sample ID	Bot #	Dil	Workgroup #	Test	Purge Vol (ml)	CL	pH	ALS #	Status	Comments
2E	162825	IC8157-200		NA		IC 8206 AQ	5			12	ok	200uL ABK, EC, Acrolein/100mL DI H2O.
2E	162826	IB		NA			5			13	ok	
2E	162827	IB		NA			5			14	ok	
2E	162828	ICV8157-50		NA		IC 8206 AQ	5			15	ok	50uL Ext. ABK, EC, Acrolein/100mL DI H2O.
2E	162829	ICV8157-50		NA		IC 8206 AQ	5			16	ok	50uL Ext. PA/100mL DI H2O.
2E	162830	IB		NA			5			17	ok	
2E	162832	IB		NA			5			1	ok	*Analyst skipped 2E162831
2E	162833	BFB2		NA			5			2	ok	
2E	162834	ICV8157-50		NA			5			3	ok	50 uL EXT Chlorodifluoromethane / 100 mL

GCMS Volatile Run Log

Standard / Reagents	Lot #					
Standards	ABK: V020-2701-136.61	EC: V020-2703-25.9	Acrolein: V020-2703-09.23		Column	ZB-624(60mx0.25mmx1.4um)
Standard Concentration	100ppm-10,000ppm	100ppm	100ppm		Method	V8260C
Expiration Date	07/24/2020	07/23/2020	08/06/2020		Init Calib Date	07/14/2020
Internal Surrogate	V020-2703-15					
Internal Surrogate Concentration	250/2,500 ppm				Analysis Date	7/20/2020
Expiration Date	08/13/2020				Sequence loaded by	Krizhka Cuenta
					Data processed by	Lotusa/kristelv
					Batch ID	V2E8165
					Matrix	AQ
Rough reviewed by	Krizhka				Approved By:	MOHUI
pH Paper Lot# (wide range):	221419	Exp. 8/1/2022	Initial Calibration Method	M2E8157	Approved Date:	7/21/2020 1:06:39 PM

Data File		Sample ID	Bot #	Dil	Workgroup #	Test	Purge Vol (ml)	CL	pH	ALS #	Status	Comments
2E	162966	IB		NA			5			1	OK	
2E	162967	CC8157-20		NA			5			2	ng	20uL ABK, EC, Acrolein/100mL (failed low)
2E	162968	IB		NA			5			3	OK	
2E	162969	BFB/CC8157-20		NA			5			4	OK/OK	20uL ABK, EC, Acrolein/100mL (11:05 am)
2E	162970	BS		NA			5			5	OK	25uL ABK, EC, Acrolein/50mL
2E	162971	BSD		NA			5			6	OK	25uL ABK, EC, Acrolein/50mL
2E	162972	IB		NA			5			7	OK	
2E	162973	MB		NA			5			8	OK	
2E	162974	JD10105-3	2	NA	MS44467	V8260PPTCL42+, MPXYL, NAP, OXYL,	5		1	9	OK	
2E	162975	JD9724-3	13	NA	MS44329	V8260TCL20	5		1	10	OK	
2E	162976	JD10105-2	2	NA	MS44467	V8260PPTCL42+, MPXYL, NAP, OXYL,	5		1	11	OK	

Data File		Sample ID	Bot #	Dil	Workgroup #	Test	Purge Vol (ml)	CL	pH	ALS #	Status	Comments
2E	162977	JD9724-4	13	20X	MS44329	V8260TCL20	2.5/50		5	12	OK	cfi; +2E162863
2E	162978	JD10196-7	3	100X	MS44511	V8260MCP	0.50/50		1	13	OK	l/d 10x
2E	162979	JD10196-7	3	10X	MS44511	V8260MCP	5/50		1	14	OK	+2E162978
2E	162980	JD10196-7MS	3	10X	MS44511	V8260MCP	5/50		1	15	OK	25uL ABK, EC, Acrolein/50mL
2E	162981	JD10196-7MSD	3	10X	MS44511	V8260MCP	5/50		1	16	OK	25uL ABK, EC, Acrolein/50mL
2E	162982	IB		NA			5			17	OK	
2E	162983	JD10241-10	1	NA	MS44522	V8260STD	5		1	18	OK	
2E	162984	JD10241-11	1	NA	MS44522	V8260STD	5		1	19	OK	
2E	162985	JD10241-1	1	NA	MS44522	V8260STD	5		1	20	OK	
2E	162986	JD10241-3	1	NA	MS44522	V8260STD	5		1	21	OK	
2E	162987	JD10241-4	1	NA	MS44522	V8260STD	5		1	22	OK	
2E	162988	JD10241-6	1	NA	MS44522	V8260STD	5		1	23	rr	f/d 10x
2E	162989	JD10241-9	1	NA	MS44522	V8260STD	5		1	24	OK	
2E	162990	JD10241-12	1	NA	MS44522	V8260STD	5		1	25	OK	
2E	162991	JD10241-5	1	10X	MS44522	V8260STD	5/50		1	26	OK	
2E	162992	JD10241-7	1	20X	MS44522	V8260STD	2.5/50		1	27	RR	10:49 pm; l/d 1x
2E	162993	IB		NA			5			28	OK	

GCMS Volatile Run Log

Standard / Reagents	Lot #				Column	DB-624(60mx0.25mmx1.4um)
Standards	ABK:V020-2701-04.55	EC:V020-2701-23.8	Acrolein:V020-2701-12.21		Method	V8260C
Standard Concentrations	100 ppm-10,000 ppm	100 ppm	100 ppm		Init Calib Date	4/16/2020
Expiration Date	4/30/2020	4/21/2020	5/2/2020			
Internal Surrogate	V020-2701-27					
Internal Surrogate Concentration	50/500ppm				Analysis Date	4/16/2020
Expiration Date	5/14/2020				Sequence loaded by	Robert Szot
					Data processed by	Robert Szot
					Batch ID	V4D4496
Initial Calibration Method	M4D4496				Matrix	AQ
pH Paper Lot# (Wide range)					Approved By:	KANYAV
Expiration Date	8/1/2022				Approved Date:	4/17/2020 9:06:11 PM

Data File		Sample ID	Bot #	Dil	Workgroup #	Test	Purge Vol (ml)	CL	pH	ALS #	Status	Comments
4D	101403	BFB		NA			5			1	ok	3:37 pm
4D	101404	IC4496-0.2		NA		8260 initial calibration	5			2	ok	1 uL ABK, EC, Acrolein / 500 mL DI H2O
4D	101405	IC4496-0.5		NA		8260 initial calibration	5			3	ok	2.5 uL ABK, EC, Acrolein / 500 mL DI H2O
4D	101406	IC4496-1		NA		8260 initial calibration	5			4	ok	5 uL ABK, EC, Acrolein / 500 mL DI H2O
4D	101407	IC4496-2		NA		8260 initial calibration	5			5	ok	10 uL ABK, EC, Acrolein / 500 mL DI H2O
4D	101408	IC4496-4		NA		8260 initial calibration	5			6	ok	20 uL ABK, EC, Acrolein / 500 mL DI H2O
4D	101409	IC4496-8		NA		8260 initial calibration	5			7	ok	40 uL ABK, EC, Acrolein / 500 mL DI H2O
4D	101410	IC4496-20		NA		8260 initial calibration	5			8	ok	40 uL ABK, EC, Acrolein / 200 mL DI H2O
4D	101411	ICC4496-50		NA		8260 initial calibration	5			9	ok	100 uL ABK, EC, Acrolein / 200 mL DI H2O
4D	101412	IC4496-100		NA		8260 initial calibration	5			10	ok	200 uL ABK, EC, Acrolein / 200 mL DI H2O
4D	101413	IC4496-200		NA		8260 initial calibration	5			11	ok	400 uL ABK, EC, Acrolein / 200 mL DI H2O

Data File		Sample ID	Bot #	Dil	Workgroup #	Test	Purge Vol (ml)	CL	pH	ALS #	Status	Comments
4D	101414	IB		NA			5			12	ok	
4D	101415	IB		NA			5			13	ok	
4D	101416	ICV4496-50		NA		8260 initial calibration	5			14	ok	100 uL Ext ABK, Ext EC, Ext Acrolein / 200 mL DI H2O
4D	101417	ICV4496-50		NA		8260 initial calibration	5			15	ok	100 uL Ext PA / 200 mL DI H2O

GCMS Volatile Run Log

Standard / Reagents	Lot #					
Standards	ABK: V020-2703-35.10	EC: V020-2703-31.5	Acrolein: V020-2703-09.36		Column	DB-624(60mx0.25mmx1.4um)
Standard Concentration	100ppm-10,000ppm	100ppm	100ppm		Method	V8260C
Expiration Date	08/24/2020	07/30/2020	08/06/2020		Init Calib Date	04/16/2020
Internal Surrogate	V020-2703-16					
Internal Surrogate Concentration	50/500ppm				Analysis Date	7/27/2020
Expiration Date	8/13/2020				Sequence loaded by	Krizhka Cuenta
					Data processed by	janellec
					Batch ID	V4D4597
					Matrix	AQ
Rough reviewed by	Krizhka				Approved By:	MEI
pH Paper Lot# (wide range):	221419	Exp. 8/1/2022	Initial Calibration Method	M4D4496	Approved Date:	7/28/2020 11:49:10 AM

Data File		Sample ID	Bot #	Dil	Workgroup #	Test	Purge Vol (ml)	CL	pH	ALS #	Status	Comments
4D	103624	IB		NA			5			1	OK	
4D	103625	BFB/CC4496-20		NA			5			2	OK/OK	20uL ABK, EC, Acrolein/100mL (8:27 am) #10 low, #84 high
4D	103626	CC4496-2		NA			5			3	OK	2uL ABK, EC, Acrolein/100mL
4D	103627	BS		NA			5			4	OK	50uL ABK, EC, Acrolein/100mL #84 high
4D	103628	IB		NA			5			5	OK	
4D	103629	MB		NA			5			6	OK	
4D	103630	JD10241-2	2	NA	MS44522	V8260STD	5		1	7	OK	
4D	103631	JD10241-7	2	NA	MS44522	V8260STD	5		1	8	OK	+2E162992
4D	103632	JD10241-8	2	NA	MS44522	V8260STD	5		1	9	OK	
4D	103633	JD10241-6	2	10X	MS44522	V8260STD	5/50		1	10	OK	+2E162988
4D	103634	JD10484-10	6	NA	MS44632	V8260NJTCL20+	5		1	11	OK	+2E163104

Data File		Sample ID	Bot #	Dil	Workgroup #	Test	Purge Vol (ml)	CL	pH	ALS #	Status	Comments
4D	103635	JD10484-12	6	NA	MS44632	V8260NJTCL20+	5		1	12	OK	
4D	103636	JD10484-8	6	20X	MS44632	V8260NJTCL20+	2.5/50		1	13	OK	+2E163102
4D	103637	JD10484-7	6	5X	MS44632	V8260NJTCL20+	10/50		1	14	OK	+2E163094
4D	103638	JD10484-9	6	5X	MS44632	V8260NJTCL20+	10/50		1	15	OK	+2E163103
4D	103639	JD10484-11	6	2X	MS44632	V8260NJTCL20+	25/50		1	16	OK	+2E163105
4D	103640	JD10241-2MS	3	NA	MS44522	V8260STD	5		1	17	OK	20uL ABK, EC, Acrolein/40mL sample
4D	103641	JD10241-2MSD	4	NA	MS44522	V8260STD	5		1	18	OK	20uL ABK, EC, Acrolein/40mL sample
4D	103642	IB		NA			5			19	OK	
4D	103643	JD10608-1	1	NA	MS44703	V8260TCL20+	5		1	20	OK	
4D	103644	JD10608-7	1	NA	MS44703	V8260TCL20+	5		1	21	OK	
4D	103645	JD10608-2	1	NA	MS44703	V8260TCL20+	5		1	22	OK	
4D	103646	JD10608-3	1	NA	MS44703	V8260TCL20+	5		1	23	OK	
4D	103647	JD10608-4	1	100X	MS44703	V8260TCL20+	0.50/50		1	24	rr	l/d 25x (to push)
4D	103648	JD10608-5	1	NA	MS44703	V8260TCL20+	5		5	25	OK	8:05PM
4D	103649	JD10608-6	1	NA	MS44703	V8260TCL20+	5		1	26	RR	Out of BFB time, RR 1X. (8:35PM)
4D	103650	IB		NA			5			27	OK	
4D	103651	IB		NA			5			28	OK	

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report



Technical Report for

Ensafe, Inc

Former Carlysle Compressor, Syracuse, NY

Carrier Corporation 888814574 Phase:006

SGS Job Number: JD10244

Sampling Date: 07/15/20

Report to:

Ensafe, Inc
5724 Summer Trees Drive
Memphis, TN 38134
MHeflin@Ensafe.com; Nelson.Wong@Carrier.UTC.com;
TCantwell@Ensafe.com; SGoodnight@Ensafe.com;
ATTN: May Heflin

Total number of pages in report: **149**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Caitlin Brice, M.S.
General Manager

Client Service contact: Beth Wasserman 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TX, UT, VA, WV, DoD ELAP (ANAB L2248)

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how we can serve you better at:
EHS.US.CustomerCare@sgs.com

August 05, 2020

Ms. May Heflin
Ensafe, Inc.
5724 Summer Trees Drive
Memphis, TN 38134

RE: SGS – Dayton, Job # JD10244 – Reissues

Dear Ms. Heflin,

The final report for SGS jobs number JD10244 has been edited to reflect corrections to the final results. These edits have been incorporated into the revised report which is attached.

Specifically, this report has been upgraded to full deliverable report to including all associated QCs raw data. The attached revised report incorporates these revisions.

SGS apologizes for this occurrence and for any inconvenience this situation may have caused. Please contact me if I can be of further assistance in this matter.

Sincerely,

Report Department

SGS North America Inc.



CONTINUOUS SERVICE IMPROVEMENT!

Our goal is to continuously improve our service to you. Please share your ideas about how we can serve you better at EHS.US.CustomerCare@sgs.com. Your feedback is appreciated!

August 25, 2020

Ms. May Heflin
Ensafe, Inc
5724 Summer Trees Drive
Memphis, TN 38134

RE: SGS – Dayton, Job # JD10244– Reissues #2

Dear Ms. Heflin,

The final report for SGS jobs number JD10244 has been edited to reflect corrections to the final results. These edits have been incorporated into the revised report which is attached.

Specifically, the sample's ID of JD10244-3 has been revised to reflect matching chain of custody. The attached revised report incorporates these revisions.

SGS apologizes for this occurrence and for any inconvenience this situation may have caused. Please contact me if I can be of further assistance in this matter.

Sincerely,

Report Department

SGS North America Inc.



CONTINUOUS SERVICE IMPROVEMENT!

Our goal is to continuously improve our service to you. Please share your ideas about how we can serve you better at EHS.US.CustomerCare@sgs.com. Your feedback is appreciated!

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SGS North America Inc.

Sample Summary

Ensafe, Inc

Job No: JD10244

Former Carlysle Compressor, Syracuse, NY
Project No: Carrier Corporation 888814574 Phase:006

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
This report contains results reported as ND = Not detected. The following applies:							
Organics ND = Not detected above the MDL							
JD10244-1	07/15/20	10:40	MG	07/16/20	AQ	Ground Water	CC1MW01G0720
JD10244-1R	07/15/20	10:40	MG	07/16/20	AQ	Ground Water	CC1MW01G0720
JD10244-2	07/15/20	12:35	MG	07/16/20	AQ	Ground Water	CC1MW106G0720
JD10244-3	07/15/20	13:00	MG	07/16/20	AQ	Ground Water	CC1MW106H0720
JD10244-4	07/15/20	11:30	MG	07/16/20	AQ	Equipment Blank	CC1EB01E0720
JD10244-5	07/15/20	13:10	MG	07/16/20	AQ	Field Blank Water	CC1FB02F0720

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Ensafe, Inc	**Job No**	JD10244
Site:	Former Carlysle Compressor, Syracuse, NY	**Report Date**	8/5/2020 1:15:19 PM

On 07/16/2020, 4 Sample(s), 0 Trip Blank(s) and 1 Field Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of 3.6 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JD10244 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

MS Semi-volatiles By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP28540A

- All samples were extracted within the recommended method holding time.
- Sample(s) JD10207-1MS, JD10207-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS North America Inc indicated via signature on the report cover

Summary of Hits

Job Number: JD10244
Account: Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY
Collected: 07/15/20

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD10244-1	**CC1MW01G0720**					
1,4-Dioxane		0.106	0.10	0.050	ug/l	SW846 8270D BY SIM
JD10244-2	**CC1MW106G0720**					
1,4-Dioxane		0.914	0.10	0.050	ug/l	SW846 8270D BY SIM
JD10244-3	**CC1MW106H0720**					
1,4-Dioxane		0.951	0.10	0.050	ug/l	SW846 8270D BY SIM
JD10244-4	**CC1EB01E0720**					
No hits reported in this sample.						
JD10244-5	**CC1FB02F0720**					
No hits reported in this sample.						

Sample Results

Report of Analysis

SGS North America Inc.

Report of Analysis

Client Sample ID: CC1MW01G0720
Lab Sample ID: JD10244-1
Matrix: AQ - Ground Water
Method: SW846 8270D BY SIM SW846 3510C
Project: Former Carlysle Compressor, Syracuse, NY

Date Sampled: 07/15/20
Date Received: 07/16/20
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M94087.D	1	07/23/20 08:35	CS	07/22/20 08:00	OP28540A	E4M4348
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	0.106	0.10	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	75%		29-124%
321-60-8	2-Fluorobiphenyl	75%		23-122%
1718-51-0	Terphenyl-d14	83%		22-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	CC1MW106G0720		
Lab Sample ID:	JD10244-2	**Date Sampled:**	07/15/20
Matrix:	AQ - Ground Water	**Date Received:**	07/16/20
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	Former Carlysle Compressor, Syracuse, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M94083.D	1	07/23/20 07:10	CS	07/22/20 08:00	OP28540A	E4M4348
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	0.914	0.10	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	65%		29-124%
321-60-8	2-Fluorobiphenyl	68%		23-122%
1718-51-0	Terphenyl-d14	74%		22-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	CC1MW106H0720		
Lab Sample ID:	JD10244-3	**Date Sampled:**	07/15/20
Matrix:	AQ - Ground Water	**Date Received:**	07/16/20
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	Former Carlysle Compressor, Syracuse, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M94084.D	1	07/23/20 07:32	CS	07/22/20 08:00	OP28540A	E4M4348
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	0.951	0.10	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	68%		29-124%
321-60-8	2-Fluorobiphenyl	70%		23-122%
1718-51-0	Terphenyl-d14	80%		22-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	CC1EB01E0720		
Lab Sample ID:	JD10244-4	**Date Sampled:**	07/15/20
Matrix:	AQ - Equipment Blank	**Date Received:**	07/16/20
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	Former Carlysle Compressor, Syracuse, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M94085.D	1	07/23/20 07:52	CS	07/22/20 08:00	OP28540A	E4M4348
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	0.10	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	71%		29-124%
321-60-8	2-Fluorobiphenyl	70%		23-122%
1718-51-0	Terphenyl-d14	81%		22-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	CC1FB02F0720		
Lab Sample ID:	JD10244-5	**Date Sampled:**	07/15/20
Matrix:	AQ - Field Blank Water	**Date Received:**	07/16/20
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	Former Carlysle Compressor, Syracuse, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M94086.D	1	07/23/20 08:13	CS	07/22/20 08:00	OP28540A	E4M4348
Run #2							

	Initial Volume	Final Volume
Run #1	900 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	0.11	0.056	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	69%		29-124%
321-60-8	2-Fluorobiphenyl	69%		23-122%
1718-51-0	Terphenyl-d14	82%		22-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody

1207 0571 - W11 BW-00M20-144 JV 10644

ENSAFE

EnSafe Inc.
800-588-7962

CHAIN OF CUSTODY AND ANALYTICAL REQUEST RECORD CHAIN OF CU...

COC No: 001 Page: 1 of 1

Project Name: UTC - Former Carlysle Compressor (Syracuse, NY) UTC Form

PO No: Project No: 888814574 Phase: 006

Site Location: Syracuse, New York

Send Results To: mheflin@ensafe.com; sgoodnight@ensafe.com; tclemmey@ensafe.com

Sampler/Site Phone# Marshall Gibson 603.770.4444

Lab Name: SGS New Jersey Turnaround Time(specify): Standard

Sample Analysis Requested (*Enter number of containers for each test*)

Lab ID	Sample ID (sys_samp_code)	Location ID (sys_loc_code)	(mm/dd/yy)	Time (Military) (hhmm)	Matrix Code (1)	Sample Type (2)	Field Filtered (Y/N)	(3)→ Total No. of Containers	1,4-Dioxane SW 846 8270_SIM									Extra Volume for MS/MSD	HOLD
1	CC1MW01G0720	MW01	7/15/2020	1040	WG	N	N	6	X									X	
2	CC1MW106G0720	MW106	7/15/2020	1235	WG	N	N	2	x										
3	CC1MW106H0918	MW106	7/15/2020	1300	WG	~~N~~ FD	N	2	x										
4	CC1EB01E0720	MW01	7/15/20	1130	WQ	EB	N	2	x										
5	CC1FB02F0720	MW106	7/15/20	1310	WQ	FB	N	2	x										

Initial Assessment JB

Label Verification

***Field* Comments:**

***Lab* Comments:**

Sample Shipment and Delivery Details

Number of coolers in shipment:

Samples Iced?(check) Yes ✓ No

Method of Shipment: 3.9°C

Airbill No: FP

Date Shipped:

	Relinquished by (signature)	Date	Time	Received by (signature)	Date	Time
1		7/15/20	1530		7/15/20	1530
2		7/15/20	1710			
3	M.FGE	7/16/20	1000			

(1) **Matrix Code:** AA=Air, AQ=Air QC Matrix, CK=Caulk, GS=Soil Gas, LF=Free Product, LH=Liquid Waste, MS=Mastic, OIl=Oil, PT=Paint, SC=Cement/Concrete, SE=Sediment, SF=Filter Sandpack, SL=Sludge, SM=Miscellaneous Solid/Building Materials, SO=Soil, SQ=Soil/Solid QC Matrix, ST=Solid Waste, SW=Swab/Wipe, TA=Animal Tissue, TP=Plant Tissue, WG=Ground Water, WL=Leachate, WO=Ocean Water, WP=Drinking Water, WQ=Water QC Matrix, WS=Surface Water, SU=Storm Water, WW=Waste Water

(2) **Sample Type:** AB=Ambient Blank, EB=Equipment Blank, FB=Field Blank, FD=Field Duplicate Sample, FR=Field Replicate, MB=Material Blank, N=Normal Environmental Sample, RB=Material Rinse Blank, TB=Trip Blank

(3) **Preservative added:** HA=Hydrochloric Acid, NI=Nitric Acid, SH=Sodium Hydroxide, SA=Sulfuric Acid, AA=Ascorbic Acid, HX=Hexane, ME=Methanol, SB=sodium bisulfate, ST=Sodium Thiosulfate, If **NO preservative** added leave blank

Rev. 12/12

3.6°C IP IR-4

SGS Sample Receipt Summary

Job Number: JD10244 **Client:** ENSAFE **Project:** ENSTNN: FORMER CARLYSLE COMPRESSOR,

Date / Time Received: 7/16/2020 10:00:00 AM **Delivery Method:** **Airbill #'s:**

Cooler Temps (Raw Measured) °C: Cooler 1: (3.9); Cooler 2: (3.6);

Cooler Temps (Corrected) °C: Cooler 1: (3.6); Cooler 2: (3.3);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR Gun		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	2		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☑	☐
2. Trip Blank listed on COC:	☐		☑	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 229517 pH 12+: 208717 Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17

Job Change Order: JD10244

Requested Date:	8/5/2020	**Received Date:**	7/16/2020
Account Name:	Raytheon Technologies Corporati	**Due Date:**	7/30/2020
Project Description:	ENSTNN: Former Carlysle Compressor, Syracuse,	**Deliverable:**	COMMB
C/O Initiated By:	BW **PM:** BW	**TAT (Days):**	14

==========

Sample #: JD10244-All

Dept:

TAT: 14

Change:

Move to ENSCTN86805. Upgrade deliverable to FULT1 and reissue report.

==========

Above Changes Per: Shane Goodnight **Date/Time:** 8/5/2020 9:15:40 AM

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

Job Change Order: JD10244

Requested Date:	8/25/2020	**Received Date:**	7/16/2020
Account Name:	Ensafe, Inc	**Due Date:**	7/30/2020
Project Description:	Former Carlysle Compressor, Syracuse, NY	**Deliverable:**	FULT1
C/O Initiated By:	BW **PM:** BW	**TAT (Days):**	14

==========

Sample #: JD10244-3

Dept:

TAT: 14

CC1MW106H0918

Change:
Revise ID to CC1MW106H0720 and reissue report

==========

Above Changes Per: Tina Clemmey **Date/Time:** 8/25/2020 7:34:42 AM

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

JD10244: Chain of Custody
Page 4 of 4

Internal Sample Tracking Chronicle

Ensafe, Inc

Job No: JD10244

Former Carlysle Compressor, Syracuse, NY
Project No: Carrier Corporation 888814574 Phase:006

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD10244-1	Collected: 15-JUL-20 10:40 By: MG		Received: 16-JUL-20 By: JP			
CC1MW01G0720						
JD10244-1	SW846 8270D BY SIM	23-JUL-20 08:35	CS	22-JUL-20	VP	B8270SIM14DIOX
JD10244-2	Collected: 15-JUL-20 12:35 By: MG		Received: 16-JUL-20 By: JP			
CC1MW106G0720						
JD10244-2	SW846 8270D BY SIM	23-JUL-20 07:10	CS	22-JUL-20	VP	B8270SIM14DIOX
JD10244-3	Collected: 15-JUL-20 13:00 By: MG		Received: 16-JUL-20 By: JP			
CC1MW106H0720						
JD10244-3	SW846 8270D BY SIM	23-JUL-20 07:32	CS	22-JUL-20	VP	B8270SIM14DIOX
JD10244-4	Collected: 15-JUL-20 11:30 By: MG		Received: 16-JUL-20 By: JP			
CC1EB01E0720						
JD10244-4	SW846 8270D BY SIM	23-JUL-20 07:52	CS	22-JUL-20	VP	B8270SIM14DIOX
JD10244-5	Collected: 15-JUL-20 13:10 By: MG		Received: 16-JUL-20 By: JP			
CC1FB02F0720						
JD10244-5	SW846 8270D BY SIM	23-JUL-20 08:13	CS	22-JUL-20	VP	B8270SIM14DIOX

SGS Internal Chain of Custody

Job Number: JD10244
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY
Received: 07/16/20

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD10244-1.4	Secured Storage	Omar Khalid	07/21/20 17:30	Retrieve from Storage
JD10244-1.4	Omar Khalid	Secured Staging Area	07/21/20 17:30	Return to Storage
JD10244-1.4	Secured Staging Area	Vikas Parikh	07/22/20 06:26	Retrieve from Storage
JD10244-1.4	Vikas Parikh		07/27/20 10:22	Depleted
JD10244-1.4.1	Vikas Parikh	Organics Prep	07/22/20 06:26	Extract from JD10244-1.4
JD10244-1.4.1	Organics Prep	Vikas Parikh	07/22/20 17:20	Extract from JD10244-1.4
JD10244-1.4.1	Vikas Parikh	Extract Storage	07/22/20 17:20	Return to Storage
JD10244-1.4.1	Extract Storage	Christopher Sowa	07/23/20 00:48	Retrieve from Storage
JD10244-1.4.1	Christopher Sowa	GCMS4M	07/23/20 00:48	Load on Instrument
JD10244-1.4.1	GCMS4M	Angela Rastelli	07/23/20 10:48	Unload from Instrument
JD10244-1.4.1	Angela Rastelli	Extract Freezer	07/23/20 10:48	Return to Storage
JD10244-2.1	Secured Storage	Omar Khalid	07/21/20 17:30	Retrieve from Storage
JD10244-2.1	Omar Khalid	Secured Staging Area	07/21/20 17:30	Return to Storage
JD10244-2.1	Secured Staging Area	Vikas Parikh	07/22/20 06:26	Retrieve from Storage
JD10244-2.1	Vikas Parikh		07/27/20 10:22	Depleted
JD10244-2.1.1	Vikas Parikh	Organics Prep	07/22/20 06:26	Extract from JD10244-2.1
JD10244-2.1.1	Organics Prep	Vikas Parikh	07/22/20 17:20	Extract from JD10244-2.1
JD10244-2.1.1	Vikas Parikh	Extract Storage	07/22/20 17:20	Return to Storage
JD10244-2.1.1	Extract Storage	Christopher Sowa	07/23/20 00:48	Retrieve from Storage
JD10244-2.1.1	Christopher Sowa	GCMS4M	07/23/20 00:48	Load on Instrument
JD10244-2.1.1	GCMS4M	Angela Rastelli	07/23/20 10:48	Unload from Instrument
JD10244-2.1.1	Angela Rastelli	Extract Freezer	07/23/20 10:48	Return to Storage
JD10244-3.2	Secured Storage	Omar Khalid	07/21/20 17:30	Retrieve from Storage
JD10244-3.2	Omar Khalid	Secured Staging Area	07/21/20 17:30	Return to Storage
JD10244-3.2	Secured Staging Area	Vikas Parikh	07/22/20 06:26	Retrieve from Storage
JD10244-3.2	Vikas Parikh		07/27/20 10:22	Depleted
JD10244-3.2.1	Vikas Parikh	Organics Prep	07/22/20 06:26	Extract from JD10244-3.2
JD10244-3.2.1	Organics Prep	Vikas Parikh	07/22/20 17:20	Extract from JD10244-3.2
JD10244-3.2.1	Vikas Parikh	Extract Storage	07/22/20 17:20	Return to Storage
JD10244-3.2.1	Extract Storage	Christopher Sowa	07/23/20 00:48	Retrieve from Storage
JD10244-3.2.1	Christopher Sowa	GCMS4M	07/23/20 00:48	Load on Instrument
JD10244-3.2.1	GCMS4M	Angela Rastelli	07/23/20 10:48	Unload from Instrument
JD10244-3.2.1	Angela Rastelli	Extract Freezer	07/23/20 10:48	Return to Storage
JD10244-4.2	Secured Storage	Omar Khalid	07/21/20 17:30	Retrieve from Storage
JD10244-4.2	Omar Khalid	Secured Staging Area	07/21/20 17:30	Return to Storage
JD10244-4.2	Secured Staging Area	Vikas Parikh	07/22/20 06:26	Retrieve from Storage
JD10244-4.2	Vikas Parikh		07/27/20 10:22	Depleted

SGS Internal Chain of Custody

Job Number: JD10244
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY
Received: 07/16/20

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD10244-4.2.1	Vikas Parikh	Organics Prep	07/22/20 06:26	Extract from JD10244-4.2
JD10244-4.2.1	Organics Prep	Vikas Parikh	07/22/20 17:20	Extract from JD10244-4.2
JD10244-4.2.1	Vikas Parikh	Extract Storage	07/22/20 17:20	Return to Storage
JD10244-4.2.1	Extract Storage	Christopher Sowa	07/23/20 00:48	Retrieve from Storage
JD10244-4.2.1	Christopher Sowa	GCMS4M	07/23/20 00:48	Load on Instrument
JD10244-4.2.1	GCMS4M	Angela Rastelli	07/23/20 10:48	Unload from Instrument
JD10244-4.2.1	Angela Rastelli	Extract Freezer	07/23/20 10:48	Return to Storage
JD10244-5.2	Secured Storage	Omar Khalid	07/21/20 17:30	Retrieve from Storage
JD10244-5.2	Omar Khalid	Secured Staging Area	07/21/20 17:30	Return to Storage
JD10244-5.2	Secured Staging Area	Vikas Parikh	07/22/20 06:26	Retrieve from Storage
JD10244-5.2	Vikas Parikh		07/27/20 10:22	Depleted
JD10244-5.2.1	Vikas Parikh	Organics Prep	07/22/20 06:26	Extract from JD10244-5.2
JD10244-5.2.1	Organics Prep	Vikas Parikh	07/22/20 17:20	Extract from JD10244-5.2
JD10244-5.2.1	Vikas Parikh	Extract Storage	07/22/20 17:20	Return to Storage
JD10244-5.2.1	Extract Storage	Christopher Sowa	07/23/20 00:48	Retrieve from Storage
JD10244-5.2.1	Christopher Sowa	GCMS4M	07/23/20 00:48	Load on Instrument
JD10244-5.2.1	GCMS4M	Angela Rastelli	07/23/20 10:48	Unload from Instrument
JD10244-5.2.1	Angela Rastelli	Extract Freezer	07/23/20 10:48	Return to Storage

MS Semi-volatiles

6

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (DFTPP)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries
- Run Sequence Reports

Method Blank Summary

Job Number: JD10244
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP28540A-MB1	4M94065.D	1	07/23/20	CS	07/22/20	OP28540A	E4M4348

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

JD10244-1, JD10244-2, JD10244-3, JD10244-4, JD10244-5

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	0.10	0.050	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	68%	15-110%
4165-62-2	Phenol-d5	71%	12-110%
118-79-6	2,4,6-Tribromophenol	82%	32-143%
4165-60-0	Nitrobenzene-d5	78%	29-124%
321-60-8	2-Fluorobiphenyl	75%	23-122%
1718-51-0	Terphenyl-d14	87%	22-130%

Blank Spike Summary

Job Number: JD10244
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP28540A-BS12	4M94066.D	1	07/23/20	CS	07/22/20	OP28540A	E4M4348

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

JD10244-1, JD10244-2, JD10244-3, JD10244-4, JD10244-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
123-91-1	1,4-Dioxane	1	0.570	57	10-110

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	74%	15-110%
4165-62-2	Phenol-d5	70%	12-110%
118-79-6	2,4,6-Tribromophenol	87%	32-143%
4165-60-0	Nitrobenzene-d5	78%	29-124%
321-60-8	2-Fluorobiphenyl	75%	23-122%
1718-51-0	Terphenyl-d14	90%	22-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD10244
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP28540A-MSA	4M94078.D	1	07/23/20	CS	07/22/20	OP28540A	E4M4348
OP28540A-MSDA	4M94079.D	1	07/23/20	CS	07/22/20	OP28540A	E4M4348
JD10207-1	4M94077.D	1	07/23/20	CS	07/22/20	OP28540A	E4M4348

The QC reported here applies to the following samples: **Method:** SW846 8270D BY SIM

JD10244-1, JD10244-2, JD10244-3, JD10244-4, JD10244-5

CAS No.	Compound	JD10207-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
123-91-1	1,4-Dioxane	0.593		1	1.13	54	1	1.19	60	5	10-125/46

CAS No.	Surrogate Recoveries	MS	MSD	JD10207-1	Limits
367-12-4	2-Fluorophenol	64%	68%	66%	15-110%
4165-62-2	Phenol-d5	65%	69%	68%	12-110%
118-79-6	2,4,6-Tribromophenol	89%	88%	88%	32-143%
4165-60-0	Nitrobenzene-d5	70%	74%	73%	29-124%
321-60-8	2-Fluorobiphenyl	70%	72%	72%	23-122%
1718-51-0	Terphenyl-d14	92%	90%	90%	22-130%

* = Outside of Control Limits.

Instrument Performance Check (DFTPP)

Job Number: JD10244
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample: E4M4347-DFTPP
Lab File ID: 4M94048.D
Instrument ID: GCMS4M
Injection Date: 07/22/20
Injection Time: 08:29

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	29114	35.2		Pass
68	Less than 2.0% of mass 69	661	0.80	(1.52) [a]	Pass
69	Mass 69 relative abundance	43569	52.7		Pass
70	Less than 2.0% of mass 69	105	0.13	(0.24) [a]	Pass
127	40.0 - 60.0% of mass 198	41100	49.7		Pass
197	Less than 1.0% of mass 198	226	0.27		Pass
198	Base peak, 100% relative abundance	82752	100.0		Pass
199	5.0 - 9.0% of mass 198	4964	6.00		Pass
275	10.0 - 30.0% of mass 198	18845	22.8		Pass
365	1.0 - 100.0% of mass 198	2419	2.92		Pass
441	Present, but less than mass 443	5621	6.79	(68.2) [b]	Pass
442	40.0 - 100.0% of mass 198	45419	54.9		Pass
443	17.0 - 23.0% of mass 442	8245	9.96	(18.2) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E4M4347-IC4347	4M94049.D	07/22/20	08:42	00:13	Initial cal 0.5
E4M4347-IC4347	4M94050.D	07/22/20	09:21	00:52	Initial cal 5
E4M4347-IC4347	4M94051.D	07/22/20	09:42	01:13	Initial cal 2.5
E4M4347-ICC4347	4M94052.D	07/22/20	10:04	01:35	Initial cal 1
E4M4347-IC4347	4M94053.D	07/22/20	10:25	01:56	Initial cal 0.2
E4M4347-IC4347	4M94054.D	07/22/20	10:46	02:17	Initial cal 0.1
E4M4347-IC4347	4M94055.D	07/22/20	11:08	02:39	Initial cal 0.05
E4M4347-IC4347	4M94056.D	07/22/20	11:29	03:00	Initial cal 0.02
E4M4347-IC4347	4M94057.D	07/22/20	11:53	03:24	Initial cal 0.01
E4M4347-ICV4347	4M94058.D	07/22/20	12:14	03:45	Initial cal verification 1
E4M4347-ICV4347	4M94059.D	07/22/20	12:36	04:07	Initial cal verification 5

Instrument Performance Check (DFTPP)

Job Number: JD10244
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample: E4M4348-DFTPP
Lab File ID: 4M94062.D
Instrument ID: GCMS4M
Injection Date: 07/22/20
Injection Time: 23:29

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	28030	45.3		Pass
68	Less than 2.0% of mass 69	700	1.13	(1.89) [a]	Pass
69	Mass 69 relative abundance	37064	59.9		Pass
70	Less than 2.0% of mass 69	222	0.36	(0.60) [a]	Pass
127	40.0 - 60.0% of mass 198	34323	55.5		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	61827	100.0		Pass
199	5.0 - 9.0% of mass 198	4091	6.62		Pass
275	10.0 - 30.0% of mass 198	13464	21.8		Pass
365	1.0 - 100.0% of mass 198	1868	3.02		Pass
441	Present, but less than mass 443	4521	7.31	(80.3) [b]	Pass
442	40.0 - 100.0% of mass 198	29621	47.9		Pass
443	17.0 - 23.0% of mass 442	5628	9.10	(19.0) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E4M4348-CC4347	4M94063.D	07/22/20	23:42	00:13	Continuing cal 0.5
OP28540A-MB1	4M94065.D	07/23/20	00:49	01:20	Method Blank
OP28540A-BS12	4M94066.D	07/23/20	01:11	01:42	Blank Spike
ZZZZZZ	4M94067.D	07/23/20	01:32	02:03	(unrelated sample)
ZZZZZZ	4M94068.D	07/23/20	01:53	02:24	(unrelated sample)
ZZZZZZ	4M94069.D	07/23/20	02:14	02:45	(unrelated sample)
ZZZZZZ	4M94070.D	07/23/20	02:36	03:07	(unrelated sample)
ZZZZZZ	4M94071.D	07/23/20	02:57	03:28	(unrelated sample)
ZZZZZZ	4M94072.D	07/23/20	03:18	03:49	(unrelated sample)
ZZZZZZ	4M94073.D	07/23/20	03:39	04:10	(unrelated sample)
ZZZZZZ	4M94074.D	07/23/20	04:00	04:31	(unrelated sample)
ZZZZZZ	4M94075.D	07/23/20	04:22	04:53	(unrelated sample)
ZZZZZZ	4M94076.D	07/23/20	04:43	05:14	(unrelated sample)
JD10207-1	4M94077.D	07/23/20	05:04	05:35	(used for QC only; not part of job JD10244)
OP28540A-MSA	4M94078.D	07/23/20	05:25	05:56	Matrix Spike
OP28540A-MSDA	4M94079.D	07/23/20	05:46	06:17	Matrix Spike Duplicate
ZZZZZZ	4M94080.D	07/23/20	06:07	06:38	(unrelated sample)
ZZZZZZ	4M94081.D	07/23/20	06:28	06:59	(unrelated sample)
ZZZZZZ	4M94082.D	07/23/20	06:49	07:20	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JD10244
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample:	E4M4348-DFTPP	**Injection Date:**	07/22/20
Lab File ID:	4M94062.D	**Injection Time:**	23:29
Instrument ID:	GCMS4M		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
JD10244-2	4M94083.D	07/23/20	07:10	07:41	CC1MW106G0720
JD10244-3	4M94084.D	07/23/20	07:32	08:03	CC1MW106H0720
JD10244-4	4M94085.D	07/23/20	07:52	08:23	CC1EB01E0720
JD10244-5	4M94086.D	07/23/20	08:13	08:44	CC1FB02F0720
JD10244-1	4M94087.D	07/23/20	08:35	09:06	CC1MW01G0720
ZZZZZZ	4M94088.D	07/23/20	08:56	09:27	(unrelated sample)
E4M4348-ECC4347	4M94089.D	07/23/20	09:17	09:48	Ending cal 0.5

Internal Standard Area Summary

Job Number: JD10244
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Check Std:	E4M4348-CC4347	**Injection Date:**	07/22/20
Lab File ID:	4M94063.D	**Injection Time:**	23:42
Instrument ID:	GCMS4M	**Method:**	SW846 8270D BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Check Std	59247	6.74	61766	8.21	105458	10.32	59655	12.98
Upper Limit [a]	118494	7.24	123532	8.71	210916	10.82	119310	13.48
Lower Limit [b]	29624	6.24	30883	7.71	52729	9.82	29828	12.48

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
OP28540A-MB1	54078	6.74	57702	8.21	98486	10.32	49466	12.98
OP28540A-BS12	54395	6.74	54874	8.21	93514	10.31	47292	12.98
ZZZZZZ	48526	6.74	49427	8.21	85408	10.31	43409	12.98
ZZZZZZ	50001	6.74	50797	8.21	92941	10.32	51713	12.98
ZZZZZZ	58991	6.74	60829	8.21	104151	10.31	56481	12.98
ZZZZZZ	55910	6.74	56974	8.21	98987	10.31	54301	12.98
ZZZZZZ	55848	6.74	55640	8.21	100667	10.31	55885	12.98
ZZZZZZ	55027	6.74	55236	8.21	96456	10.31	51238	12.98
ZZZZZZ	54507	6.74	54417	8.21	94845	10.31	51685	12.98
ZZZZZZ	46030	6.74	44497	8.21	78822	10.31	40263	12.98
ZZZZZZ	46346	6.74	45600	8.21	81995	10.31	40792	12.98
ZZZZZZ	48814	6.74	48086	8.21	92256	10.31	53115	12.98
JD10207-1	46442	6.74	45937	8.21	79553	10.31	42092	12.98
OP28540A-MSA	52396	6.74	52815	8.21	91491	10.31	45875	12.98
OP28540A-MSDA	51943	6.74	51803	8.21	89594	10.31	48066	12.98
ZZZZZZ	49570	6.74	48029	8.21	85477	10.31	41704	12.98
ZZZZZZ	52593	6.74	51878	8.21	90584	10.31	41703	12.98
ZZZZZZ	47574	6.74	46480	8.21	82529	10.31	41442	12.98
JD10244-2	48031	6.74	49521	8.21	96705	10.31	65091	12.98
JD10244-3	58724	6.74	59438	8.21	108065	10.32	71007	12.98
JD10244-4	61935	6.74	61181	8.21	110719	10.31	67611	12.98
JD10244-5	57647	6.74	58386	8.21	108078	10.31	65490	12.98
JD10244-1	63634	6.74	78177	8.21	119099	10.32	78016	12.99
ZZZZZZ	67640	6.74	71688	8.21	128428	10.32	82264	12.98
E4M4348-ECC4347	67126	6.74	68986	8.21	128298	10.32	85878	12.99

IS 1 = 1-Methylnaphthalene-d10
IS 2 = Fluorene-d10
IS 3 = Fluoranthene-d10
IS 4 = Benzo(a)pyrene-d12

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Surrogate Recovery Summary

Job Number: JD10244
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Method: SW846 8270D BY SIM **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
JD10244-1	4M94087.D	75	75	83
JD10244-2	4M94083.D	65	68	74
JD10244-3	4M94084.D	68	70	80
JD10244-4	4M94085.D	71	70	81
JD10244-5	4M94086.D	69	69	82
OP28540A-BS12	4M94066.D	78	75	90
OP28540A-MB1	4M94065.D	78	75	87
OP28540A-MSA	4M94078.D	70	70	92
OP28540A-MSDA	4M94079.D	74	72	90

Surrogate Compounds	Recovery Limits
S1 = Nitrobenzene-d5	29-124%
S2 = 2-Fluorobiphenyl	23-122%
S3 = Terphenyl-d14	22-130%

Initial Calibration Summary

Job Number: JD10244
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample: E4M4347-ICC4347
Lab FileID: 4M94052.D

Response Factor Report GCMS4M

Method : C:\msdchem\1\METHODS\M4M4347SIM.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
Last Update : Wed Jul 22 12:21:59 2020
Response via : Initial Calibration

Calibration Files
0.05=4m94055.D .2 =4m94053.D 2.5 =4m94051.D .02 =4m94056.D
.1 =4m94054.D 1 =4m94052.D .01 =4m94057.D .5 =4m94049.D
5 =4m94050.D = = =

Compound	0.05	.2	2.5	.02	.1	1	.01	.5	5	Avg	%RSD
1) I 1-Methylnaphthalene-d	----------ISTD----------										
2) 2-Fluorophenol	0.673	0.629	0.617	0.647	0.628	0.631	0.655	0.636	0.594	0.635	3.58
3) Phenol-d5	0.826	0.849	0.819	0.780	0.819	0.849	0.755	0.841	0.754	0.810	4.67
4) Phenol	0.853	0.904	0.915	0.805	0.838	0.925	0.786	0.909	0.851	0.865	5.83
5) bis(2-Chloroethyl)ether	0.666	0.689	0.717	0.559	0.678	0.714	0.594	0.704	0.690	0.668	8.23
6) Nitrobenzene-d5	0.772	0.832	0.810	0.734	0.782	0.841	0.713	0.813	0.741	0.782	5.83
7) Naphthalene	2.026	2.024	2.018	2.034	1.989	2.017	2.023	2.015	1.930	2.008	1.59
8) Hexachlorobutadiene	0.485	0.462	0.455	0.467	0.465	0.466	0.537	0.453	0.438	0.470	5.97
9) 2-Methylnaphthalene	1.228	1.155	1.210	1.214	1.148	1.188	1.494	1.181	1.175	1.221	8.66
10) Hexachlorocyclopentadiene	0.295	0.355	0.460		0.316	0.426		0.430	0.472	0.393	18.01
11) 2-Fluorobiphenyl	1.422	1.476	1.365	1.400	1.434	1.441	1.377	1.429	1.259	1.400	4.49
12) I Fluorene-d10	----------ISTD----------										
13) Acenaphthylene	1.713	1.844	1.796	1.741	1.809	1.803	1.754	1.920	1.669	1.783	4.17
14) Acenaphthene	1.105	1.189	1.099	1.196	1.155	1.141	1.148	1.180	1.028	1.138	4.69
15) Dibenzofuran	1.590	1.653	1.686	1.704	1.652	1.708	1.722	1.688	1.622	1.670	2.61
16) Fluorene	1.355	1.389	1.395	1.585	1.442	1.409	1.292	1.393	1.355	1.402	5.75
17) 2,4,6-Tribromophenol	0.175	0.204	0.200	0.171	0.189	0.218	0.166	0.224	0.180	0.192	10.84
18) Hexachlorobenzene	0.502	0.510	0.464	0.495	0.505	0.478	0.558	0.497	0.430	0.493	7.08
19) Pentachlorophenol	0.133	0.159	0.240		0.152	0.231		0.224	0.253	0.199	24.68
---- Quadratic regression ---- Coefficient = 0.9992											
Response Ratio = -0.00836 + 0.22871 *A + 0.00419 *A^2											
20) Phenanthrene	1.783	1.918	1.932	1.883	1.846	1.956	1.945	1.983	1.835	1.898	3.46
21) Anthracene	1.477	1.622	1.880	1.590	1.671	1.876	1.706	1.830	1.792	1.716	8.11

Initial Calibration Summary

Job Number: JD10244
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample: E4M4347-ICC4347
Lab FileID: 4M94052.D

```
22) I   Fluoranthene-d10      ----------------ISTD---------------------
23)  Fluoranthene
          1.306 1.252 1.283 1.293 1.287 1.251 1.360 1.280 1.234        1.283    2.89
24)  Pyrene
          1.046 1.086 1.282 1.062 1.072 1.210 1.153 1.220 1.278        1.157    8.13
25)  Terphenyl-d14
          0.582 0.665 0.671 0.514 0.629 0.684 0.506 0.684 0.640        0.619   11.26
26)  Benzo[a]anthracene
          0.628 0.721 0.984 0.627 0.677 0.892 0.717 0.928 1.034        0.801   19.82
27)  Chrysene
          0.797 0.889 1.121 0.739 0.909 1.073 0.873 1.062 1.126        0.954   15.14

28) I   Benzo(a)pyrene-d12    ----------------ISTD---------------------
29)  Benzo[b]fluoranthene
          1.096 1.167 1.588 1.143 1.135 1.405 1.190 1.448 1.591        1.307   15.38
30)  Benzo[k]fluoranthene
          1.065 1.320 1.793 1.286 1.213 1.723       1.611 1.727        1.467   18.96
31)  Benzo[a]pyrene
          1.343 1.516 1.536 1.537 1.593 1.530 1.498 1.549 1.496        1.511    4.59
32)  Indeno[1,2,3-cd]pyrene
          0.979 1.118 1.565       1.029 1.365       1.397 1.568        1.289   19.12
33)  Dibenz[a,h]anthracene
               0.856 1.256       0.830 1.123       1.093 1.274        1.072   17.82
34)  Benzo[g,h,i]perylene
          0.934 1.051 1.279 0.939 0.983 1.173 1.001 1.210 1.288        1.095   13.06

35) I   1-Methylnaphthalene-d ----------------ISTD---------------------
36)  1,4-Dioxane
          0.468 0.374 0.405 0.252 0.340 0.383       0.360 0.354        0.367   16.66
37)  1-Methylnaphthalene
          1.383 1.339 1.338 1.306 1.289 1.338 1.503 1.342 1.301        1.349    4.76

38) I   Fluorene-d10a         ----------------ISTD---------------------
39)  4,6-dinitro-2-methylphenol
          0.082 0.114 0.236       0.100 0.195       0.168              0.149   40.36
           ---- Quadratic regression ----  Coefficient =  0.9985
             Response Ratio = -0.00714 + 0.16406 *A + 0.02391 *A^2

---------------------------------------------------------------------------
(#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          M4M4347SIM.M        Wed Jul 22 12:55:13 2020
```

Initial Calibration Verification

Job Number: JD10244
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample: E4M4347-ICV4347
Lab FileID: 4M94058.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E4M4347\4m94058.D Vial: 11
Acq On : 22 Jul 2020 12:14 pm Operator: angelar
Sample : icv4347-1 Inst : GCMS4M
Misc : op25425a,e4m4347,1000,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\msdchem\1\METHODS\M4M4347SIM.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
Last Update : Wed Jul 22 12:21:59 2020
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1-Methylnaphthalene-d10	1.000	1.000	0.0	104	0.00	6.74
5	t	bis(2-Chloroethyl)ether	0.668	0.573	14.2	84	0.00	4.52
7	t	Naphthalene	2.008	1.645	18.1	85	-0.02	5.99
8	t	Hexachlorobutadiene	0.470	0.399	15.1	89	0.00	6.14
9	t	2-Methylnaphthalene	1.221	1.028	15.8	90	0.00	6.68
12	I	Fluorene-d10	1.000	1.000	0.0	101	-0.01	8.21
13	t	Acenaphthylene	1.783	1.396	21.7	78	-0.01	7.54
14	t	Acenaphthene	1.138	0.916	19.5	81	-0.01	7.72
15	t	Dibenzofuran	1.670	1.395	16.5	83	-0.01	7.90
16	t	Fluorene	1.402	1.124	19.8	81	-0.01	8.23
18	t	Hexachlorobenzene	0.493	0.394	20.1	84	0.00	8.77
		----------	AvgRF	CCRF	% Dev	----------		
20	t	Phenanthrene	1.898	1.585	16.5	82	-0.02	9.16
21	t	Anthracene	1.716	1.364	20.5	74	0.00	9.21
22	I	Fluoranthene-d10	1.000	1.000	0.0	96	-0.01	10.32
23	t	Fluoranthene	1.283	1.053	17.9	81	-0.02	10.33
24	t	Pyrene	1.157	0.925	20.1	73	-0.01	10.55
26	t	Benzo[a]anthracene	0.801	0.616	23.1	66	-0.01	11.74
27	t	Chrysene	0.954	0.842	11.7	75	-0.01	11.77
28	I	Benzo(a)pyrene-d12	1.000	1.000	0.0	79	-0.01	12.99
29	t	Benzo[b]fluoranthene	1.307	1.000	23.5	56	-0.01	12.73
30	t	Benzo[k]fluoranthene	1.467	1.353	7.8	62	-0.01	12.76
31	t	Benzo[a]pyrene	1.511	1.302	13.8	67	-0.01	13.01
32	t	Indeno[1,2,3-cd]pyrene	1.289	1.016	21.2	59	-0.02	14.00
33	t	Dibenz[a,h]anthracene	1.072	0.764	28.7	54	-0.02	14.02
34	t	Benzo[g,h,i]perylene	1.095	0.928	15.3	62	-0.02	14.27
35	I	1-Methylnaphthalene-d10a	1.000	1.000	0.0	104	0.00	6.74
36	t	1,4-Dioxane	0.367	0.288	21.5	78	0.02	1.80

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4m94052.D M4M4347SIM.M Wed Jul 22 12:33:43 2020

Initial Calibration Verification

Job Number: JD10244
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample: E4M4347-ICV4347
Lab FileID: 4M94059.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E4M4347\4m94059.D Vial: 12
Acq On : 22 Jul 2020 12:36 pm Operator: angelar
Sample : icv4347-5 Inst : GCMS4M
Misc : op25425a,e4m4347,1000,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\msdchem\1\METHODS\M4M4347SIM.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
Last Update : Wed Jul 22 12:21:59 2020
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1-Methylnaphthalene-d10	1.000	1.000	0.0	85	0.00	6.74
4	t	Phenol	0.865	0.854	1.3	79	-0.02	4.47
12	I	Fluorene-d10	1.000	1.000	0.0	84	-0.01	8.21
		----------	True	Calc.	% Drift	----------		
19	t	Pentachlorophenol	5.000	4.242	15.2	70	0.00	8.97
38	I	Fluorene-d10a	1.000	1.000	0.0	84	-0.01	8.21
		----------	True	Calc.	% Drift	----------		
39	t	4,6-dinitro-2-methylpheno	5.000	4.683	6.3	75	-0.01	8.30

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4m94052.D M4M4347SIM.M Wed Jul 22 12:53:22 2020

Continuing Calibration Summary

Job Number: JD10244
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample: E4M4348-CC4347
Lab FileID: 4M94063.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\da...eel\e4m4348\4m94063.d Vial: 2
Acq On : 22 Jul 2020 11:42 pm Operator: chriss2
Sample : cc4347-0.5 Inst : GCMS4M
Misc : op25425a,e4m4348,1000,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\msdchem\1\METHODS\M4M4347SIM.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
Last Update : Fri Jul 24 03:13:51 2020
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1-Methylnaphthalene-d10	1.000	1.000	0.0	95	0.00	6.74
2	S	2-Fluorophenol	0.635	0.657	-3.5	98	0.00	3.51
3	S	Phenol-d5	0.810	0.875	-8.0	99	0.00	4.46
4	t	Phenol	0.865	0.945	-9.2	99	0.00	4.47
5	t	bis(2-Chloroethyl)ether	0.668	0.727	-8.8	98	0.00	4.52
6	S	Nitrobenzene-d5	0.782	0.846	-8.2	99	0.00	5.29
7	t	Naphthalene	2.008	2.043	-1.7	96	0.00	6.00
8	t	Hexachlorobutadiene	0.470	0.468	0.4	98	0.00	6.14
9	t	2-Methylnaphthalene	1.221	1.265	-3.6	102	0.00	6.68
10	t	Hexachlorocyclopentadiene	0.393	0.395	-0.5	87	0.00	6.85
11	S	2-Fluorobiphenyl	1.400	1.467	-4.8	98	0.00	7.05
12	I	Fluorene-d10	1.000	1.000	0.0	97	0.00	8.21
13	t	Acenaphthylene	1.783	1.752	1.7	89	0.00	7.54
14	t	Acenaphthene	1.138	1.117	1.8	92	0.00	7.73
15	t	Dibenzofuran	1.670	1.691	-1.3	97	0.00	7.90
16	t	Fluorene	1.402	1.439	-2.6	101	0.00	8.23
17	S	2,4,6-Tribromophenol	0.192	0.211	-9.9	92	0.00	8.47
18	t	Hexachlorobenzene	0.493	0.488	1.0	96	0.00	8.77
		----------	True	Calc.	% Drift	----------		
19	t	Pentachlorophenol	2.500	1.970	21.2#	73	0.00	8.97
		----------	AvgRF	CCRF	% Dev	----------		
20	t	Phenanthrene	1.898	1.969	-3.7	97	0.00	9.16
21	t	Anthracene	1.716	1.711	0.3	91	0.00	9.21
22	I	Fluoranthene-d10	1.000	1.000	0.0	93	0.00	10.32
23	t	Fluoranthene	1.283	1.317	-2.7	96	0.00	10.33
24	t	Pyrene	1.157	1.148	0.8	87	0.00	10.55
25	S	Terphenyl-d14	0.619	0.710	-14.7	96	0.00	10.73
26	t	Benzo[a]anthracene	0.801	0.685	14.5	69	0.00	11.73
27	t	Chrysene	0.954	0.981	-2.8	86	0.00	11.76
28	I	Benzo(a)pyrene-d12	1.000	1.000	0.0	83	0.00	12.98
29	t	Benzo[b]fluoranthene	1.307	1.287	1.5	74	0.00	12.73
30	t	Benzo[k]fluoranthene	1.467	1.653	-12.7	85	0.00	12.75
31	t	Benzo[a]pyrene	1.511	1.609	-6.5	86	0.00	13.00
32	t	Indeno[1,2,3-cd]pyrene	1.289	1.230	4.6	73	0.00	14.00
33	t	Dibenz[a,h]anthracene	1.072	0.958	10.6	73	0.00	14.02
34	t	Benzo[g,h,i]perylene	1.095	1.063	2.9	73	0.00	14.26

Continuing Calibration Summary

Job Number: JD10244
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample: E4M4348-CC4347
Lab FileID: 4M94063.D

35	I	1-Methylnaphthalene-d10a	1.000	1.000	0.0	95	0.00	6.74
36	t	1,4-Dioxane	0.367	0.435	-18.5	115	0.00	1.76
37	t	1-Methylnaphthalene	1.349	1.388	-2.9	98	0.00	6.77
38	I	Fluorene-d10a	1.000	1.000	0.0	97	0.00	8.21
		----------	True	Calc.	% Drift	----------		
39	t	4,6-dinitro-2-methylpheno	2.500	2.108	15.7	79	0.00	8.30

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4m94063.d M4M4347SIM.M Fri Jul 24 03:16:45 2020

Continuing Calibration Summary

Job Number: JD10244
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample: E4M4348-ECC4347
Lab FileID: 4M94089.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\da...eel\e4m4348\4m94089.d Vial: 2
Acq On : 23 Jul 2020 9:17 am Operator: chriss2
Sample : ecc4347-0.5 Inst : GCMS4M
Misc : op28540a,e4m4348,1000,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\msdchem\1\METHODS\M4M4347SIM.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
Last Update : Fri Jul 24 04:37:48 2020
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 50% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1-Methylnaphthalene-d10	1.000	1.000	0.0	108	0.00	6.74
2	S	2-Fluorophenol	0.635	0.652	-2.7	111	0.00	3.52
3	S	Phenol-d5	0.810	0.873	-7.8	112	0.00	4.46
4	t	Phenol	0.865	0.937	-8.3	111	0.00	4.47
5	t	bis(2-Chloroethyl)ether	0.668	0.715	-7.0	110	0.00	4.52
6	S	Nitrobenzene-d5	0.782	0.830	-6.1	110	0.00	5.29
7	t	Naphthalene	2.008	2.060	-2.6	110	0.00	6.00
8	t	Hexachlorobutadiene	0.470	0.464	1.3	110	0.00	6.14
9	t	2-Methylnaphthalene	1.221	1.226	-0.4	112	0.00	6.68
10	t	Hexachlorocyclopentadiene	0.393	0.364	7.4	91	0.00	6.85
11	S	2-Fluorobiphenyl	1.400	1.468	-4.9	111	0.00	7.05
12	I	Fluorene-d10	1.000	1.000	0.0	109	0.00	8.21
13	t	Acenaphthylene	1.783	1.935	-8.5	110	0.00	7.54
14	t	Acenaphthene	1.138	1.196	-5.1	110	0.00	7.72
15	t	Dibenzofuran	1.670	1.784	-6.8	115	0.00	7.90
16	t	Fluorene	1.402	1.437	-2.5	112	0.00	8.23
17	S	2,4,6-Tribromophenol	0.192	0.235	-22.4	114	0.00	8.47
18	t	Hexachlorobenzene	0.493	0.514	-4.3	112	0.00	8.77
		----------	True	Calc.	% Drift	----------		
19	t	Pentachlorophenol	2.500	2.707	-8.3	115	0.00	8.97
		----------	AvgRF	CCRF	% Dev	----------		
20	t	Phenanthrene	1.898	2.065	-8.8	113	0.00	9.16
21	t	Anthracene	1.716	1.964	-14.5	117	0.00	9.21
22	I	Fluoranthene-d10	1.000	1.000	0.0	113	0.00	10.32
23	t	Fluoranthene	1.283	1.300	-1.3	115	0.00	10.33
24	t	Pyrene	1.157	1.257	-8.6	116	0.00	10.55
25	S	Terphenyl-d14	0.619	0.712	-15.0	118	0.00	10.73
26	t	Benzo[a]anthracene	0.801	0.970	-21.1	118	0.00	11.73
27	t	Chrysene	0.954	1.089	-14.2	116	0.00	11.77
28	I	Benzo(a)pyrene-d12	1.000	1.000	0.0	119	0.00	12.99
29	t	Benzo[b]fluoranthene	1.307	1.479	-13.2	122	0.00	12.73
30	t	Benzo[k]fluoranthene	1.467	1.645	-12.1	122	0.00	12.75
31	t	Benzo[a]pyrene	1.511	1.560	-3.2	120	0.00	13.01
32	t	Indeno[1,2,3-cd]pyrene	1.289	1.434	-11.2	122	0.00	14.00
33	t	Dibenz[a,h]anthracene	1.072	1.175	-9.6	128	0.00	14.02
34	t	Benzo[g,h,i]perylene	1.095	1.229	-12.2	121	0.00	14.27

Continuing Calibration Summary

Job Number: JD10244
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Sample: E4M4348-ECC4347
Lab FileID: 4M94089.D

35	I	1-Methylnaphthalene-d10a	1.000	1.000	0.0	108	0.00	6.74
36	t	1,4-Dioxane	0.367	0.359	2.2	108	0.00	1.77
37	t	1-Methylnaphthalene	1.349	1.382	-2.4	111	0.00	6.77
38	I	Fluorene-d10a	1.000	1.000	0.0	109	0.00	8.21
			True	Calc.	% Drift			
39	t	4,6-dinitro-2-methylpheno	2.500	2.028	18.9	85	0.00	8.30

(#) = Out of Range SPCC's out = 0 CCC's out = 0
4m94089.d M4M4347SIM.M Fri Jul 24 04:41:02 2020

Run Sequence Report

Job Number: JD10244
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Run ID: E4M4347 **Method:** SW846 8270D BY SIM **Instrument ID:** GCMS4M

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
E4M4347-DFTPP	4M94048.D	07/22/20 08:29	n/a	DFTPP Tune
E4M4347-IC4347	4M94049.D	07/22/20 08:42	n/a	Initial cal 0.5
E4M4347-IC4347	4M94050.D	07/22/20 09:21	n/a	Initial cal 5
E4M4347-IC4347	4M94051.D	07/22/20 09:42	n/a	Initial cal 2.5
E4M4347-ICC4347	4M94052.D	07/22/20 10:04	n/a	Initial cal 1
E4M4347-IC4347	4M94053.D	07/22/20 10:25	n/a	Initial cal 0.2
E4M4347-IC4347	4M94054.D	07/22/20 10:46	n/a	Initial cal 0.1
E4M4347-IC4347	4M94055.D	07/22/20 11:08	n/a	Initial cal 0.05
E4M4347-IC4347	4M94056.D	07/22/20 11:29	n/a	Initial cal 0.02
E4M4347-IC4347	4M94057.D	07/22/20 11:53	n/a	Initial cal 0.01
E4M4347-ICV4347	4M94058.D	07/22/20 12:14	n/a	Initial cal verification 1
E4M4347-ICV4347	4M94059.D	07/22/20 12:36	n/a	Initial cal verification 5

Run Sequence Report

Job Number: JD10244
Account: ENSCTN Ensafe, Inc
Project: Former Carlysle Compressor, Syracuse, NY

Run ID: E4M4348 **Method:** SW846 8270D BY SIM **Instrument ID:** GCMS4M

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
E4M4348-DFTPP	4M94062.D	07/22/20 23:29	n/a	DFTPP Tune
E4M4348-CC4347	4M94063.D	07/22/20 23:42	n/a	Continuing cal 0.5
OP28540A-MB1	4M94065.D	07/23/20 00:49	OP28540A	Method Blank
OP28540A-BS12	4M94066.D	07/23/20 01:11	OP28540A	Blank Spike
ZZZZZZ	4M94067.D	07/23/20 01:32	OP28540A	(unrelated sample)
ZZZZZZ	4M94068.D	07/23/20 01:53	OP28540A	(unrelated sample)
ZZZZZZ	4M94069.D	07/23/20 02:14	OP28540A	(unrelated sample)
ZZZZZZ	4M94070.D	07/23/20 02:36	OP28540A	(unrelated sample)
ZZZZZZ	4M94071.D	07/23/20 02:57	OP28540A	(unrelated sample)
ZZZZZZ	4M94072.D	07/23/20 03:18	OP28540A	(unrelated sample)
ZZZZZZ	4M94073.D	07/23/20 03:39	OP28540A	(unrelated sample)
ZZZZZZ	4M94074.D	07/23/20 04:00	OP28540A	(unrelated sample)
ZZZZZZ	4M94075.D	07/23/20 04:22	OP28540A	(unrelated sample)
ZZZZZZ	4M94076.D	07/23/20 04:43	OP28540A	(unrelated sample)
JD10207-1	4M94077.D	07/23/20 05:04	OP28540A	(used for QC only; not part of job JD10244)
OP28540A-MSA	4M94078.D	07/23/20 05:25	OP28540A	Matrix Spike
OP28540A-MSDA	4M94079.D	07/23/20 05:46	OP28540A	Matrix Spike Duplicate
ZZZZZZ	4M94080.D	07/23/20 06:07	OP28540A	(unrelated sample)
ZZZZZZ	4M94081.D	07/23/20 06:28	OP28540A	(unrelated sample)
ZZZZZZ	4M94082.D	07/23/20 06:49	OP28540A	(unrelated sample)
JD10244-2	4M94083.D	07/23/20 07:10	OP28540A	CC1MW106G0720
JD10244-3	4M94084.D	07/23/20 07:32	OP28540A	CC1MW106H0720
JD10244-4	4M94085.D	07/23/20 07:52	OP28540A	CC1EB01E0720
JD10244-5	4M94086.D	07/23/20 08:13	OP28540A	CC1FB02F0720
JD10244-1	4M94087.D	07/23/20 08:35	OP28540A	CC1MW01G0720
ZZZZZZ	4M94088.D	07/23/20 08:56	OP28493A	(unrelated sample)
E4M4348-ECC4347	4M94089.D	07/23/20 09:17	n/a	Ending cal 0.5

MS Semi-volatiles

Raw Data

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
07/24/20 13:02

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\data_aimeel\e4m4348\
Data File : 4m94087.d
Acq On : 23 Jul 2020 8:35 am
Operator : chriss2
Sample : jd10244-1 Inst : GCMS4M
Misc : op28540a,e4m4348,1000,,,1,1
ALS Vial : 26 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Results File: M4M4347SIM.RES
Quant Time: Jul 24 04:28:55 2020
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Fri Jul 24 03:13:51 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	6.739	152	63634	4.00	ppm	0.00
12) Fluorene-d10	8.206	176	78177	4.00	ppm	0.00
22) Fluoranthene-d10	10.315	212	119099	4.00	ppm	0.00
28) Benzo(a)pyrene-d12	12.987	264	78016	4.00	ppm	0.00
35) 1-Methylnaphthalene-d10a	6.739	152	63634	4.00	ppm	0.00
38) Fluorene-d10a	8.206	176	78177	4.00	ppm	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	3.523	112	370173	36.67	ppm	0.01
Spiked Amount 50.000	Range 11 - 58		Recovery =	73.34%#		
3) Phenol-d5	4.465	99	459097	35.61	ppm	0.00
Spiked Amount 50.000			Recovery =	71.22%		
6) Nitrobenzene-d5	5.290	82	464002	37.30	ppm	0.00
Spiked Amount 50.000			Recovery =	74.60%		
11) 2-Fluorobiphenyl	7.050	172	834490	37.46	ppm	0.00
Spiked Amount 50.000			Recovery =	74.92%		
17) 2,4,6-Tribromophenol	8.469	330	133972	35.73	ppm	0.00
Spiked Amount 50.000			Recovery =	71.46%		
25) Terphenyl-d14	10.736	244	764785	41.47	ppm	0.00
Spiked Amount 50.000			Recovery =	82.94%		
Target Compounds						Qvalue
36) 1,4-Dioxane	1.785	88	618m	0.11	ppm	

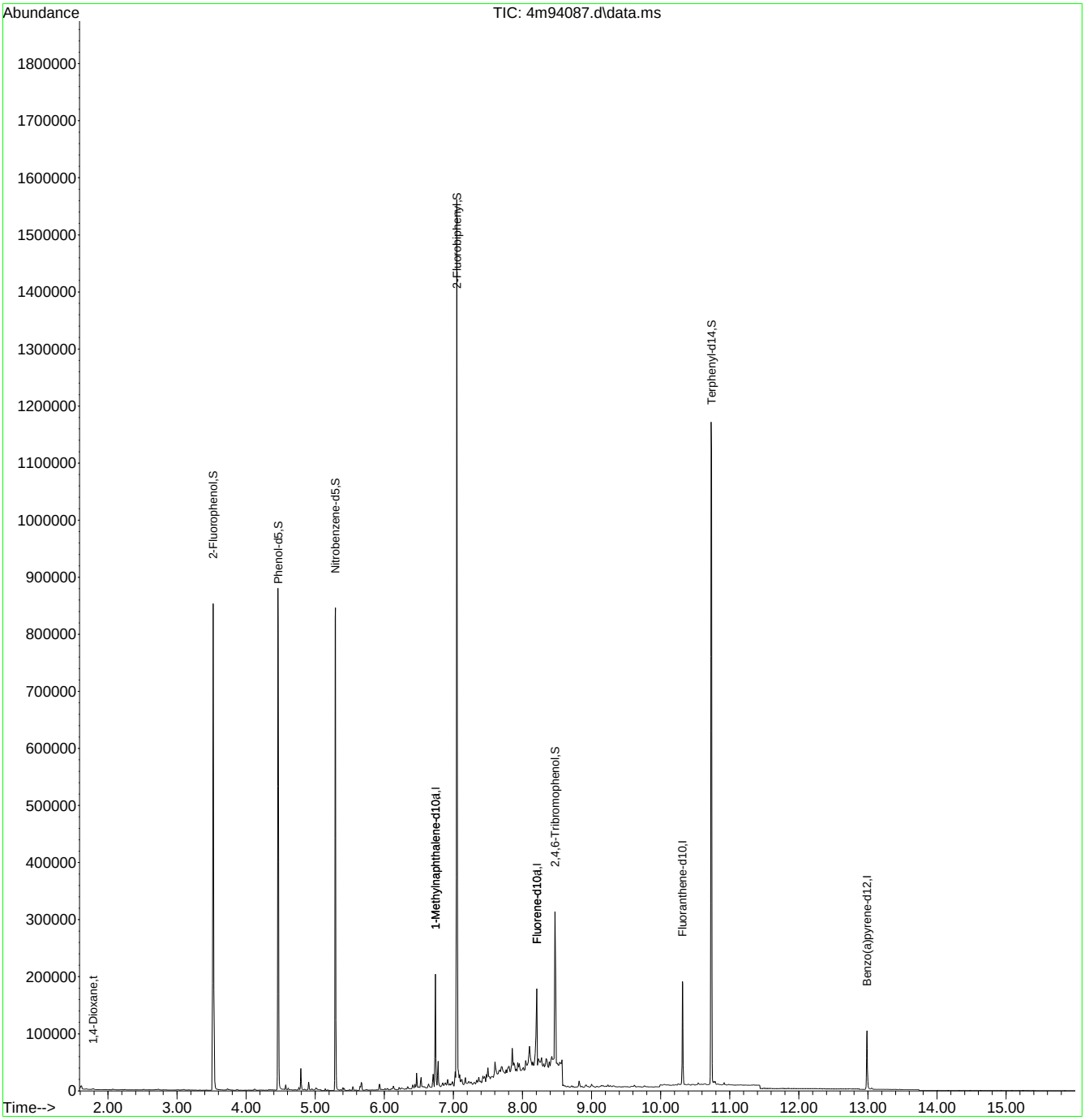
(#) = qualifier out of range (m) = manual integration (+) = signals summed

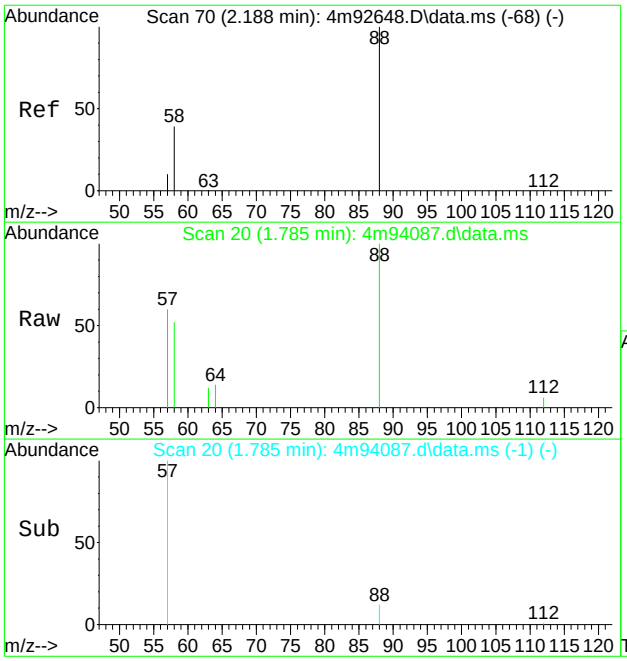
7.1.1
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\data_aimeel\e4m4348\
Data File : 4m94087.d
Acq On : 23 Jul 2020 8:35 am
Operator : chriss2
Sample : jd10244-1 Inst : GCMS4M
Misc : op28540a,e4m4348,1000,,,1,1
ALS Vial : 26 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Results File: M4M4347SIM.RES
Quant Time: Jul 24 04:28:55 2020
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Fri Jul 24 03:13:51 2020
Response via : Initial Calibration

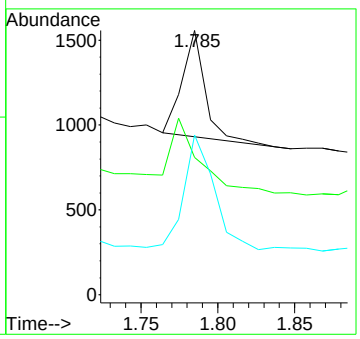




#36
1,4-Dioxane
Concen: 0.11 ppm m
RT: 1.785 min Scan# 20
Delta R.T. 0.021 min
Lab File: 4m94087.d
Acq: 23 Jul 2020 8:35 am

Tgt Ion: 88 Resp: 618

Ion	Ratio	Lower	Upper
88	100		
58	52.0	31.4	71.4
57	60.4	0.0	35.1#



Manual Integration Approval Summary

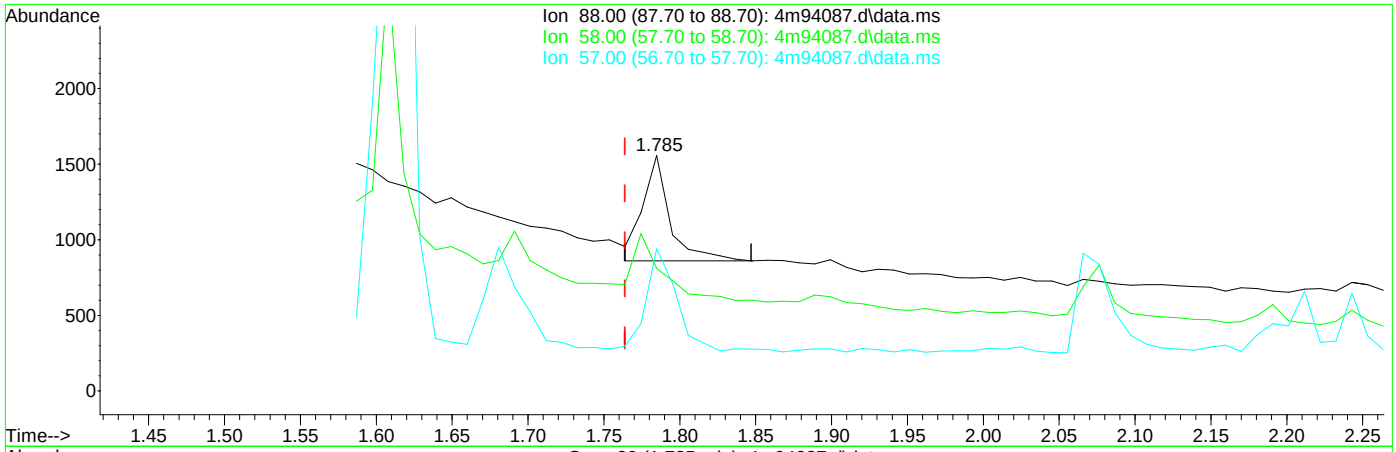
Sample Number: JD10244-1
Lab FileID: 4M94087.D
Injection Time: 07/23/20 08:35
Method: SW846 8270D BY SIM
Analyst approved: 07/24/20 04:41 Aimee Laurente
Supervisor approved: 07/24/20 13:02 Nina Pandya

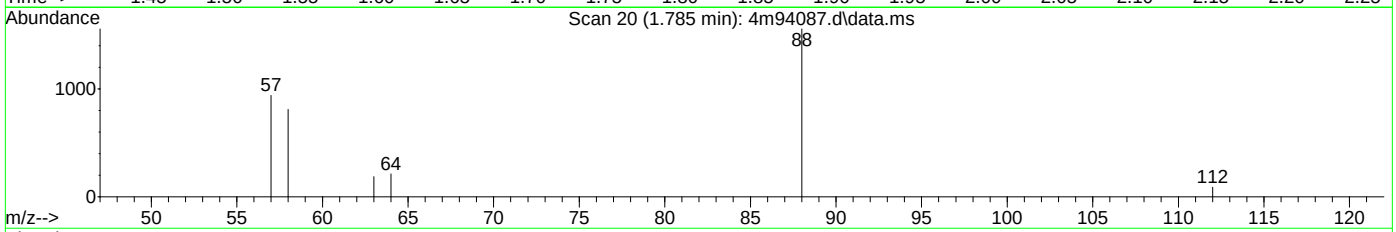
Parameter	CAS	Sig#	R.T. (min.)	Reason
1,4-Dioxane	123-91-1		1.78	Poor instrument integration

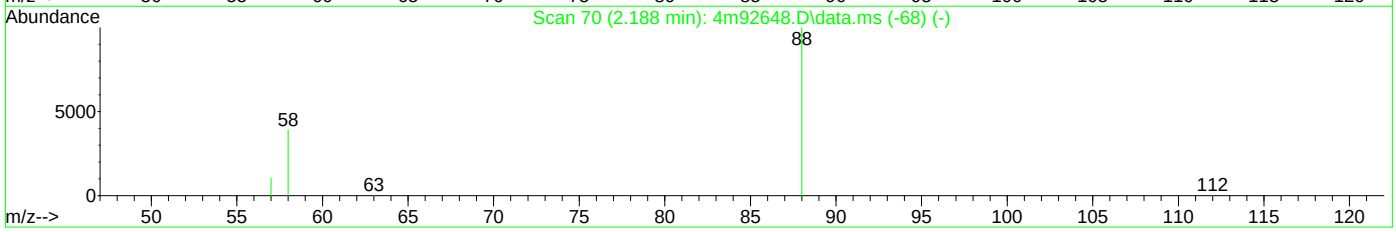
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\data_aimeel\e4m4348\
Data File : 4m94087.d
Acq On : 23 Jul 2020 8:35 am
Operator : chriss2
Sample : jd10244-1 Inst : GCMS4M
Misc : op28540a,e4m4348,1000,,,1,1
ALS Vial : 26 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Results File: M4M4347SIM.RES
Quant Time: Jul 24 03:20:03 2020
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Fri Jul 24 03:13:51 2020
Response via : Initial Calibration







TIC: 4m94087.d\data.ms

(36) 1,4-Dioxane (t)

1.785min (+0.021) 0.15ppm

response 855

Ion	Exp%	Act%
88.00	100	100
58.00	51.40	24.14#
57.00	15.10	100.69#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\data_aimeel\e4m4348\
Data File : 4m94083.d
Acq On : 23 Jul 2020 7:10 am
Operator : chriss2
Sample : jd10244-2 Inst : GCMS4M
Misc : op28540a,e4m4348,1000,,,1,1
ALS Vial : 22 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Results File: M4M4347SIM.RES
Quant Time: Jul 24 04:23:16 2020
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Fri Jul 24 03:13:51 2020
Response via : Initial Calibration

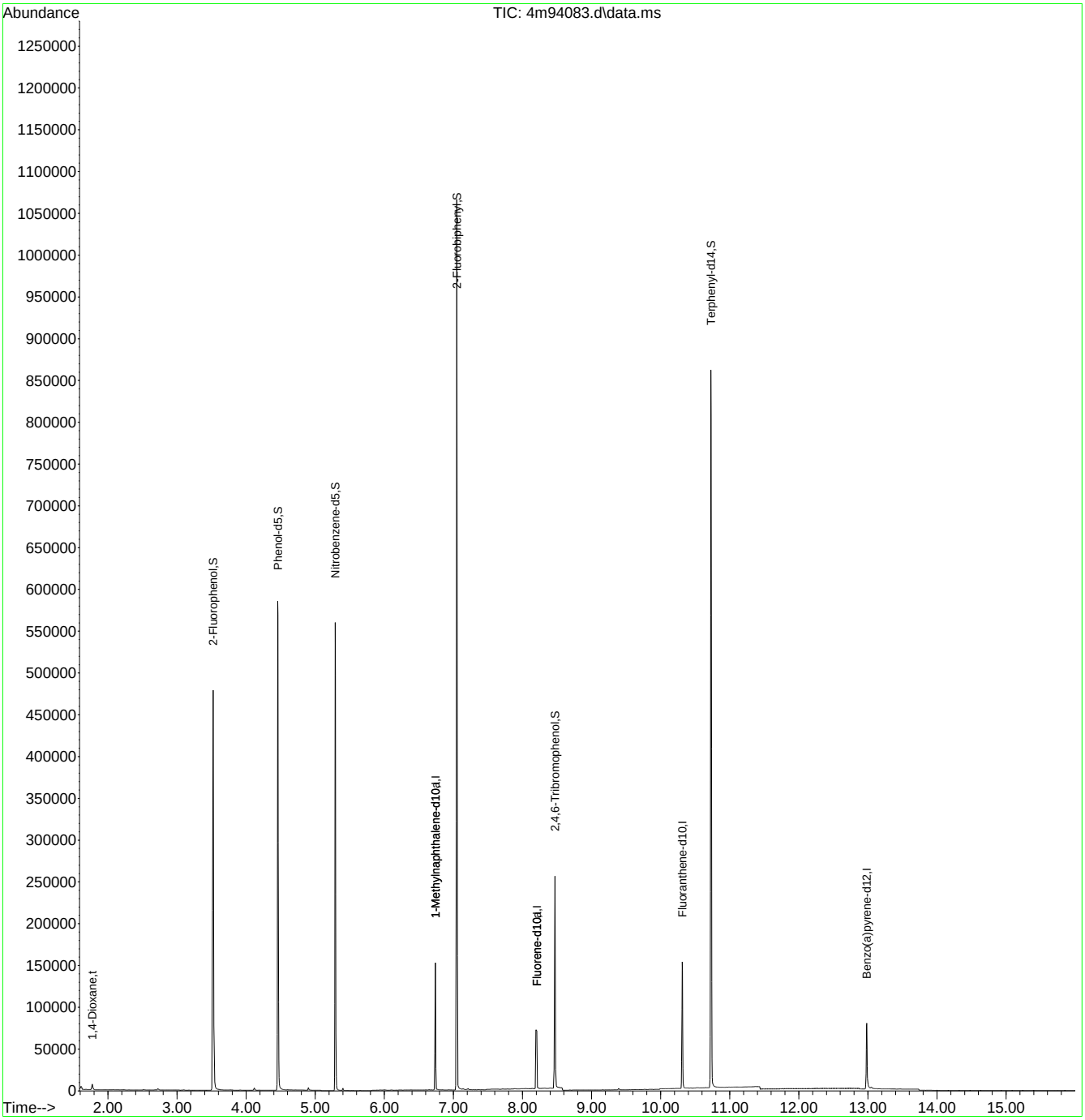
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	6.738	152	48031	4.00	ppm	0.00
12) Fluorene-d10	8.206	176	49521	4.00	ppm	0.00
22) Fluoranthene-d10	10.311	212	96705	4.00	ppm	0.00
28) Benzo(a)pyrene-d12	12.983	264	65091	4.00	ppm	0.00
35) 1-Methylnaphthalene-d10a	6.738	152	48031	4.00	ppm	0.00
38) Fluorene-d10a	8.206	176	49521	4.00	ppm	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	3.523	112	228378	29.97	ppm	0.01
Spiked Amount 50.000	Range 11 - 58		Recovery = 59.94%#			
3) Phenol-d5	4.461	99	301290	30.96	ppm	0.00
Spiked Amount 50.000			Recovery = 61.92%			
6) Nitrobenzene-d5	5.289	82	304359	32.41	ppm	0.00
Spiked Amount 50.000			Recovery = 64.82%			
11) 2-Fluorobiphenyl	7.050	172	571074	33.96	ppm	0.00
Spiked Amount 50.000			Recovery = 67.92%			
17) 2,4,6-Tribromophenol	8.468	330	96686	40.71	ppm	0.00
Spiked Amount 50.000			Recovery = 81.42%			
25) Terphenyl-d14	10.728	244	556553	37.17	ppm	0.00
Spiked Amount 50.000			Recovery = 74.34%			
Target Compounds						Qvalue
36) 1,4-Dioxane	1.774	88	4026	0.91	ppm	# 74

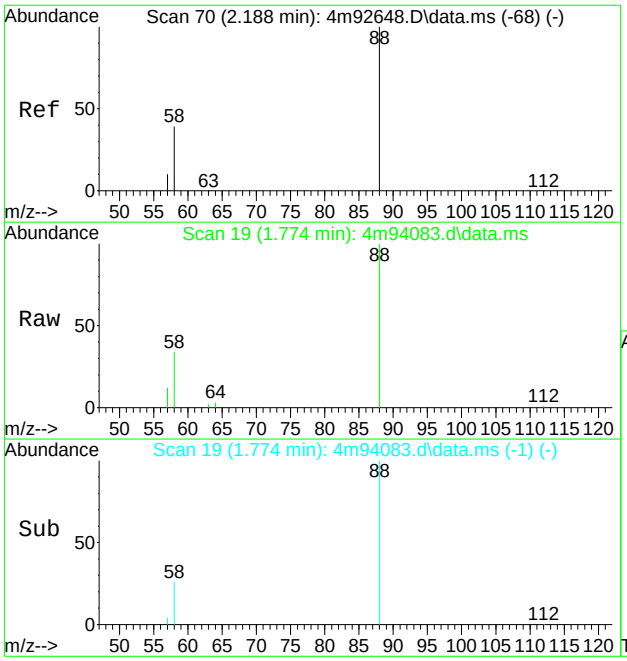
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\data_aimeel\e4m4348\
Data File : 4m94083.d
Acq On : 23 Jul 2020 7:10 am
Operator : chriss2
Sample : jd10244-2 Inst : GCMS4M
Misc : op28540a,e4m4348,1000,,,1,1
ALS Vial : 22 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Results File: M4M4347SIM.RES
Quant Time: Jul 24 04:23:16 2020
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Fri Jul 24 03:13:51 2020
Response via : Initial Calibration

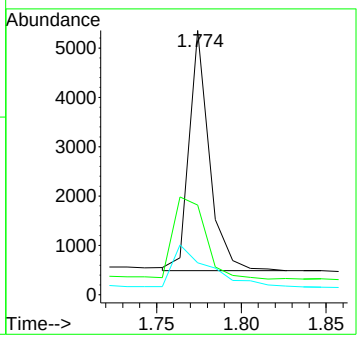




#36
1,4-Dioxane
Concen: 0.91 ppm
RT: 1.774 min Scan# 19
Delta R.T. 0.010 min
Lab File: 4m94083.d
Acq: 23 Jul 2020 7:10 am

Tgt Ion: 88 Resp: 4026

Ion	Ratio	Lower	Upper
88	100		
58	30.6	31.4	71.4#
57	9.9	0.0	35.1



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\data_aimeel\e4m4348\
Data File : 4m94084.d
Acq On : 23 Jul 2020 7:32 am
Operator : chriss2
Sample : jd10244-3 Inst : GCMS4M
Misc : op28540a,e4m4348,1000,,,1,1
ALS Vial : 23 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Results File: M4M4347SIM.RES
Quant Time: Jul 24 04:24:23 2020
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Fri Jul 24 03:13:51 2020
Response via : Initial Calibration

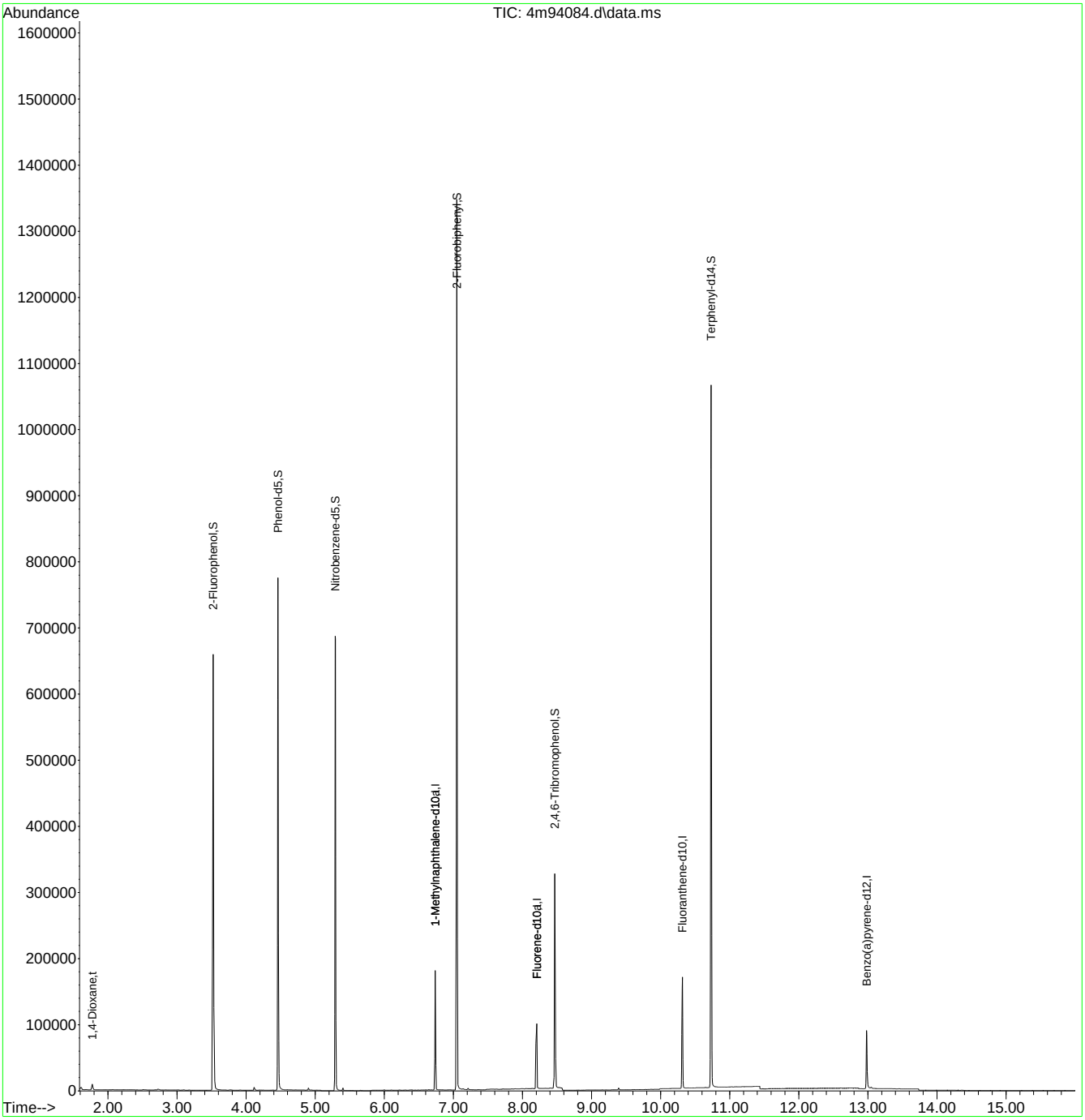
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	6.738	152	58724	4.00	ppm	0.00
12) Fluorene-d10	8.206	176	59438	4.00	ppm	0.00
22) Fluoranthene-d10	10.315	212	108065	4.00	ppm	0.00
28) Benzo(a)pyrene-d12	12.981	264	71007	4.00	ppm	0.00
35) 1-Methylnaphthalene-d10a	6.738	152	58724	4.00	ppm	0.00
38) Fluorene-d10a	8.206	176	59438	4.00	ppm	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	3.523	112	303944	32.62	ppm	0.01
Spiked Amount 50.000	Range 11 - 58		Recovery = 65.24%#			
3) Phenol-d5	4.461	99	395147	33.21	ppm	0.00
Spiked Amount 50.000			Recovery = 66.42%			
6) Nitrobenzene-d5	5.289	82	389319	33.91	ppm	0.00
Spiked Amount 50.000			Recovery = 67.82%			
11) 2-Fluorobiphenyl	7.050	172	720820	35.06	ppm	0.00
Spiked Amount 50.000			Recovery = 70.12%			
17) 2,4,6-Tribromophenol	8.469	330	124993	43.84	ppm	0.00
Spiked Amount 50.000			Recovery = 87.68%			
25) Terphenyl-d14	10.732	244	666111	39.81	ppm	0.00
Spiked Amount 50.000			Recovery = 79.62%			
Target Compounds						Qvalue
36) 1,4-Dioxane	1.774	88	5121	0.95	ppm	# 73

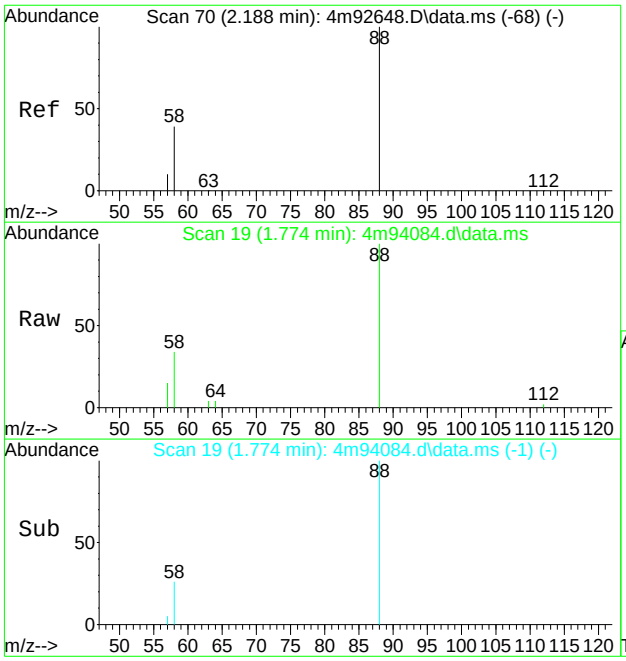
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\data_aimeel\e4m4348\
Data File : 4m94084.d
Acq On : 23 Jul 2020 7:32 am
Operator : chriss2
Sample : jd10244-3 Inst : GCMS4M
Misc : op28540a,e4m4348,1000,,,1,1
ALS Vial : 23 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Results File: M4M4347SIM.RES
Quant Time: Jul 24 04:24:23 2020
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Fri Jul 24 03:13:51 2020
Response via : Initial Calibration

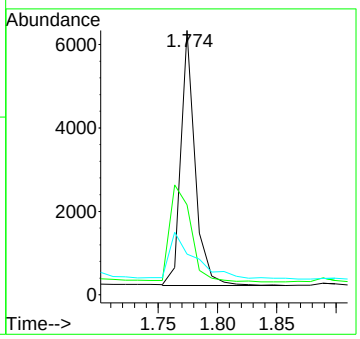




#36
1,4-Dioxane
Concen: 0.95 ppm
RT: 1.774 min Scan# 19
Delta R.T. 0.010 min
Lab File: 4m94084.d
Acq: 23 Jul 2020 7:32 am

Tgt Ion: 88 Resp: 5121

Ion	Ratio	Lower	Upper
88	100		
58	29.9	31.4	71.4#
57	9.3	0.0	35.1



Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
07/24/20 13:02

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\data_aimeel\e4m4348\
Data File : 4m94085.d
Acq On : 23 Jul 2020 7:52 am
Operator : chriss2
Sample : jd10244-4 Inst : GCMS4M
Misc : op28540a,e4m4348,1000,,,1,1
ALS Vial : 24 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Results File: M4M4347SIM.RES
Quant Time: Jul 24 04:26:04 2020
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Fri Jul 24 03:13:51 2020
Response via : Initial Calibration

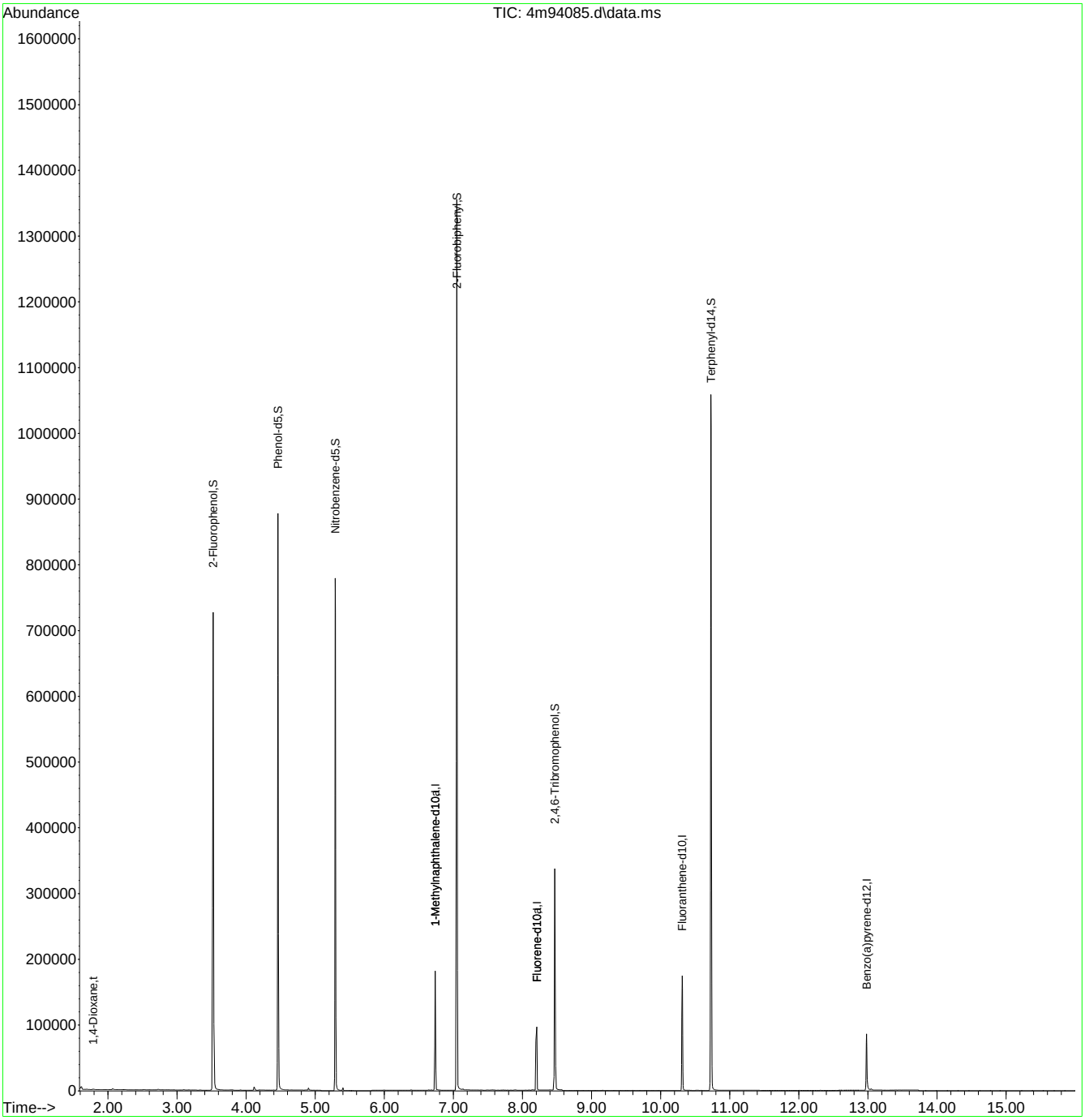
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	6.739	152	61935	4.00	ppm	0.00
12) Fluorene-d10	8.206	176	61181	4.00	ppm	0.00
22) Fluoranthene-d10	10.312	212	110719	4.00	ppm	0.00
28) Benzo(a)pyrene-d12	12.981	264	67611	4.00	ppm	0.00
35) 1-Methylnaphthalene-d10a	6.739	152	61935	4.00	ppm	0.00
38) Fluorene-d10a	8.206	176	61181	4.00	ppm	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	3.523	112	334438	34.04	ppm	0.01
Spiked Amount 50.000	Range 11 - 58		Recovery =	68.08%#		
3) Phenol-d5	4.461	99	426162	33.96	ppm	0.00
Spiked Amount 50.000			Recovery =	67.92%		
6) Nitrobenzene-d5	5.290	82	427125	35.28	ppm	0.00
Spiked Amount 50.000			Recovery =	70.56%		
11) 2-Fluorobiphenyl	7.050	172	757162	34.92	ppm	0.00
Spiked Amount 50.000			Recovery =	69.84%		
17) 2,4,6-Tribromophenol	8.469	330	127657	43.50	ppm	0.00
Spiked Amount 50.000			Recovery =	87.00%		
25) Terphenyl-d14	10.732	244	695644	40.58	ppm	0.00
Spiked Amount 50.000			Recovery =	81.16%		
Target Compounds						Qvalue
36) 1,4-Dioxane	1.785	88	186m	0.03	ppm	

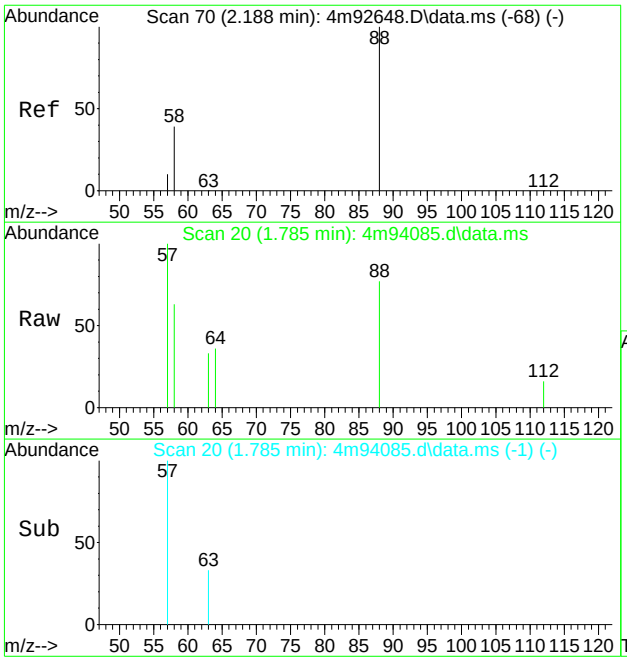
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\data_aimeel\e4m4348\
Data File : 4m94085.d
Acq On : 23 Jul 2020 7:52 am
Operator : chriss2
Sample : jd10244-4 Inst : GCMS4M
Misc : op28540a,e4m4348,1000,,,1,1
ALS Vial : 24 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Results File: M4M4347SIM.RES
Quant Time: Jul 24 04:26:04 2020
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Fri Jul 24 03:13:51 2020
Response via : Initial Calibration

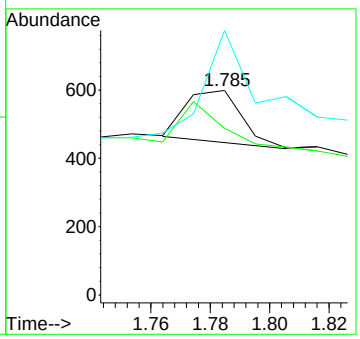




#36
1,4-Dioxane
Concen: 0.03 ppm m
RT: 1.785 min Scan# 20
Delta R.T. 0.021 min
Lab File: 4m94085.d
Acq: 23 Jul 2020 7:52 am

Tgt Ion: 88 Resp: 186

Ion	Ratio	Lower	Upper
88	100		
58	81.5	31.4	71.4#
57	129.4	0.0	35.1#



Manual Integration Approval Summary

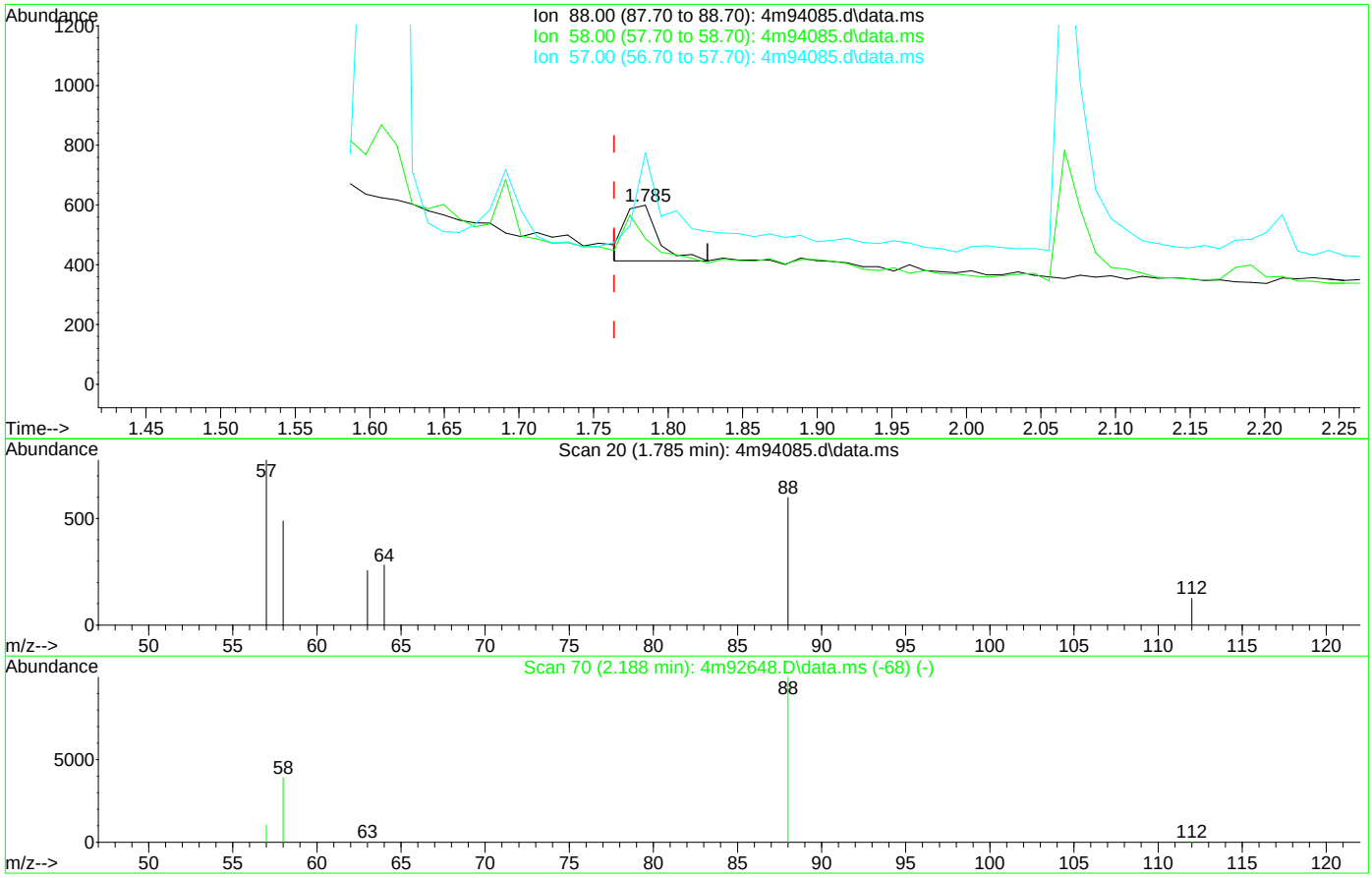
Sample Number: JD10244-4
Lab FileID: 4M94085.D
Injection Time: 07/23/20 07:52
Method: SW846 8270D BY SIM
Analyst approved: 07/24/20 04:41 Aimee Laurente
Supervisor approved: 07/24/20 13:02 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
1,4-Dioxane	123-91-1		1.78	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\data_aimeel\e4m4348\
Data File : 4m94085.d
Acq On : 23 Jul 2020 7:52 am
Operator : chriss2
Sample : jd10244-4 Inst : GCMS4M
Misc : op28540a,e4m4348,1000,,,1,1
ALS Vial : 24 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Results File: M4M4347SIM.RES
Quant Time: Jul 24 03:19:54 2020
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Fri Jul 24 03:13:51 2020
Response via : Initial Calibration



TIC: 4m94085.d\data.ms

(36) 1,4-Dioxane (t)

1.785min (+0.021) 0.05ppm

response 282

Ion	Exp%	Act%
88.00	100	100
58.00	51.40	38.36
57.00	15.10	177.36#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\data_aimeel\e4m4348\
Data File : 4m94086.d
Acq On : 23 Jul 2020 8:13 am
Operator : chriss2
Sample : jd10244-5 Inst : GCMS4M
Misc : op28540a,e4m4348,900,,,1,1
ALS Vial : 25 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Results File: M4M4347SIM.RES
Quant Time: Jul 24 04:27:22 2020
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Fri Jul 24 03:13:51 2020
Response via : Initial Calibration

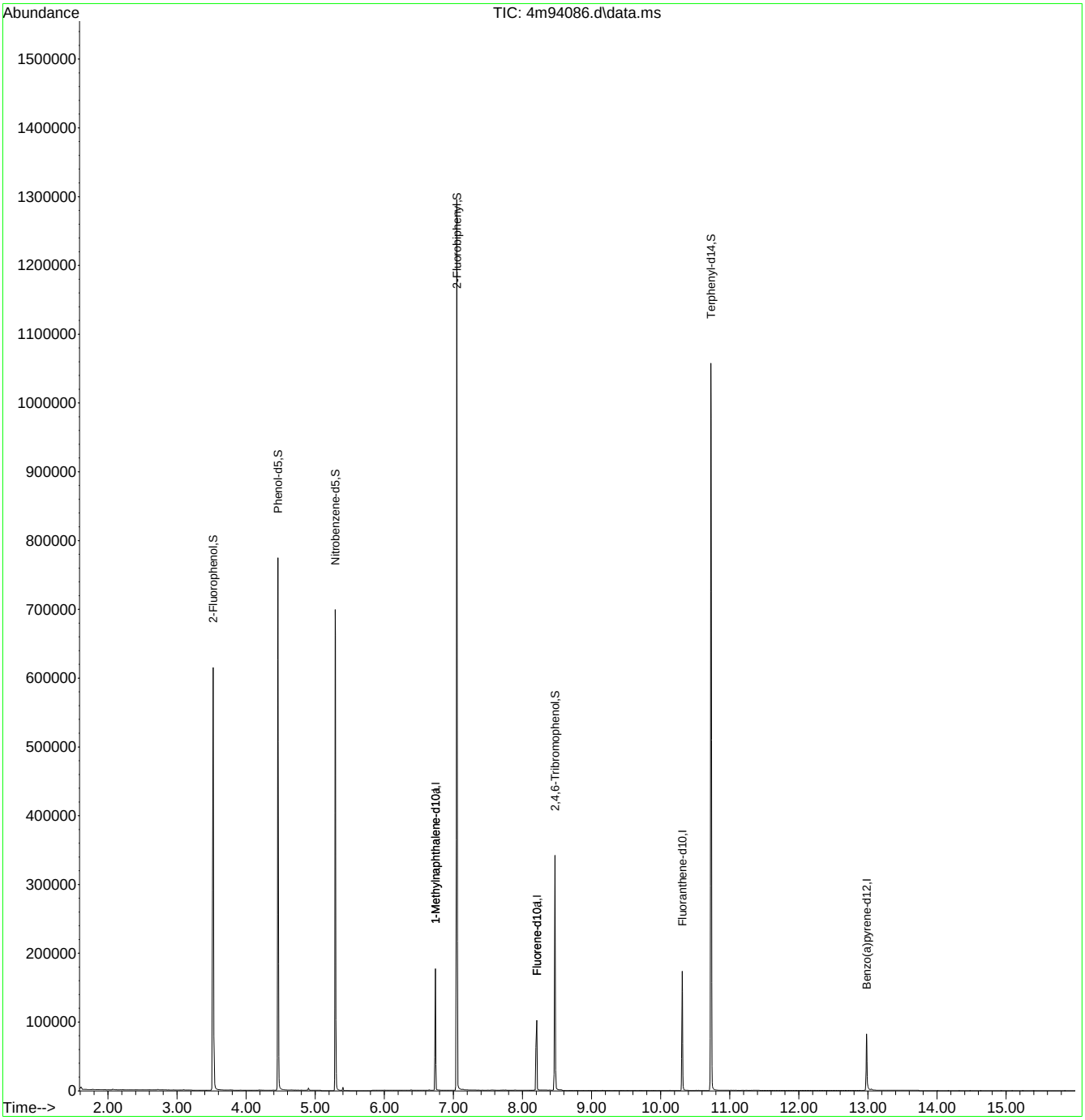
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	6.738	152	57647	4.00	ppm	0.00
12) Fluorene-d10	8.206	176	58386	4.00	ppm	0.00
22) Fluoranthene-d10	10.312	212	108078	4.00	ppm	0.00
28) Benzo(a)pyrene-d12	12.979	264	65490	4.00	ppm	0.00
35) 1-Methylnaphthalene-d10a	6.738	152	57647	4.00	ppm	0.00
38) Fluorene-d10a	8.206	176	58386	4.00	ppm	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	3.523	112	294270	32.18	ppm	0.01
Spiked Amount 50.000	Range 11 - 58		Recovery = 64.36%#			
3) Phenol-d5	4.461	99	383567	32.84	ppm	0.00
Spiked Amount 50.000			Recovery = 65.68%			
6) Nitrobenzene-d5	5.289	82	387541	34.39	ppm	0.00
Spiked Amount 50.000			Recovery = 68.78%			
11) 2-Fluorobiphenyl	7.050	172	696212	34.50	ppm	0.00
Spiked Amount 50.000			Recovery = 69.00%			
17) 2,4,6-Tribromophenol	8.469	330	128299	45.81	ppm	0.00
Spiked Amount 50.000			Recovery = 91.62%			
25) Terphenyl-d14	10.728	244	689112	41.18	ppm	0.00
Spiked Amount 50.000			Recovery = 82.36%			
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\data_aimeel\e4m4348\
Data File : 4m94086.d
Acq On : 23 Jul 2020 8:13 am
Operator : chriss2
Sample : jd10244-5 Inst : GCMS4M
Misc : op28540a,e4m4348,900,,,1,1
ALS Vial : 25 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Results File: M4M4347SIM.RES
Quant Time: Jul 24 04:27:22 2020
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Fri Jul 24 03:13:51 2020
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya 07/27/20 10:14

Quantitation Report (QT Reviewed)

Data Path : Z:\svoa-gcms\completed\00_2020\07_jul\07-24-2020\aimeel\e4m4348
Data File : 4m94065.d
Acq On : 23 Jul 2020 12:49 am
Operator : chriss2
Sample : op28540a-mb1
Misc : op28540a,e4m4348,1000,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 27 10:09:44 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Fri Jul 24 03:13:51 2020
Response via : Initial Calibration

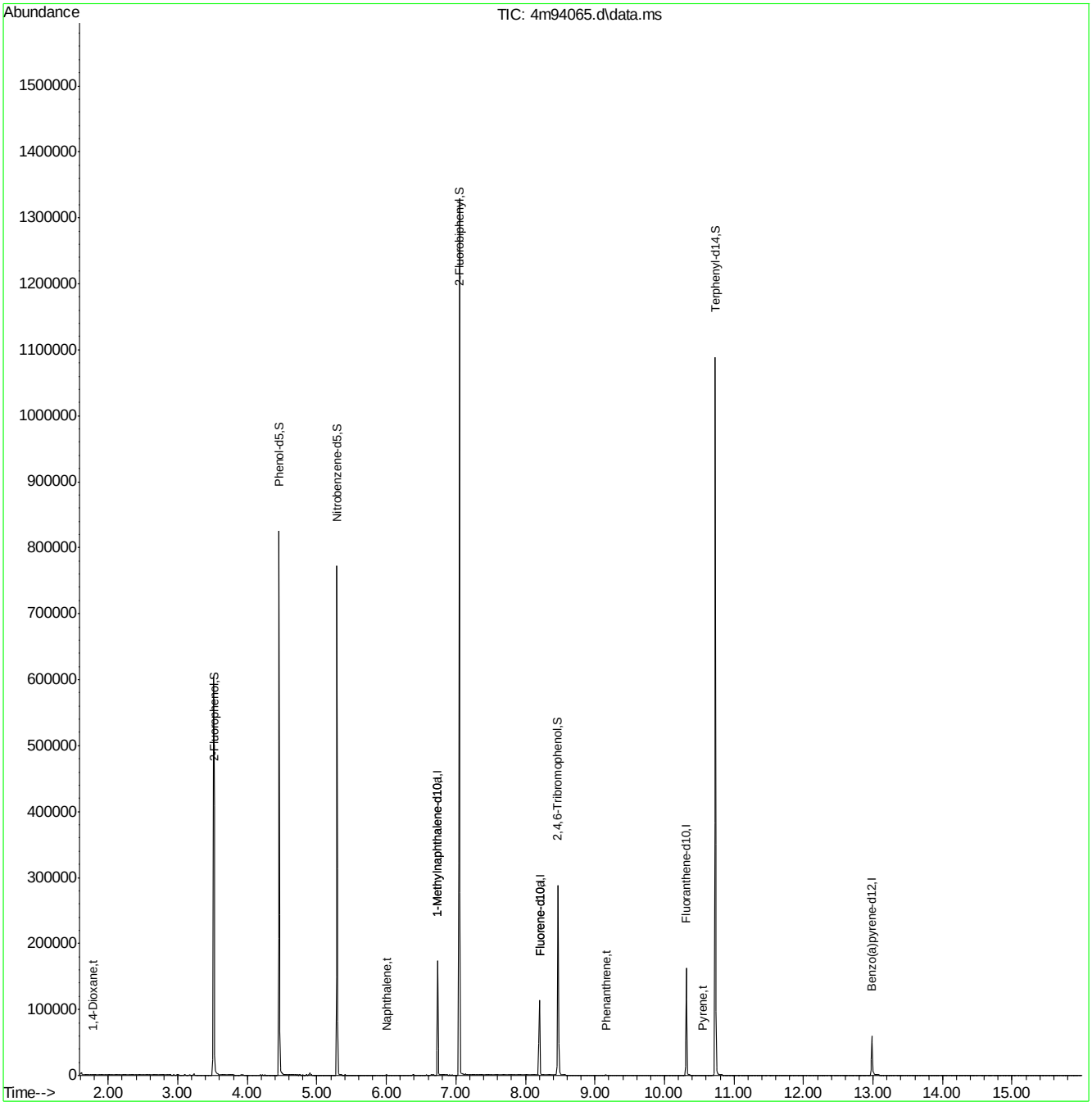
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	6.738	152	54078	4.00	ppm	0.00
12) Fluorene-d10	8.206	176	57702	4.00	ppm	0.00
22) Fluoranthene-d10	10.315	212	98486	4.00	ppm	0.00
28) Benzo(a)pyrene-d12	12.983	264	49466	4.00	ppm	0.00
35) 1-Methylnaphthalene-d10a	6.738	152	54078	4.00	ppm	0.00
38) Fluorene-d10a	8.206	176	57702	4.00	ppm	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	3.523	112	291990	34.03	ppm	0.01
Spiked Amount 50.000	Range 11 - 58		Recovery =	68.06%#		
3) Phenol-d5	4.457	99	389259	35.53	ppm	0.00
Spiked Amount 50.000			Recovery =	71.06%		
6) Nitrobenzene-d5	5.289	82	412960	39.06	ppm	0.00
Spiked Amount 50.000			Recovery =	78.12%		
11) 2-Fluorobiphenyl	7.050	172	708299	37.41	ppm	0.00
Spiked Amount 50.000			Recovery =	74.82%		
17) 2,4,6-Tribromophenol	8.468	330	113244	40.92	ppm	0.00
Spiked Amount 50.000			Recovery =	81.84%		
25) Terphenyl-d14	10.731	244	665050	43.61	ppm	0.00
Spiked Amount 50.000			Recovery =	87.22%		
Target Compounds						Qvalue
7) Naphthalene	6.001	128	137	0.01	ppm	97
20) Phenanthrene	9.157	178	236	0.01	ppm	98
24) Pyrene	10.550	202	166	0.01	ppm	93
36) 1,4-Dioxane	1.774	88	225m	0.05	ppm	

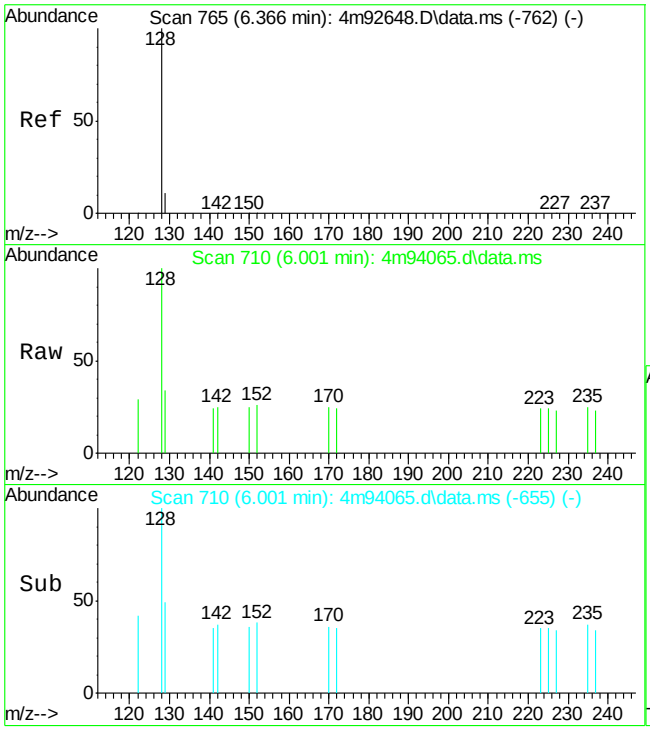
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : Z:\svoa-gcms\completed\00_2020\07_jul\07-24-2020\aimeel\e4m4348\
Data File : 4m94065.d
Acq On : 23 Jul 2020 12:49 am
Operator : chriss2
Sample : op28540a-mb1
Misc : op28540a,e4m4348,1000,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 27 10:09:44 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Fri Jul 24 03:13:51 2020
Response via : Initial Calibration

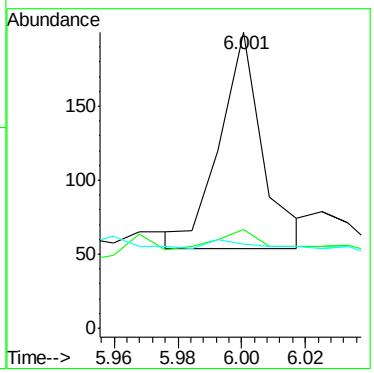


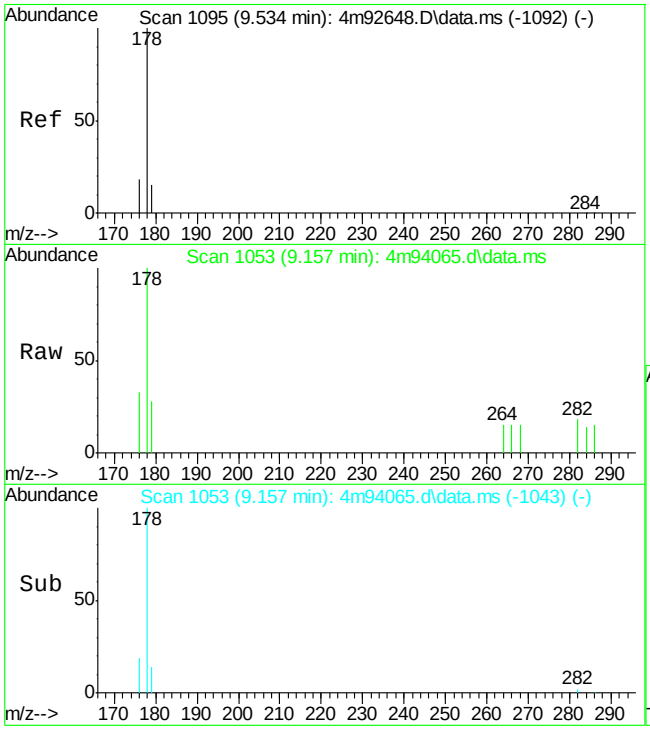


#7
Naphthalene
Concen: 0.01 ppm
RT: 6.001 min Scan# 710
Delta R.T. -0.000 min
Lab File: 4m94065.d
Acq: 23 Jul 2020 12:49 am

Tgt Ion:128 Resp: 137

Ion	Ratio	Lower	Upper
128	100		
129	10.0	0.0	41.2
122	1.5	0.0	30.1

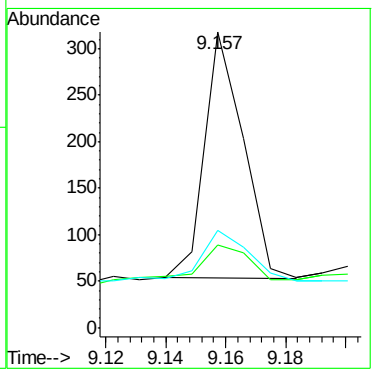


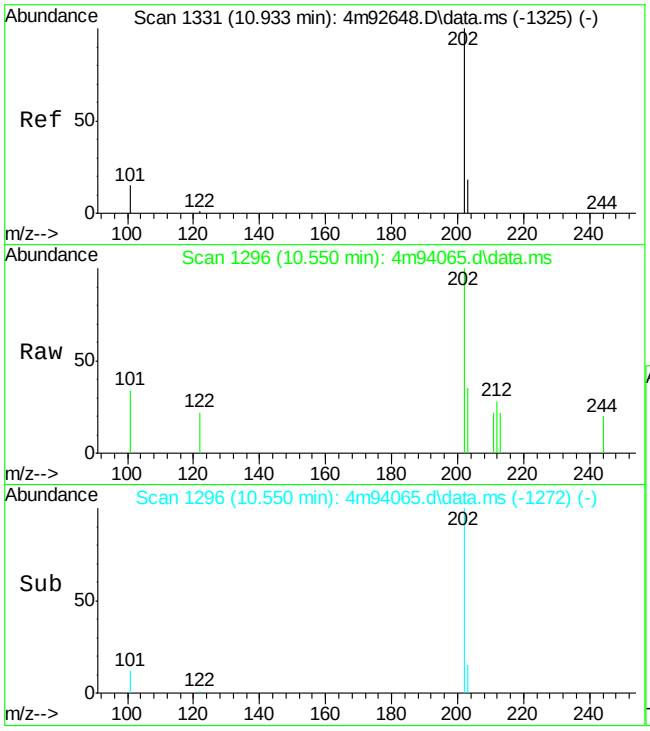


#20
Phenanthrene
Concen: 0.01 ppm
RT: 9.157 min Scan# 1053
Delta R.T. -0.000 min
Lab File: 4m94065.d
Acq: 23 Jul 2020 12:49 am

Tgt Ion:178 Resp: 236

Ion	Ratio	Lower	Upper
178	100		
179	13.6	0.0	44.7
176	20.3	0.0	49.4

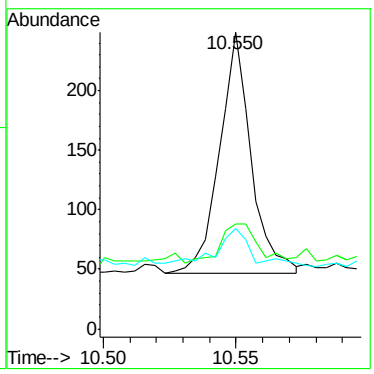


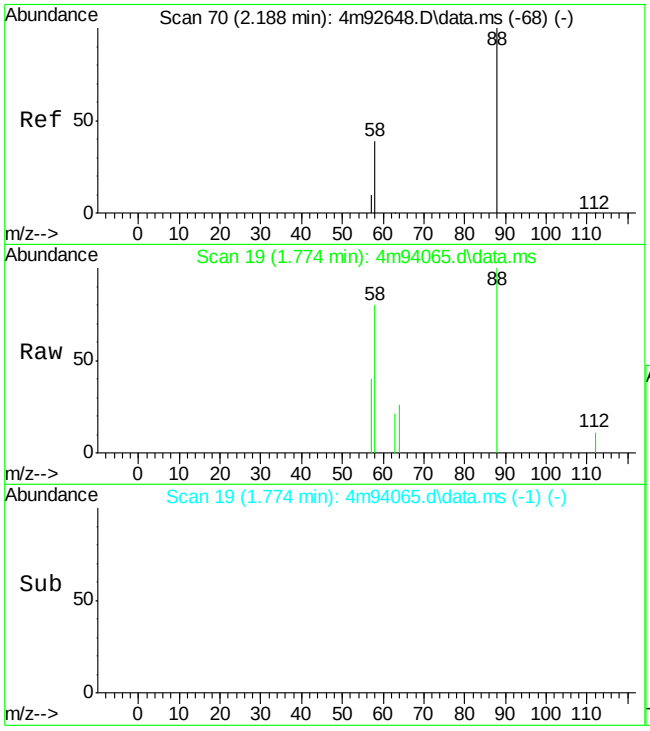


#24
Pyrene
Concen: 0.01 ppm
RT: 10.550 min Scan# 1296
Delta R.T. -0.000 min
Lab File: 4m94065.d
Acq: 23 Jul 2020 12:49 am

Tgt Ion:202 Resp: 166

Ion	Ratio	Lower	Upper
202	100		
203	14.3	0.0	47.6
101	14.5	0.0	42.3

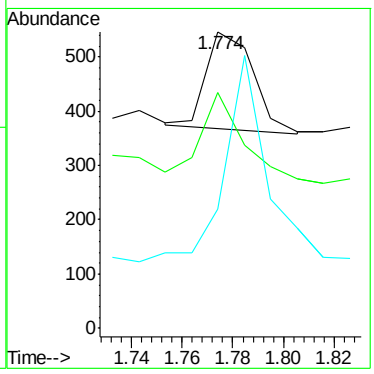




#36
1,4-Dioxane
Concen: 0.05 ppm m
RT: 1.774 min Scan# 19
Delta R.T. 0.010 min
Lab File: 4m94065.d
Acq: 23 Jul 2020 12:49 am

Tgt Ion: 88 Resp: 225

Ion	Ratio	Lower	Upper
88	100		
58	79.7	31.4	71.4#
57	40.3	0.0	35.1#



Manual Integration Approval Summary

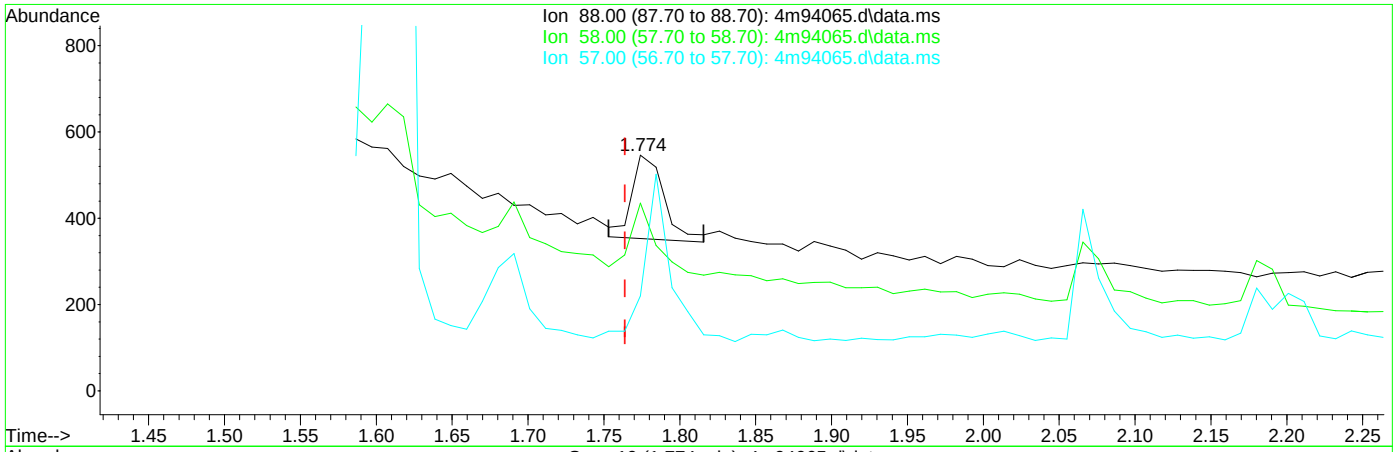
Sample Number: OP28540A-MB1
Lab FileID: 4M94065.D
Injection Time: 07/23/20 00:49
Method: SW846 8270D BY SIM
Analyst approved: 07/24/20 04:41 Aimee Laurente
Supervisor approved: 07/27/20 10:14 Nina Pandya

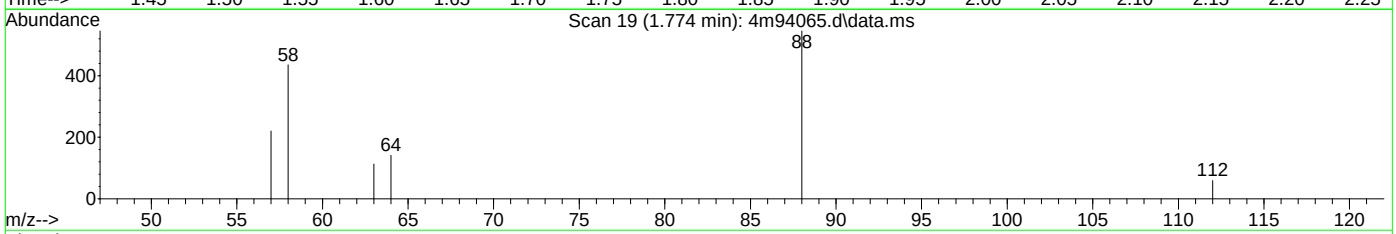
Parameter	CAS	Sig#	R.T. (min.)	Reason
1,4-Dioxane	123-91-1		1.77	Poor instrument integration

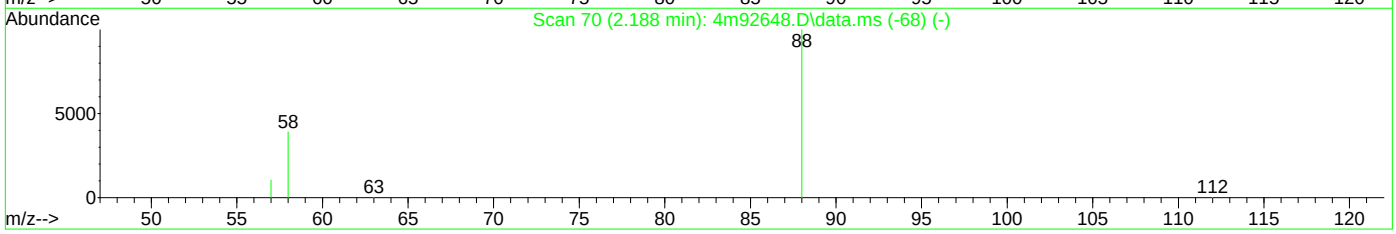
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\data_aimeel\e4m4348\
Data File : 4m94065.d
Acq On : 23 Jul 2020 12:49 am
Operator : chriss2
Sample : op28540a-mb1 Inst : GCMS4M
Misc : op28540a,e4m4348,1000,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Results File: M4M4347SIM.RES
Quant Time: Jul 24 03:18:16 2020
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Fri Jul 24 03:13:51 2020
Response via : Initial Calibration







TIC: 4m94065.d\data.ms

(36) 1,4-Dioxane (t)

1.774min (+0.010) 0.06ppm

response 282

Ion	Exp%	Act%
88.00	100	100
58.00	51.40	89.46#
57.00	15.10	49.00#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\data_aimeel\e4m4348\
Data File : 4m94066.d
Acq On : 23 Jul 2020 1:11 am
Operator : chriss2
Sample : op28540a-bs12 Inst : GCMS4M
Misc : op28540a,e4m4348,1000,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Results File: M4M4347SIM.RES
Quant Time: Jul 24 03:31:50 2020
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Fri Jul 24 03:13:51 2020
Response via : Initial Calibration

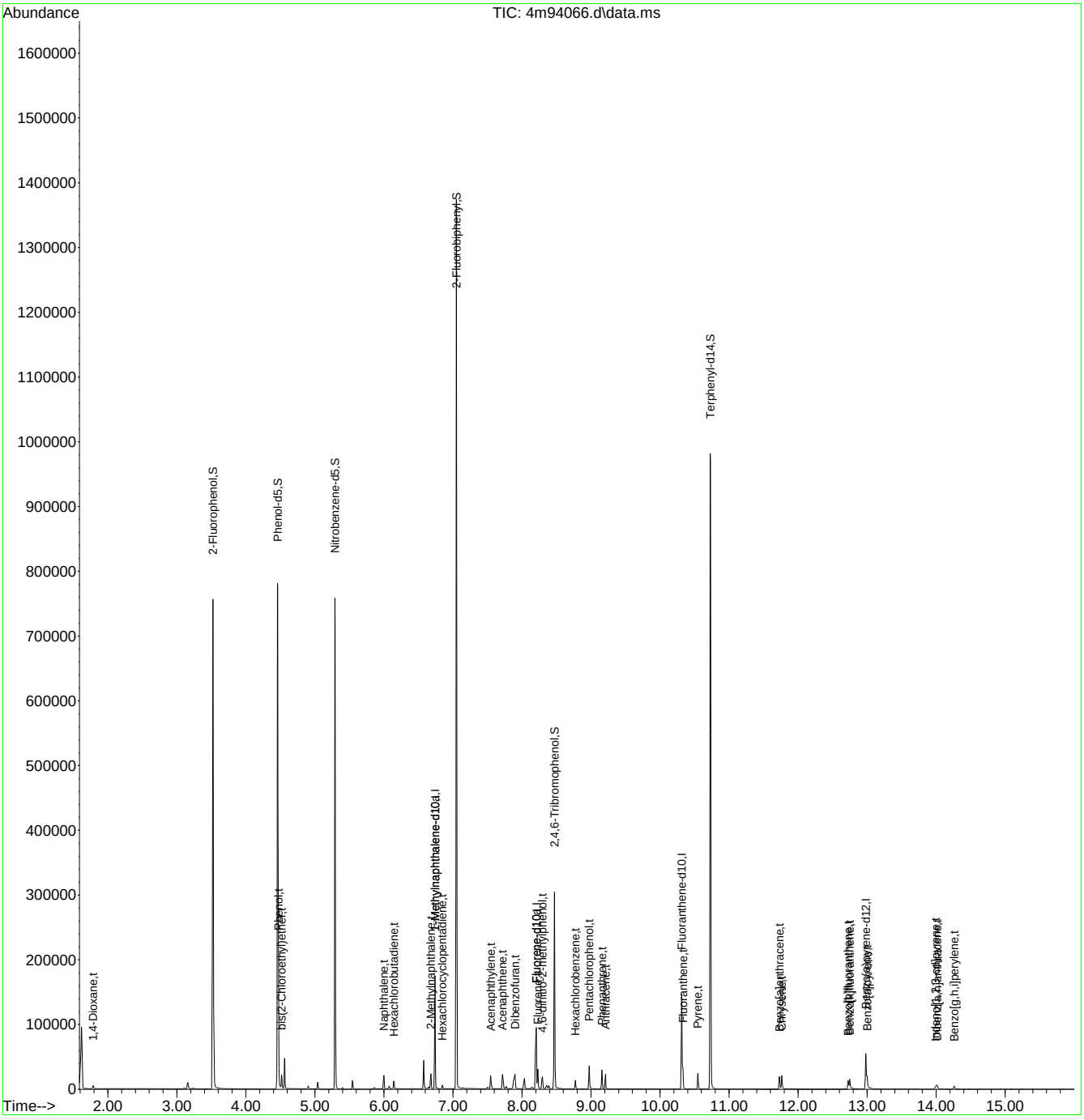
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1-Methylnaphthalene-d10	6.738	152	54395	4.00	ppm		0.00
12) Fluorene-d10	8.206	176	54874	4.00	ppm		0.00
22) Fluoranthene-d10	10.312	212	93514	4.00	ppm		0.00
28) Benzo(a)pyrene-d12	12.979	264	47292	4.00	ppm		0.00
35) 1-Methylnaphthalene-d10a	6.738	152	54395	4.00	ppm		0.00
38) Fluorene-d10a	8.206	176	54874	4.00	ppm		0.00
System Monitoring Compounds							
2) 2-Fluorophenol	3.523	112	321437	37.25	ppm		0.01
Spiked Amount 50.000	Range 11 - 58		Recovery = 74.50%#				
3) Phenol-d5	4.461	99	388302	35.23	ppm		0.00
Spiked Amount 50.000			Recovery = 70.46%				
6) Nitrobenzene-d5	5.289	82	416808	39.20	ppm		0.00
Spiked Amount 50.000			Recovery = 78.40%				
11) 2-Fluorobiphenyl	7.050	172	713785	37.48	ppm		0.00
Spiked Amount 50.000			Recovery = 74.96%				
17) 2,4,6-Tribromophenol	8.469	330	114841	43.63	ppm		0.00
Spiked Amount 50.000			Recovery = 87.26%				
25) Terphenyl-d14	10.732	244	651345	44.98	ppm		0.00
Spiked Amount 50.000			Recovery = 89.96%				
Target Compounds							Qvalue
4) Phenol	4.472	94	60937	5.18	ppm		89
5) bis(2-Chloroethyl)ether	4.518	93	6033	0.66	ppm		91
7) Naphthalene	6.001	128	17056	0.62	ppm		99
8) Hexachlorobutadiene	6.140	225	4046	0.63	ppm		99
9) 2-Methylnaphthalene	6.681	142	10932	0.66	ppm		98
10) Hexachlorocyclopentadiene	6.845	237	2734	0.51	ppm		100
13) Acenaphthylene	7.544	152	13875	0.57	ppm		99
14) Acenaphthene	7.716	153	9270	0.59	ppm	#	67
15) Dibenzofuran	7.898	168	15845	0.69	ppm		88
16) Fluorene	8.229	166	11981	0.62	ppm		97
18) Hexachlorobenzene	8.774	284	4378	0.65	ppm		97
19) Pentachlorophenol	8.975	266	15181	4.88	ppm		96
20) Phenanthrene	9.157	178	16680	0.64	ppm		100
21) Anthracene	9.210	178	14158	0.60	ppm		100
23) Fluoranthene	10.330	202	19345	0.64	ppm		98
24) Pyrene	10.546	202	16398	0.61	ppm		98
26) Benzo[a]anthracene	11.730	228	11068	0.59	ppm		99
27) Chrysene	11.765	228	14556	0.65	ppm		99
29) Benzo[b]fluoranthene	12.724	252	8462	0.55	ppm		95
30) Benzo[k]fluoranthene	12.747	252	11618	0.67	ppm		98
31) Benzo[a]pyrene	12.998	252	11000	0.62	ppm		99
32) Indeno[1,2,3-cd]pyrene	13.995	276	7715	0.51	ppm		87
33) Dibenz[a,h]anthracene	14.011	278	6010	0.47	ppm		98
34) Benzo[g,h,i]perylene	14.260	276	7152	0.55	ppm		99
36) 1,4-Dioxane	1.785	88	2844	0.57	ppm		94
39) 4,6-dinitro-2-methylph...	8.297	198	11318	4.47	ppm		96

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\data_aimeel\e4m4348\
Data File : 4m94066.d
Acq On : 23 Jul 2020 1:11 am
Operator : chriss2
Sample : op28540a-bs12 Inst : GCMS4M
Misc : op28540a,e4m4348,1000,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Results File: M4M4347SIM.RES
Quant Time: Jul 24 03:31:50 2020
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Fri Jul 24 03:13:51 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\data_aimeel\e4m4348\
Data File : 4m94078.d
Acq On : 23 Jul 2020 5:25 am
Operator : chriss2
Sample : op28540a-msa Inst : GCMS4M
Misc : op28540a,e4m4348,1000,,,1,1
ALS Vial : 17 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Results File: M4M4347SIM.RES
Quant Time: Jul 24 04:10:15 2020
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Fri Jul 24 03:13:51 2020
Response via : Initial Calibration

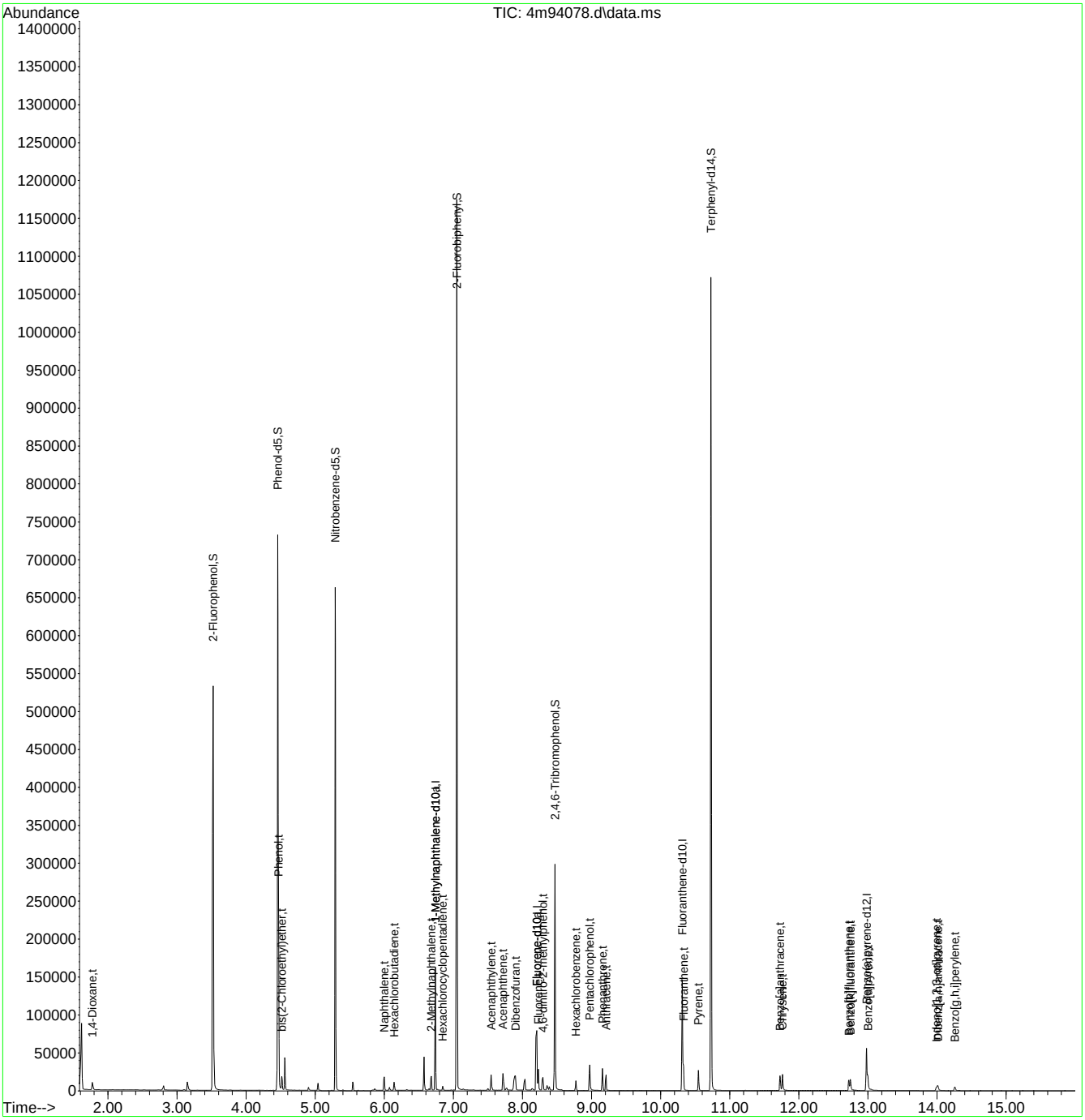
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1-Methylnaphthalene-d10	6.738	152	52396	4.00	ppm		0.00
12) Fluorene-d10	8.206	176	52815	4.00	ppm		0.00
22) Fluoranthene-d10	10.311	212	91491	4.00	ppm		0.00
28) Benzo(a)pyrene-d12	12.979	264	45875	4.00	ppm		0.00
35) 1-Methylnaphthalene-d10a	6.738	152	52396	4.00	ppm		0.00
38) Fluorene-d10a	8.206	176	52815	4.00	ppm		0.00
System Monitoring Compounds							
2) 2-Fluorophenol	3.523	112	267316	32.16	ppm		0.01
Spiked Amount 50.000	Range 11 - 58		Recovery = 64.32%#				
3) Phenol-d5	4.457	99	344760	32.47	ppm		0.00
Spiked Amount 50.000			Recovery = 64.94%				
6) Nitrobenzene-d5	5.289	82	359808	35.13	ppm		0.00
Spiked Amount 50.000			Recovery = 70.26%				
11) 2-Fluorobiphenyl	7.050	172	642509	35.03	ppm		0.00
Spiked Amount 50.000			Recovery = 70.06%				
17) 2,4,6-Tribromophenol	8.468	330	112869	44.55	ppm		0.00
Spiked Amount 50.000			Recovery = 89.10%				
25) Terphenyl-d14	10.728	244	650395	45.91	ppm		0.00
Spiked Amount 50.000			Recovery = 91.82%				
Target Compounds							Qvalue
4) Phenol	4.468	94	57193	5.05	ppm		98
5) bis(2-Chloroethyl)ether	4.517	93	5291	0.60	ppm		94
7) Naphthalene	6.001	128	15431	0.59	ppm		99
8) Hexachlorobutadiene	6.140	225	3489	0.57	ppm		98
9) 2-Methylnaphthalene	6.681	142	9791	0.61	ppm		98
10) Hexachlorocyclopentadiene	6.845	237	2254	0.44	ppm		100
13) Acenaphthylene	7.544	152	13198	0.56	ppm		99
14) Acenaphthene	7.715	153	8582	0.57	ppm	#	68
15) Dibenzofuran	7.898	168	14889	0.68	ppm		73
16) Fluorene	8.229	166	11114	0.60	ppm		97
18) Hexachlorobenzene	8.774	284	4188	0.64	ppm		97
19) Pentachlorophenol	8.974	266	16153	5.36	ppm		92
20) Phenanthrene	9.157	178	16695	0.67	ppm		99
21) Anthracene	9.210	178	14317	0.63	ppm		99
23) Fluoranthene	10.330	202	19795	0.67	ppm		98
24) Pyrene	10.546	202	16879	0.64	ppm		98
26) Benzo[a]anthracene	11.727	228	11111	0.61	ppm		99
27) Chrysene	11.762	228	14519	0.67	ppm		100
29) Benzo[b]fluoranthene	12.724	252	8486	0.57	ppm		94
30) Benzo[k]fluoranthene	12.747	252	11665	0.69	ppm		98
31) Benzo[a]pyrene	12.998	252	10993	0.63	ppm		97
32) Indeno[1,2,3-cd]pyrene	13.991	276	8063	0.55	ppm		99
33) Dibenz[a,h]anthracene	14.011	278	6243	0.51	ppm		96
34) Benzo[g,h,i]perylene	14.257	276	7472	0.59	ppm		99
36) 1,4-Dioxane	1.774	88	5452	1.13	ppm		91
39) 4,6-dinitro-2-methylph...	8.297	198	10658	4.39	ppm		92

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\data_aimeel\e4m4348\
Data File : 4m94078.d
Acq On : 23 Jul 2020 5:25 am
Operator : chriss2
Sample : op28540a-msa Inst : GCMS4M
Misc : op28540a,e4m4348,1000,,,1,1
ALS Vial : 17 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Results File: M4M4347SIM.RES
Quant Time: Jul 24 04:10:15 2020
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Fri Jul 24 03:13:51 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\data_aimeel\e4m4348\
Data File : 4m94079.d
Acq On : 23 Jul 2020 5:46 am
Operator : chriss2
Sample : op28540a-msda Inst : GCMS4M
Misc : op28540a,e4m4348,1000,,,1,1
ALS Vial : 18 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Results File: M4M4347SIM.RES
Quant Time: Jul 24 04:12:19 2020
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Fri Jul 24 03:13:51 2020
Response via : Initial Calibration

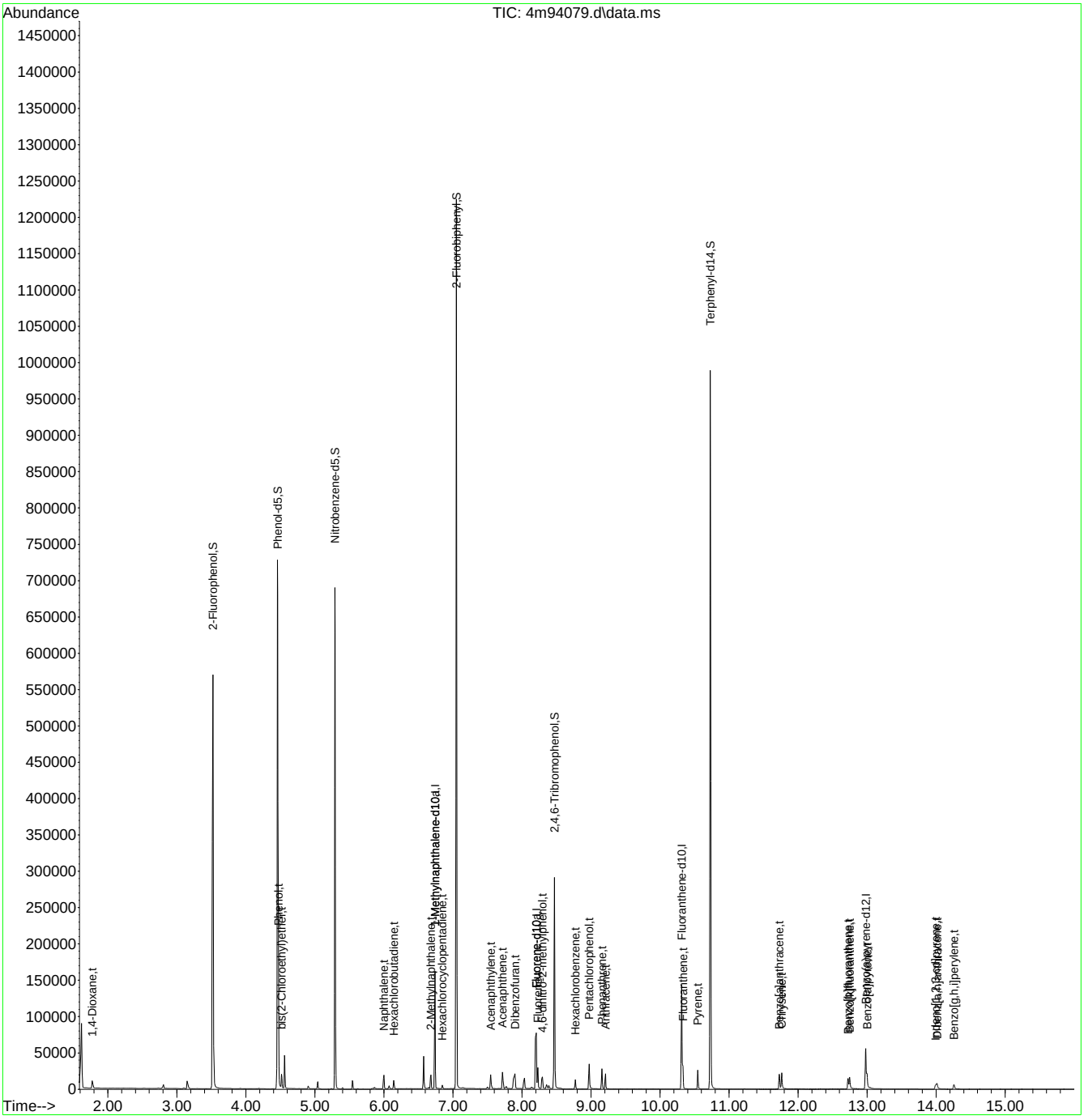
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1-Methylnaphthalene-d10	6.738	152	51943	4.00	ppm		0.00
12) Fluorene-d10	8.206	176	51803	4.00	ppm		0.00
22) Fluoranthene-d10	10.311	212	89594	4.00	ppm		0.00
28) Benzo(a)pyrene-d12	12.979	264	48066	4.00	ppm		0.00
35) 1-Methylnaphthalene-d10a	6.738	152	51943	4.00	ppm		0.00
38) Fluorene-d10a	8.206	176	51803	4.00	ppm		0.00
System Monitoring Compounds							
2) 2-Fluorophenol	3.523	112	281234	34.13	ppm		0.01
Spiked Amount 50.000	Range 11 - 58		Recovery = 68.26%#				
3) Phenol-d5	4.461	99	361847	34.38	ppm		0.00
Spiked Amount 50.000			Recovery = 68.76%				
6) Nitrobenzene-d5	5.289	82	377781	37.20	ppm		0.00
Spiked Amount 50.000			Recovery = 74.40%				
11) 2-Fluorobiphenyl	7.050	172	655417	36.04	ppm		0.00
Spiked Amount 50.000			Recovery = 72.08%				
17) 2,4,6-Tribromophenol	8.468	330	109377	44.02	ppm		0.00
Spiked Amount 50.000			Recovery = 88.04%				
25) Terphenyl-d14	10.728	244	622118	44.84	ppm		0.00
Spiked Amount 50.000			Recovery = 89.68%				
Target Compounds							Qvalue
4) Phenol	4.472	94	60629	5.40	ppm		85
5) bis(2-Chloroethyl)ether	4.517	93	5597	0.65	ppm		94
7) Naphthalene	6.001	128	15585	0.60	ppm		99
8) Hexachlorobutadiene	6.140	225	3674	0.60	ppm		100
9) 2-Methylnaphthalene	6.681	142	9786	0.62	ppm		99
10) Hexachlorocyclopentadiene	6.845	237	2288	0.45	ppm		94
13) Acenaphthylene	7.544	152	12891	0.56	ppm		99
14) Acenaphthene	7.716	153	8572	0.58	ppm	#	69
15) Dibenzofuran	7.898	168	14778	0.68	ppm		81
16) Fluorene	8.229	166	11342	0.62	ppm		98
18) Hexachlorobenzene	8.774	284	4233	0.66	ppm		96
19) Pentachlorophenol	8.974	266	15965	5.40	ppm		93
20) Phenanthrene	9.157	178	16117	0.66	ppm		99
21) Anthracene	9.210	178	13349	0.60	ppm		99
23) Fluoranthene	10.330	202	19172	0.67	ppm		99
24) Pyrene	10.546	202	15929	0.61	ppm		98
26) Benzo[a]anthracene	11.727	228	12081	0.67	ppm		98
27) Chrysene	11.762	228	15298	0.72	ppm		100
29) Benzo[b]fluoranthene	12.724	252	9950	0.63	ppm		96
30) Benzo[k]fluoranthene	12.747	252	13005	0.74	ppm		99
31) Benzo[a]pyrene	12.998	252	11981	0.66	ppm		98
32) Indeno[1,2,3-cd]pyrene	13.991	276	9691	0.63	ppm		98
33) Dibenz[a,h]anthracene	14.011	278	7527	0.58	ppm		99
34) Benzo[g,h,i]perylene	14.257	276	9264	0.70	ppm		100
36) 1,4-Dioxane	1.774	88	5647	1.19	ppm		74
39) 4,6-dinitro-2-methylph...	8.297	198	10263	4.32	ppm		92

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\data_aimeel\e4m4348\
Data File : 4m94079.d
Acq On : 23 Jul 2020 5:46 am
Operator : chriss2
Sample : op28540a-msda Inst : GCMS4M
Misc : op28540a,e4m4348,1000,,,1,1
ALS Vial : 18 Sample Multiplier: 1

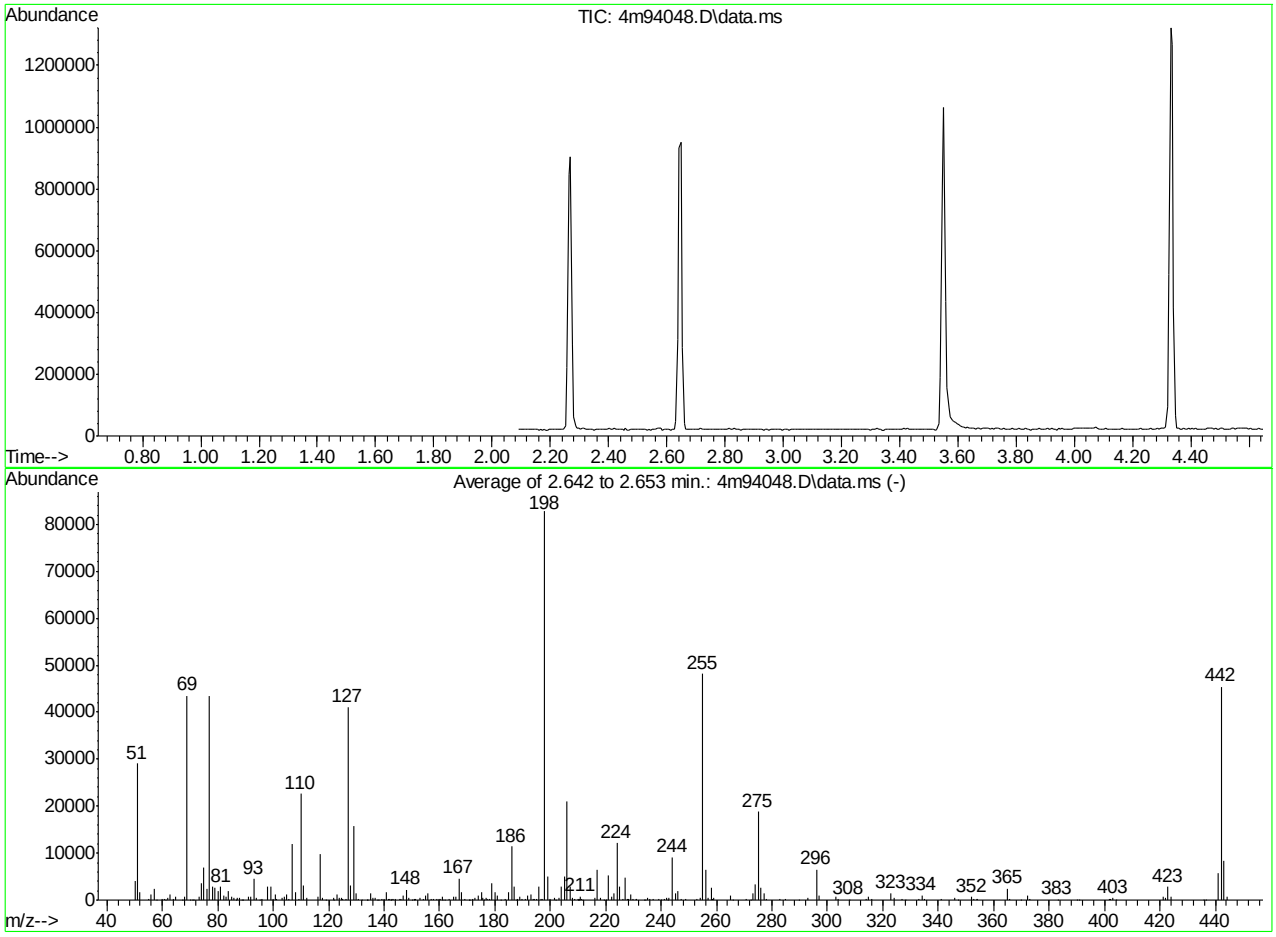
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Results File: M4M4347SIM.RES
Quant Time: Jul 24 04:12:19 2020
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Fri Jul 24 03:13:51 2020
Response via : Initial Calibration



DFTPP

Data File : C:\msdchem\1\DATA\E4M4347\4m94048.D Vial: 1
Acq On : 22 Jul 2020 8:29 am Operator: angelar
Sample : dftpp Inst : GCMS4M
Misc : op25425a,e4m4347,1000,,,1,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\METHODS\dftpp4m.m (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5 30m x .25mm x .50um



AutoFind: Scans 97, 98, 99; Background Corrected with Scan 92

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	35.2	29114	PASS
68	69	0.00	2	1.5	661	PASS
69	198	0.00	100	52.7	43569	PASS
70	69	0.00	2	0.2	105	PASS
127	198	40	60	49.7	41100	PASS
197	198	0.00	1	0.3	226	PASS
198	198	100	100	100.0	82752	PASS
199	198	5	9	6.0	4964	PASS
275	198	10	30	22.8	18845	PASS
365	198	1	100	2.9	2419	PASS
441	443	0.01	100	68.2	5621	PASS
442	198	40	100	54.9	45419	PASS
443	442	17	23	18.2	8245	PASS

4m94048.D dftpp4m.m Wed Jul 22 12:26:42 2020

Average of 2.642 to 2.653 min.: 4m94048.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
50.00	4187	62.90	1225	75.00	6837	85.90	519
51.00	29114	63.95	194	76.00	2392	86.80	101
52.00	1625	64.95	669	77.00	43463	87.05	586
55.05	251	67.00	125	78.00	2824	87.90	548
55.95	1103	67.95	661	78.95	2592	88.80	105
57.00	2439	69.00	43569	79.95	1933	89.10	74
57.90	68	69.90	105	81.00	2774	91.00	753
60.10	209	70.90	86	82.00	951	91.95	627
60.75	254	71.10	72	83.10	671	93.00	4484
61.20	102	73.05	628	83.90	1884	94.00	376
62.00	495	74.00	3579	84.80	621	94.90	78

Average of 2.642 to 2.653 min.: 4m94048.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
95.95	311	107.95	1788	123.00	1095	133.90	117
98.00	2938	109.10	183	123.85	534	134.10	83
99.00	2954	110.00	22654	124.75	418	135.00	1509
100.00	176	111.00	3089	125.20	193	136.00	416
100.90	1254	111.95	426	126.05	215	136.85	441
101.10	168	115.95	843	127.00	41100	137.60	89
103.00	484	117.00	9891	128.00	3005	138.10	72
103.95	717	117.90	491	129.00	15751	139.10	157
105.00	1231	118.90	83	130.00	1498	140.00	238
105.80	210	121.70	123	130.90	221	140.95	1560
107.00	11931	121.95	543	132.00	85	141.80	257

Average of 2.642 to 2.653 min.: 4m94048.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
142.00	344	150.80	257	160.10	283	170.90	110
142.60	85	151.10	122	160.90	841	171.80	283
142.90	194	151.40	165	161.10	110	172.95	594
143.10	185	153.00	407	161.90	71	174.00	871
143.90	133	154.00	366	163.65	145	175.00	1665
145.70	139	154.95	974	164.95	764	175.80	508
146.00	255	155.95	1392	165.95	698	176.10	70
146.95	872	156.90	255	167.00	4542	176.90	603
147.95	2166	157.95	367	167.95	1630	177.10	132
149.00	371	159.00	203	168.95	354	177.95	348
150.10	68	159.90	367	170.60	90	178.95	3616

Average of 2.642 to 2.653 min.: 4m94048.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
180.00	1783	191.00	303	199.95	364	210.00	303
180.95	889	191.95	1081	201.40	451	210.30	239
182.00	126	192.95	1103	201.80	101	210.50	116
183.80	297	193.90	150	203.00	496	210.90	751
185.00	1648	194.10	145	204.00	2816	211.10	156
186.00	11381	194.95	189	205.05	5126	211.50	104
187.00	2930	195.95	2936	206.00	20972	215.95	477
187.80	94	196.80	226	207.00	2989	217.00	6419
188.00	225	197.10	205	208.05	523	218.00	607
188.85	642	198.00	82752	208.95	345	219.20	96
189.90	158	199.00	4964	209.80	119	220.10	115

Average of 2.642 to 2.653 min.: 4m94048.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
221.00	5231	230.90	295	242.20	70	256.95	449
222.05	799	231.10	156	242.95	601	257.95	2637
223.00	1358	233.70	86	244.05	9142	258.70	157
224.00	12166	234.10	125	245.00	1343	259.05	401

dftpp4m.m Wed Jul 22 12:26:34 2020 Page: 0

225.00	2902	234.95	497	246.00	1825	265.05	955
226.10	345	235.95	299	247.05	314	266.00	69
226.95	4713	236.90	359	248.85	271	270.85	334
227.80	221	238.95	232	252.80	198	272.10	88
228.00	310	239.90	83	253.90	602	272.95	1518
229.00	1163	240.95	249	255.00	48123	274.00	3369
229.90	201	241.90	521	256.00	6462	275.00	18845

Average of 2.642 to 2.653 min.: 4m94048.D\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
276.00	2712	307.80	85	341.10	265	373.00	364
277.00	1516	314.00	235	346.00	449	383.00	105
277.85	209	314.95	710	347.00	91	390.00	70
283.00	206	316.00	342	352.05	706	391.00	74
285.00	288	323.00	1505	352.90	342	401.80	190
289.80	72	323.95	422	353.95	302	402.05	342
293.00	413	326.80	220	354.20	172	403.05	438
296.00	6461	328.00	98	365.00	2419	404.00	95
297.00	892	332.80	185	365.90	336	421.00	656
302.95	672	334.00	1007	370.00	70	422.05	428
303.90	136	334.95	302	372.10	932	423.00	2831

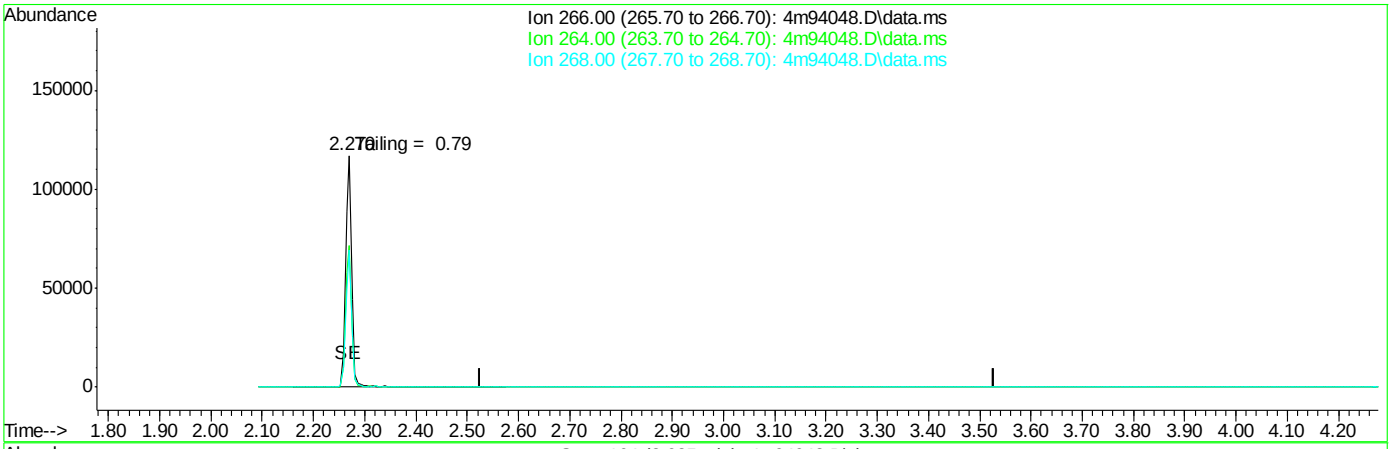
Average of 2.642 to 2.653 min.: 4m94048.D\data.ms
dftpp
Modified:subtracted

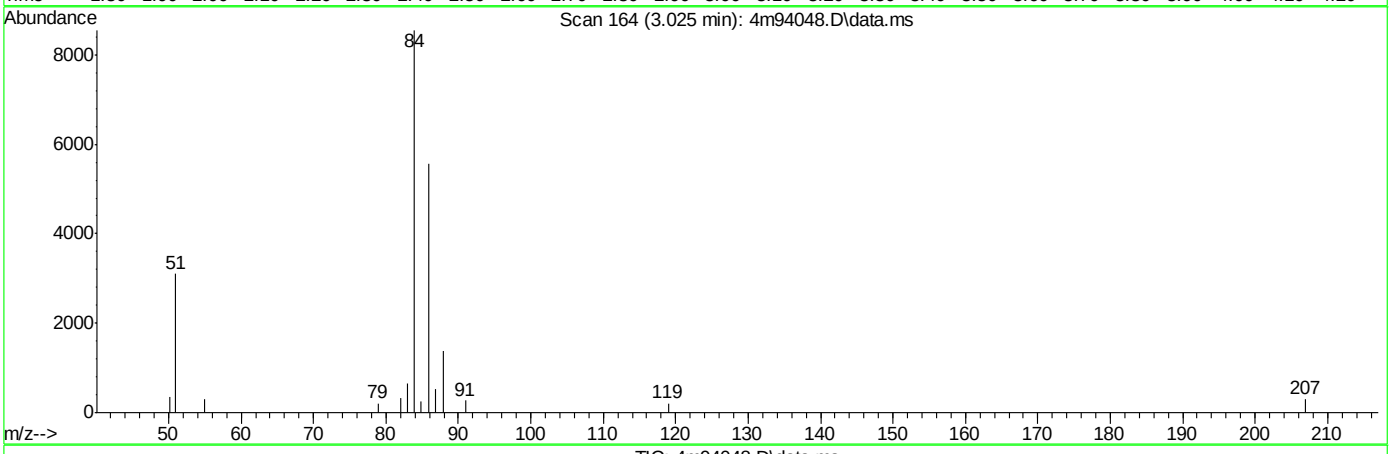
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
423.90	648						
435.60	68						
436.40	109						
441.00	5621						
442.05	45419						
443.00	8245						
444.05	841						

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94048.D
Acq On : 22 Jul 2020 8:29 am
Operator : angelar
Sample : dftpp
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 22 08:36:33 2020
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP4M.M
Quant Title : Semi Volatile GC/MS,zb-5 30m x .25mm x .50um
QLast Update : Sun Apr 05 12:14:16 2020
Response via : Initial Calibration





TIC: 4m94048.D\data.ms

(1) pentachlorophenol (t)

3.027min (-3.027) 0.00ng

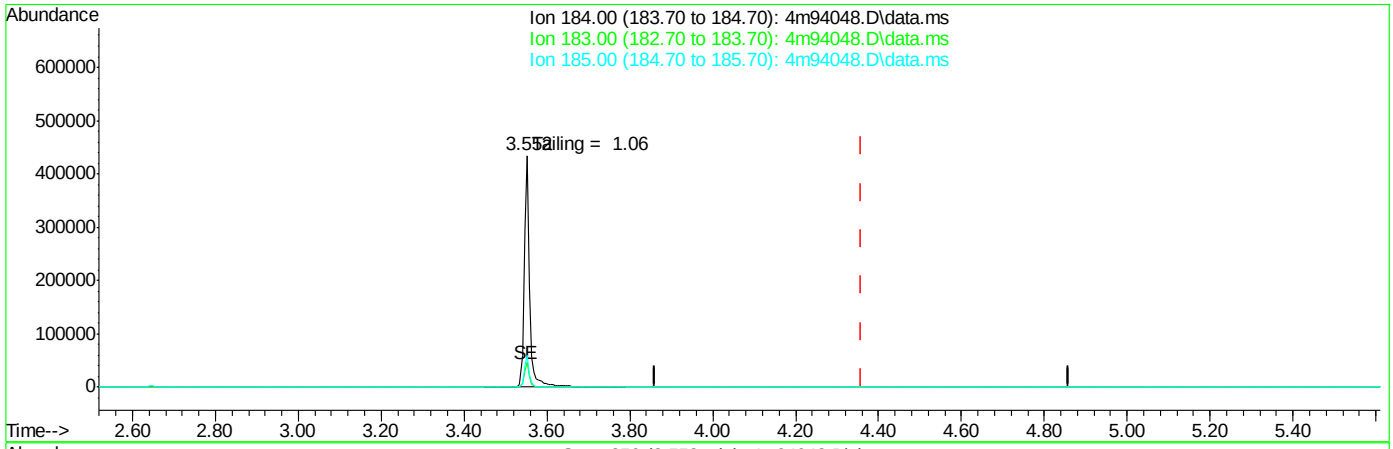
response 0

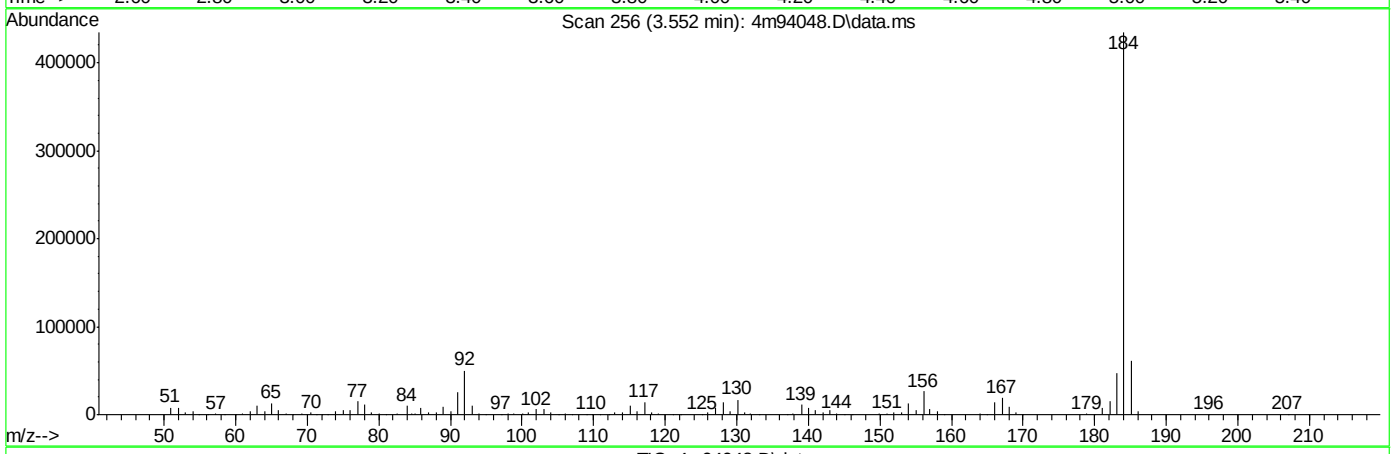
Ion	Exp%	Act%
266.00	100	0.00
264.00	66.80	0.00#
268.00	69.50	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94048.D
Acq On : 22 Jul 2020 8:29 am
Operator : angelar
Sample : dftpp
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 22 08:36:33 2020
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP4M.M
Quant Title : Semi Volatile GC/MS,zb-5 30m x .25mm x .50um
QLast Update : Sun Apr 05 12:14:16 2020
Response via : Initial Calibration





TIC: 4m94048.D\data.ms

(2) benzidine (t)

3.552min (-0.809) 6.78ng m

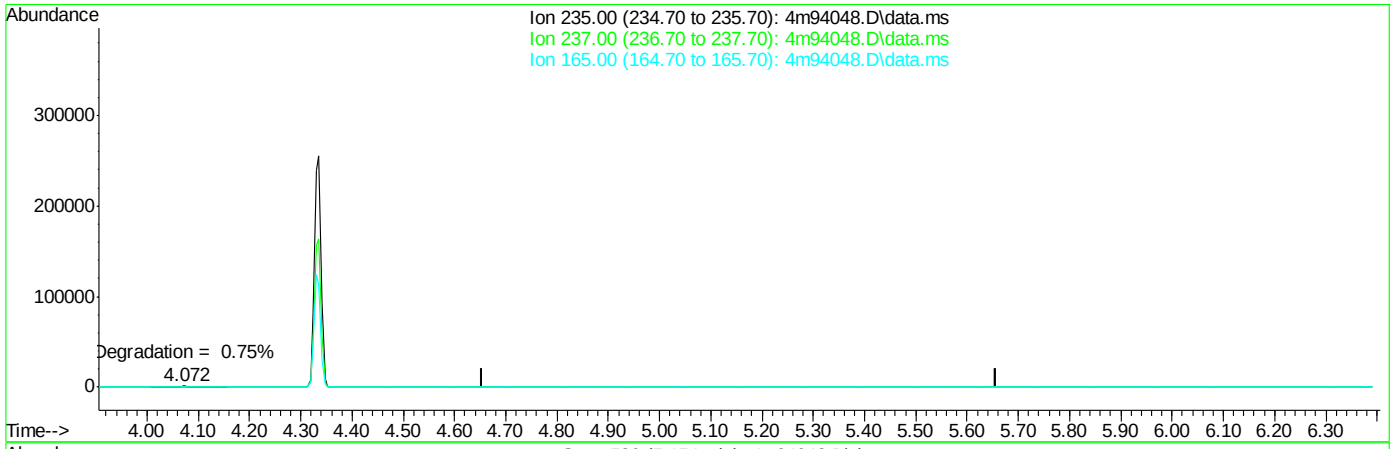
response 404472

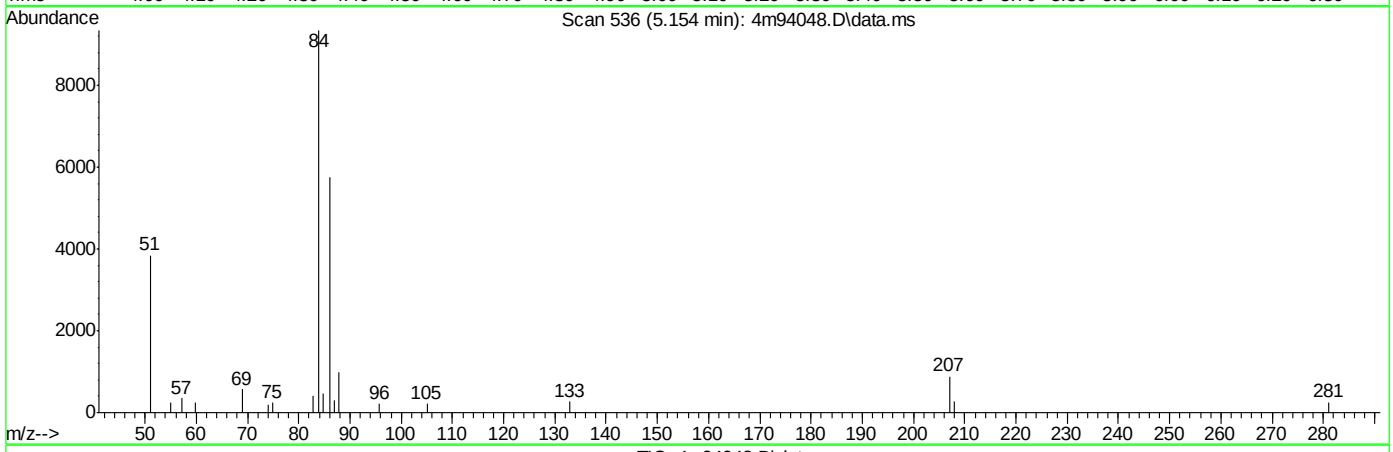
Ion	Exp%	Act%
184.00	100	100
183.00	11.80	0.00#
185.00	13.50	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94048.D
Acq On : 22 Jul 2020 8:29 am
Operator : angelar
Sample : dftpp
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 22 08:36:33 2020
Quant Method : C:\MSDCHEM\1\METHODS\DFTPP4M.M
Quant Title : Semi Volatile GC/MS,zb-5 30m x .25mm x .50um
QLast Update : Sun Apr 05 12:14:16 2020
Response via : Initial Calibration





TIC: 4m94048.D\data.ms

(3) ddt (t)

5.156min (-5.156) 0.00ng

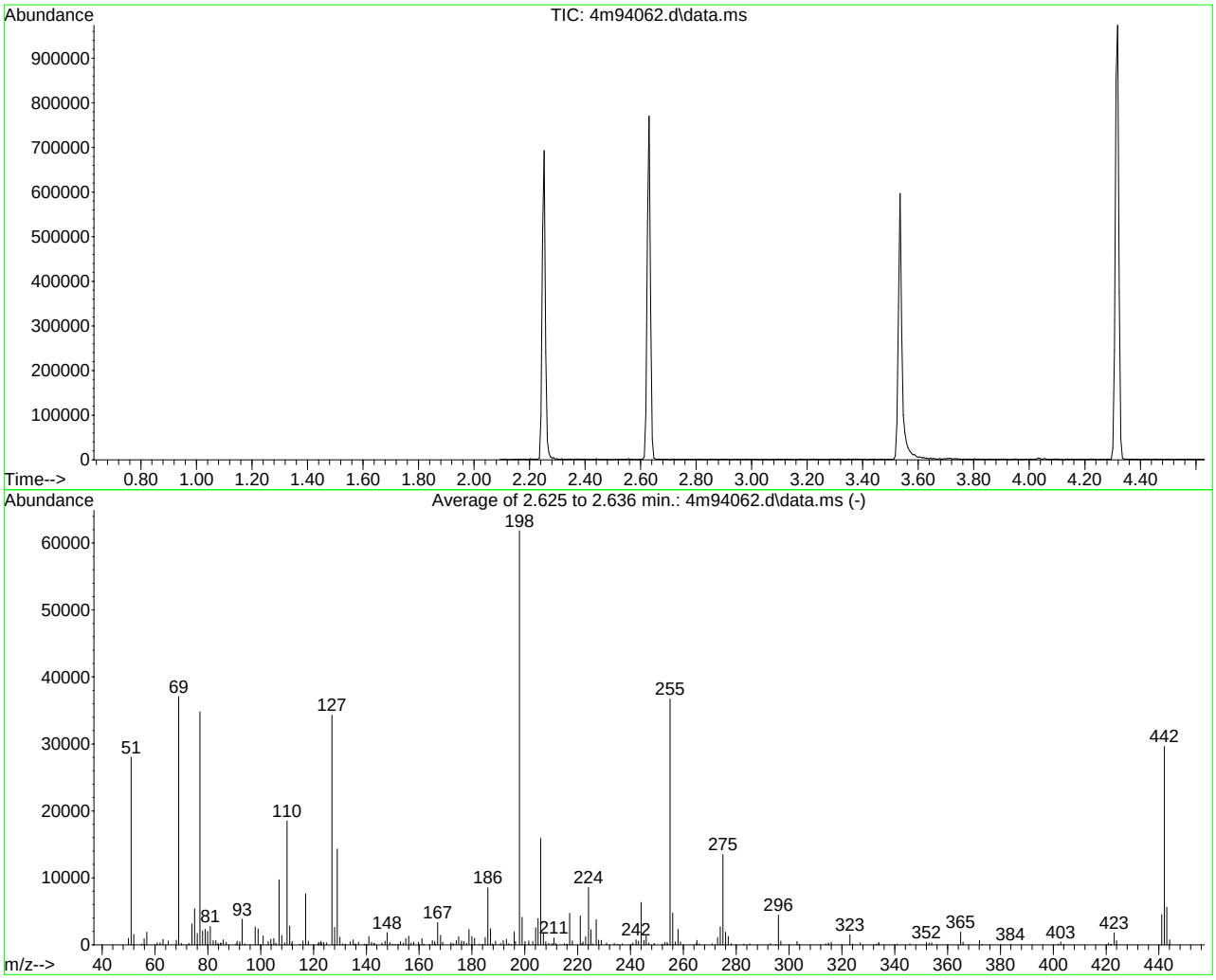
response 0

Ion	Exp%	Act%
235.00	100	0.00
237.00	65.90	0.00#
165.00	44.70	0.00#
0.00	0.00	0.00

DFTPP

Data File : C:\msdchem\1\data\da...eel\e4m4348\4m94062.d Vial: 1
Acq On : 22 Jul 2020 11:29 pm Operator: chriss2
Sample : dftpp Inst : GCMS4M
Misc : op25425a,e4m4348,1000,,,1,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\DFTPP4M.M (RTE Integrator)
Title : Semi Volatile GC/MS,zb-5 30m x .25mm x .50um



AutoFind: Scans 94, 95, 96; Background Corrected with Scan 89

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	45.3	28030	PASS
68	69	0.00	2	1.9	700	PASS
69	198	0.00	100	59.9	37064	PASS
70	69	0.00	2	0.6	222	PASS
127	198	40	60	55.5	34323	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	61827	PASS
199	198	5	9	6.6	4091	PASS
275	198	10	30	21.8	13464	PASS
365	198	1	100	3.0	1868	PASS
441	443	0.01	100	80.3	4521	PASS
442	198	40	100	47.9	29621	PASS
443	442	17	23	19.0	5628	PASS

4m94062.d DFTPP4M.M Thu Jul 23 22:15:14 2020

Average of 2.625 to 2.636 min.: 4m94062.d\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
50.00	961	69.00	37064	80.95	2704	92.05	471
51.00	28030	70.00	222	82.00	601	93.00	3822
52.00	1562	72.80	123	83.05	598	94.00	135
55.00	108	73.00	154	83.80	208	97.95	2687
55.85	895	74.00	3098	83.90	69	99.00	2379
56.95	1871	75.00	5383	84.80	228	99.90	71
60.85	280	76.05	1694	84.95	254	100.90	1321
61.95	300	77.00	34767	85.90	745	102.85	515
63.00	798	78.00	2074	86.95	394	103.90	825
65.00	565	79.00	2331	90.70	135	104.95	929
68.05	700	79.95	2010	91.05	531	105.80	273

Average of 2.625 to 2.636 min.: 4m94062.d\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
107.00	9684	121.80	142	131.00	151	142.85	192
107.95	1395	121.95	365	132.00	95	143.10	216
109.05	291	122.70	314	133.95	475	145.90	241
110.00	18520	122.90	552	135.05	753	147.05	545
110.95	2791	123.10	172	135.60	121	147.90	1789
111.70	92	123.90	332	135.90	121	148.90	351
111.90	496	124.95	298	137.05	369	149.90	92
114.90	70	127.00	34323	139.20	97	150.90	72
116.05	571	127.95	2584	140.10	108	152.00	109
117.00	7618	129.00	14301	140.95	1256	152.90	452
118.00	536	129.95	1119	141.95	367	154.05	272

Average of 2.625 to 2.636 min.: 4m94062.d\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
154.95	952	167.00	3322	177.95	225	190.85	208
156.05	1309	168.05	1429	178.90	2276	191.85	616
156.90	257	168.95	363	180.00	1234	193.05	814
157.90	385	172.05	284	180.95	986	193.95	181
159.75	395	172.80	199	182.80	86	194.90	71
161.05	938	173.00	107	184.00	88	195.90	1907
161.80	111	174.05	634	184.95	1111	196.50	491
164.00	72	174.90	1194	186.00	8507	198.00	61827
164.95	630	175.70	88	187.00	2393	198.95	4091
165.90	486	176.05	592	187.80	143	200.05	503
166.10	97	176.95	511	188.90	525	201.45	563

Average of 2.625 to 2.636 min.: 4m94062.d\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
201.80	74	211.70	194	225.00	2244	242.05	733
202.95	491	214.90	188	225.70	127	243.05	529
204.05	2573	215.90	70	227.00	3763	244.00	6336
205.00	3904	216.10	105	227.90	701	245.10	655
206.05	15876	216.95	4718	228.90	674	245.95	1450
207.00	1753	218.00	586	230.95	264	246.90	241
207.90	466	220.95	4323	233.90	213	248.90	207
209.05	236	221.60	187	235.00	89	252.00	99
210.10	70	222.00	421	236.90	129	253.00	340
210.40	180	222.95	1190	240.20	73	253.85	328
211.00	1011	224.10	8562	240.85	242	254.10	101

Average of 2.625 to 2.636 min.: 4m94062.d\data.ms
dftpp
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
255.00	36733	275.00	13464	303.80	99	334.00	344
256.00	4737	276.00	1895	313.90	146	340.90	83
257.00	404	276.95	1271	314.90	273	345.80	131
258.00	2296	278.10	161	315.10	136	351.95	345
258.90	403	282.90	106	316.00	373	352.95	264
264.90	183	285.10	146	323.05	1486	353.95	319
265.10	659	293.00	170	323.90	73	364.95	1868
266.00	158	295.00	78	324.10	115	365.85	383
270.90	126	295.95	4427	326.95	286	372.05	631
273.00	1111	296.90	527	333.00	86	373.00	77
274.00	2681	303.00	506	333.80	123	383.90	70

Average of 2.625 to 2.636 min.: 4m94062.d\data.ms

M4P2005SIM.M Thu Jul 23 21:48:08 2020

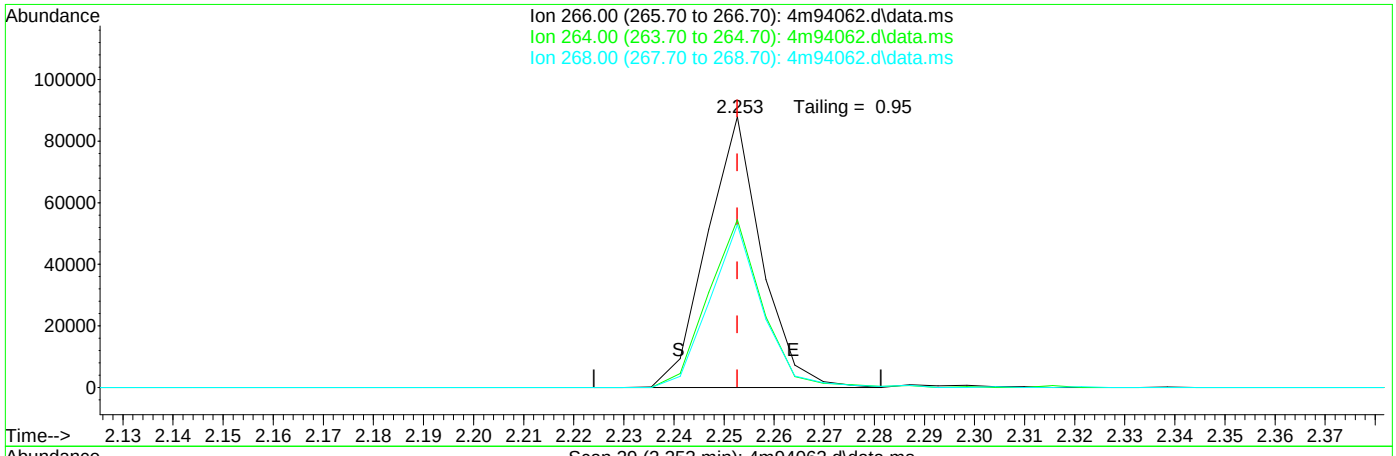
dftpp
Modified:subtracted

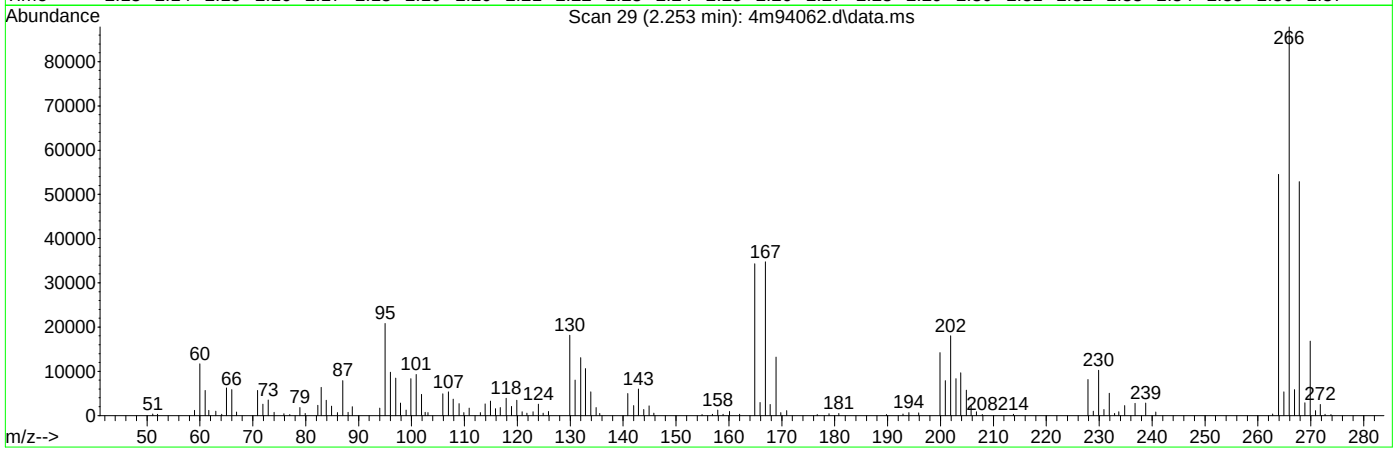
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
401.90	83	444.05	736				
402.85	437						
404.10	73						
420.90	260						
421.70	71						
422.00	72						
423.05	1763						
423.95	614						
441.05	4521						
442.05	29621						
443.00	5628						

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\data_aimeel\e4m4348\
Data File : 4m94062.d
Acq On : 22 Jul 2020 11:29 pm
Operator : chriss2
Sample : dftpp Inst : GCMS4M
Misc : op25425a,e4m4348,1000,,,1,1
ALS Vial : 1 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\DFTPP4M.M
Quant Results File: DFTPP4M.RES
Quant Time: Jul 23 22:15:54 2020
Quant Title : Semi Volatile GC/MS,zb-5 30m x .25mm x .50um
QLast Update : Thu Jul 23 22:15:45 2020
Response via : Initial Calibration





TIC: 4m94062.d\data.ms

(1) pentachlorophenol (t)

2.253min (0.000) 4.03ppb

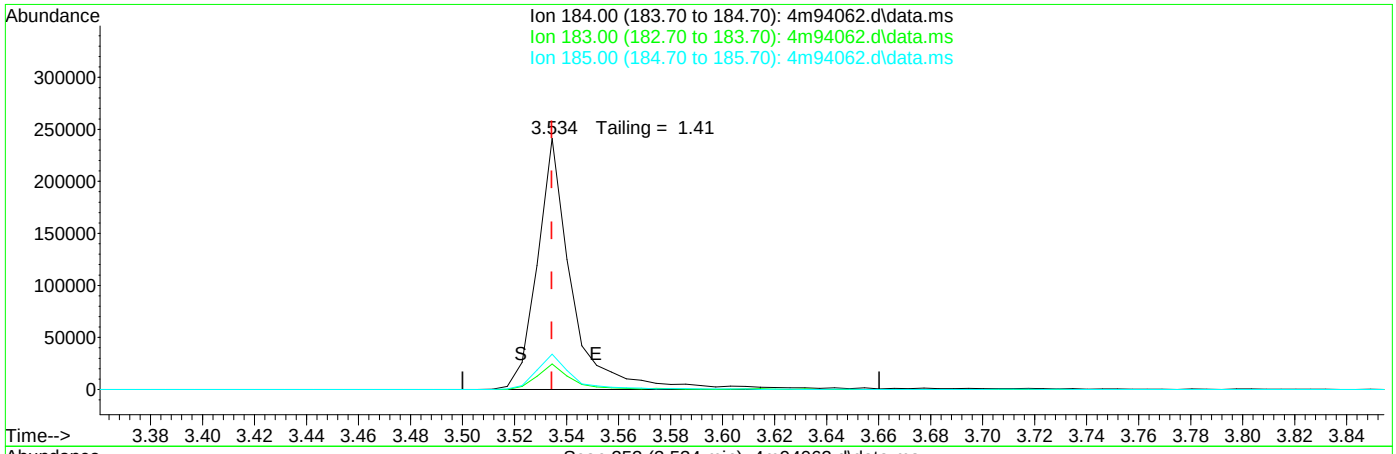
response 66568

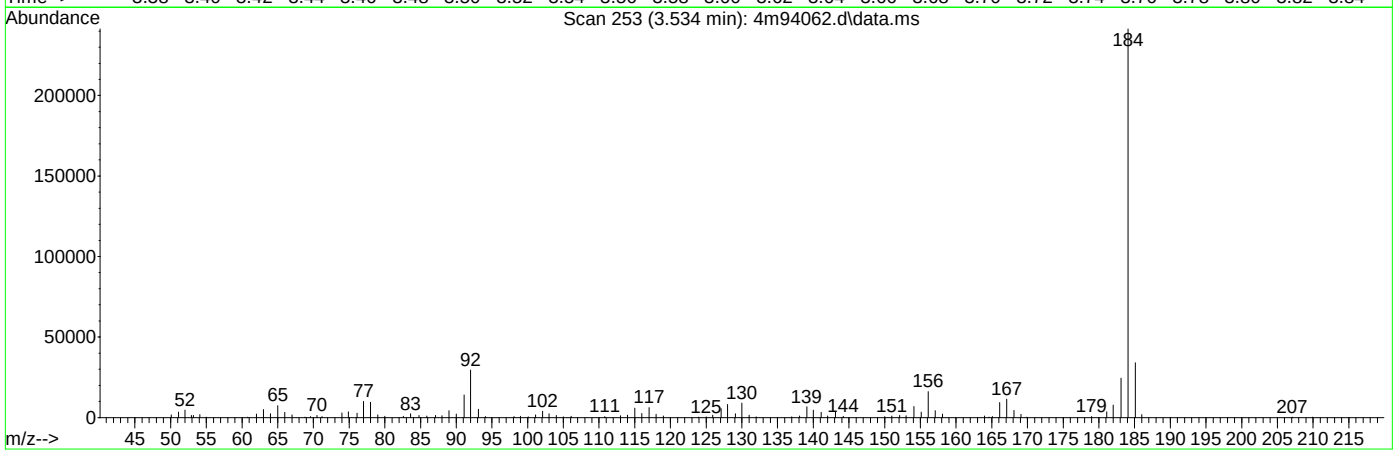
Ion	Exp%	Act%
266.00	100	100
264.00	62.00	61.90
268.00	60.20	58.40
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\data_aimeel\e4m4348\
Data File : 4m94062.d
Acq On : 22 Jul 2020 11:29 pm
Operator : chriss2
Sample : dftpp Inst : GCMS4M
Misc : op25425a,e4m4348,1000,,,1,1
ALS Vial : 1 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\DFTPP4M.M
Quant Results File: DFTPP4M.RES
Quant Time: Jul 23 22:15:54 2020
Quant Title : Semi Volatile GC/MS,zb-5 30m x .25mm x .50um
QLast Update : Thu Jul 23 22:15:45 2020
Response via : Initial Calibration





TIC: 4m94062.d\data.ms

(2) benzidine (t)

3.534min (0.000) 3.78ppb

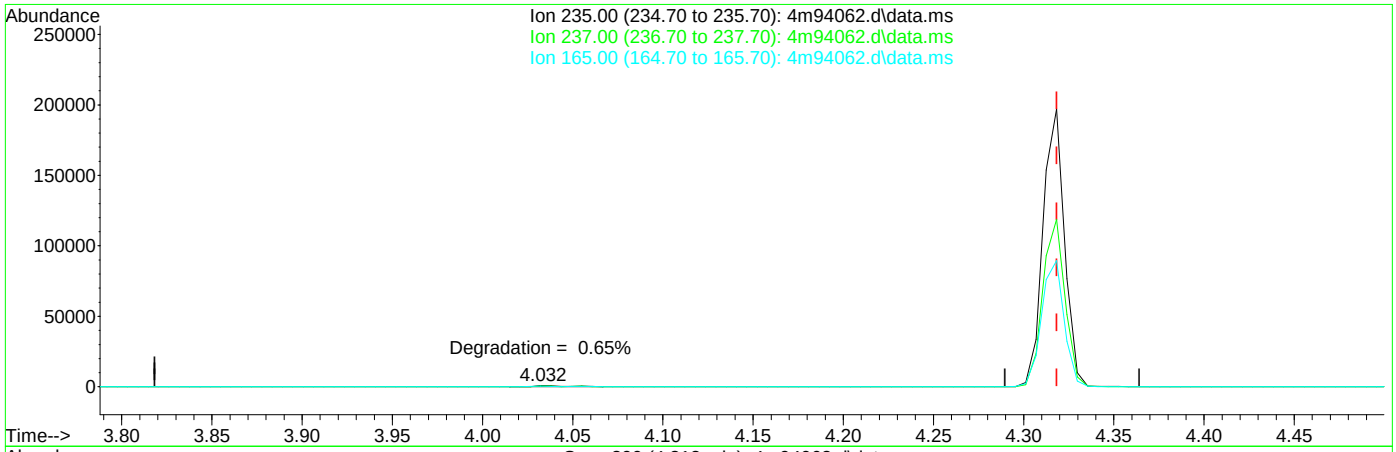
response 225491

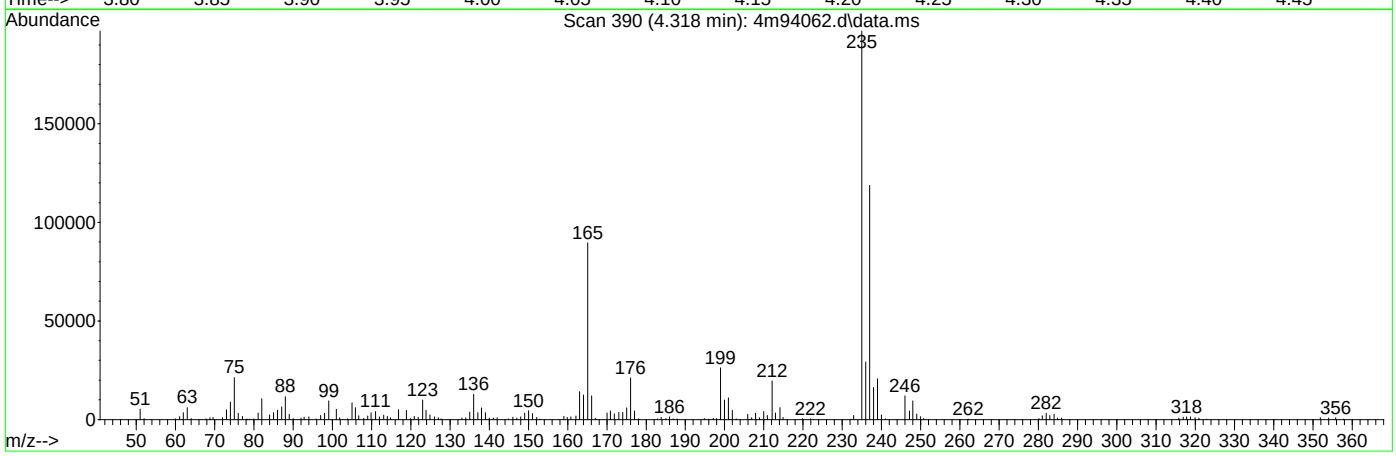
Ion	Exp%	Act%
184.00	100	100
183.00	10.10	10.11
185.00	14.10	14.19
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\data_aimeel\e4m4348\
Data File : 4m94062.d
Acq On : 22 Jul 2020 11:29 pm
Operator : chriss2
Sample : dftpp Inst : GCMS4M
Misc : op25425a,e4m4348,1000,,,1,1
ALS Vial : 1 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\DFTPP4M.M
Quant Results File: DFTPP4M.RES
Quant Time: Jul 23 22:15:54 2020
Quant Title : Semi Volatile GC/MS,zb-5 30m x .25mm x .50um
QLast Update : Thu Jul 23 22:15:45 2020
Response via : Initial Calibration





TIC: 4m94062.d\data.ms

(3) ddt (t)

4.318min (0.000) 5.90ppb

response 163273

Ion	Exp%	Act%
235.00	100	100
237.00	60.30	62.27
165.00	45.50	47.76
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94049.D
Acq On : 22 Jul 2020 8:42 am
Operator : angelar
Sample : ic4347-0.5
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 22 11:59:05 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 09:17:27 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1-Methylnaphthalene-d10	6.739	152	62273	4.00	ppm		0.00
12) Fluorene-d10	8.206	176	63488	4.00	ppm		-0.01
22) Fluoranthene-d10	10.315	212	113614	4.00	ppm		-0.01
28) Benzo(a)pyrene-d12	12.985	264	72006	4.00	ppm		-0.02
35) 1-Methylnaphthalene-d10a	6.739	152	62273	4.00	ppm		# 0.00
38) Fluorene-d10a	8.206	176	63488	4.00	ppm		-0.01
System Monitoring Compounds							
2) 2-Fluorophenol	3.523	112	98977	11.08	ppm		-0.01
Spiked Amount 50.000	Range 11 - 58		Recovery =	22.16%			
3) Phenol-d5	4.461	99	131006	10.87	ppm		-0.01
Spiked Amount 50.000			Recovery =	21.74%			
6) Nitrobenzene-d5	5.290	82	126598	15.39	ppm		-0.01
Spiked Amount 50.000			Recovery =	30.78%			
11) 2-Fluorobiphenyl	7.050	172	222496	10.25	ppm		0.00
Spiked Amount 50.000			Recovery =	20.50%			
17) 2,4,6-Tribromophenol	8.469	330	35533	13.05	ppm		-0.01
Spiked Amount 50.000			Recovery =	26.10%			
25) Terphenyl-d14	10.728	244	194182	10.41	ppm		-0.02
Spiked Amount 50.000			Recovery =	20.82%			
Target Compounds							Qvalue
4) Phenol	4.472	94	35363	2.62	ppm		95
5) bis(2-Chloroethyl)ether	4.518	93	5479	0.51	ppm		84
7) Naphthalene	5.993	128	15685	0.49	ppm		87
8) Hexachlorobutadiene	6.140	225	3528	0.53	ppm		86
9) 2-Methylnaphthalene	6.673	142	9194	0.48	ppm		85
10) Hexachlorocyclopentadiene	6.845	237	6702	1.20	ppm	#	22
13) Acenaphthylene	7.545	152	15234	0.60	ppm		80
14) Acenaphthene	7.716	153	9362	0.55	ppm	#	80
15) Dibenzofuran	7.898	168	13398	0.51	ppm		54
16) Fluorene	8.229	166	11057	0.52	ppm		88
18) Hexachlorobenzene	8.774	284	3941	0.50	ppm		72
19) Pentachlorophenol	8.975	266	8894	2.39	ppm		79
20) Phenanthrene	9.158	178	15735	0.52	ppm		93
21) Anthracene	9.210	178	14523	0.50	ppm		88
23) Fluoranthene	10.331	202	18175	0.48	ppm		72
24) Pyrene	10.550	202	17324	0.48	ppm		92
26) Benzo[a]anthracene	11.733	228	13176	0.48	ppm		71
27) Chrysene	11.768	228	15089	0.48	ppm		77
29) Benzo[b]fluoranthene	12.730	252	13036	0.49	ppm		67
30) Benzo[k]fluoranthene	12.753	252	14498	0.57	ppm		84
31) Benzo[a]pyrene	13.004	252	13946	0.51	ppm		94
32) Indeno[1,2,3-cd]pyrene	13.999	276	12571	0.54	ppm		99
33) Dibenz[a,h]anthracene	14.019	278	9837	0.50	ppm	#	49
34) Benzo[g,h,i]perylene	14.265	276	10889	0.55	ppm		93
36) 1,4-Dioxane	1.774	88	2802	0.57	ppm	#	56
37) 1-Methylnaphthalene	6.771	142	10443	0.48	ppm		93
39) 4,6-dinitro-2-methylph...	8.297	198	6679	5.96	ppm	#	41

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94049.D
Acq On : 22 Jul 2020 8:42 am
Operator : angelar
Sample : ic4347-0.5
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 22 11:59:05 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 09:17:27 2020
Response via : Initial Calibration

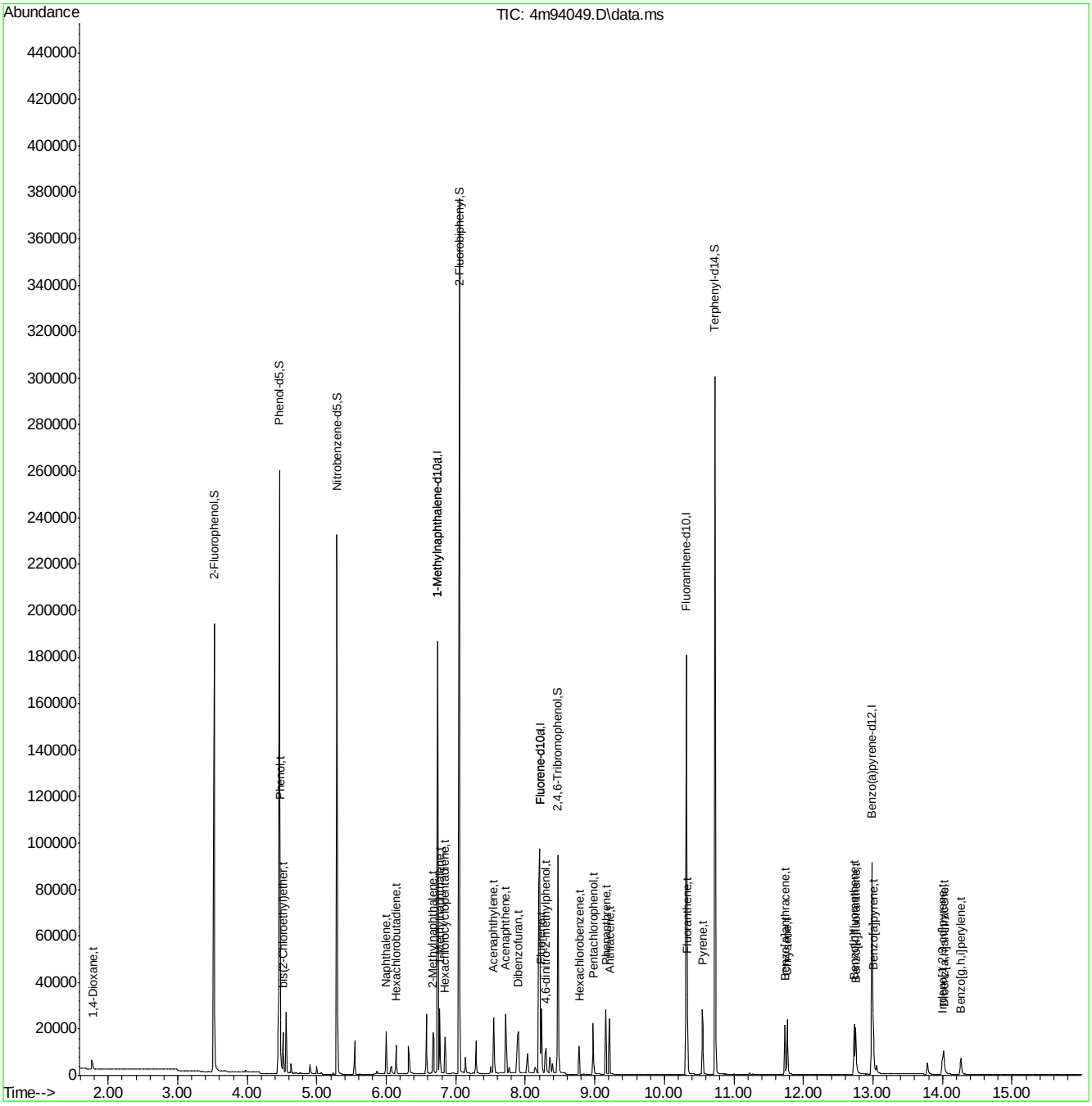
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94049.D
Acq On : 22 Jul 2020 8:42 am
Operator : angelar
Sample : ic4347-0.5
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 22 11:59:05 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 09:17:27 2020
Response via : Initial Calibration



M4M4347SIM.M Wed Jul 22 11:59:55 2020 Page: 3

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94050.D
Acq On : 22 Jul 2020 9:21 am
Operator : angelar
Sample : ic4347-5
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 22 12:00:02 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 09:17:27 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1-Methylnaphthalene-d10	6.739	152	64215	4.00	ppm		0.00
12) Fluorene-d10	8.206	176	71571	4.00	ppm		-0.01
22) Fluoranthene-d10	10.319	212	118326	4.00	ppm		0.00
28) Benzo(a)pyrene-d12	12.985	264	78148	4.00	ppm		-0.02
35) 1-Methylnaphthalene-d10a	6.739	152	64215	4.00	ppm		# 0.00
38) Fluorene-d10a	8.206	176	71571	4.00	ppm		-0.01
System Monitoring Compounds							
2) 2-Fluorophenol	3.513	112	953570	103.52	ppm		-0.02
Spiked Amount 50.000	Range 11 - 58		Recovery =	207.04%#			
3) Phenol-d5	4.461	99	1211045	97.48	ppm		-0.01
Spiked Amount 50.000			Recovery =	194.96%			
6) Nitrobenzene-d5	5.293	82	1188934	140.17	ppm		0.00
Spiked Amount 50.000			Recovery =	280.34%			
11) 2-Fluorobiphenyl	7.050	172	2020762	90.29	ppm		0.00
Spiked Amount 50.000			Recovery =	180.58%			
17) 2,4,6-Tribromophenol	8.469	330	322166	104.93	ppm		-0.01
Spiked Amount 50.000			Recovery =	209.86%			
25) Terphenyl-d14	10.739	244	1893107	97.43	ppm		0.00
Spiked Amount 50.000			Recovery =	194.86%			
Target Compounds							Qvalue
4) Phenol	4.472	94	341468	24.49	ppm		96
5) bis(2-Chloroethyl)ether	4.518	93	55425	5.01	ppm		83
7) Naphthalene	5.993	128	154924	4.72	ppm		88
8) Hexachlorobutadiene	6.140	225	35187	5.11	ppm		87
9) 2-Methylnaphthalene	6.681	142	94319	4.75	ppm		99
10) Hexachlorocyclopentadiene	6.845	237	75787	13.18	ppm	#	22
13) Acenaphthylene	7.545	152	149293	5.22	ppm		78
14) Acenaphthene	7.727	153	91970	4.78	ppm	#	61
15) Dibenzofuran	7.898	168	145144	4.88	ppm		59
16) Fluorene	8.229	166	121219	5.01	ppm		91
18) Hexachlorobenzene	8.774	284	38508	4.36	ppm		75
19) Pentachlorophenol	8.975	266	113301	27.00	ppm		79
20) Phenanthrene	9.158	178	164175	4.79	ppm		91
21) Anthracene	9.210	178	160324	4.94	ppm		86
23) Fluoranthene	10.334	202	182492	4.58	ppm		73
24) Pyrene	10.554	202	189040	5.06	ppm		93
26) Benzo[a]anthracene	11.736	228	153007	5.33	ppm		71
27) Chrysene	11.771	228	166579	5.09	ppm		78
29) Benzo[b]fluoranthene	12.733	252	155430	5.36	ppm		65
30) Benzo[k]fluoranthene	12.756	252	168747	6.09	ppm		83
31) Benzo[a]pyrene	13.007	252	146157	4.93	ppm		94
32) Indeno[1,2,3-cd]pyrene	14.003	276	153152	6.08	ppm		93
33) Dibenz[a,h]anthracene	14.019	278	124450	5.82	ppm	#	52
34) Benzo[g,h,i]perylene	14.268	276	125849	5.87	ppm		93
36) 1,4-Dioxane	1.764	88	28421	5.59	ppm	#	57
37) 1-Methylnaphthalene	6.771	142	104443	4.62	ppm		93
39) 4,6-dinitro-2-methylph...	8.297	198	103392	81.80	ppm	#	67

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94050.D
Acq On : 22 Jul 2020 9:21 am
Operator : angelar
Sample : ic4347-5
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 22 12:00:02 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 09:17:27 2020
Response via : Initial Calibration

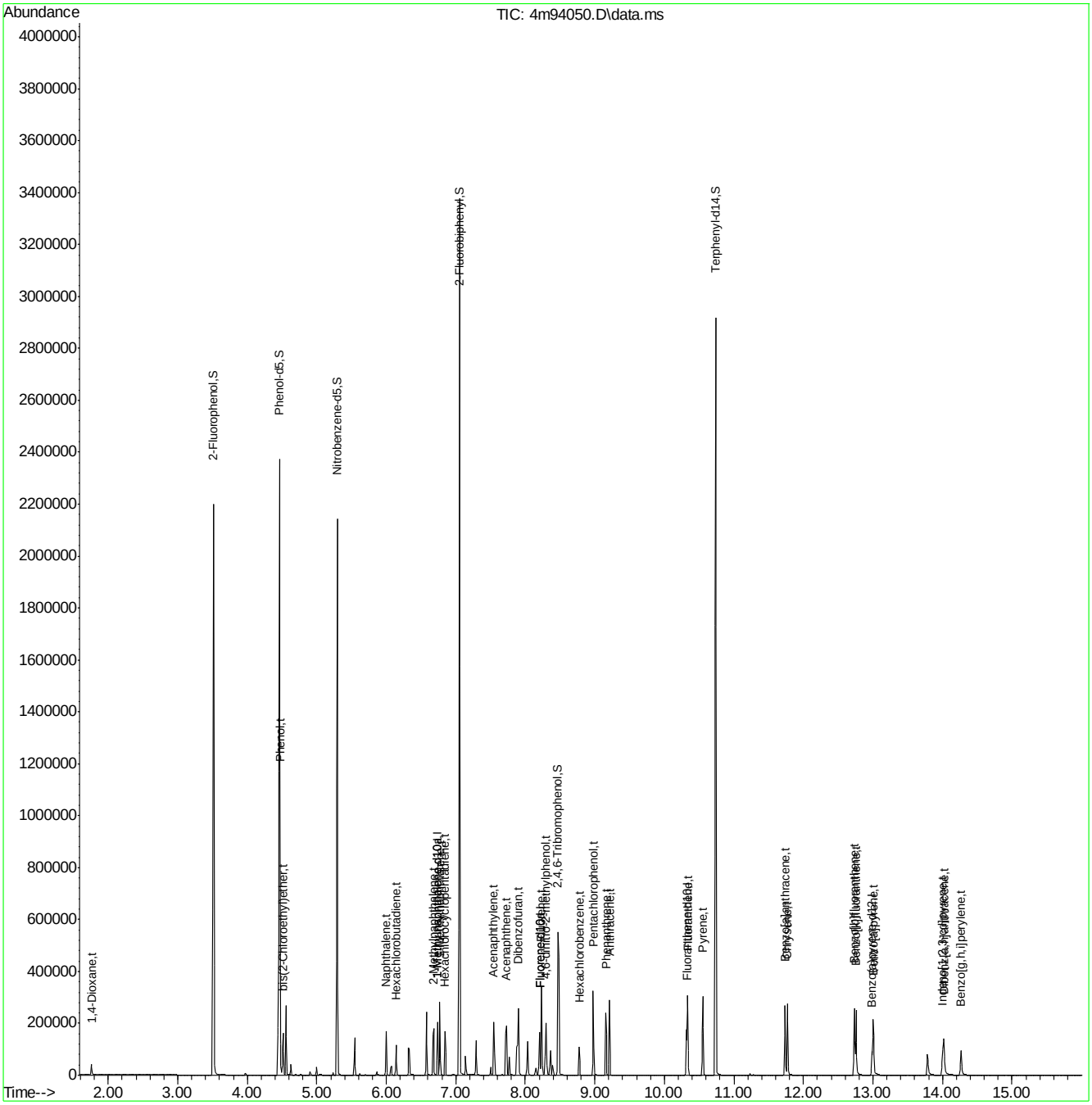
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94050.D
Acq On : 22 Jul 2020 9:21 am
Operator : angelar
Sample : ic4347-5
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 22 12:00:02 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 09:17:27 2020
Response via : Initial Calibration



M4M4347SIM.M Wed Jul 22 12:00:40 2020 Page: 3

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94051.D
Acq On : 22 Jul 2020 9:42 am
Operator : angelar
Sample : ic4347-2.5
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 22 12:00:46 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 09:17:27 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1-Methylnaphthalene-d10	6.738	152	55527	4.00	ppm		0.00
12) Fluorene-d10	8.206	176	60124	4.00	ppm		-0.01
22) Fluoranthene-d10	10.315	212	102757	4.00	ppm		-0.01
28) Benzo(a)pyrene-d12	12.988	264	66002	4.00	ppm		-0.01
35) 1-Methylnaphthalene-d10a	6.738	152	55527	4.00	ppm		0.00
38) Fluorene-d10a	8.206	176	60124	4.00	ppm		-0.01
System Monitoring Compounds							
2) 2-Fluorophenol	3.523	112	428232	53.76	ppm		-0.01
Spiked Amount 50.000	Range 11 - 58		Recovery =	107.52%#			
3) Phenol-d5	4.461	99	568570	52.93	ppm		-0.01
Spiked Amount 50.000			Recovery =	105.86%			
6) Nitrobenzene-d5	5.289	82	562113	76.64	ppm		-0.01
Spiked Amount 50.000			Recovery =	153.28%			
11) 2-Fluorobiphenyl	7.050	172	947498	48.96	ppm		0.00
Spiked Amount 50.000			Recovery =	97.92%			
17) 2,4,6-Tribromophenol	8.469	330	150143	58.21	ppm		-0.01
Spiked Amount 50.000			Recovery =	116.42%			
25) Terphenyl-d14	10.735	244	861268	51.04	ppm		0.00
Spiked Amount 50.000			Recovery =	102.08%			
Target Compounds							Qvalue
4) Phenol	4.472	94	158854	13.18	ppm		94
5) bis(2-Chloroethyl)ether	4.518	93	24899	2.60	ppm		88
7) Naphthalene	6.001	128	70045	2.47	ppm		86
8) Hexachlorobutadiene	6.140	225	15776	2.65	ppm		88
9) 2-Methylnaphthalene	6.681	142	41984	2.45	ppm		99
10) Hexachlorocyclopentadiene	6.845	237	31899	6.42	ppm	#	22
13) Acenaphthylene	7.545	152	67501	2.81	ppm		78
14) Acenaphthene	7.716	153	41316	2.55	ppm	#	80
15) Dibenzofuran	7.898	168	63367	2.54	ppm		54
16) Fluorene	8.229	166	52412	2.58	ppm		89
18) Hexachlorobenzene	8.774	284	17450	2.35	ppm		73
19) Pentachlorophenol	8.975	266	45028	12.77	ppm		79
20) Phenanthrene	9.158	178	72595	2.52	ppm		92
21) Anthracene	9.210	178	70637	2.59	ppm		87
23) Fluoranthene	10.334	202	82386	2.38	ppm		72
24) Pyrene	10.550	202	82357	2.54	ppm		93
26) Benzo[a]anthracene	11.736	228	63210	2.53	ppm		71
27) Chrysene	11.768	228	72002	2.53	ppm		78
29) Benzo[b]fluoranthene	12.733	252	65515	2.68	ppm		65
30) Benzo[k]fluoranthene	12.756	252	73949	3.16	ppm		84
31) Benzo[a]pyrene	13.006	252	63371	2.53	ppm		95
32) Indeno[1,2,3-cd]pyrene	14.002	276	64547	3.03	ppm		100
33) Dibenz[a,h]anthracene	14.022	278	51809	2.87	ppm	#	50
34) Benzo[g,h,i]perylene	14.267	276	52758	2.91	ppm		93
36) 1,4-Dioxane	1.764	88	14054	3.20	ppm		78
37) 1-Methylnaphthalene	6.771	142	46438	2.38	ppm		90
39) 4,6-dinitro-2-methylph...	8.297	198	44250	41.68	ppm	#	47

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94051.D
Acq On : 22 Jul 2020 9:42 am
Operator : angelar
Sample : ic4347-2.5
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 22 12:00:46 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 09:17:27 2020
Response via : Initial Calibration

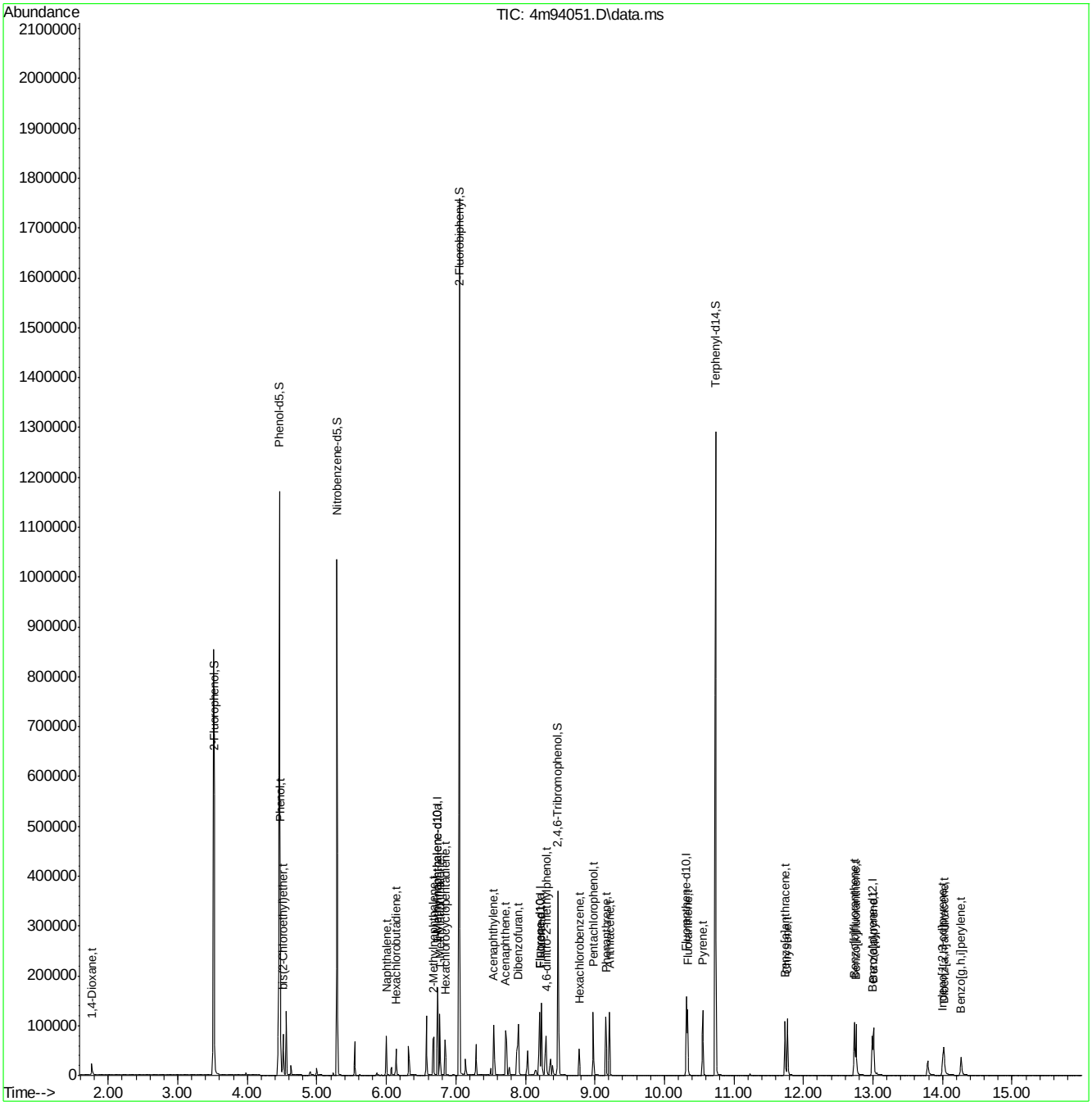
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94051.D
Acq On : 22 Jul 2020 9:42 am
Operator : angelar
Sample : ic4347-2.5
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 22 12:00:46 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 09:17:27 2020
Response via : Initial Calibration



M4M4347SIM.M Wed Jul 22 12:01:18 2020 Page: 3

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
07/23/20 09:08

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94052.D
Acq On : 22 Jul 2020 10:04 am
Operator : angelar
Sample : icc4347-1
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 22 12:02:10 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 09:17:27 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1-Methylnaphthalene-d10	6.738	152	54146	4.00	ppm		0.00
12) Fluorene-d10	8.206	176	57298	4.00	ppm		-0.01
22) Fluoranthene-d10	10.315	212	102693	4.00	ppm		-0.01
28) Benzo(a)pyrene-d12	12.984	264	64147	4.00	ppm		-0.02
35) 1-Methylnaphthalene-d10a	6.738	152	54146	4.00	ppm		0.00
38) Fluorene-d10a	8.206	176	57298	4.00	ppm		-0.01
System Monitoring Compounds							
2) 2-Fluorophenol	3.523	112	170893	22.00	ppm		-0.01
Spiked Amount 50.000	Range 11 - 58		Recovery = 44.00%				
3) Phenol-d5	4.457	99	229772	21.93	ppm		-0.01
Spiked Amount 50.000			Recovery = 43.86%				
6) Nitrobenzene-d5	5.289	82	227723	31.84	ppm		-0.01
Spiked Amount 50.000			Recovery = 63.68%				
11) 2-Fluorobiphenyl	7.050	172	390142	20.67	ppm		0.00
Spiked Amount 50.000			Recovery = 41.34%				
17) 2,4,6-Tribromophenol	8.468	330	62335	25.36	ppm		-0.01
Spiked Amount 50.000			Recovery = 50.72%				
25) Terphenyl-d14	10.732	244	351164	20.82	ppm		-0.01
Spiked Amount 50.000			Recovery = 41.64%				
Target Compounds							Qvalue
4) Phenol	4.468	94	62600	5.32	ppm		92
5) bis(2-Chloroethyl)ether	4.518	93	9660	1.04	ppm		82
7) Naphthalene	6.001	128	27306	0.99	ppm		86
8) Hexachlorobutadiene	6.140	225	6302	1.08	ppm		88
9) 2-Methylnaphthalene	6.681	142	16077	0.96	ppm		98
10) Hexachlorocyclopentadiene	6.845	237	11541	2.38	ppm	#	22
13) Acenaphthylene	7.544	152	25833	1.13	ppm		78
14) Acenaphthene	7.716	153	16342	1.06	ppm	#	82
15) Dibenzofuran	7.898	168	24470	1.03	ppm		53
16) Fluorene	8.229	166	20181	1.04	ppm		90
18) Hexachlorobenzene	8.774	284	6841	0.97	ppm		72
19) Pentachlorophenol	8.975	266	16536	4.92	ppm		81
20) Phenanthrene	9.157	178	28025	1.02	ppm		92
21) Anthracene	9.210	178	26870	1.03	ppm		87
23) Fluoranthene	10.330	202	32121	0.93	ppm		72
24) Pyrene	10.550	202	31058	0.96	ppm		93
26) Benzo[a]anthracene	11.733	228	22892	0.92	ppm		71
27) Chrysene	11.768	228	27535	0.97	ppm		78
29) Benzo[b]fluoranthene	12.730	252	22527	0.95	ppm		67
30) Benzo[k]fluoranthene	12.753	252	27634	1.22	ppm		84
31) Benzo[a]pyrene	13.003	252	24532	1.01	ppm		95
32) Indeno[1,2,3-cd]pyrene	13.998	276	21886	1.06	ppm		92
33) Dibenz[a,h]anthracene	14.019	278	18002	1.03	ppm	#	54
34) Benzo[g,h,i]perylene	14.267	276	18806	1.07	ppm		93
36) 1,4-Dioxane	1.764	88	5182m	1.21	ppm		
37) 1-Methylnaphthalene	6.771	142	18109	0.95	ppm		91
39) 4,6-dinitro-2-methylph...	8.297	198	13986	13.82	ppm	#	42

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94052.D
Acq On : 22 Jul 2020 10:04 am
Operator : angelar
Sample : icc4347-1
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 22 12:02:10 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 09:17:27 2020
Response via : Initial Calibration

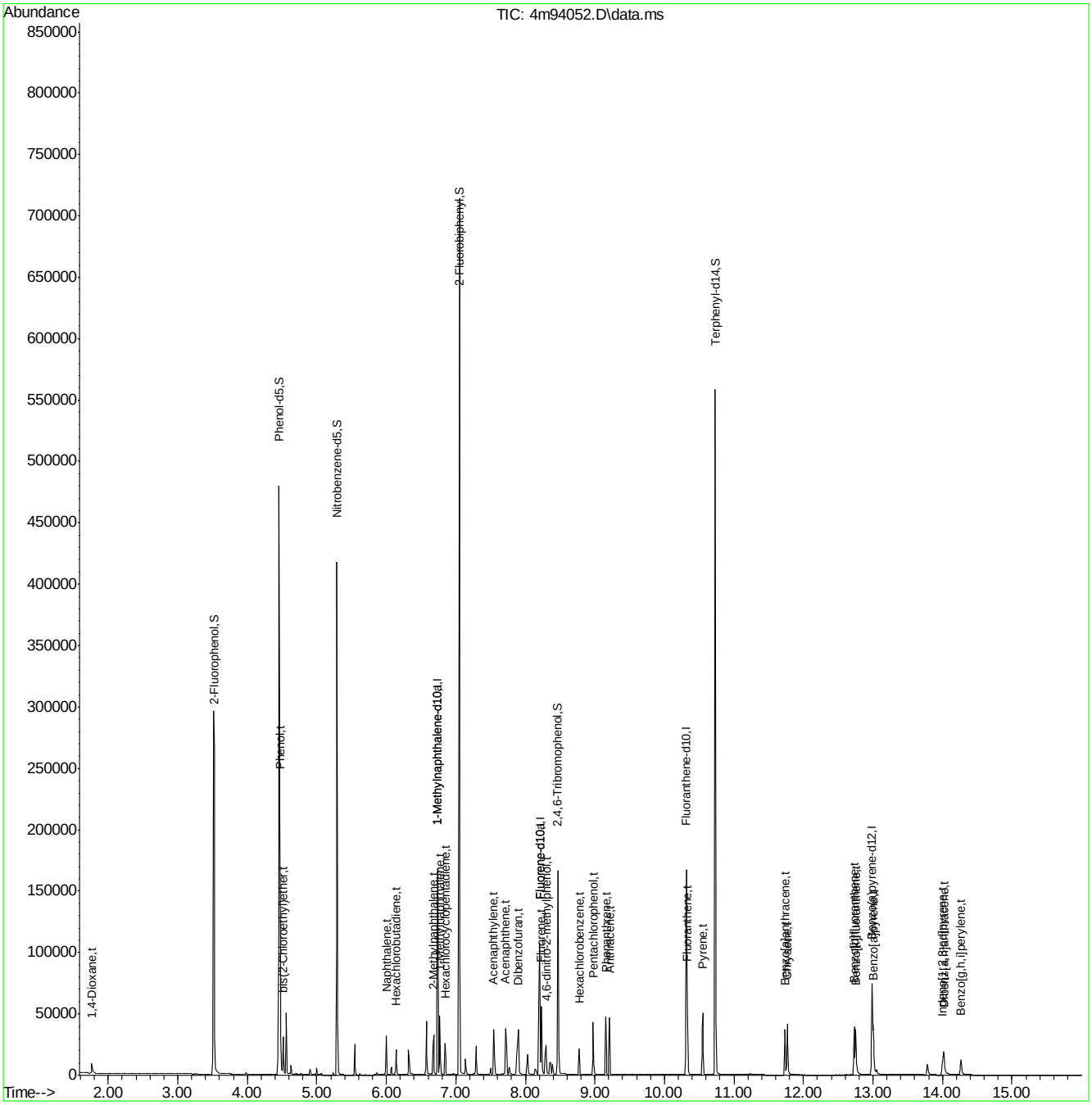
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94052.D
Acq On : 22 Jul 2020 10:04 am
Operator : angelar
Sample : icc4347-1
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 22 12:02:10 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 09:17:27 2020
Response via : Initial Calibration



Manual Integration Approval Summary

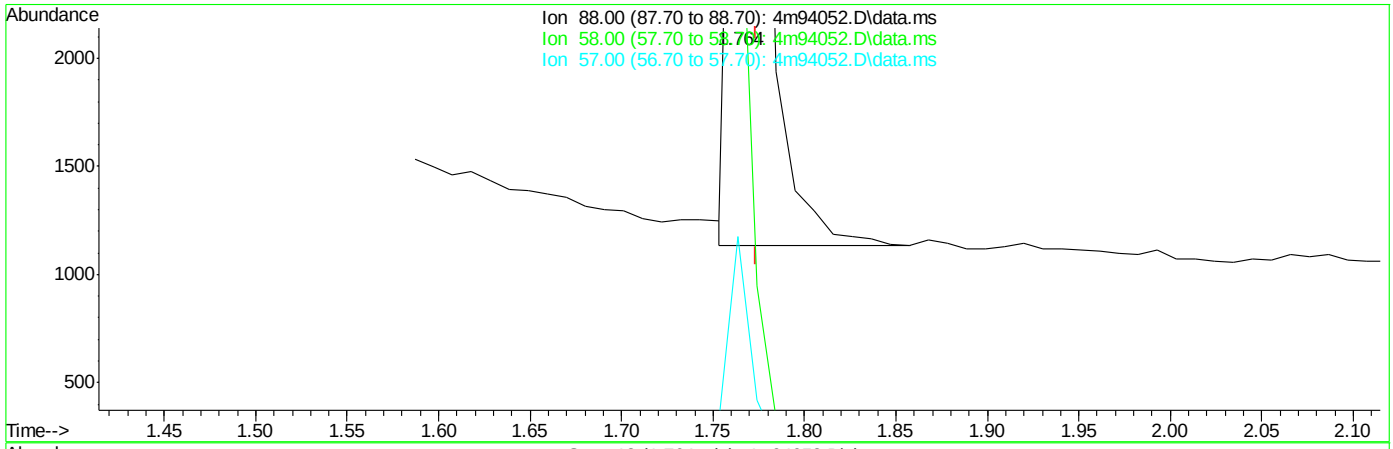
Sample Number: E4M4347-ICC4347
Lab FileID: 4M94052.D
Injection Time: 07/22/20 10:04
Method: SW846 8270D BY SIM
Analyst approved: 07/22/20 12:53 Kristi Schollenberger
Supervisor approved: 07/23/20 09:08 Nina Pandya

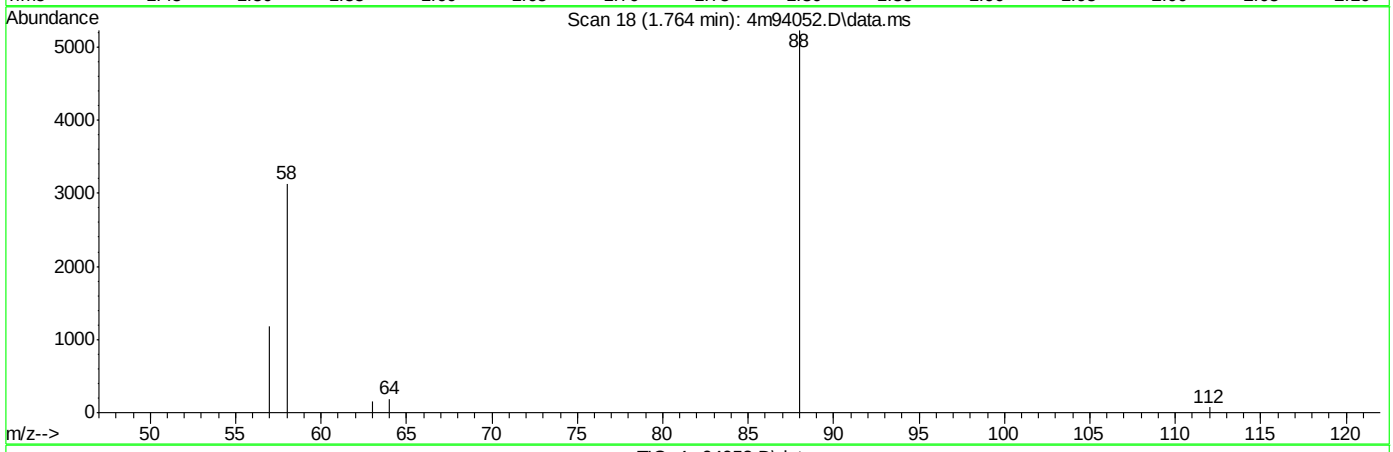
Parameter	CAS	Sig#	R.T. (min.)	Reason
1,4-Dioxane	123-91-1		1.76	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94052.D
Acq On : 22 Jul 2020 10:04 am
Operator : angelar
Sample : icc4347-1
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 22 12:01:24 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 09:17:27 2020
Response via : Initial Calibration





TIC: 4m94052.D\data.ms

(36) 1,4-Dioxane (t)

1.764min (-0.010) 1.29ppm

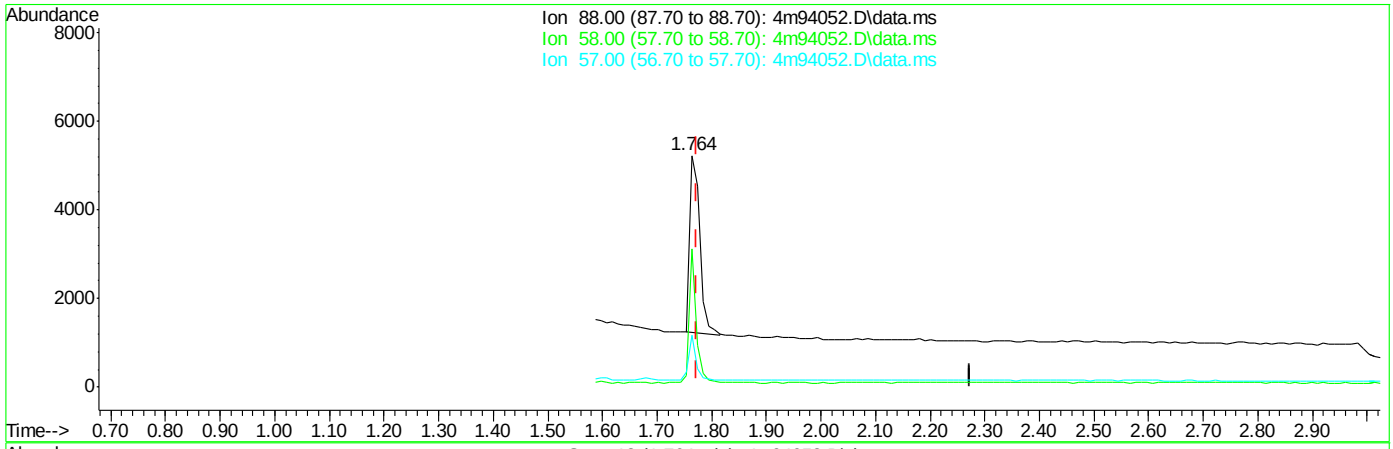
response 5530

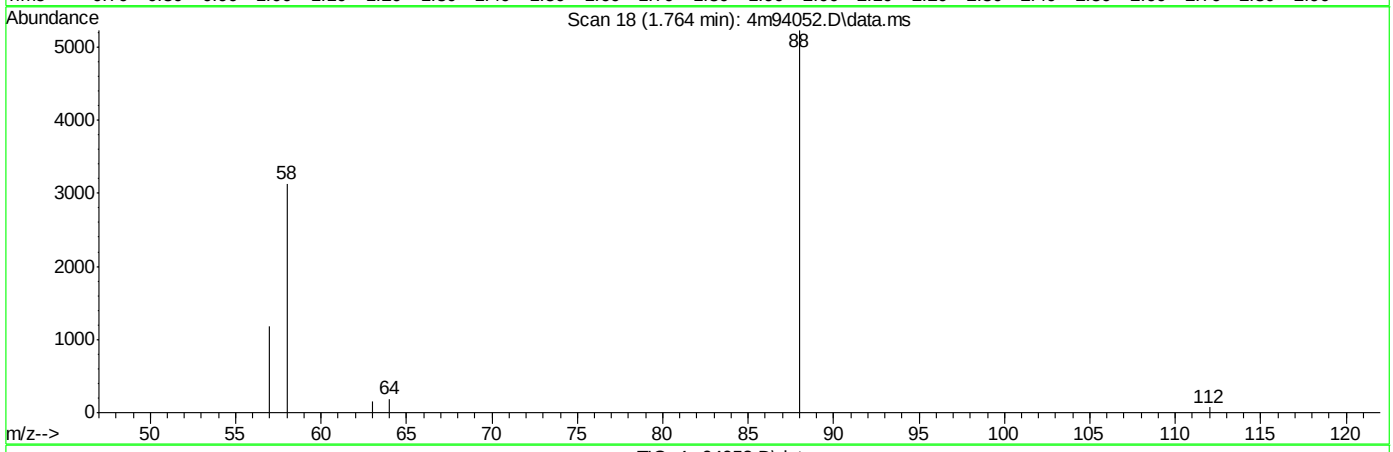
Ion	Exp%	Act%
88.00	100	100
58.00	61.70	72.94
57.00	20.30	22.89
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94052.D
Acq On : 22 Jul 2020 10:04 am
Operator : angelar
Sample : icc4347-1
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 22 12:02:10 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 09:17:27 2020
Response via : Initial Calibration





TIC: 4m94052.D\data.ms

(36) 1,4-Dioxane (t)

1.764min (-0.010) 1.21ppm m

response 5182

Ion	Exp%	Act%
88.00	100	100
58.00	61.70	59.77
57.00	20.30	22.51
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
07/23/20 09:08

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94053.D
Acq On : 22 Jul 2020 10:25 am
Operator : angelar
Sample : ic4347-0.2
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 22 12:03:10 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 09:17:27 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1-Methylnaphthalene-d10	6.739	152	53172	4.00	ppm		0.00
12) Fluorene-d10	8.206	176	54398	4.00	ppm		-0.01
22) Fluoranthene-d10	10.315	212	99746	4.00	ppm		-0.01
28) Benzo(a)pyrene-d12	12.985	264	59951	4.00	ppm		-0.02
35) 1-Methylnaphthalene-d10a	6.739	152	53172	4.00	ppm		# 0.00
38) Fluorene-d10a	8.206	176	54398	4.00	ppm		-0.01
System Monitoring Compounds							
2) 2-Fluorophenol	3.523	112	33452	4.39	ppm		-0.01
Spiked Amount 50.000	Range 11 - 58		Recovery	=	8.78%#		
3) Phenol-d5	4.461	99	45153	4.39	ppm		-0.01
Spiked Amount 50.000			Recovery	=	8.78%		
6) Nitrobenzene-d5	5.290	82	44237	6.30	ppm		-0.01
Spiked Amount 50.000			Recovery	=	12.60%		
11) 2-Fluorobiphenyl	7.050	172	78461	4.23	ppm		0.00
Spiked Amount 50.000			Recovery	=	8.46%		
17) 2,4,6-Tribromophenol	8.469	330	11122	4.77	ppm		-0.01
Spiked Amount 50.000			Recovery	=	9.54%		
25) Terphenyl-d14	10.732	244	66338	4.05	ppm		-0.01
Spiked Amount 50.000			Recovery	=	8.10%		
Target Compounds							Qvalue
4) Phenol	4.472	94	12011	1.04	ppm		95
5) bis(2-Chloroethyl)ether	4.518	93	1832	0.20	ppm		84
7) Naphthalene	6.001	128	5381	0.20	ppm		84
8) Hexachlorobutadiene	6.140	225	1228	0.22	ppm		91
9) 2-Methylnaphthalene	6.681	142	3070	0.19	ppm		98
10) Hexachlorocyclopentadiene	6.845	237	1885	0.40	ppm	#	25
13) Acenaphthylene	7.545	152	5015	0.23	ppm		79
14) Acenaphthene	7.716	153	3235	0.22	ppm	#	82
15) Dibenzofuran	7.898	168	4497	0.20	ppm		60
16) Fluorene	8.229	166	3779	0.21	ppm		89
18) Hexachlorobenzene	8.774	284	1387	0.21	ppm		70
19) Pentachlorophenol	8.975	266	2160	0.68	ppm		80
20) Phenanthrene	9.158	178	5218	0.20	ppm		92
21) Anthracene	9.210	178	4412	0.18	ppm		86
23) Fluoranthene	10.331	202	6244	0.19	ppm		72
24) Pyrene	10.550	202	5417	0.17	ppm		91
26) Benzo[a]anthracene	11.733	228	3596	0.15	ppm		70
27) Chrysene	11.768	228	4436	0.16	ppm		78
29) Benzo[b]fluoranthene	12.730	252	3499	0.16	ppm		66
30) Benzo[k]fluoranthene	12.753	252	3956	0.19	ppm		83
31) Benzo[a]pyrene	13.004	252	4543	0.20	ppm		93
32) Indeno[1,2,3-cd]pyrene	13.999	276	3350	0.17	ppm		88
33) Dibenz[a,h]anthracene	14.020	278	2567	0.16	ppm	#	52
34) Benzo[g,h,i]perylene	14.268	276	3149	0.19	ppm		94
36) 1,4-Dioxane	1.774	88	993m	0.24	ppm		
37) 1-Methylnaphthalene	6.771	142	3560	0.19	ppm		91
39) 4,6-dinitro-2-methylph...	8.298	198	1549	1.61	ppm	#	44

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94053.D
Acq On : 22 Jul 2020 10:25 am
Operator : angelar
Sample : ic4347-0.2
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 22 12:03:10 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 09:17:27 2020
Response via : Initial Calibration

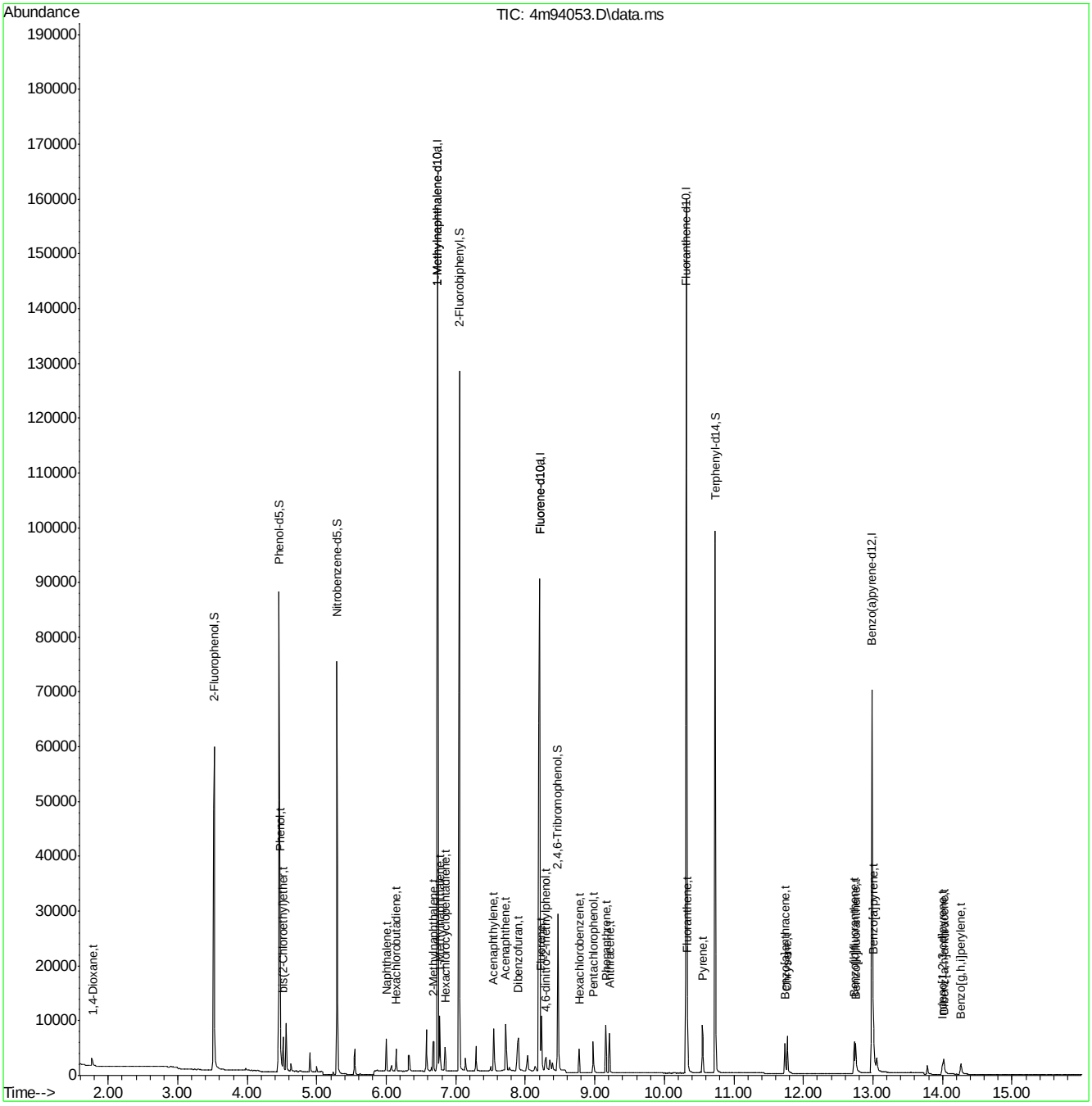
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94053.D
Acq On : 22 Jul 2020 10:25 am
Operator : angelar
Sample : ic4347-0.2
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 22 12:03:10 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 09:17:27 2020
Response via : Initial Calibration



Manual Integration Approval Summary

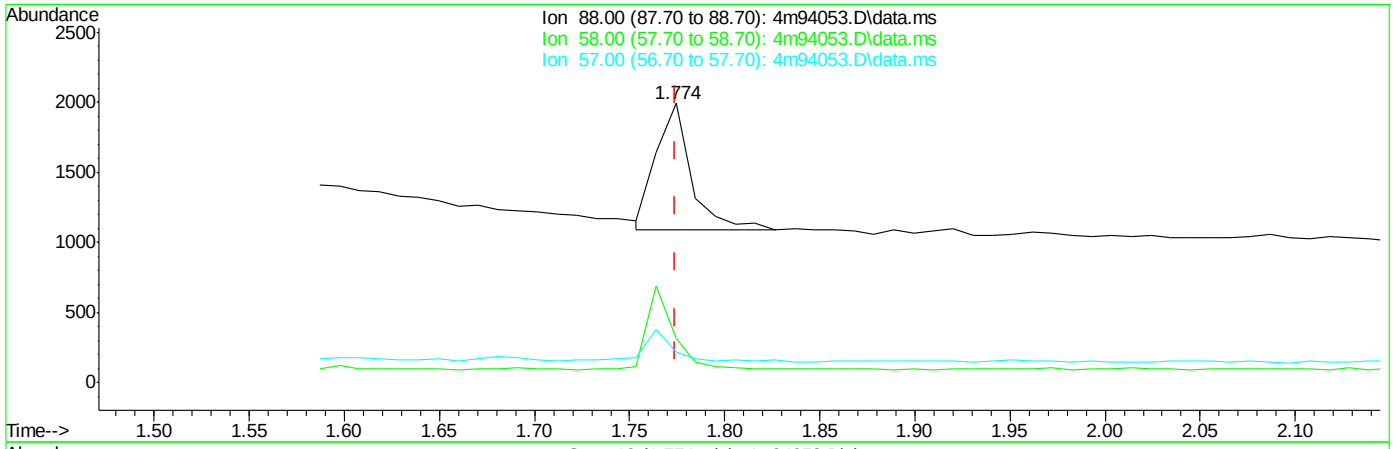
Sample Number: E4M4347-IC4347
Lab FileID: 4M94053.D
Injection Time: 07/22/20 10:25
Method: SW846 8270D BY SIM
Analyst approved: 07/22/20 12:53 Kristi Schollenberger
Supervisor approved: 07/23/20 09:08 Nina Pandya

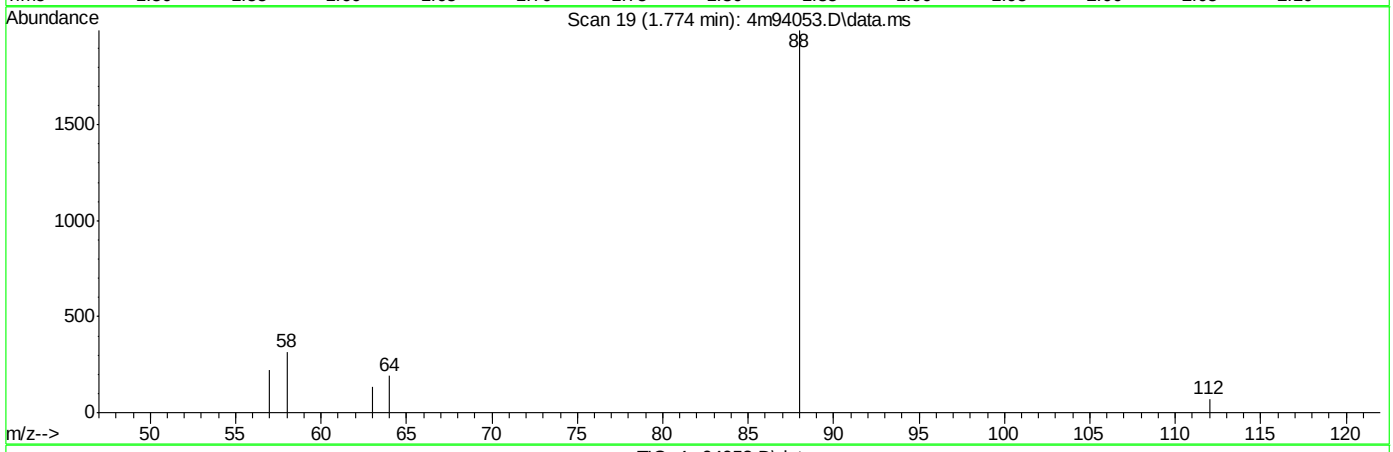
Parameter	CAS	Sig#	R.T. (min.)	Reason
1,4-Dioxane	123-91-1		1.77	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94053.D
Acq On : 22 Jul 2020 10:25 am
Operator : angelar
Sample : ic4347-0.2
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 22 12:02:35 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 09:17:27 2020
Response via : Initial Calibration





TIC: 4m94053.D\data.ms

(36) 1,4-Dioxane (t)

1.774min (+0.000) 0.27ppm

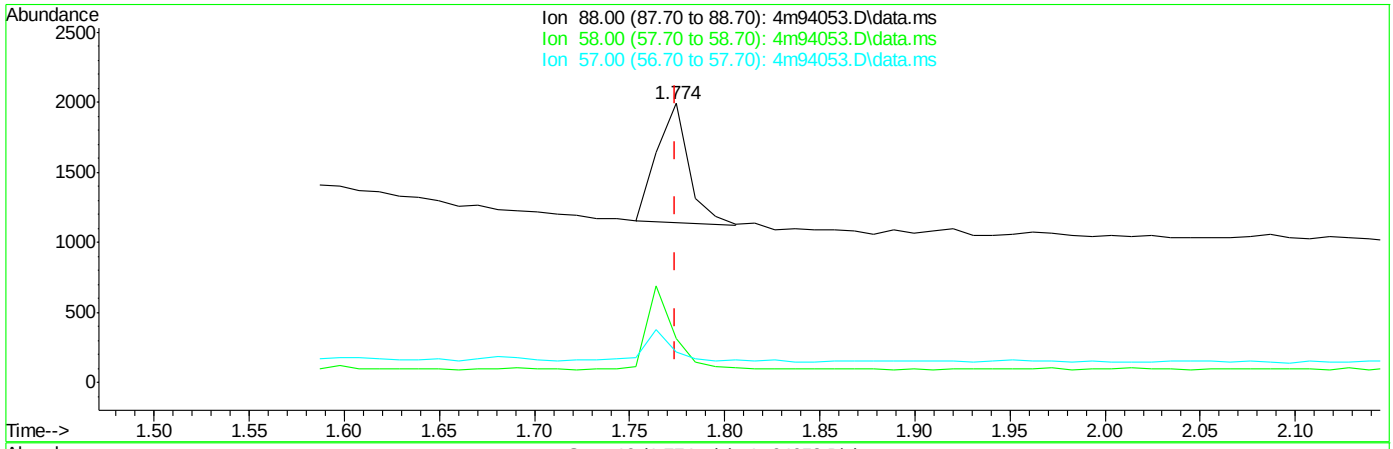
response 1154

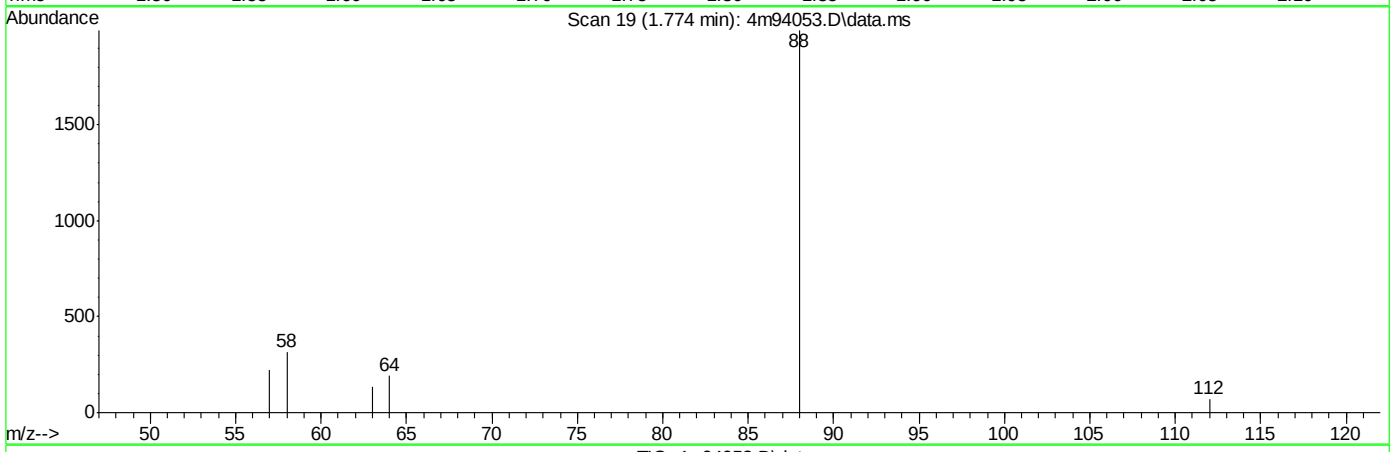
Ion	Exp%	Act%
88.00	100	100
58.00	61.70	23.85#
57.00	20.30	6.21
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94053.D
Acq On : 22 Jul 2020 10:25 am
Operator : angelar
Sample : ic4347-0.2
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 22 12:02:35 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 09:17:27 2020
Response via : Initial Calibration





TIC: 4m94053.D\data.ms

(36) 1,4-Dioxane (t)

1.774min (+0.000) 0.24ppm m

response 993

Ion	Exp%	Act%
88.00	100	100
58.00	61.70	15.87#
57.00	20.30	11.10
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
07/23/20 09:08

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94054.D
Acq On : 22 Jul 2020 10:46 am
Operator : angelar
Sample : ic4347-0.1
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 22 12:04:29 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 09:17:27 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1-Methylnaphthalene-d10	6.738	152	50878	4.00	ppm		0.00
12) Fluorene-d10	8.206	176	51684	4.00	ppm		-0.01
22) Fluoranthene-d10	10.315	212	93235	4.00	ppm		-0.01
28) Benzo(a)pyrene-d12	12.985	264	54101	4.00	ppm		-0.02
35) 1-Methylnaphthalene-d10a	6.738	152	50878	4.00	ppm		# 0.00
38) Fluorene-d10a	8.206	176	51684	4.00	ppm		-0.01
System Monitoring Compounds							
2) 2-Fluorophenol	3.523	112	15986	2.19	ppm		-0.01
Spiked Amount 50.000	Range 11 - 58		Recovery =	4.38%#			
3) Phenol-d5	4.461	99	20847	2.12	ppm		-0.01
Spiked Amount 50.000			Recovery =	4.24%			
6) Nitrobenzene-d5	5.293	82	19885	2.96	ppm		0.00
Spiked Amount 50.000			Recovery =	5.92%			
11) 2-Fluorobiphenyl	7.050	172	36479	2.06	ppm		0.00
Spiked Amount 50.000			Recovery =	4.12%			
17) 2,4,6-Tribromophenol	8.469	330	4897	2.21	ppm		-0.01
Spiked Amount 50.000			Recovery =	4.42%			
25) Terphenyl-d14	10.728	244	29343	1.92	ppm		-0.02
Spiked Amount 50.000			Recovery =	3.84%			
Target Compounds							Qvalue
4) Phenol	4.472	94	5331	0.48	ppm		99
5) bis(2-Chloroethyl)ether	4.518	93	862	0.10	ppm		96
7) Naphthalene	6.001	128	2530	0.10	ppm		87
8) Hexachlorobutadiene	6.140	225	591	0.11	ppm		89
9) 2-Methylnaphthalene	6.681	142	1460	0.09	ppm		96
10) Hexachlorocyclopentadiene	6.845	237	805	0.18	ppm	#	25
13) Acenaphthylene	7.545	152	2337	0.11	ppm		78
14) Acenaphthene	7.716	153	1493	0.11	ppm	#	79
15) Dibenzofuran	7.898	168	2135	0.10	ppm		65
16) Fluorene	8.229	166	1863	0.11	ppm		89
18) Hexachlorobenzene	8.774	284	653	0.10	ppm		71
19) Pentachlorophenol	8.975	266	981	0.32	ppm		82
20) Phenanthrene	9.158	178	2385	0.10	ppm		92
21) Anthracene	9.210	178	2159	0.09	ppm		84
23) Fluoranthene	10.331	202	3001	0.10	ppm		73
24) Pyrene	10.550	202	2499	0.08	ppm		93
26) Benzo[a]anthracene	11.733	228	1577	0.07	ppm		69
27) Chrysene	11.768	228	2118m	0.08	ppm		
29) Benzo[b]fluoranthene	12.730	252	1535	0.08	ppm		64
30) Benzo[k]fluoranthene	12.750	252	1640	0.09	ppm		83
31) Benzo[a]pyrene	13.003	252	2154	0.10	ppm		94
32) Indeno[1,2,3-cd]pyrene	13.999	276	1392	0.08	ppm		91
33) Dibenz[a,h]anthracene	14.016	278	1123	0.08	ppm	#	49
34) Benzo[g,h,i]perylene	14.265	276	1329	0.09	ppm		94
36) 1,4-Dioxane	1.774	88	432m	0.11	ppm		
37) 1-Methylnaphthalene	6.771	142	1639	0.09	ppm		89
39) 4,6-dinitro-2-methylph...	8.297	198	646	0.71	ppm	#	49

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94054.D
Acq On : 22 Jul 2020 10:46 am
Operator : angelar
Sample : ic4347-0.1
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 22 12:04:29 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 09:17:27 2020
Response via : Initial Calibration

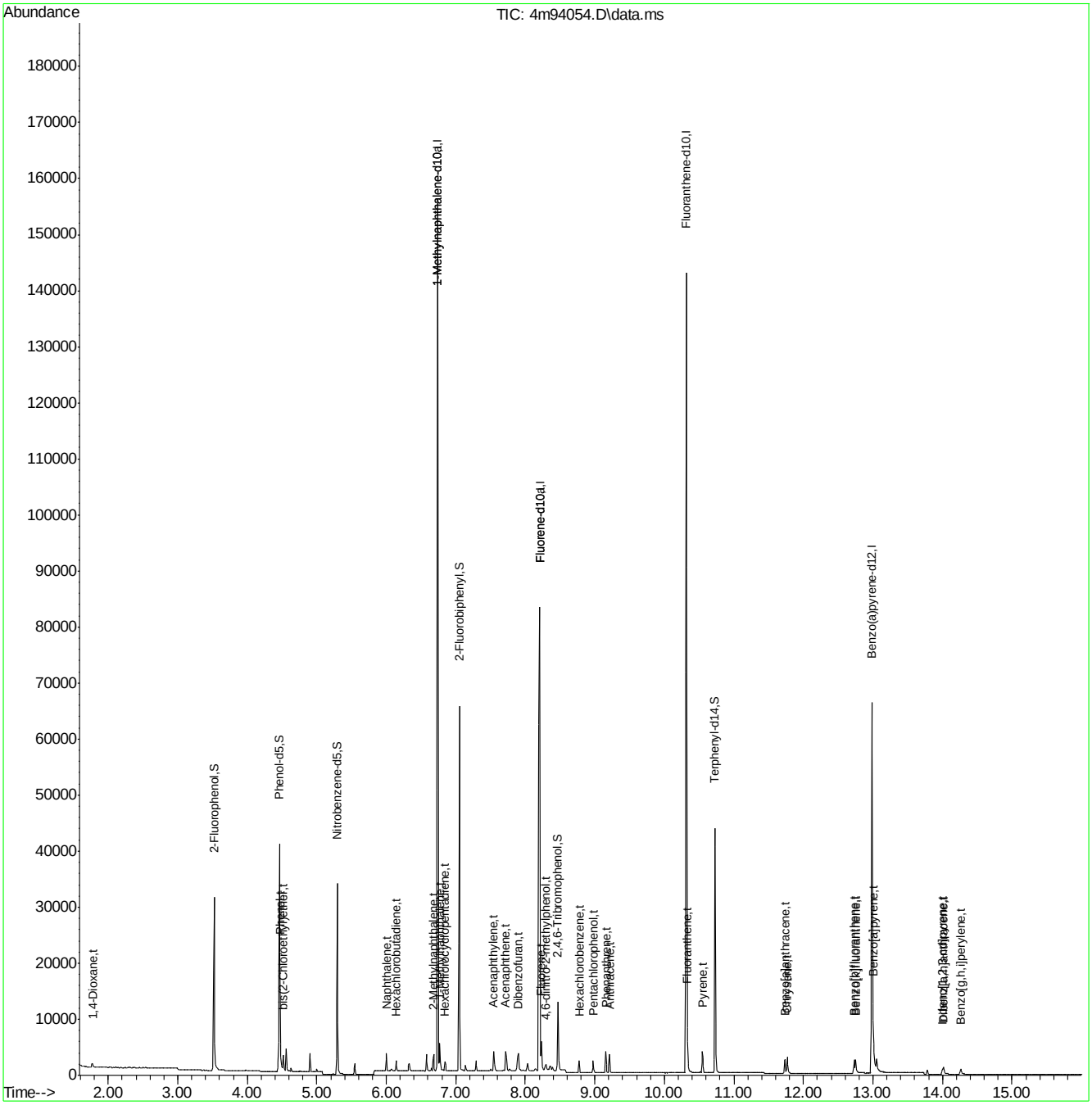
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94054.D
Acq On : 22 Jul 2020 10:46 am
Operator : angelar
Sample : ic4347-0.1
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 22 12:04:29 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 09:17:27 2020
Response via : Initial Calibration



Manual Integration Approval Summary

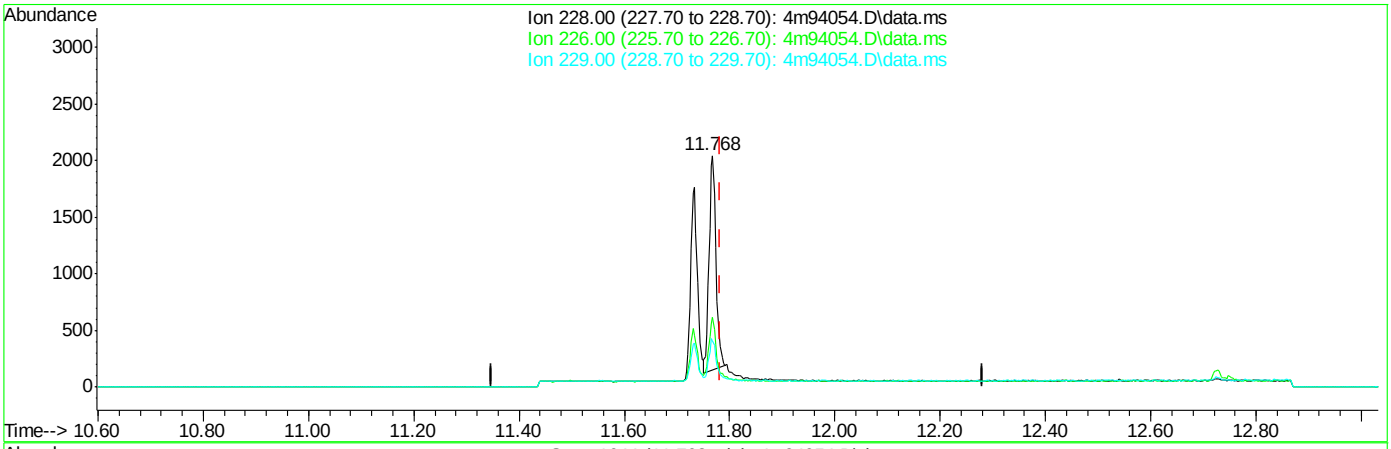
Sample Number: E4M4347-IC4347
Lab FileID: 4M94054.D
Injection Time: 07/22/20 10:46
Method: SW846 8270D BY SIM
Analyst approved: 07/22/20 12:53 Kristi Schollenberger
Supervisor approved: 07/23/20 09:08 Nina Pandya

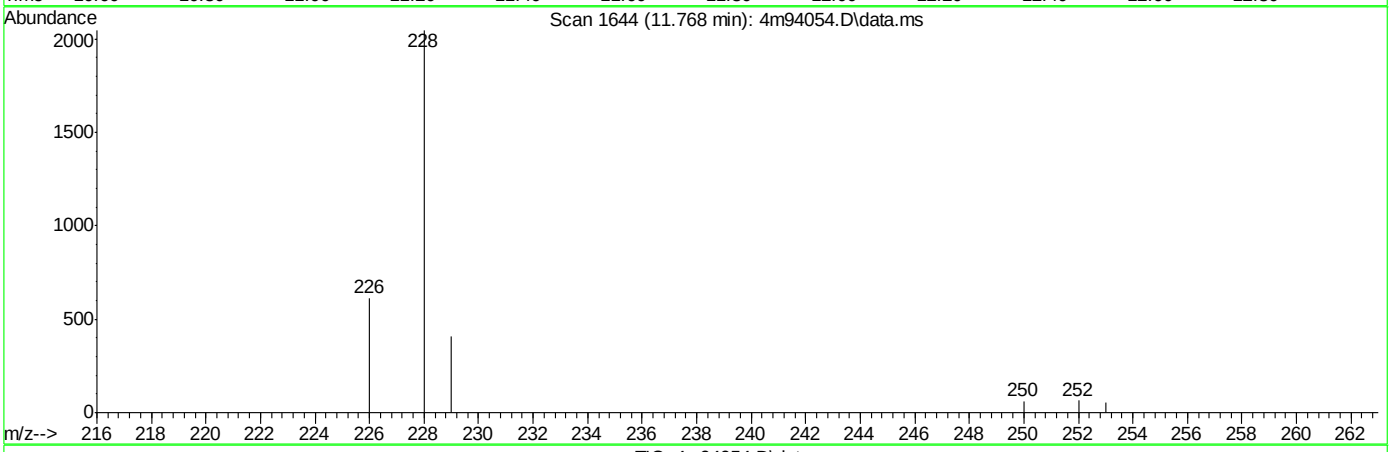
Parameter	CAS	Sig#	R.T. (min.)	Reason
1,4-Dioxane	123-91-1		1.77	Poor instrument integration
Chrysene	218-01-9		11.77	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94054.D
Acq On : 22 Jul 2020 10:46 am
Operator : angelar
Sample : ic4347-0.1
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 22 12:03:32 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 09:17:27 2020
Response via : Initial Calibration





TIC: 4m94054.D\data.ms

(27) Chrysene (t)

11.768min (-0.014) 0.07ppm

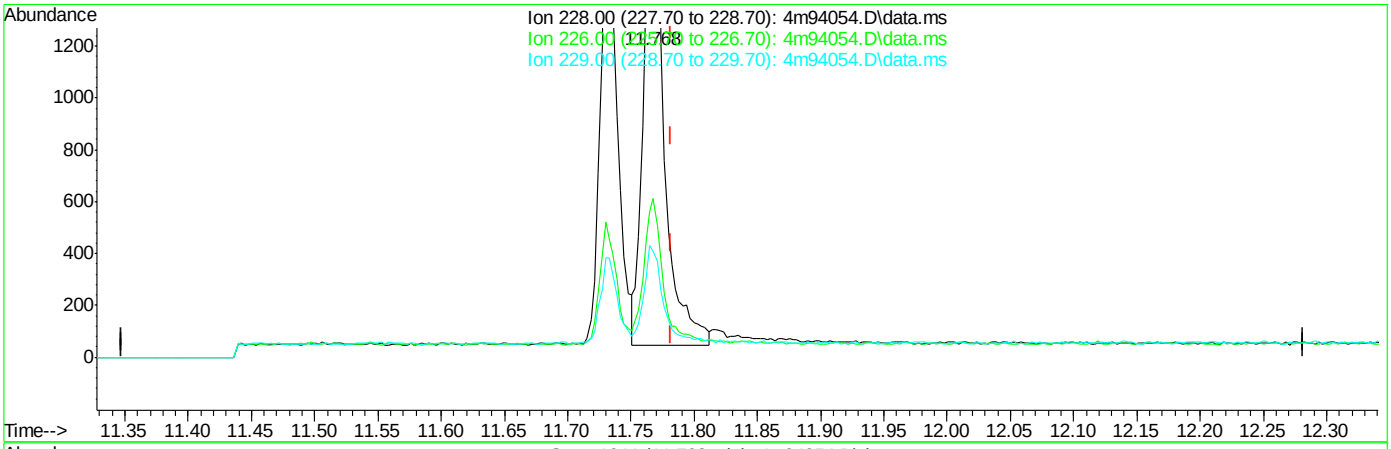
response 1743

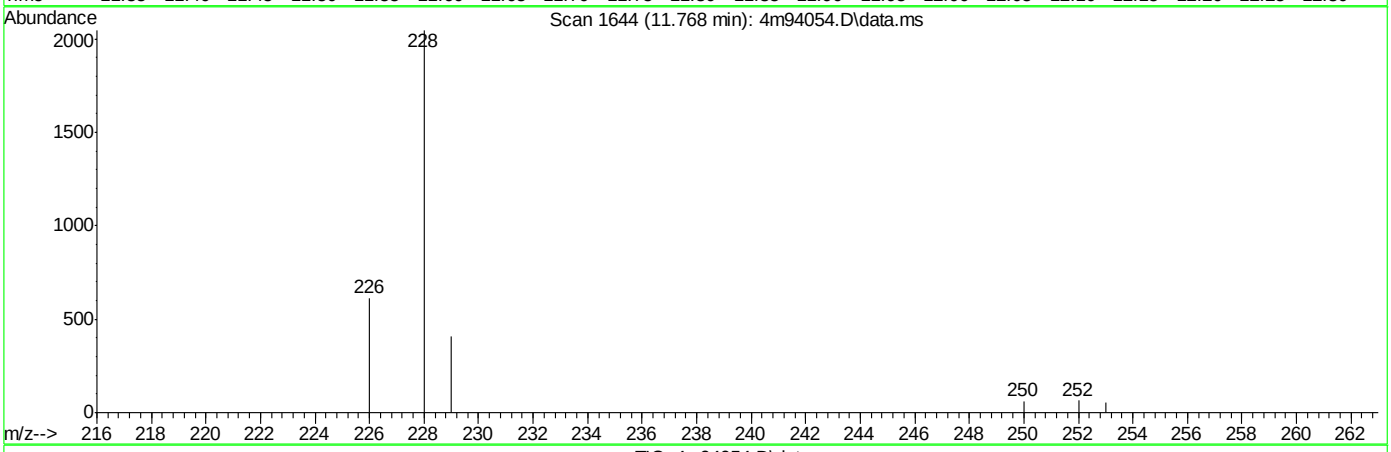
Ion	Exp%	Act%
228.00	100	100
226.00	45.90	28.34
229.00	28.50	18.04
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94054.D
Acq On : 22 Jul 2020 10:46 am
Operator : angelar
Sample : ic4347-0.1
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 22 12:03:32 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 09:17:27 2020
Response via : Initial Calibration





TIC: 4m94054.D\data.ms

(27) Chrysene (t)

11.768min (-0.014) 0.08ppm m

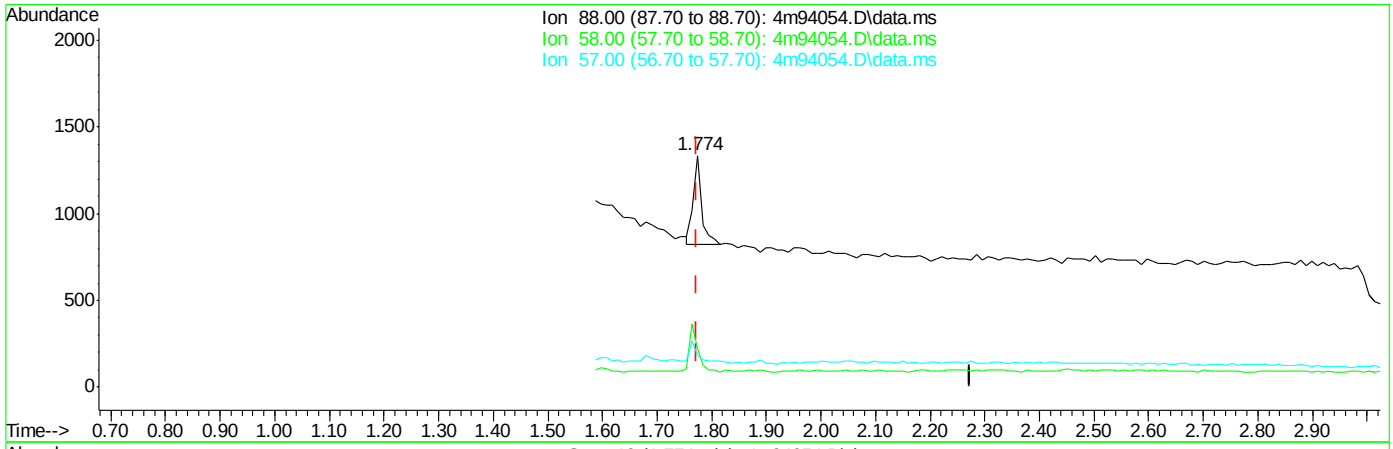
response 2118

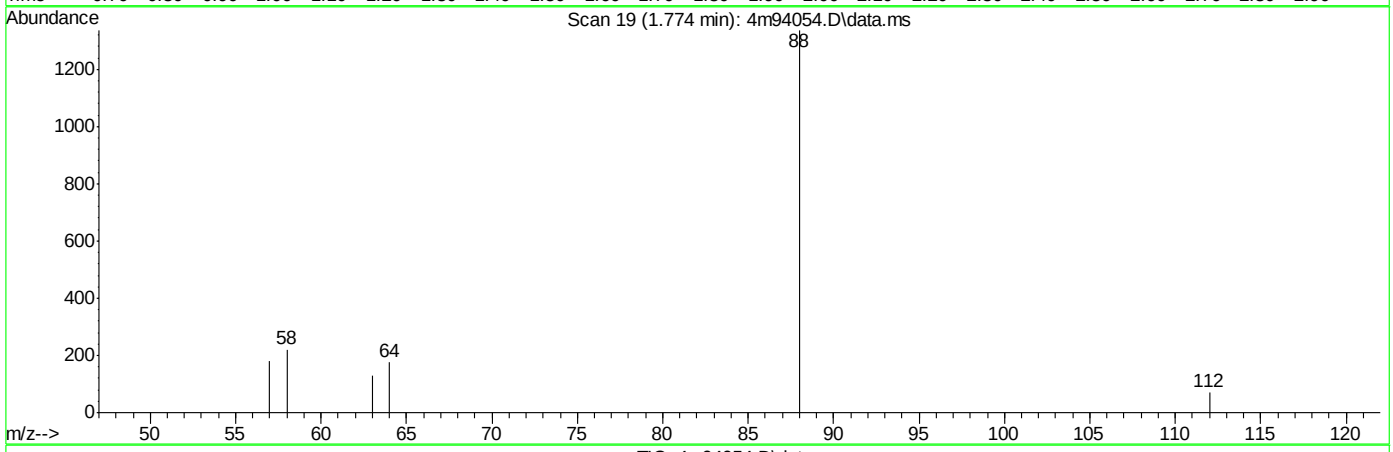
Ion	Exp%	Act%
228.00	100	100
226.00	45.90	29.93
229.00	28.50	20.05
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94054.D
Acq On : 22 Jul 2020 10:46 am
Operator : angelar
Sample : ic4347-0.1
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 22 12:03:32 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 09:17:27 2020
Response via : Initial Calibration





TIC: 4m94054.D\data.ms

(36) 1,4-Dioxane (t)

1.774min (+0.000) 0.14ppm

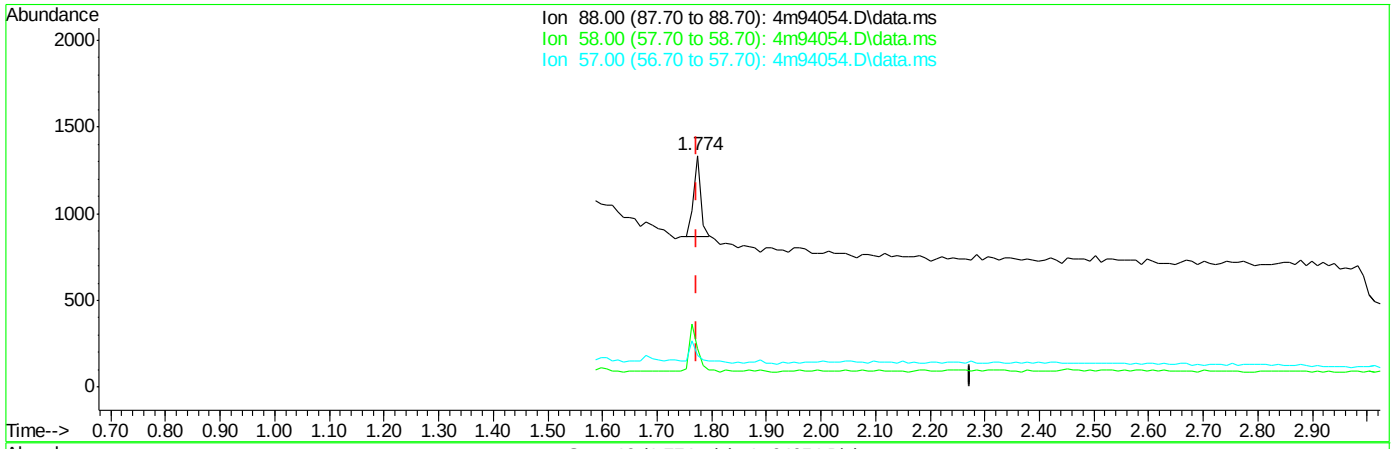
response 553

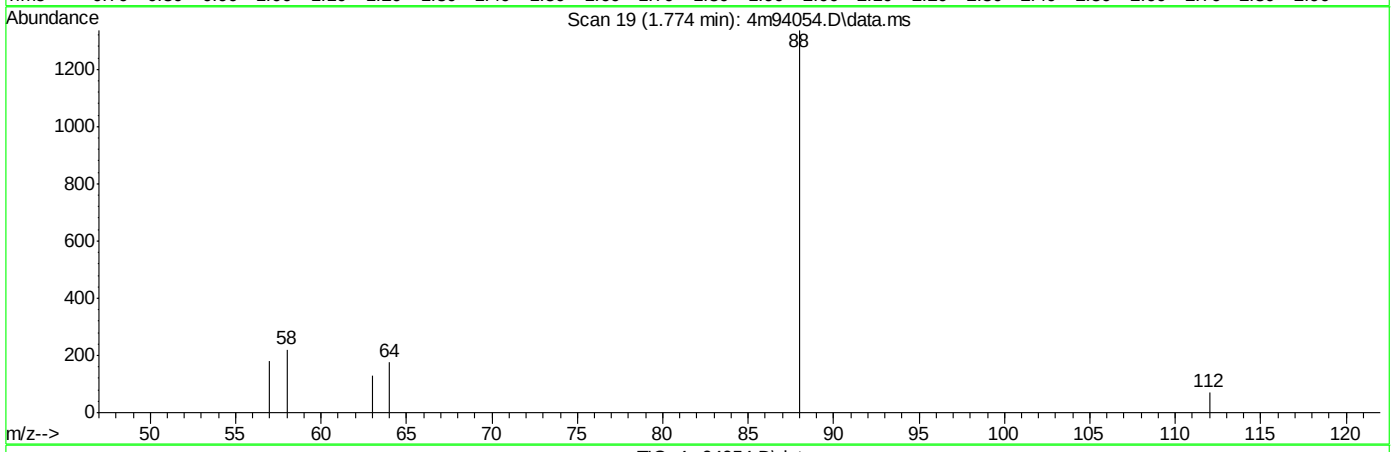
Ion	Exp%	Act%
88.00	100	100
58.00	61.70	25.43#
57.00	20.30	6.33
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94054.D
Acq On : 22 Jul 2020 10:46 am
Operator : angelar
Sample : ic4347-0.1
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 22 12:03:32 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 09:17:27 2020
Response via : Initial Calibration





TIC: 4m94054.D\data.ms

(36) 1,4-Dioxane (t)

1.774min (+0.000) 0.11ppm m

response 432

Ion	Exp%	Act%
88.00	100	100
58.00	61.70	16.47#
57.00	20.30	13.55
0.00	0.00	0.00

4M94055.D

Manual Integrations APPROVED (compounds with "m" flag)

Nina Pandya
07/23/20 09:08

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94055.D
Acq On : 22 Jul 2020 11:08 am
Operator : angelar
Sample : ic4347-0.05
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 22 12:05:24 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 09:17:27 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1-Methylnaphthalene-d10	6.738	152	48536	4.00	ppm		0.00
12) Fluorene-d10	8.206	176	50526	4.00	ppm		-0.01
22) Fluoranthene-d10	10.315	212	89105	4.00	ppm		-0.01
28) Benzo(a)pyrene-d12	12.985	264	50344	4.00	ppm		-0.02
35) 1-Methylnaphthalene-d10a	6.738	152	48536	4.00	ppm		# 0.00
38) Fluorene-d10a	8.206	176	50526	4.00	ppm		-0.01
System Monitoring Compounds							
2) 2-Fluorophenol	3.523	112	8169	1.17	ppm		-0.01
Spiked Amount 50.000	Range 11 - 58		Recovery =	2.34%#			
3) Phenol-d5	4.461	99	10027	1.07	ppm		-0.01
Spiked Amount 50.000			Recovery =	2.14%			
6) Nitrobenzene-d5	5.293	82	9373	1.46	ppm		0.00
Spiked Amount 50.000			Recovery =	2.92%			
11) 2-Fluorobiphenyl	7.050	172	17258	1.02	ppm		0.00
Spiked Amount 50.000			Recovery =	2.04%			
17) 2,4,6-Tribromophenol	8.468	330	2208	1.02	ppm		-0.01
Spiked Amount 50.000			Recovery =	2.04%			
25) Terphenyl-d14	10.732	244	12962	0.89	ppm		-0.01
Spiked Amount 50.000			Recovery =	1.78%			
Target Compounds							Qvalue
4) Phenol	4.472	94	2588	0.25	ppm		95
5) bis(2-Chloroethyl)ether	4.517	93	404	0.05	ppm		97
7) Naphthalene	6.001	128	1229	0.05	ppm		84
8) Hexachlorobutadiene	6.140	225	294	0.06	ppm		88
9) 2-Methylnaphthalene	6.681	142	745	0.05	ppm		90
10) Hexachlorocyclopentadiene	6.845	237	358	0.08	ppm	#	17
13) Acenaphthylene	7.544	152	1082	0.05	ppm		76
14) Acenaphthene	7.715	153	698	0.05	ppm	#	80
15) Dibenzofuran	7.898	168	1004	0.05	ppm		61
16) Fluorene	8.229	166	856	0.05	ppm		89
18) Hexachlorobenzene	8.774	284	317	0.05	ppm		73
19) Pentachlorophenol	8.974	266	420	0.14	ppm		75
20) Phenanthrene	9.157	178	1126	0.05	ppm		93
21) Anthracene	9.210	178	933	0.04	ppm		83
23) Fluoranthene	10.330	202	1455	0.05	ppm		73
24) Pyrene	10.550	202	1165	0.04	ppm		91
26) Benzo[a]anthracene	11.733	228	699	0.03	ppm		71
27) Chrysene	11.768	228	888	0.04	ppm		77
29) Benzo[b]fluoranthene	12.730	252	690	0.04	ppm		68
30) Benzo[k]fluoranthene	12.753	252	670	0.04	ppm		85
31) Benzo[a]pyrene	13.003	252	845	0.04	ppm		93
32) Indeno[1,2,3-cd]pyrene	13.999	276	616	0.04	ppm		88
33) Dibenz[a,h]anthracene	14.019	278	469	0.03	ppm	#	46
34) Benzo[g,h,i]perylene	14.268	276	588	0.04	ppm		92
36) 1,4-Dioxane	1.774	88	284m	0.07	ppm		
37) 1-Methylnaphthalene	6.771	142	839	0.05	ppm		93
39) 4,6-dinitro-2-methylph...	8.297	198	259	0.29	ppm	#	60

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94055.D
Acq On : 22 Jul 2020 11:08 am
Operator : angelar
Sample : ic4347-0.05
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 22 12:05:24 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 09:17:27 2020
Response via : Initial Calibration

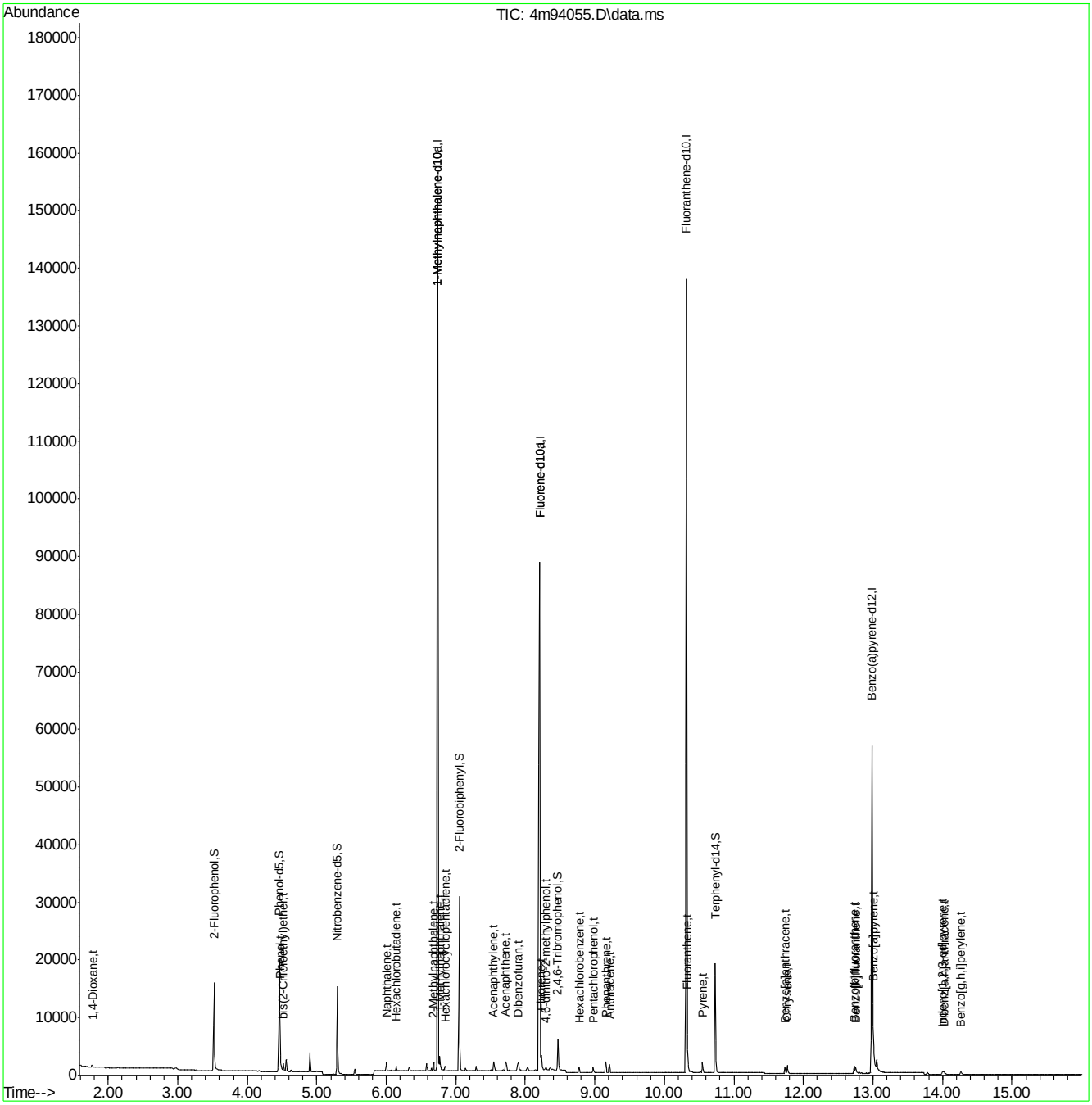
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94055.D
Acq On : 22 Jul 2020 11:08 am
Operator : angelar
Sample : ic4347-0.05
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 22 12:05:24 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 09:17:27 2020
Response via : Initial Calibration



Manual Integration Approval Summary

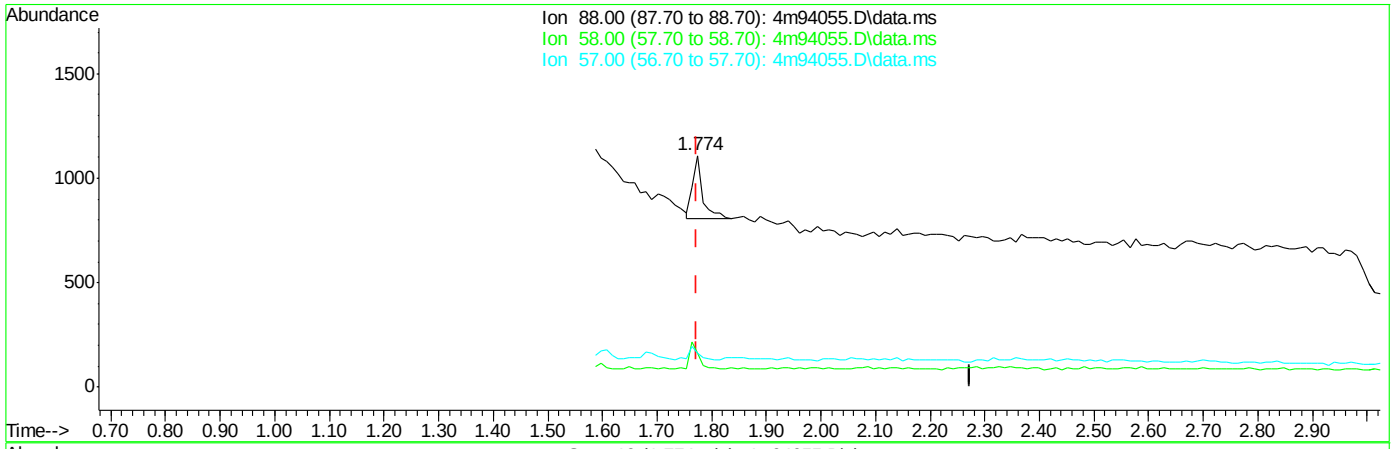
Sample Number: E4M4347-IC4347
Lab FileID: 4M94055.D
Injection Time: 07/22/20 11:08
Method: SW846 8270D BY SIM
Analyst approved: 07/22/20 12:53 Kristi Schollenberger
Supervisor approved: 07/23/20 09:08 Nina Pandya

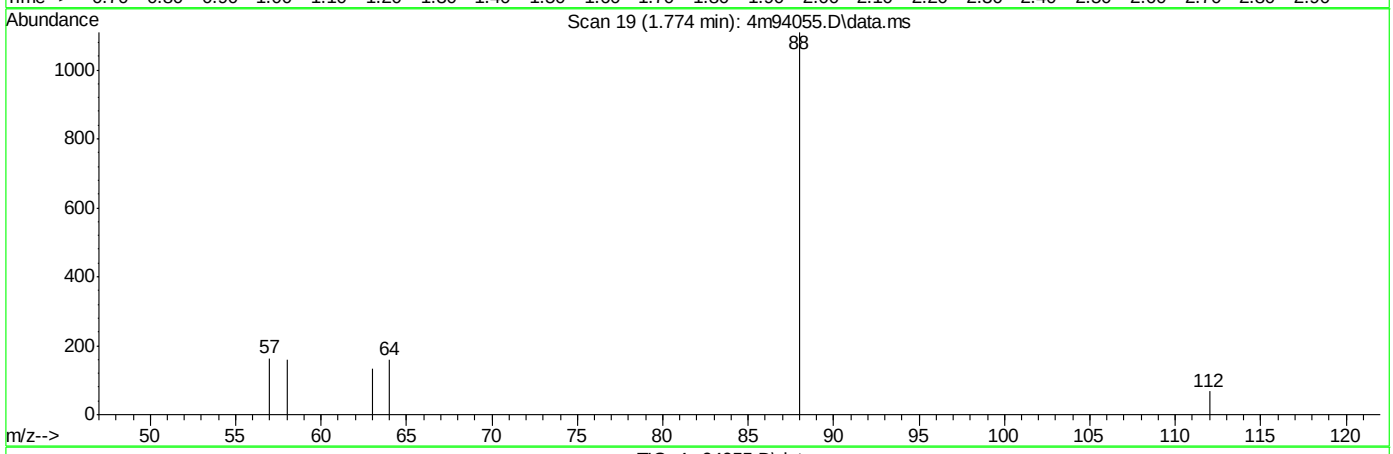
Parameter	CAS	Sig#	R.T. (min.)	Reason
1,4-Dioxane	123-91-1		1.77	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94055.D
Acq On : 22 Jul 2020 11:08 am
Operator : angelar
Sample : ic4347-0.05
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 22 12:04:50 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 09:17:27 2020
Response via : Initial Calibration





TIC: 4m94055.D\data.ms

(36) 1,4-Dioxane (t)

1.774min (+0.000) 0.10ppm

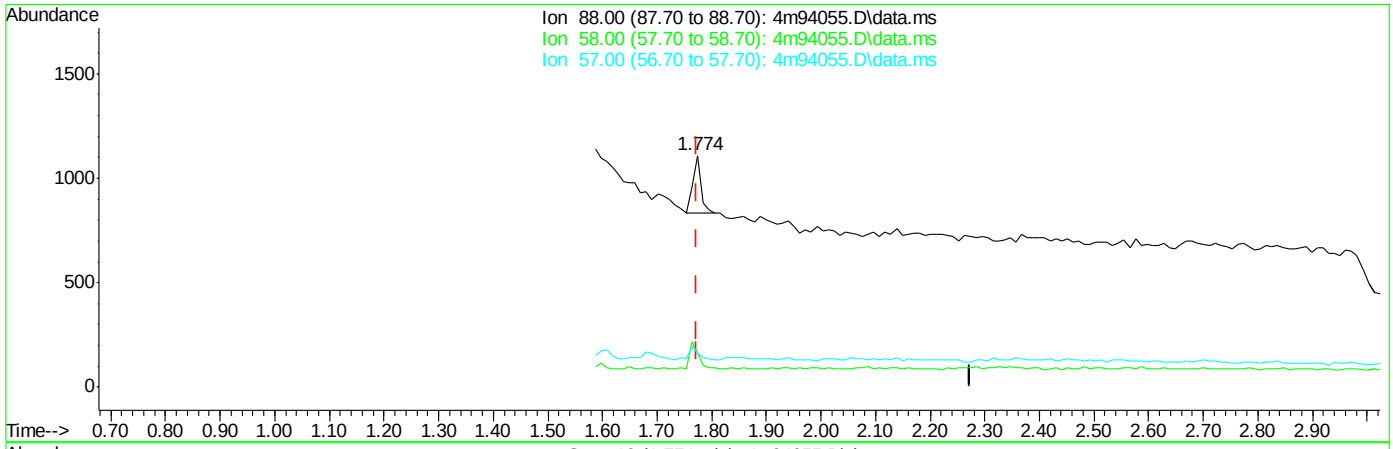
response 389

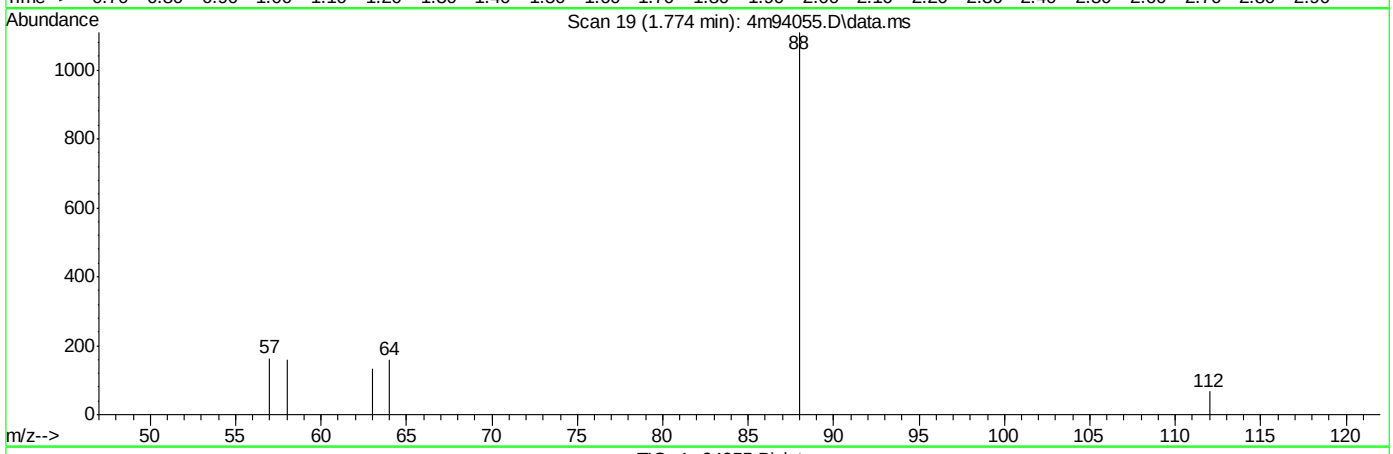
Ion	Exp%	Act%
88.00	100	100
58.00	61.70	24.35#
57.00	20.30	8.52
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94055.D
Acq On : 22 Jul 2020 11:08 am
Operator : angelar
Sample : ic4347-0.05
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 22 12:04:50 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 09:17:27 2020
Response via : Initial Calibration





TIC: 4m94055.D\data.ms

(36) 1,4-Dioxane (t)

1.774min (+0.000) 0.07ppm m

response 284

Ion	Exp%	Act%
88.00	100	100
58.00	61.70	14.52#
57.00	20.30	14.70
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya 07/23/20 09:08

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94056.D
Acq On : 22 Jul 2020 11:29 am
Operator : angelar
Sample : ic4347-0.02
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 22 12:07:37 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 09:17:27 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1-Methylnaphthalene-d10	6.739	152	43653	4.00	ppm		0.00
12) Fluorene-d10	8.206	176	43658	4.00	ppm		-0.01
22) Fluoranthene-d10	10.315	212	78749	4.00	ppm		-0.01
28) Benzo(a)pyrene-d12	12.989	264	42157	4.00	ppm		-0.01
35) 1-Methylnaphthalene-d10a	6.739	152	43653	4.00	ppm		0.00
38) Fluorene-d10a	8.206	176	43658	4.00	ppm		-0.01
System Monitoring Compounds							
2) 2-Fluorophenol	3.523	112	2825	0.45	ppm		-0.01
Spiked Amount 50.000	Range 11 - 58		Recovery =	0.90%#			
3) Phenol-d5	4.461	99	3407	0.40	ppm		-0.01
Spiked Amount 50.000			Recovery =	0.80%			
6) Nitrobenzene-d5	5.293	82	3204	0.56	ppm		0.00
Spiked Amount 50.000			Recovery =	1.12%			
11) 2-Fluorobiphenyl	7.050	172	6112	0.40	ppm		0.00
Spiked Amount 50.000			Recovery =	0.80%			
17) 2,4,6-Tribromophenol	8.469	330	746m	0.40	ppm		-0.01
Spiked Amount 50.000			Recovery =	0.80%			
25) Terphenyl-d14	10.732	244	4045	0.31	ppm		-0.01
Spiked Amount 50.000			Recovery =	0.62%			
Target Compounds							Qvalue
4) Phenol	4.472	94	879	0.09	ppm		82
5) bis(2-Chloroethyl)ether	4.521	93	122	0.02	ppm		97
7) Naphthalene	6.001	128	444	0.02	ppm		93
8) Hexachlorobutadiene	6.140	225	102	0.02	ppm		76
9) 2-Methylnaphthalene	6.681	142	265	0.02	ppm		99
10) Hexachlorocyclopentadiene	6.845	237	95	0.02	ppm		54
13) Acenaphthylene	7.545	152	380	0.02	ppm		76
14) Acenaphthene	7.716	153	261	0.02	ppm	#	78
15) Dibenzofuran	7.898	168	372	0.02	ppm		79
16) Fluorene	8.229	166	346	0.02	ppm		83
18) Hexachlorobenzene	8.774	284	108	0.02	ppm		61
19) Pentachlorophenol	8.975	266	144	0.06	ppm		82
20) Phenanthrene	9.158	178	411	0.02	ppm		95
21) Anthracene	9.210	178	347	0.02	ppm		92
23) Fluoranthene	10.331	202	509	0.02	ppm	#	56
24) Pyrene	10.550	202	418	0.02	ppm		95
26) Benzo[a]anthracene	11.733	228	247	0.01	ppm		76
27) Chrysene	11.768	228	291	0.01	ppm		71
29) Benzo[b]fluoranthene	12.730	252	241	0.02	ppm		65
30) Benzo[k]fluoranthene	12.756	252	271	0.02	ppm		80
31) Benzo[a]pyrene	13.004	252	324	0.02	ppm		98
32) Indeno[1,2,3-cd]pyrene	13.999	276	204	0.02	ppm		78
33) Dibenz[a,h]anthracene	14.023	278	148	0.01	ppm	#	16
34) Benzo[g,h,i]perylene	14.272	276	198	0.02	ppm		97
36) 1,4-Dioxane	1.774	88	55m	0.02	ppm		
37) 1-Methylnaphthalene	6.771	142	285	0.02	ppm		84
39) 4,6-dinitro-2-methylph...	8.298	198	70	0.09	ppm	#	45

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94056.D
Acq On : 22 Jul 2020 11:29 am
Operator : angelar
Sample : ic4347-0.02
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 22 12:07:37 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 09:17:27 2020
Response via : Initial Calibration

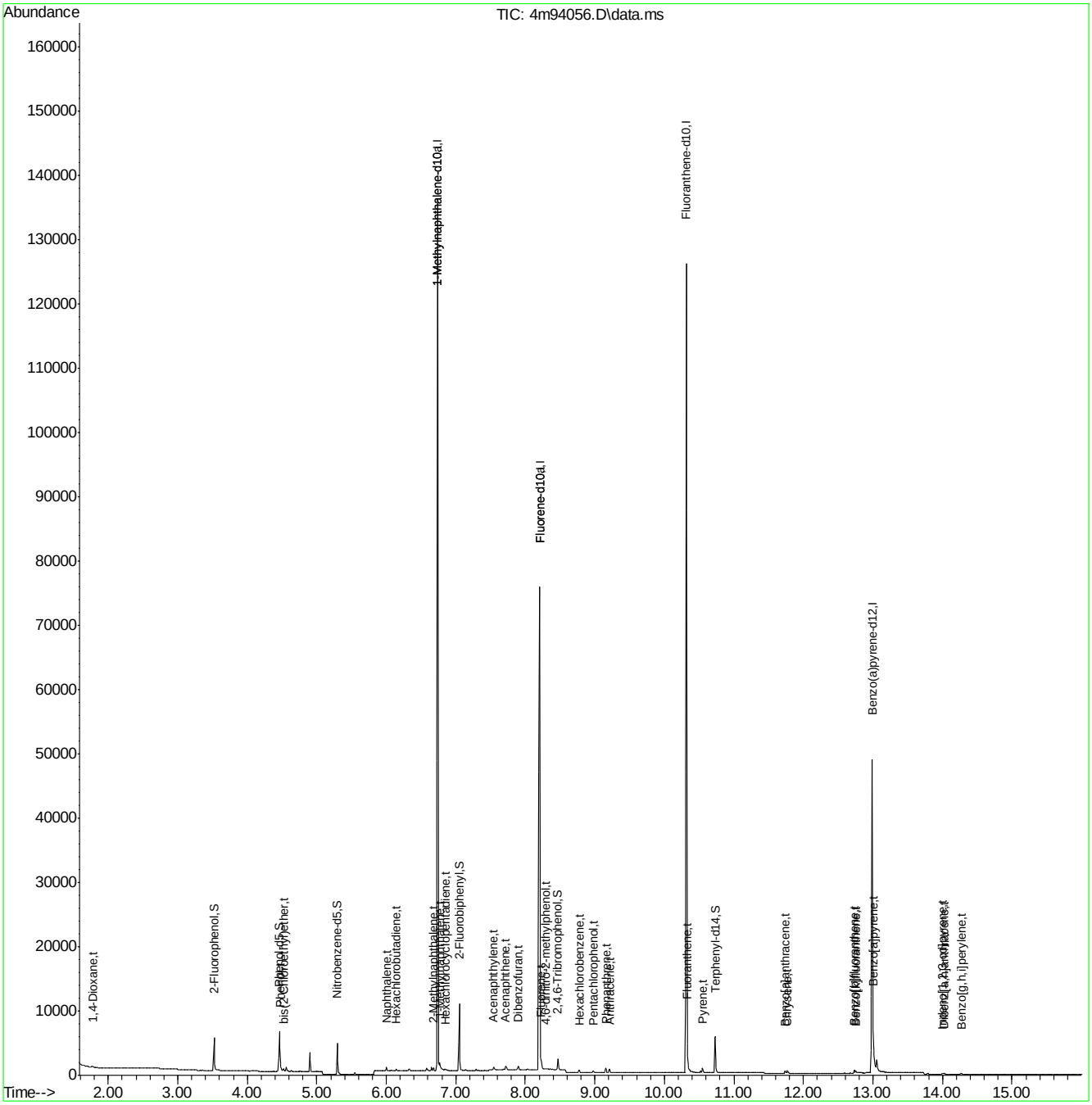
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94056.D
Acq On : 22 Jul 2020 11:29 am
Operator : angelar
Sample : ic4347-0.02
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 22 12:07:37 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 09:17:27 2020
Response via : Initial Calibration



Manual Integration Approval Summary

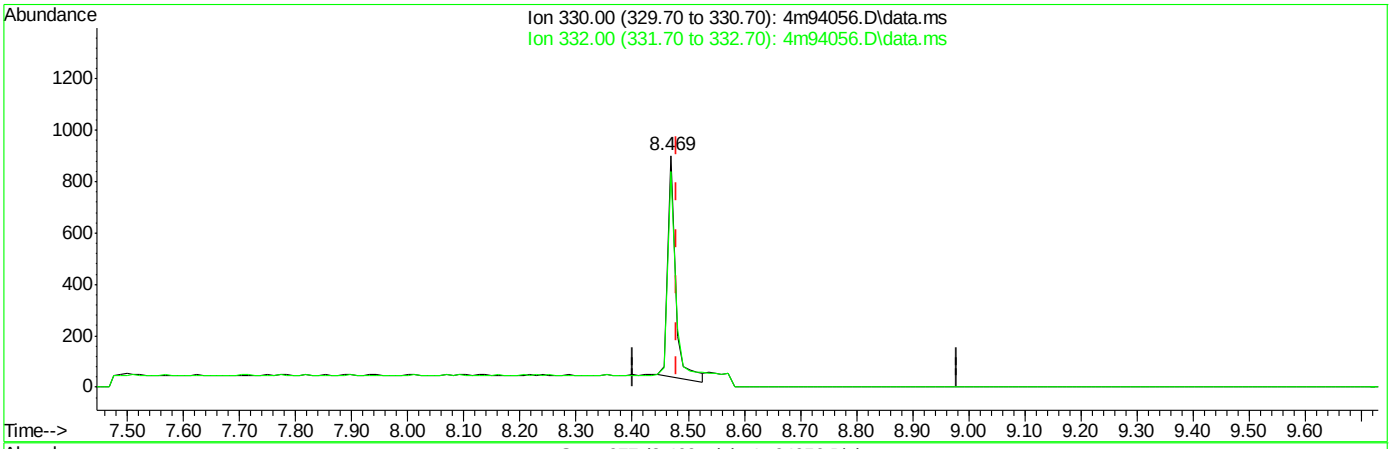
Sample Number: E4M4347-IC4347
Lab FileID: 4M94056.D
Injection Time: 07/22/20 11:29
Method: SW846 8270D BY SIM
Analyst approved: 07/22/20 12:53 Kristi Schollenberger
Supervisor approved: 07/23/20 09:08 Nina Pandya

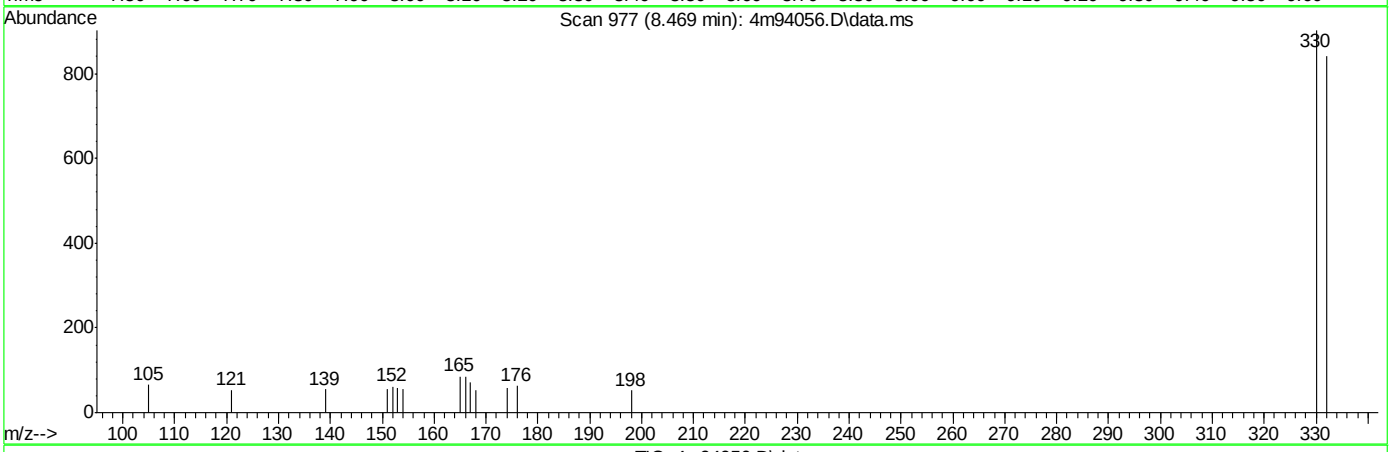
Parameter	CAS	Sig#	R.T. (min.)	Reason
1,4-Dioxane	123-91-1		1.77	Poor instrument integration
2,4,6-Tribromophenol	118-79-6		8.47	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94056.D
Acq On : 22 Jul 2020 11:29 am
Operator : angelar
Sample : ic4347-0.02
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 22 12:06:46 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 09:17:27 2020
Response via : Initial Calibration





TIC: 4m94056.D\data.ms

(17) 2,4,6-Tribromophenol (S)

8.469min (-0.011) 0.44ppm

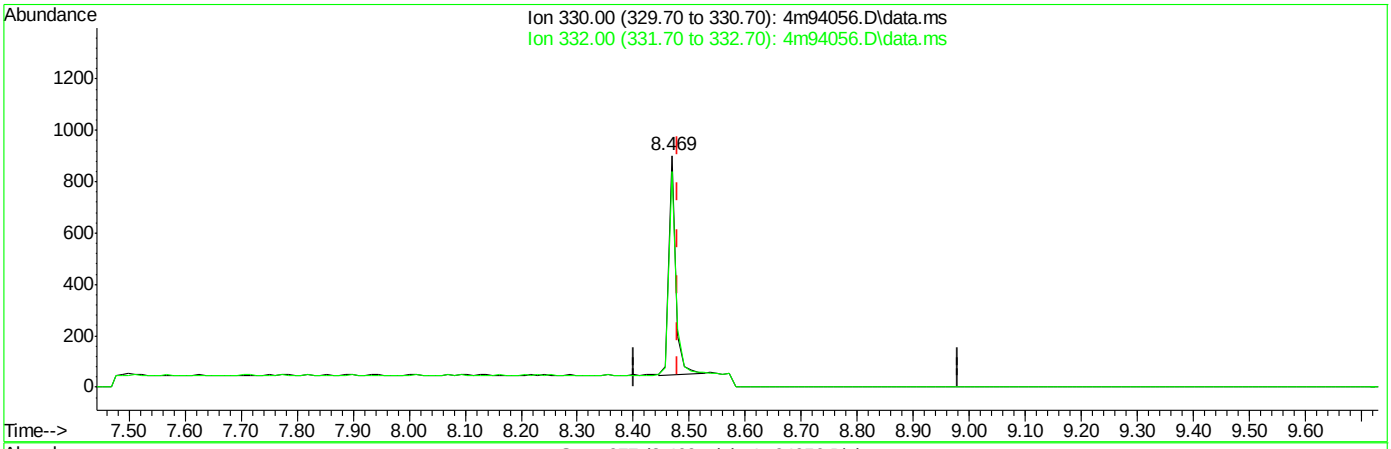
response 825

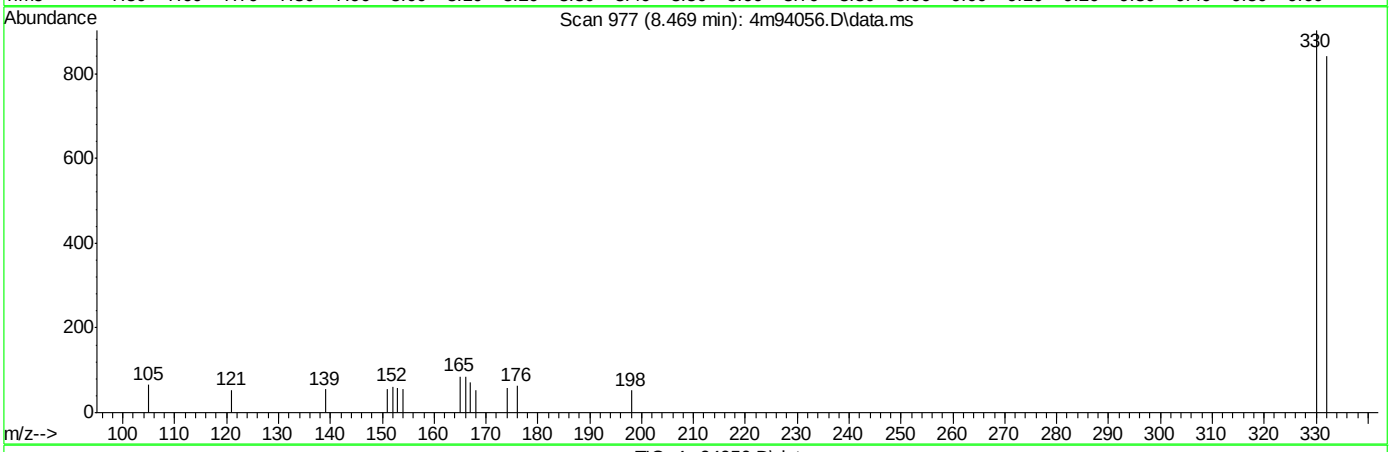
Ion	Exp%	Act%
330.00	100	100
332.00	99.80	92.66
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94056.D
Acq On : 22 Jul 2020 11:29 am
Operator : angelar
Sample : ic4347-0.02
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 22 12:06:46 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 09:17:27 2020
Response via : Initial Calibration





TIC: 4m94056.D\data.ms

(17) 2,4,6-Tribromophenol (S)

8.469min (-0.011) 0.40ppm m

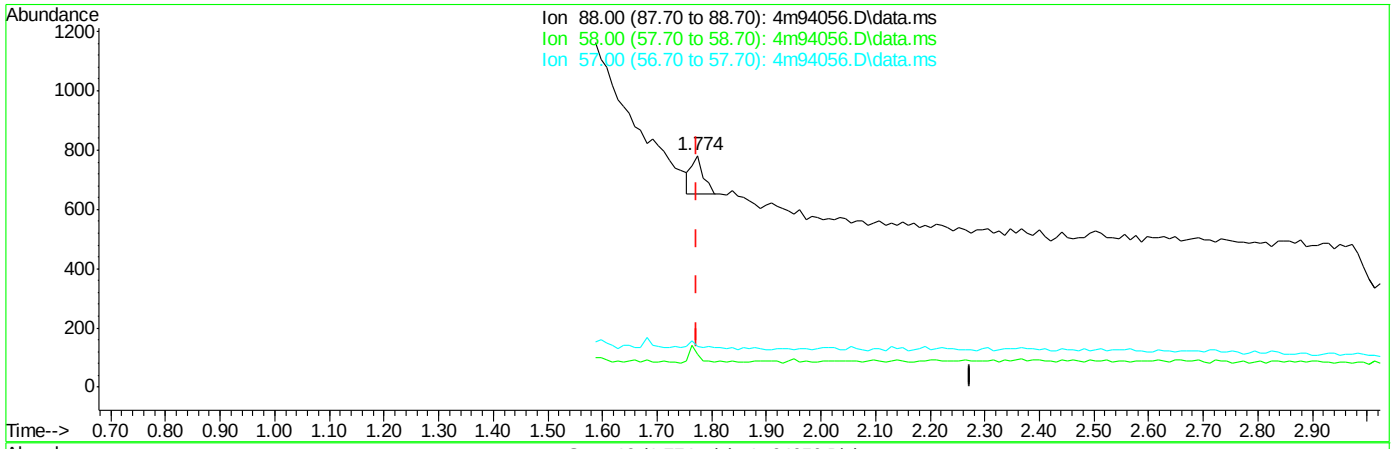
response 746

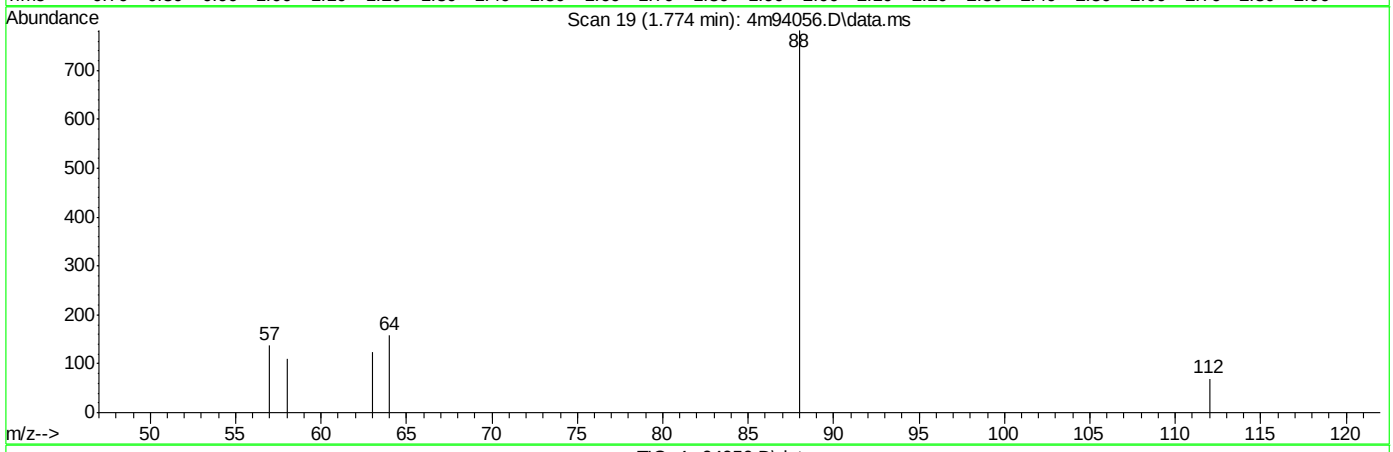
Ion	Exp%	Act%
330.00	100	100
332.00	99.80	93.24
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94056.D
Acq On : 22 Jul 2020 11:29 am
Operator : angelar
Sample : ic4347-0.02
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 22 12:06:46 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 09:17:27 2020
Response via : Initial Calibration





TIC: 4m94056.D\data.ms

(36) 1,4-Dioxane (t)

1.774min (+0.000) 0.06ppm

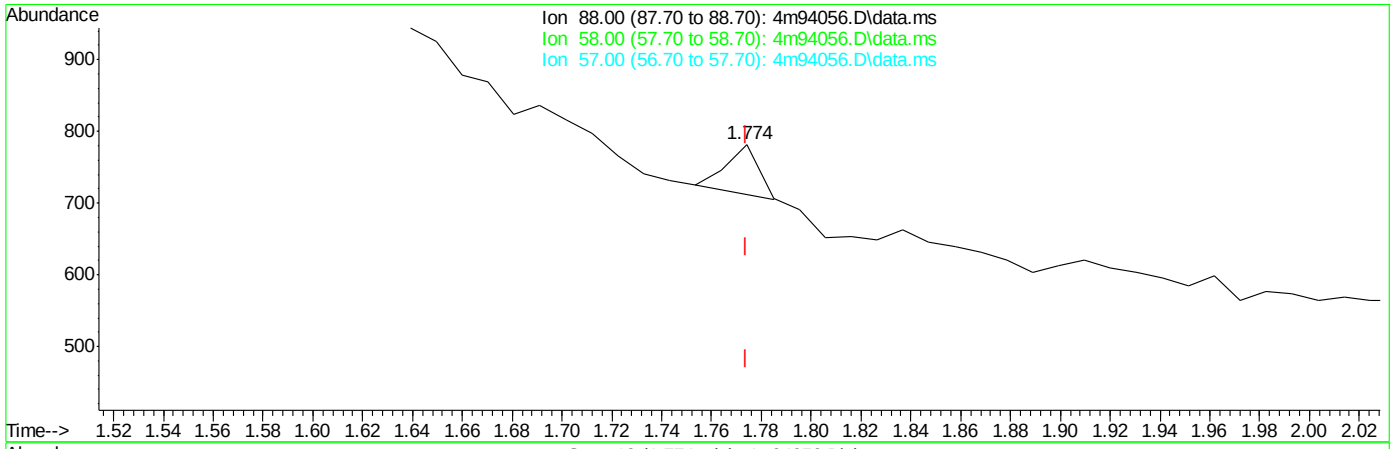
response 197

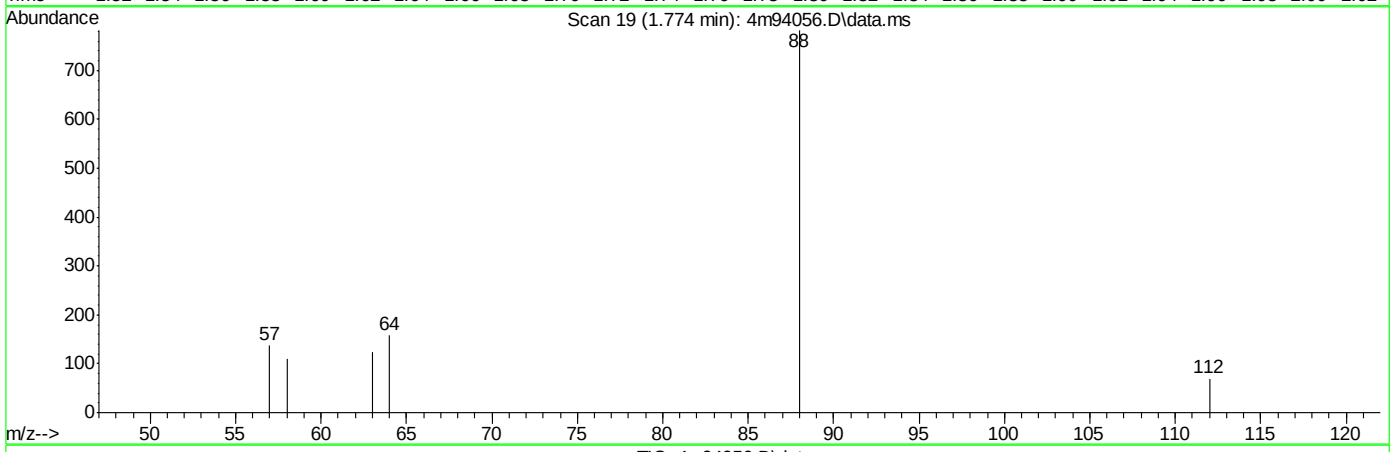
Ion	Exp%	Act%
88.00	100	100
58.00	61.70	26.20#
57.00	20.30	2.14
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94056.D
Acq On : 22 Jul 2020 11:29 am
Operator : angelar
Sample : ic4347-0.02
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 22 12:06:46 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 09:17:27 2020
Response via : Initial Calibration





TIC: 4m94056.D\data.ms

(36) 1,4-Dioxane (t)

1.774min (+0.000) 0.02ppm m

response 55

Ion	Exp%	Act%
88.00	100	100
58.00	61.70	14.19#
57.00	20.30	17.65
0.00	0.00	0.00

Manual Integrations APPROVED
(compounds with "m" flag)
Nina Pandya
07/23/20 09:08

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94057.D
Acq On : 22 Jul 2020 11:53 am
Operator : angelar
Sample : ic4347-0.01
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 22 12:10:29 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 09:17:27 2020
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1-Methylnaphthalene-d10	6.738	152	48452	4.00	ppm		0.00
12) Fluorene-d10	8.206	176	50172	4.00	ppm		-0.01
22) Fluoranthene-d10	10.319	212	87046	4.00	ppm		0.00
28) Benzo(a)pyrene-d12	12.991	264	46731	4.00	ppm		0.00
35) 1-Methylnaphthalene-d10a	6.738	152	48452	4.00	ppm	#	0.00
38) Fluorene-d10a	8.206	176	50172	4.00	ppm		-0.01
System Monitoring Compounds							
2) 2-Fluorophenol	3.523	112	1588	0.23	ppm		-0.01
Spiked Amount 50.000	Range 11 - 58		Recovery =	0.46%#			
3) Phenol-d5	4.461	99	1829	0.20	ppm		-0.01
Spiked Amount 50.000			Recovery =	0.40%			
6) Nitrobenzene-d5	5.293	82	1727	0.27	ppm		0.00
Spiked Amount 50.000			Recovery =	0.54%			
11) 2-Fluorobiphenyl	7.050	172	3335	0.20	ppm		0.00
Spiked Amount 50.000			Recovery =	0.40%			
17) 2,4,6-Tribromophenol	8.468	330	416m	0.19	ppm		-0.01
Spiked Amount 50.000			Recovery =	0.38%			
25) Terphenyl-d14	10.732	244	2203	0.15	ppm		-0.01
Spiked Amount 50.000			Recovery =	0.30%			
Target Compounds							Qvalue
4) Phenol	4.472	94	476	0.05	ppm		89
5) bis(2-Chloroethyl)ether	4.521	93	72	0.01	ppm	#	65
7) Naphthalene	6.001	128	245	0.01	ppm		87
8) Hexachlorobutadiene	6.140	225	65	0.01	ppm		80
9) 2-Methylnaphthalene	6.681	142	181	0.01	ppm		97
10) Hexachlorocyclopentadiene	6.845	237	47	0.01	ppm	#	1
13) Acenaphthylene	7.544	152	220	0.01	ppm		71
14) Acenaphthene	7.716	153	144	0.01	ppm	#	82
15) Dibenzofuran	7.898	168	216	0.01	ppm		84
16) Fluorene	8.229	166	162	0.01	ppm		95
18) Hexachlorobenzene	8.774	284	70	0.01	ppm		77
19) Pentachlorophenol	8.974	266	79	0.03	ppm		79
20) Phenanthrene	9.157	178	244	0.01	ppm		92
21) Anthracene	9.210	178	214	0.01	ppm		92
23) Fluoranthene	10.334	202	296	0.01	ppm		61
24) Pyrene	10.554	202	251	0.01	ppm		89
26) Benzo[a]anthracene	11.739	228	156	0.01	ppm	#	60
27) Chrysene	11.771	228	190	0.01	ppm		72
29) Benzo[b]fluoranthene	12.736	252	139	0.01	ppm		79
30) Benzo[k]fluoranthene	12.759	252	117	0.01	ppm		97
31) Benzo[a]pyrene	13.009	252	175	0.01	ppm		88
32) Indeno[1,2,3-cd]pyrene	14.008	276	123	0.01	ppm		86
33) Dibenz[a,h]anthracene	14.025	278	84	0.01	ppm	#	14
34) Benzo[g,h,i]perylene	14.277	276	117	0.01	ppm		100
37) 1-Methylnaphthalene	6.771	142	182	0.01	ppm		88

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94057.D
Acq On : 22 Jul 2020 11:53 am
Operator : angelar
Sample : ic4347-0.01
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 22 12:10:29 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 09:17:27 2020
Response via : Initial Calibration

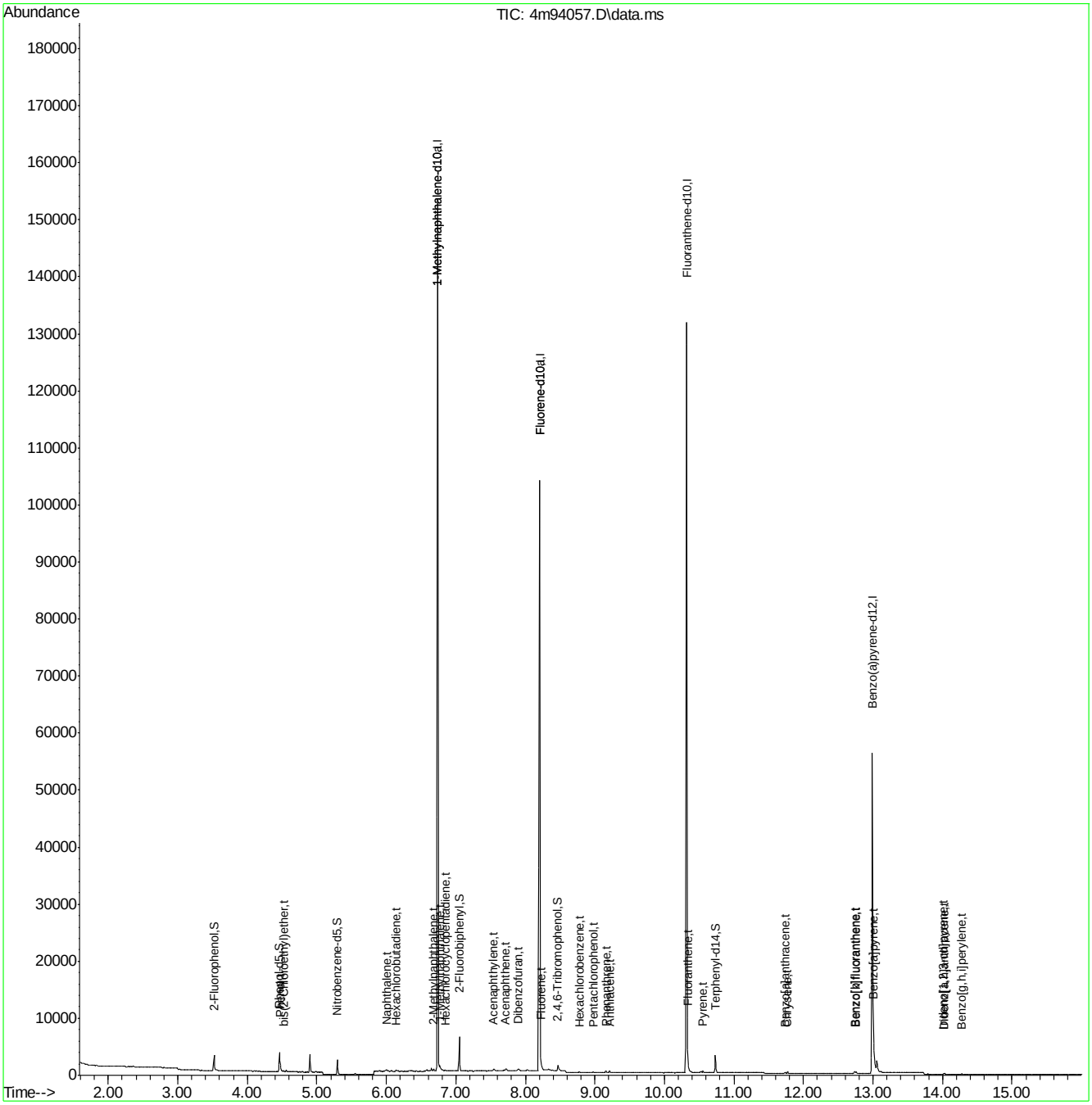
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94057.D
Acq On : 22 Jul 2020 11:53 am
Operator : angelar
Sample : ic4347-0.01
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 22 12:10:29 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 09:17:27 2020
Response via : Initial Calibration



Manual Integration Approval Summary

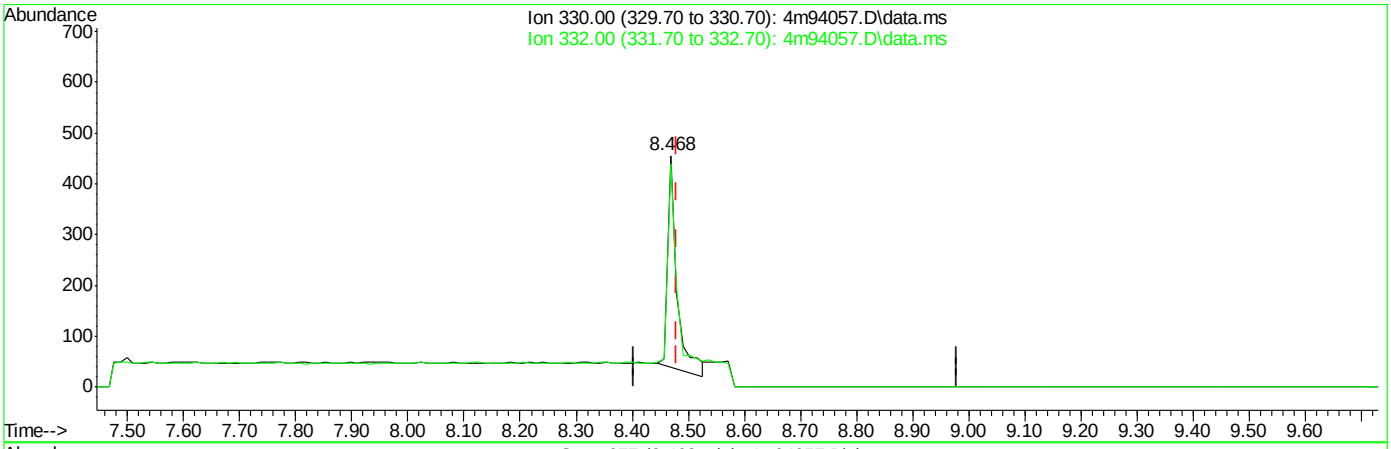
Sample Number:	E4M4347-IC4347	**Method:**	SW846 8270D BY SIM
Lab FileID:	4M94057.D	**Analyst approved:**	07/22/20 12:53 Kristi Schollenberger
Injection Time:	07/22/20 11:53	**Supervisor approved:**	07/23/20 09:08 Nina Pandya

Parameter	CAS	Sig#	R.T. (min.)	Reason
2,4,6-Tribromophenol	118-79-6		8.47	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94057.D
Acq On : 22 Jul 2020 11:53 am
Operator : angelar
Sample : ic4347-0.01
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 22 12:09:40 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 09:17:27 2020
Response via : Initial Calibration



TIC: 4m94057.D\data.ms

(17) 2,4,6-Tribromophenol (S)

8.468min (-0.012) 0.22ppm

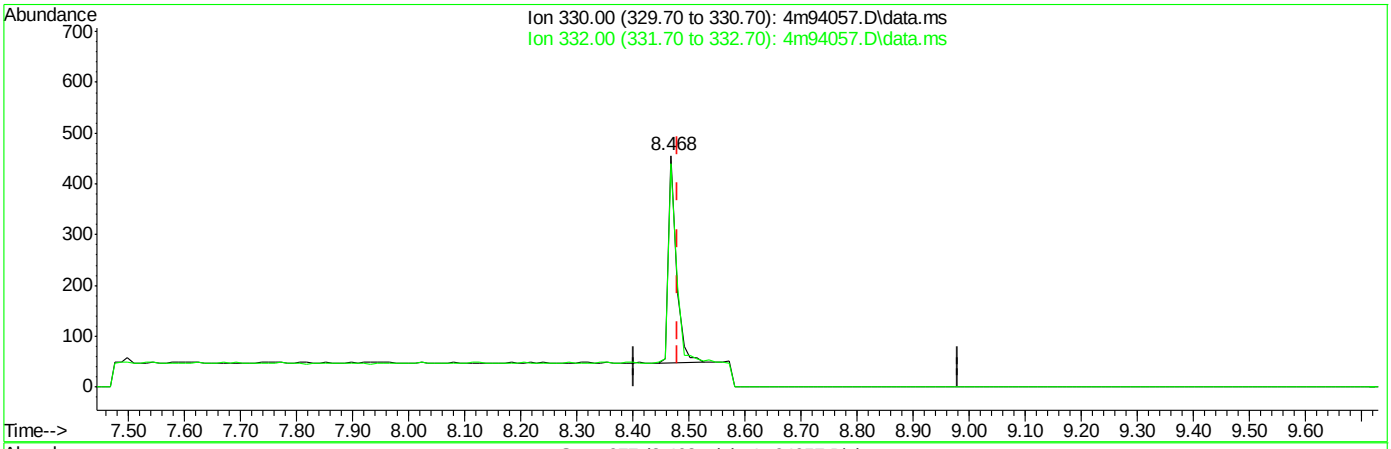
response 481

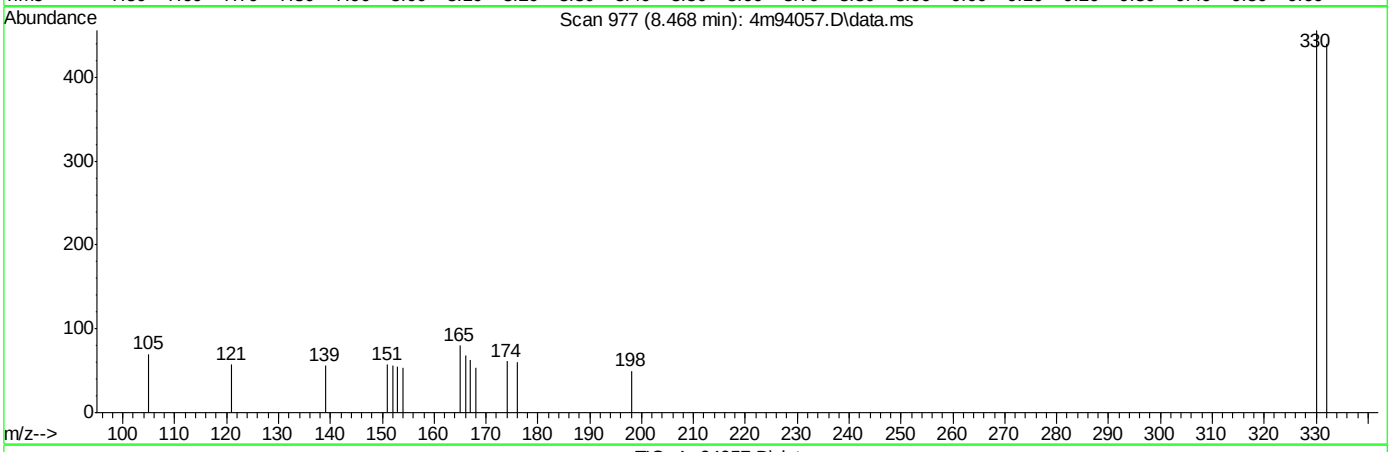
Ion	Exp%	Act%
330.00	100	100
332.00	99.80	95.71
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94057.D
Acq On : 22 Jul 2020 11:53 am
Operator : angelar
Sample : ic4347-0.01
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 22 12:09:40 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 09:17:27 2020
Response via : Initial Calibration





TIC: 4m94057.D\data.ms

(17) 2,4,6-Tribromophenol (S)

8.468min (-0.012) 0.19ppm m

response 416

Ion	Exp%	Act%
330.00	100	100
332.00	99.80	96.49
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94058.D
Acq On : 22 Jul 2020 12:14 pm
Operator : angelar
Sample : icv4347-1
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 22 12:33:05 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 12:21:59 2020
Response via : Initial Calibration

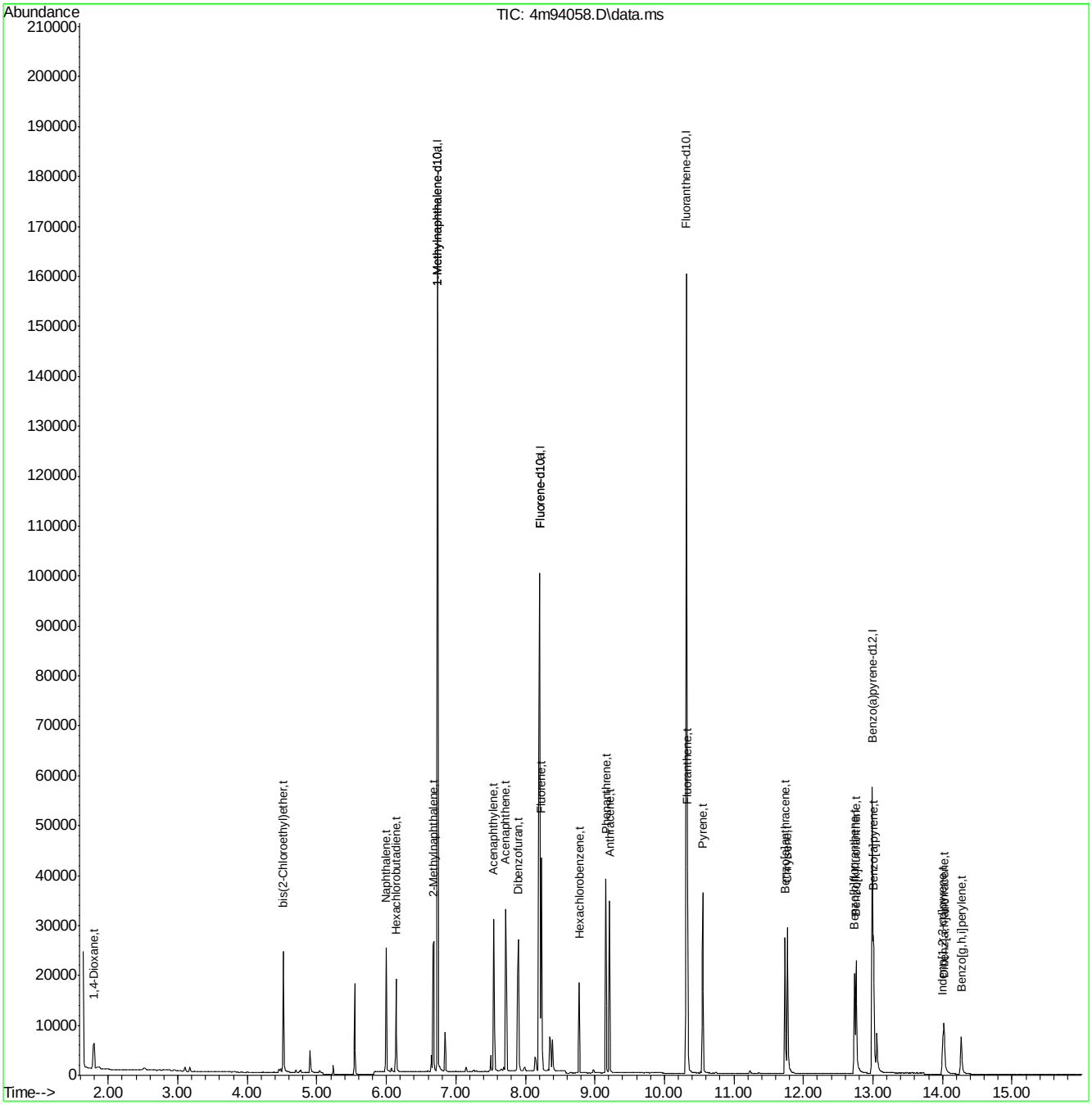
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	6.739	152	56438	4.00	ppm	0.00
12) Fluorene-d10	8.206	176	58047	4.00	ppm	-0.01
22) Fluoranthene-d10	10.315	212	98424	4.00	ppm	-0.01
28) Benzo(a)pyrene-d12	12.987	264	50538	4.00	ppm	-0.01
35) 1-Methylnaphthalene-d10a	6.739	152	56438	4.00	ppm	0.00
38) Fluorene-d10a	8.206	176	58047	4.00	ppm	-0.01
System Monitoring Compounds						
2) 2-Fluorophenol	0.000	112	0d	0.00	ppm	
Spiked Amount 50.000	Range 11 - 58		Recovery =	0.00%#		
3) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
6) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
11) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
17) 2,4,6-Tribromophenol	0.000	330	0d	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
25) Terphenyl-d14	0.000	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
Target Compounds						Qvalue
5) bis(2-Chloroethyl)ether	4.518	93	8090	0.86	ppm	87
7) Naphthalene	5.993	128	23205	0.82	ppm	100
8) Hexachlorobutadiene	6.140	225	5633	0.85	ppm	99
9) 2-Methylnaphthalene	6.681	142	14508	0.84	ppm	87
13) Acenaphthylene	7.545	152	20257	0.78	ppm	99
14) Acenaphthene	7.716	153	13299	0.81	ppm	97
15) Dibenzofuran	7.898	168	20247	0.84	ppm	96
16) Fluorene	8.229	166	16305	0.80	ppm	97
18) Hexachlorobenzene	8.774	284	5723	0.80	ppm	98
20) Phenanthrene	9.158	178	23007	0.84	ppm	100
21) Anthracene	9.210	178	19788	0.79	ppm	99
23) Fluoranthene	10.331	202	25911	0.82	ppm	100
24) Pyrene	10.550	202	22760	0.80	ppm	98
26) Benzo[a]anthracene	11.736	228	15166	0.77	ppm	98
27) Chrysene	11.771	228	20724	0.88	ppm	99
29) Benzo[b]fluoranthene	12.733	252	12631	0.76	ppm	95
30) Benzo[k]fluoranthene	12.756	252	17097	0.92	ppm	99
31) Benzo[a]pyrene	13.006	252	16455	0.86	ppm	98
32) Indeno[1,2,3-cd]pyrene	14.001	276	12833	0.79	ppm	94
33) Dibenz[a,h]anthracene	14.022	278	9651	0.71	ppm	96
34) Benzo[g,h,i]perylene	14.270	276	11728	0.85	ppm	100
36) 1,4-Dioxane	1.795	88	4063	0.78	ppm	85

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94058.D
Acq On : 22 Jul 2020 12:14 pm
Operator : angelar
Sample : icv4347-1
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 22 12:33:05 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 12:21:59 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94059.D
Acq On : 22 Jul 2020 12:36 pm
Operator : angelar
Sample : icv4347-5
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 22 12:52:53 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 12:21:59 2020
Response via : Initial Calibration

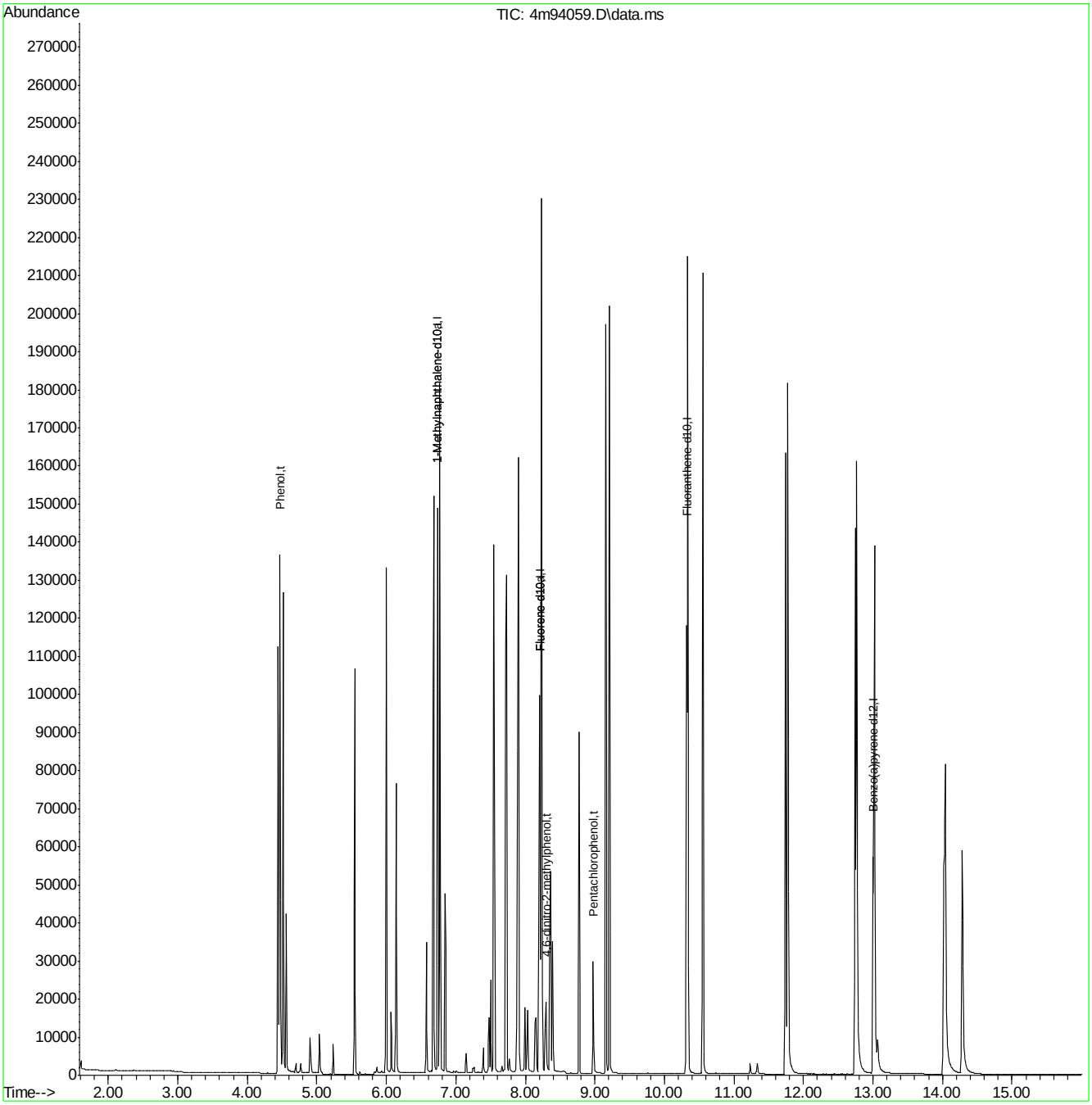
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	6.738	152	46184	4.00	ppm	0.00
12) Fluorene-d10	8.206	176	48330	4.00	ppm	-0.01
22) Fluoranthene-d10	10.319	212	84342	4.00	ppm	0.00
28) Benzo(a)pyrene-d12	13.002	264	50560	4.00	ppm	0.00
35) 1-Methylnaphthalene-d10a	6.738	152	46184	4.00	ppm	0.00
38) Fluorene-d10a	8.206	176	48330	4.00	ppm	-0.01
System Monitoring Compounds						
2) 2-Fluorophenol	0.000	112	0d	0.00	ppm	
Spiked Amount 50.000	Range 11 - 58		Recovery =	0.00%#		
3) Phenol-d5	0.000	99	0d	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
6) Nitrobenzene-d5	0.000	82	0d	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
11) 2-Fluorobiphenyl	0.000	172	0d	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
17) 2,4,6-Tribromophenol	0.000	330	0d	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
25) Terphenyl-d14	0.000	244	0d	0.00	ppm	
Spiked Amount 50.000			Recovery =	0.00%		
Target Compounds						Qvalue
4) Phenol	4.469	94	49322	4.94	ppm	80
19) Pentachlorophenol	8.975	266	11546	4.24	ppm	93
39) 4,6-dinitro-2-methylph...	8.297	198	10522	4.68	ppm	90

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\E4M4347\
Data File : 4m94059.D
Acq On : 22 Jul 2020 12:36 pm
Operator : angelar
Sample : icv4347-5
Misc : op25425a,e4m4347,1000,,,1,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jul 22 12:52:53 2020
Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Wed Jul 22 12:21:59 2020
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\data_aimeel\e4m4348\
Data File : 4m94063.d
Acq On : 22 Jul 2020 11:42 pm
Operator : chriss2
Sample : cc4347-0.5 Inst : GCMS4M
Misc : op25425a,e4m4348,1000,,,1,1
ALS Vial : 2 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Results File: M4M4347SIM.RES
Quant Time: Jul 24 03:14:14 2020
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Fri Jul 24 03:13:51 2020
Response via : Initial Calibration

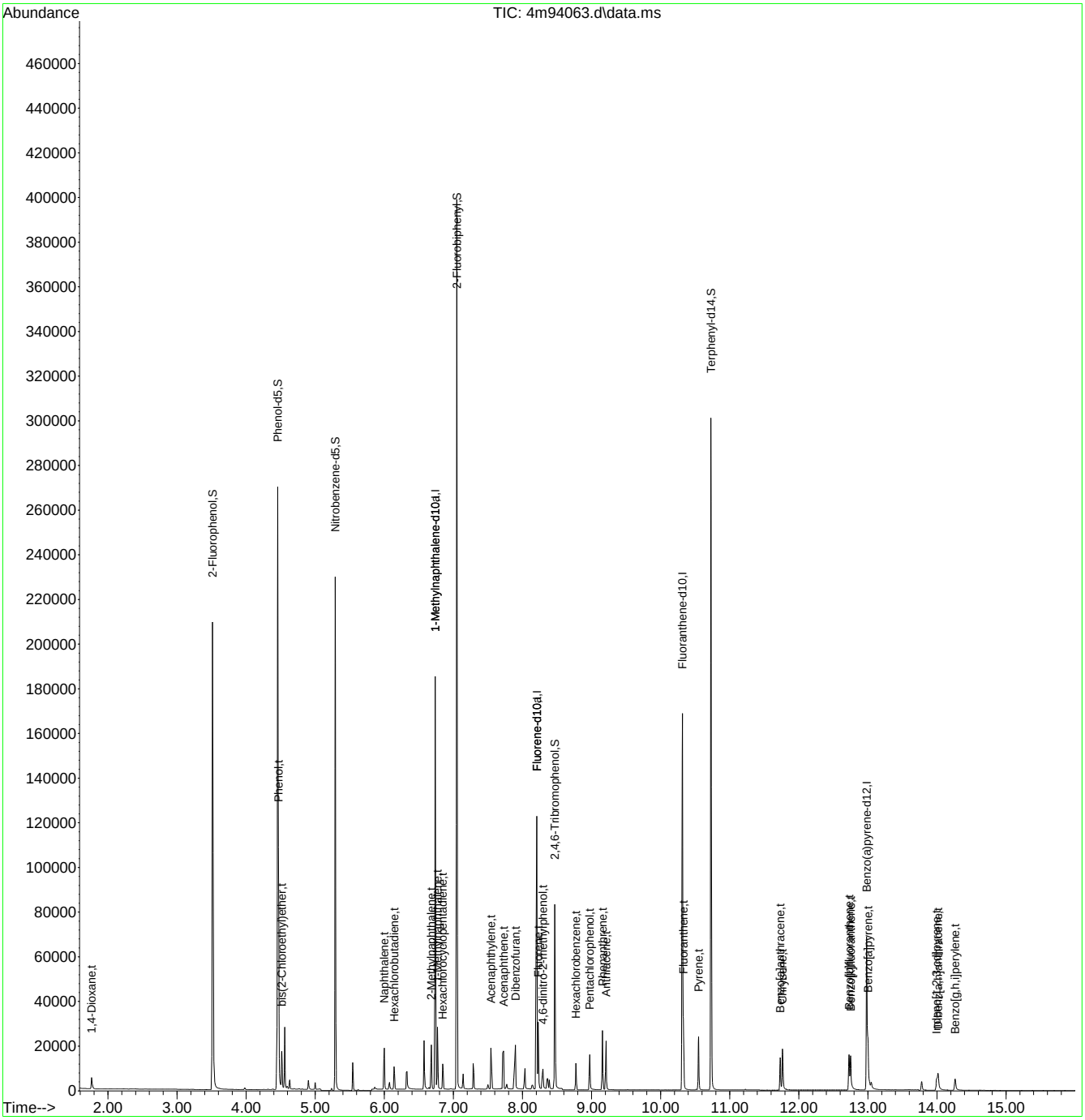
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	6.738	152	59247	4.00	ppm	0.00
12) Fluorene-d10	8.206	176	61766	4.00	ppm	0.00
22) Fluoranthene-d10	10.315	212	105458	4.00	ppm	0.00
28) Benzo(a)pyrene-d12	12.981	264	59655	4.00	ppm	0.00
35) 1-Methylnaphthalene-d10a	6.738	152	59247	4.00	ppm	0.00
38) Fluorene-d10a	8.206	176	61766	4.00	ppm	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	3.513	112	97254	10.35	ppm	0.00
Spiked Amount 50.000	Range 11 - 58		Recovery = 20.70%			
3) Phenol-d5	4.457	99	129660	10.80	ppm	0.00
Spiked Amount 50.000			Recovery = 21.60%			
6) Nitrobenzene-d5	5.290	82	125329	10.82	ppm	0.00
Spiked Amount 50.000			Recovery = 21.64%			
11) 2-Fluorobiphenyl	7.050	172	217252	10.47	ppm	0.00
Spiked Amount 50.000			Recovery = 20.94%			
17) 2,4,6-Tribromophenol	8.469	330	32585	11.00	ppm	0.00
Spiked Amount 50.000			Recovery = 22.00%			
25) Terphenyl-d14	10.728	244	187107	11.46	ppm	0.00
Spiked Amount 50.000			Recovery = 22.92%			
Target Compounds						Qvalue
4) Phenol	4.469	94	34991	2.73	ppm	100
5) bis(2-Chloroethyl)ether	4.518	93	5383	0.54	ppm	100
7) Naphthalene	6.001	128	15128	0.51	ppm	100
8) Hexachlorobutadiene	6.140	225	3467	0.50	ppm	100
9) 2-Methylnaphthalene	6.681	142	9366	0.52	ppm	100
10) Hexachlorocyclopentadiene	6.845	237	5848	1.00	ppm	100
13) Acenaphthylene	7.545	152	13526	0.49	ppm	100
14) Acenaphthene	7.727	153	8621	0.49	ppm	100
15) Dibenzofuran	7.898	168	13056	0.51	ppm	100
16) Fluorene	8.229	166	11114	0.51	ppm	100
18) Hexachlorobenzene	8.774	284	3767	0.49	ppm	100
19) Pentachlorophenol	8.975	266	6505	1.97	ppm	100
20) Phenanthrene	9.158	178	15204	0.52	ppm	100
21) Anthracene	9.210	178	13214	0.50	ppm	100
23) Fluoranthene	10.331	202	17363	0.51	ppm	100
24) Pyrene	10.550	202	15132	0.50	ppm	100
26) Benzo[a]anthracene	11.730	228	9032	0.43	ppm	100
27) Chrysene	11.765	228	12930	0.51	ppm	100
29) Benzo[b]fluoranthene	12.727	252	9598	0.49	ppm	100
30) Benzo[k]fluoranthene	12.750	252	12326	0.56	ppm	100
31) Benzo[a]pyrene	13.000	252	12000	0.53	ppm	100
32) Indeno[1,2,3-cd]pyrene	13.996	276	9174	0.48	ppm	100
33) Dibenz[a,h]anthracene	14.016	278	7145	0.45	ppm	100
34) Benzo[g,h,i]perylene	14.265	276	7926	0.49	ppm	100
36) 1,4-Dioxane	1.764	88	3225	0.59	ppm	100
37) 1-Methylnaphthalene	6.771	142	10280	0.51	ppm	100
39) 4,6-dinitro-2-methylph...	8.297	198	5309	2.11	ppm	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\data_aimeel\e4m4348\
Data File : 4m94063.d
Acq On : 22 Jul 2020 11:42 pm
Operator : chriss2
Sample : cc4347-0.5 Inst : GCMS4M
Misc : op25425a,e4m4348,1000,,,1,1
ALS Vial : 2 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Results File: M4M4347SIM.RES
Quant Time: Jul 24 03:14:14 2020
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Fri Jul 24 03:13:51 2020
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Nina Pandya
07/24/20 12:40

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\data_aimeel\e4m4348\
Data File : 4m94089.d
Acq On : 23 Jul 2020 9:17 am
Operator : chriss2
Sample : ecc4347-0.5 Inst : GCMS4M
Misc : op28540a,e4m4348,1000,,,1,1
ALS Vial : 2 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Results File: M4M4347SIM.RES
Quant Time: Jul 24 04:39:23 2020
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Fri Jul 24 04:37:48 2020
Response via : Initial Calibration

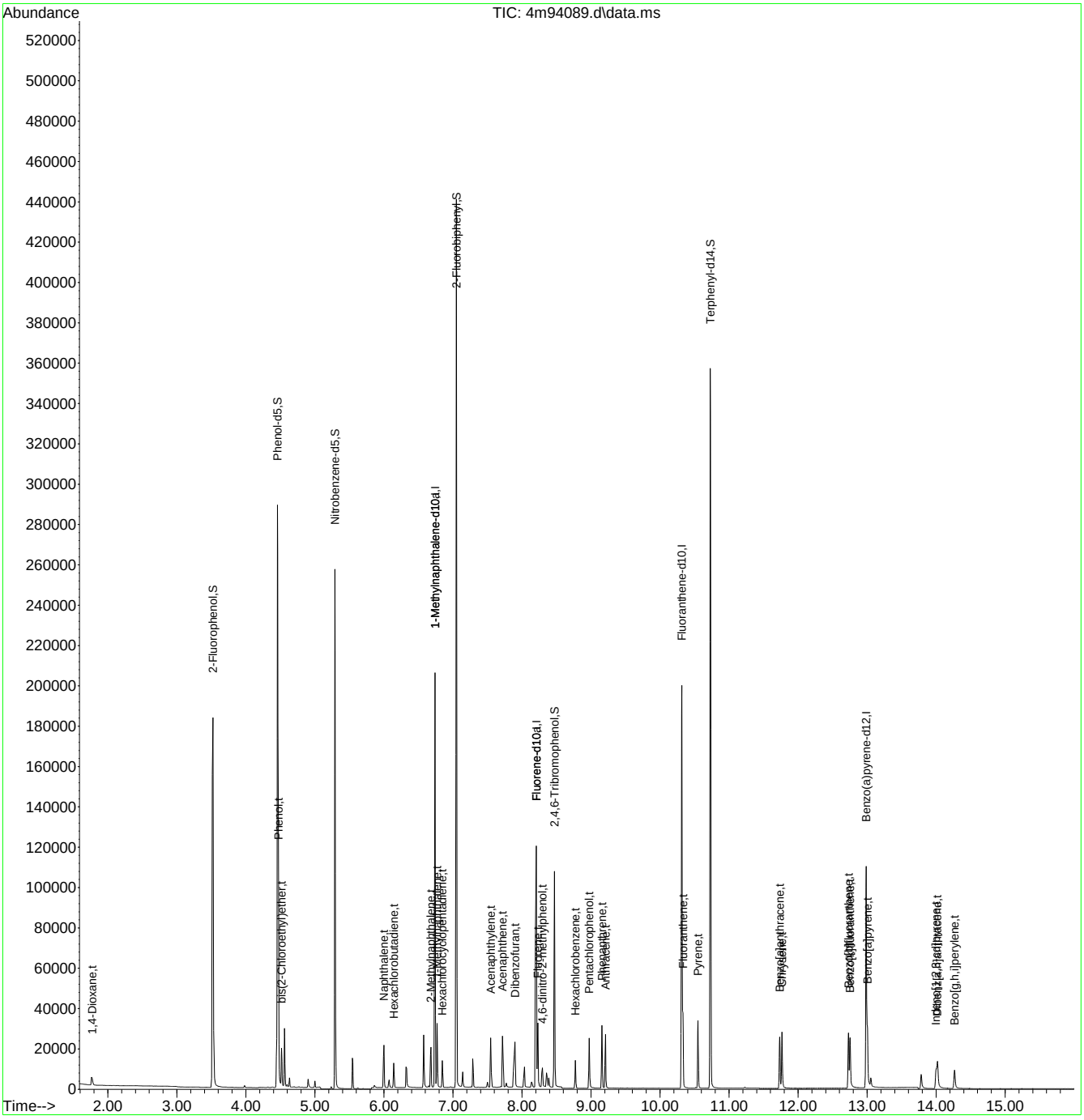
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	6.739	152	67126	4.00	ppm	0.00
12) Fluorene-d10	8.206	176	68986	4.00	ppm	0.00
22) Fluoranthene-d10	10.315	212	128298	4.00	ppm	0.00
28) Benzo(a)pyrene-d12	12.987	264	85878	4.00	ppm	0.00
35) 1-Methylnaphthalene-d10a	6.739	152	67126	4.00	ppm	0.00
38) Fluorene-d10a	8.206	176	68986	4.00	ppm	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	3.523	112	109462	10.28	ppm	0.00
Spiked Amount 50.000	Range 11 - 58		Recovery = 20.56%			
3) Phenol-d5	4.457	99	146429	10.77	ppm	0.00
Spiked Amount 50.000			Recovery = 21.54%			
6) Nitrobenzene-d5	5.290	82	139256	10.61	ppm	0.00
Spiked Amount 50.000			Recovery = 21.22%			
11) 2-Fluorobiphenyl	7.050	172	246334	10.48	ppm	0.00
Spiked Amount 50.000			Recovery = 20.96%			
17) 2,4,6-Tribromophenol	8.469	330	40615	12.27	ppm	0.00
Spiked Amount 50.000			Recovery = 24.54%			
25) Terphenyl-d14	10.728	244	228367	11.50	ppm	0.00
Spiked Amount 50.000			Recovery = 23.00%			
Target Compounds						Qvalue
4) Phenol	4.472	94	39290	2.71	ppm	100
5) bis(2-Chloroethyl)ether	4.518	93	6003	0.54	ppm	100
7) Naphthalene	6.001	128	17287	0.51	ppm	100
8) Hexachlorobutadiene	6.140	225	3896	0.49	ppm	100
9) 2-Methylnaphthalene	6.681	142	10289	0.50	ppm	100
10) Hexachlorocyclopentadiene	6.845	237	6103	0.92	ppm	100
13) Acenaphthylene	7.545	152	16688	0.54	ppm	100
14) Acenaphthene	7.716	153	10314	0.53	ppm	100
15) Dibenzofuran	7.898	168	15386	0.53	ppm	100
16) Fluorene	8.229	166	12390	0.51	ppm	100
18) Hexachlorobenzene	8.774	284	4432	0.52	ppm	100
19) Pentachlorophenol	8.975	266	10231	2.71	ppm	100
20) Phenanthrene	9.158	178	17809	0.54	ppm	100
21) Anthracene	9.210	178	16935	0.57	ppm	100
23) Fluoranthene	10.331	202	20843	0.51	ppm	100
24) Pyrene	10.550	202	20157	0.54	ppm	100
26) Benzo[a]anthracene	11.733	228	15563	0.61	ppm	100
27) Chrysene	11.768	228	17458	0.57	ppm	100
29) Benzo[b]fluoranthene	12.730	252	15881	0.57	ppm	100
30) Benzo[k]fluoranthene	12.753	252	17659	0.56	ppm	100
31) Benzo[a]pyrene	13.006	252	16745	0.52	ppm	100
32) Indeno[1,2,3-cd]pyrene	13.998	276	15398	0.56	ppm	100
33) Dibenz[a,h]anthracene	14.018	278	12610	0.55	ppm	100
34) Benzo[g,h,i]perylene	14.267	276	13194	0.56	ppm	100
36) 1,4-Dioxane	1.774	88	3013m	0.49	ppm	
37) 1-Methylnaphthalene	6.771	142	11600	0.51	ppm	100
39) 4,6-dinitro-2-methylph...	8.298	198	5669	2.03	ppm	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\data_aimeel\e4m4348\
Data File : 4m94089.d
Acq On : 23 Jul 2020 9:17 am
Operator : chriss2
Sample : ecc4347-0.5 Inst : GCMS4M
Misc : op28540a,e4m4348,1000,,,1,1
ALS Vial : 2 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Results File: M4M4347SIM.RES
Quant Time: Jul 24 04:39:23 2020
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Fri Jul 24 04:37:48 2020
Response via : Initial Calibration



Manual Integration Approval Summary

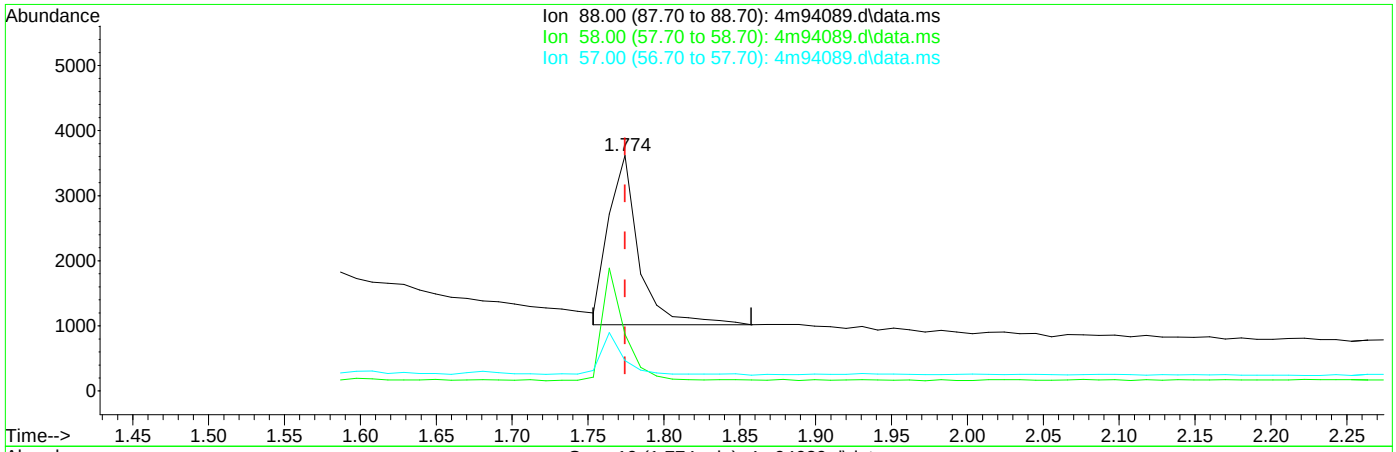
Sample Number: E4M4348-ECC4347
Lab FileID: 4M94089.D
Injection Time: 07/23/20 09:17
Method: SW846 8270D BY SIM
Analyst approved: 07/24/20 04:41 Aimee Laurente
Supervisor approved: 07/24/20 12:40 Nina Pandya

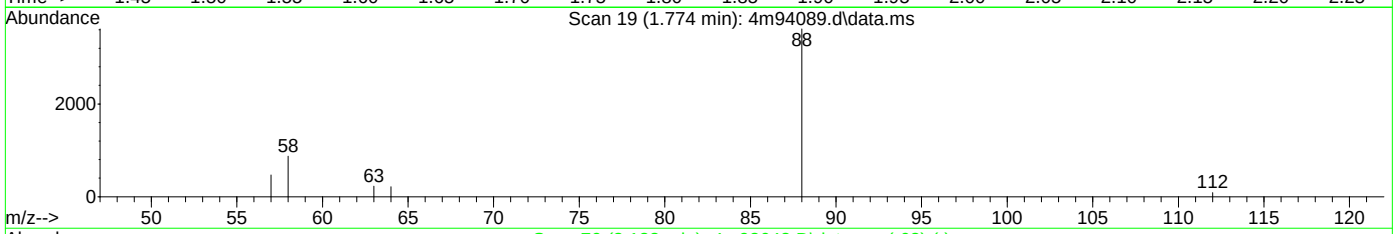
Parameter	CAS	Sig#	R.T. (min.)	Reason
1,4-Dioxane	123-91-1		1.77	Poor instrument integration

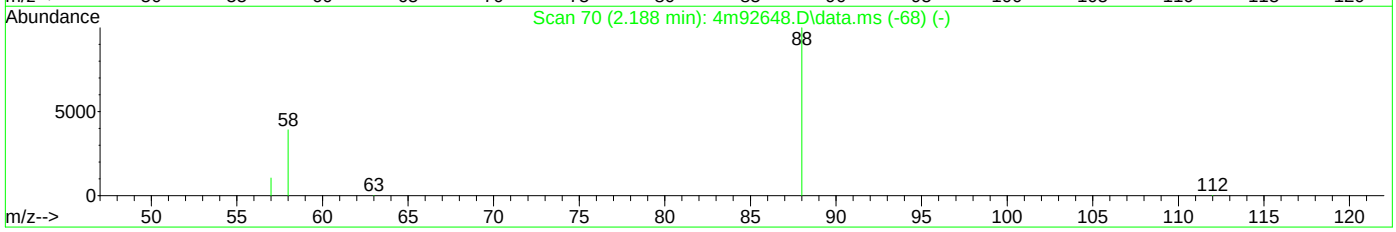
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\data_aimeel\e4m4348\
Data File : 4m94089.d
Acq On : 23 Jul 2020 9:17 am
Operator : chriss2
Sample : ecc4347-0.5 Inst : GCMS4M
Misc : op28540a,e4m4348,1000,,,1,1
ALS Vial : 2 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Results File: M4M4347SIM.RES
Quant Time: Jul 24 04:37:59 2020
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Fri Jul 24 04:37:48 2020
Response via : Initial Calibration







TIC: 4m94089.d\data.ms

(36) 1,4-Dioxane (t)

1.774min (0.000) 0.59ppm

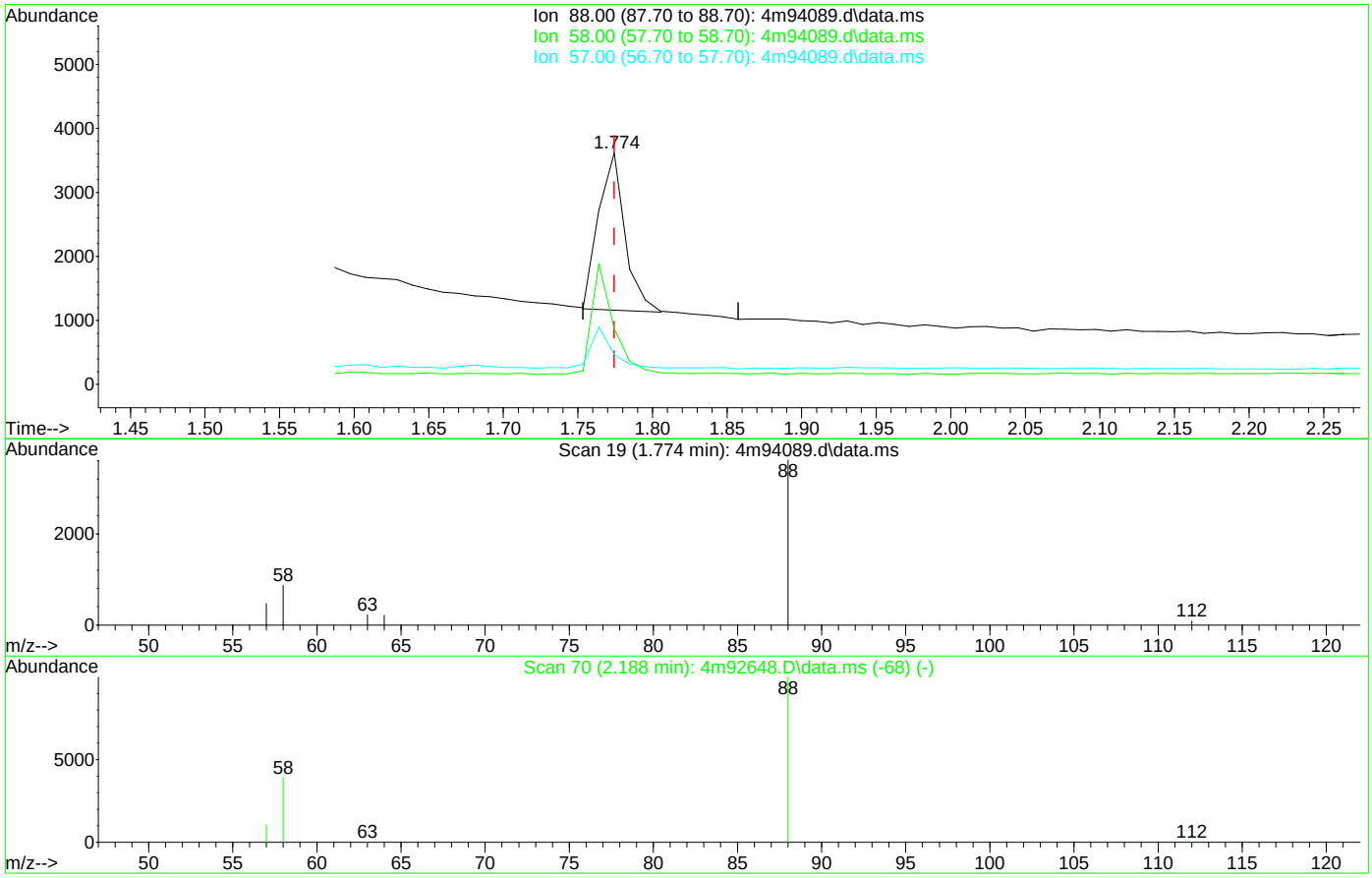
response 3628

Ion	Exp%	Act%
88.00	100	100
58.00	27.10	27.08
57.00	7.40	7.37
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\data_aimeel\e4m4348\
Data File : 4m94089.d
Acq On : 23 Jul 2020 9:17 am
Operator : chriss2
Sample : ecc4347-0.5 Inst : GCMS4M
Misc : op28540a,e4m4348,1000,,,1,1
ALS Vial : 2 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\M4M4347SIM.M
Quant Results File: M4M4347SIM.RES
Quant Time: Jul 24 04:37:59 2020
Quant Title : Semi Volatile GC/MS,zb-5 15m x .25mm x .50um
QLast Update : Fri Jul 24 04:37:48 2020
Response via : Initial Calibration



TIC: 4m94089.d\data.ms

(36) 1,4-Dioxane (t)

1.774min (0.000) 0.49ppm m

response 3013

Ion	Exp%	Act%
88.00	100	100
58.00	27.10	24.07
57.00	7.40	12.88
0.00	0.00	0.00

GCMS Semi Volatile Run Log SGS - Dayton Instrument ID: GCMS4M

Standard / Reagent	Lot #	Concentration	Standard / Reagent	Lot #	Concentration
DFTPP	sv202720-15	50ppm	SIM ISTD	sv202720-31	400ppm
SIM	sv202720-7P	0.5ppm	dcm\fisher	201485	---
SIM	sv202720-7A	5ppm	SIM	sv202720-7H	0.02ppm
SIM	sv202720-7B	2.5ppm	SIM	sv202720-7I	0.01ppm
SIM	sv202720-7C	1ppm	BSIM	op192515-107	1ppm
SIM	sv202720-7E	0.2ppm	ACID	sv202720-30D	5ppm
SIM	sv202720-7F	0.1ppm			
SIM	sv202720-7G	0.05ppm			

Run Batch:	E4M4347	**ACQ. Method:**	M4M4347SIM	**Sequence Loaded By:**	angelar
Date:	7/22/2020	**Reference Method:**	8270d/625	**Data Processed By:**	kristis
Column:	rxi-5sil ms 30m x 0.25mm x 0.25um	**Quant Methods:**	M4M4347SIM	**Approved By:**	ninap
Injection Volume:	1.0ul	**Initial Calib Date:**	7/22/2020	**Approved Date**	07/23/20

MP Missed Peak, **OP** Overlapping Peak **SP** Split Peak, **PDB** Poorly Defined Baselin **BR** Baseline Ripple **PII** Poor Instrument Integration

Data File		ALS	Sample ID	OP Batch ID	Test / Method	MTX	DF	Manually Integrated Peaks Rational Peak #	L+	Surr OK?	IS OK?	Run OK?	Comment
4M	94048	1	DFTPP									ok	8:29am
4M	94049	2	IC4347-0.5									ok	
4M	94050	3	IC4347-5									ok	
4M	94051	4	IC4347-2.5									ok	
4M	94052	5	IC4347-1					pii				ok	
4M	94053	6	IC4347-0.2					pii				ok	
4M	94054	7	IC4347-0.1					pii				ok	
4M	94055	8	IC4347-0.05					pii				ok	

GCMS Semi Volatile Run Log

Data File		ALS	Sample ID	OP Batch ID	Test / Method	MTX	DF	Manually Integrated Peaks Rational Peak #	L+	Surr OK?	IS OK?	Run OK?	Comment
4M	94056	9	IC4347-0.02					pii				ok	
4M	94057	10	IC4347-0.01									ok	
4M	94058	11	ICV4347-1		bsim							ok	
4M	94059	12	ICV4347-5		acid							ok	12:36pm

GCMS Semi Volatile Run Log SGS - Dayton Instrument ID: GCMS4M

Standard / Reagent	Lot #	Concentration	Standard / Reagent	Lot #	Concentration
DFTPP	sv202720-15	50ppm	SIM ISTD	sv202720-31	400ppm
SIM	sv202720-7o	0.5ppm	dcm\fisher	201485	---
SIM	sv202720-7g	0.05ppm			

Run Batch:	E4M4348	**ACQ. Method:**	M4M4347SIM	**Sequence Loaded By:**	chriss2
Date:	7/22/2020	**Reference Method:**	8270D/625	**Data Processed By:**	aimeel
Column:	rxi-5sil ms 30m x 0.25mm x 0.25um	**Quant Methods:**	M4M4347SIM	**Approved By:**	ninap
Injection Volume:	1.0ul	**Initial Calib Date:**	7/22/2020	**Approved Date**	07/24/20

MP Missed Peak, **OP** Overlapping Peak **SP** Split Peak, **PDB** Poorly Defined Baselin **BR** Baseline Ripple **PII** Poor Instrument Integration

Data File		ALS	Sample ID	OP Batch ID	Test / Method	MTX	DF	Manually Integrated Peaks Rational Peak #	L+	Surr OK?	IS OK?	Run OK?	Comment
4M	94060	1	DFTPP									N	443 low, rerun
4M	94061	1	DFTPP									N	ions out, up flow
4M	94062	1	DFTPP									ok	11:29pm
4M	94063	2	CC4347-0.5					pii				ok	
4M	94064	3	SIM VERIF									ok	0.05ppm
4M	94065	4	OP28540A-MB1	OP28540A	AB8270SIMNJ	AQ		pii		y	y	ok	
4M	94066	5	OP28540A-BS12	OP28540A	AB8270SIMNJ	AQ				y	y	ok	
4M	94067	6	JD10183-3	OP28540A	AB8270SIMNJ	AQ				y	y	ok	

GCMS Semi Volatile Run Log

Data File		ALS	Sample ID	OP Batch ID	Test / Method	MTX	DF	Manually Integrated Peaks Rational Peak #	L+	Surr OK?	IS OK?	Run OK?	Comment
4M	94068	7	JD10206-1	OP28540A	AB8270SIMNJ	AQ				y	y	ok	
4M	94069	8	JD10206-2	OP28540A	AB8270SIMNJ	AQ				y	y	ok	
4M	94070	9	JD10209-3	OP28540A	AB8270SIMNJ	AQ				y	y	ok	
4M	94071	10	JD10210-1	OP28540A	AB8270SIMNJ	AQ		pii		y	y	ok ok	
4M	94072	11	JD10210-2	OP28540A	AB8270SIMNJ	AQ		pii		y	y	ok	
4M	94073	12	JD10211-1	OP28540A	AB8270SIMNJ	AQ				y	y	ok	
4M	94074	13	JD10218-1	OP28540A	AB8270SIMNJ	AQ				y	y	ok	
4M	94075	14	JD10218-2	OP28540A	AB8270SIMNJ	AQ				y	y	ok	
4M	94076	15	JD10211-2	OP28540A	AB8270SIMNJ	AQ		pii		y	y	ok	
4M	94077	16	JD10207-1	OP28540A	AB8270SIMNJ	AQ				y	y	ok	
4M	94078	17	OP28540A-MSA	OP28540A	AB8270SIMNJ	AQ				y	y	ok	
4M	94079	18	OP28540A-MSDA	OP28540A	AB8270SIMNJ	AQ				y	y	ok	
4M	94080	19	JD10038-4	OP28540A	B8270SIMSL2	AQ				y	y	N	needs dilution:report from fullscan
4M	94081	20	JD10038-5	OP28540A	B8270SIMSL2	AQ				y	y	ok	
4M	94082	21	JD10038-6	OP28540A	B8270SIMSL2	AQ				y	y	ok	
4M	94083	22	JD10244-2	OP28540A	B8270SIM14DIOX	AQ				y	y	ok	
4M	94084	23	JD10244-3	OP28540A	B8270SIM14DIOX	AQ				y	y	ok	
4M	94085	24	JD10244-4	OP28540A	B8270SIM14DIOX	AQ		pii		y	y	ok ok	
4M	94086	25	JD10244-5	OP28540A	B8270SIM14DIOX	AQ				y	y	ok	

GCMS Semi Volatile Run Log

Data File		ALS	Sample ID	OP Batch ID	Test / Method	MTX	DF	Manually Integrated Peaks Rational Peak #	L+	Surr OK?	IS OK?	Run OK?	Comment
4M	94087	26	JD10244-1	OP28540A	B8270SIM14DIOX	AQ		pii		y	y	ok	
4M	94088	27	JD10032-2	OP28493A	AB8270SIMNJ	AQ	2			y	y	ok	
4M	94089	2	ECC4347-0.5					pii				ok	9:17am

ABN Aqueous Extraction Logbook

LOGBOOK ID:

Date Started: 7/22/20 Time Started: 8:00AM.
Date Finished: 7/22/20 Time Finished: 17:30

Extract Method (CHECK OFF "√" /DO NOT CIRCLE):
Separatory Funnel: SW846 3510C/CLP/other √ 3510C SIM
Continuous Liquid Liquid: SW846 3520C/CLP/other

BATCH # MS OP28540 RACK# green

Set-up by:	VP, NB
Extracted by:	VP, NB
Concentrated by:	VP, NB
Final Vol. Top-up:	VP, NB
Vialed by:	VP, NB
Supervisor Review:	NB 7/22/20

Equipment/ Range	ID	Observed Temp (°C)	Correction Factor (°C)	Corrected Temp (°C)	Pressure/ Flowrate
Buchi (65-71°C)					
Buchi Chiller					
Waterbath (70-80°C)	5	74	+0	74	OK
Waterbath Chiller (GPM)	F4	10.1	–	10.1	2
NEVAP (32-39°C, LPM)	4	35.3	–	35.3	10

SURROGATE	LOT #	CONC (ppm)	AMT (mL)
ABN	20267-10	50	1.0
ABN DOD SIM			

WITNESS SIGN: NB SPIKE SIGN: VP

MATRIX SPIKE	LOT #	CONC (ppm)	AMT (mL)
Acid	192515128	50	Acid: 0.1
Acid (for SIM)			A(SIM):
Base #1 MIX 1	202567-12	50	1.0
Base #2 MIX 2	202567-1	50	1.0
Anilines			
BSIM	202567-35	1111/2PPM	1.0

WITNESS SIGN: NB SPIKE SIGN: VP

SOLVENT	LOT #	BRAND	AMT (mL)
METH CHLOR	201686	Fisher	60X6

REAGENT	LOT #	BATCH #	BRAND
NaOH	196998		Fisher
H2SO4	2000998		Ricca
Sodium Sulfate	195510	7/2/20	Fisher Lab
Glass Wool	054408		
Filter Paper			
pH strips	217518		Hydrion

Special Client Spike Instructions					
QC ID# for Special Spike	Amt to Spike	Spike ID	Lot #	Conc.	Amt. Spiked

WITNESS SIGN. SPIKE SIGN.
Manager/Supervisor/Team Lead Approval:

	Sample #	Analysis Type	Sample Bottle #	Sample Description	Sample Volume (mL)	Final pH Extract Acid	Final pH Extract BN/ABN	Final Extract Color	Final Extract Vol(mL)	Misc. QC Cleanup	Misc. Comments
	MBI	ABN		DIH2O	1000	<2	>11	Clear	1.0		
	BS1			DIH2O	1000	<2	>11	Yellow	1.0		
	JD10207-1 MS		5	Clear	1000	<2	>11	Yellow	1.0		
	MSD		4	Clear	1000	<2	>11	lt. Yellow	1.0		
	BS2	SIM		DIH2O	1000	<2	>11	lt. Yellow	1.0		
	JD10207-1 MS A		3	Clear	1000	<2	>11	lt. Yellow	1.0		
	MSD A		1	Clear	1000	<2	>11				
	BS										
	MS										
	MSD										
1	JD10183-3	ABN	2	Clear	1000	<2	>11	Clear	1.0		
2	JD10244-1		4	Yellow	1000	<2	>11	lt. Yellow	1.0		
3	-2		1	Clear	1000	<2	>11	Clear	1.0		
4	-3		2	Clear	1000	<2	>11	Clear	1.0		
5	-4		2	Clear	1000	<2	>11	Clear	1.0		
6	-5		2	Clear	900	<2	>11	Cleal	1.0		
7	JD10204-9		3	Yellow	1000	<2	>11	lt. Yellow	1.0		
8	JD10206-1		2	Clear	1000	<2	>11	Clear	1.0		
9	-2		2	Clear	1000	<2	>11	Clear	1.0		
10	JD10207-1		2	Clear	1000	<2	>11	Clear	1.0		
11	JD10209-3		1	Yellow	1000	<2	>11	lt. Yellow	1.0		
12	JD10210-1		2	Clear	980	<2	>11	Clear	1.0		
13	-2		1	Clear	1000	<2	>11	Clear	1.0		
14	JD10211-1		1	Clear	980	<2	>11	Clear	1.0		
15	-2		2	Yellow	995	<2	>11	lt. Yellow	1.0		
16	JD10218-1		2	Clear	1000	<2	>11	Clear	1.0		
17	-2		1	Clear	1000	<2	>11	Clear	1.0		
18	JD10038-4 (Rx)		2	lt. yellow	990	<2	>11	lt. yellow	1.0		
19	-5		2	Clear	1000	<2	>11	Clear	1.0		
20	-6		2	Clear	995	<2	>11	Clear	1.0		

Comments: QC Samples (MS, MSD, LINK and/or DUP, Link) Confirmed by:

SPECIAL PROCESSING INSTRUCTIONS
Rx Reason:
Spiking:
Weights/Volumes:
Required MS/MSD:
JD10207-1 (Fullscan +SIM)
Final Volume:
Other:
PrHT 7/17
HT 7/22 @ 1405
Due 7/30 7/28

SGS
Form: OP022A-13
Rev Date: 8/23/19

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EDD Transmittal E-mail to NYSDEC EIMS

From: Tina Clemmey
To: NYENVDATA@dec.ny.gov
Cc: tracy.smith@dec.ny.gov; May Heflin
Subject: Carrier Carlyle Compressor Site ID 734068 - NYSDEC EDD Submission - Follow up
Date: Tuesday, January 5, 2021 8:38:08 AM
Attachments: image001.png
image002.png

Hi Aaron,

Happy New Year! I hope you are safe and healthy! I was just checking in to see if you were able to upload the resubmitted EDD for Site ID 734068 (details below).
I believe the last time you emailed me regarding this submission, you received an undeliverable email return so I just want to make sure I'm not missing your response especially if you need me to provide additional information.

Thanks!
~Tina Clemmey

Tina Clemmey
Sr. Chemist/Data Validator
860-638-7406 *cell*
860-665-1140 *main*
860-331-8168 *direct*
1233 Silas Deane Highway
Wethersfield, CT 06109

ENSAFE creative thinking | custom solutions

From: Tina Clemmey
Sent: Monday, December 14, 2020 10:50 AM
To: dec.sm.NYENVDATA <NYENVDATA@dec.ny.gov>
Cc: Smith, Tracy (DEC) <tracy.smith@dec.ny.gov>; May Heflin <mheflin@Ensafe.com>
Subject: RE: Carrier Carlyle Compressor Site ID 734068 - NYSDEC EDD Submission

Hi Aaron,

The attached EDD is a revised copy of the EDD sent on Monday, December 07, 2020 with the required data you referenced in your email below.
Please let me know if there is anything else I need to do in order to get this data uploaded successfully.

Thank you,
Tina Clemmey

Tina Clemmey
Sr. Chemist/Data Validator
860-638-7406 *cell*
860-665-1140 *main*
860-331-8168 *direct*
1233 Silas Deane Highway
Wethersfield, CT 06109

ENSAFE creative thinking | custom solutions

From: dec.sm.NYENVDATA <NYENVDATA@dec.ny.gov>

Sent: Friday, December 11, 2020 2:31 PM
To: Tina Clemmey <tclemmey@ensafe.com>
Cc: Smith, Tracy (DEC) <tracy.smith@dec.ny.gov>; May Heflin <mheflin@Ensafe.com>
Subject: RE: Carrier Carlyle Compressor Site ID 734068 - NYSDEC EDD Submission

Tina,

20201207 1353.734068.NYSDEC_MERGE is the first dataset we have received for the referenced facility 734068. It is not technically possible for us to load your data to NYSDEC's EQuIS database, as we need the Location_v4 data your wells and sampling information would reference, and the Subfacility_v4 data your Location_v4 rows would reference. Please submit a revised copy of the EDD with the required data.

Please do not hesitate to contact us with any questions. Also, for future reference, here is the link for the EDD Manual: http://www.dec.ny.gov/docs/remediation_hudson_pdf/eddmanual.pdf, and the link for the main EDD instruction page: http://www.dec.ny.gov/chemical/62440.html.

Aaron
NYSDEC EIMS Team



From: Tina Clemmey <tclemmey@ensafe.com>
Sent: Monday, December 07, 2020 2:02 PM
To: dec.sm.NYENVDATA <NYENVDATA@dec.ny.gov>
Cc: Smith, Tracy (DEC) <tracy.smith@dec.ny.gov>; May Heflin <mheflin@Ensafe.com>
Subject: Carrier Carlyle Compressor Site ID 734068 - NYSDEC EDD Submission

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

Please fine attached a NYSDEC EDD for the Former Carrier Carlyle Compressor Facility, NYSDEC Site ID #734068.

This EDD is a first submission. Please note the following:

- Data Provider Tab
  - A new valid value company code SGS_FL is included on the data provider tab for the SGS Laboratory in Orlando, Florida.
  - Existing data providers for SGS_NJ and ENSAFE are included on data provider tab in order to clear the error for existing company codes used on the sample tab.
- Well Tab
  - Arbitrary values of "0" for datum_value and "01/01/1900 00:00" for datum_start_date were entered as placeholders because this information is not available.

Please let me know if you have any questions.

Thank you,

~Tina Clemmey

Tina Clemmey
Sr. Chemist/Data Validator
860-638-7406 *cell*
860-665-1140 *main*
860-331-8168 *direct*
1233 Silas Deane Highway
Wethersfield, CT 06109



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Appendix E
Sub-slab Depressurization System Observation Forms, Photolog, and Building Manager Inspection Log

Observation Forms

SITE OBSERVATIONS FORM
Former Carrier Carlyle Compressor Site
Town of Dewitt, Onondaga, County, New York
Interim Remedial Project DEC Site Code: 734068

DATE: February 10, 2020 INSPECTOR: May Heflin, EnSafe Inc.

A. SWALE AND STORM SEWER OUTFALL AREA:

Water level measurement at storm sewer gauging station: Not measured

Changes observed in grade, location or flow conditions (manmade or natural) for swale or storm sewer outfall?
None.

Changes observed (manmade or natural) along Sanders Creek upstream or downstream of site compliance sampling point? None

B. ADJACENT LAND USES

Any change in land use in the lands immediately to the west of the swale? None observed.

Any change in the land use in the lands immediately south of the site parking lot area?
None observed.

Any change to the outdoor land use in the area along the south building wall (trench 8) area? None observed.
Periodically items related to business activities (pallets, metal) are stored in this area.

C. MONITORING LOCATIONS

Any conditions potentially impacting the accessibility or data quality from the site monitoring well locations:
None that would impact data quality. Vegetative overgrowth can make accessing the drainage swale difficult.

D. SSDS SYSTEM: Check in with site contact: Mike Neidle 315-481-7170

Weekly readings recorded? Y/N/Comments: Readings collected by building manager.

Problems Reported? During the 2/10/20 inspection, EP #2 was observed to have no vacuum. Building manager contacted installer of SSDS (Intex Env. Group). Intex rep came out to site and inspected piping visually, checked extraction points, cleaned inlet air filer, turned up the blower frequency, verified vacuum readings. Recommended that pressure gauges be replaced. On 9/18/2020, building manager noted the system was in default mode. Intex recommended to bldg. manager to do a reboot of the system, as a power spike may have occurred. This did not restart the system. Intex went back out to the site in early October and made repairs (specifics unknown) and the system was operational when Intex personnel left the site.

SSDS Extraction Leg Gage Readings (in-H_2O):
EW-1: 15
EW-2: 0

EW-3: 8
EW-4: 10
EW-5: 4

Blower hour meter reading: Not taken
Date and Time: _____

Visual observations, e.g. check for obstructions around the SSDS enclosure; stack and guys intact, etc.: None.

E. ADDITIONAL COMMENTS: _____

SITE OBSERVATIONS FORM
Former Carrier Carlyle Compressor Site
Town of Dewitt, Onondaga, County, New York
Interim Remedial Project DEC Site Code: 734068

DATE: October 10, 2019 INSPECTOR: May Heflin, EnSafe, Inc.

A. SWALE AND STORM SEWER OUTFALL AREA:

Water level measurement at storm sewer gauging station: : Not measured

Changes observed in grade, location or flow conditions (manmade or natural) for swale or storm sewer outfall?

Changes observed (manmade or natural) along Sanders Creek upstream or downstream of site compliance sampling point? None

B. ADJACENT LAND USES

Any change in land use in the lands immediately to the west of the swale? None observed.

Any change in the land use in the lands immediately south of the site parking lot area?
None observed.

Any change to the outdoor land use in the area along the south building wall (trench 8) area? ? None observed.
Periodically items related to business activities (pallets, metal) are stored in this area.

C. MONITORING LOCATIONS

Any conditions potentially impacting the accessibility or data quality from the site monitoring well locations:
None that would impact data quality. Vegetative overgrowth can make accessing the drainage swale difficult.

D. SSDS SYSTEM: Check in with site contact: Mike Neidle 315-481-7170

Weekly readings recorded? Y/N/Comments: Readings collected by building manger.

Problems Reported? No problems noted during the 10/10/19 inspection.

SSDS Extraction Leg Gage Readings (in-H_2O):
EW-1: 15
EW-2: 2
EW-3: 4
EW-4: 9
EW-5: 5

Blower hour meter reading: Not taken
Date and Time:

Visual observations, e.g. check for obstructions around the SSDS enclosure; stack and guys intact, etc.:
None.

E. ADDITIONAL COMMENTS: None.

Photolog During Inspections

Q4 2019 and Q1 2020 Observations
Photolog
Former Carrier CC-1 Facility, Syracuse, New York



Photo 1: 2019 Equipment storage on south side of building, parking area IMG_9720



Photo 2: 2019 Partially obstructed access to MW-7 on southwest side of property IMG_9721



Photo 3: 2019 View of west side of property – facing west IMG_9722



Photo 4: 2019 View of west side of property – facing north IMG_9723

Q4 2019 and Q1 2020 Observations
Photolog
Former Carrier CC-1 Facility, Syracuse, New York



Photo 5: 2019 Equipment storage, south side of property IMG_9724



Photo 6: 2020 EP1 IMG_0042



Photo 7: 2020 EP2 IMG_0044



Photo 8: 2020 EP3 IMG_0045

Q4 2019 and Q1 2020 Observations
Photolog
Former Carrier CC-1 Facility, Syracuse, New York

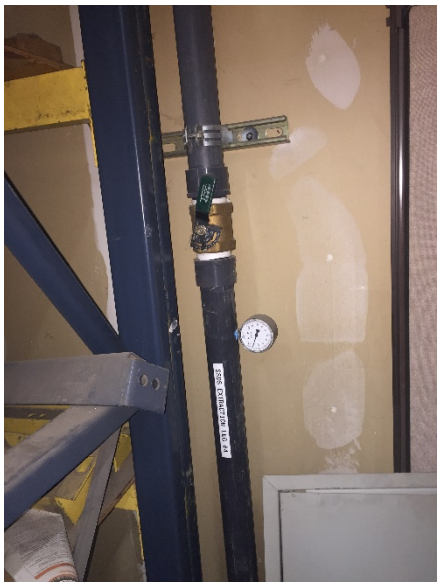


Photo 9: 2020 EP4 IMG_0046

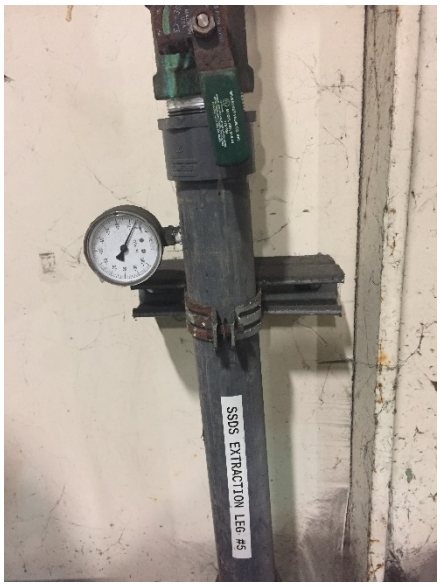


Photo 10: 2020 EP5 IMG_0048

Building Manager Inspection Log

STAPLES

Slab System

vacuum

1	13
2	2
3	10
4	12
5	5

9/11/19

1	6
2	5
3	11
4	10
5	3

10/27/19

1	8
2	5
3	12
4	10
5	5

11/7/19

1	8
2	3
3	14
4	12
5	3

12/4/19

1	5
2	9
3	9

vacuum 4/15/20

1	6
2	3
3	9
4	12
5	5

5/19/20

1	5
2	4
3	12
4	10
5	0

6/8

1	5
2	2
3	10
4	12
5	6

7/27/20

1	5
2	0
3	9
4	12
5	5

vacuum

5

9/5/20

1	5
2	3
3	10
4	12
5	3

9/10/20

1	8
2	5
3	10
4	11
5	5

10/16/20

1	15
2	3
3	10
4	13
5	3

11/5/20

1	15
2	0
3	10
4	12
5	3